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1.24 commons-codec 1.6

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains
test data from http://aspell.sourceforge.net/test/batch0.tab.

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1.25 commons-lang3 3.5

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1.26 dateformat 3.0.2

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1.27 deprecated-decorator 0.1.6

1.28 dslink 0.20.1

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```
package org.dsa.iot.dslink.node;

/**
 * Handles various permission levels
 * @author Samuel Grenier
 */
public enum Permission {
  NONE("none"),
  READ("read"),
  WRITE("write"),
  CONFIG("config"),
  NEVER("never");

  private final String jsonName;

  Permission(String jsonName) {
    this.jsonName = jsonName;
  }

  /**
   * @return JSON ready name of the permission
   */
  public String getJsonName() {
    return jsonName;
  }

  /**
   * Converts a string permission received from an endpoint back into a
   * permission enumeration.
   *
   * @param perm Permission string to convert.
   * @return Converted string into an enumeration.
   */
  public static Permission toEnum(String perm) {
    switch (perm) {
      case "none":
        return NONE;
      case "read":
```

```
            return READ;
        case "write":
            return WRITE;
        case "config":
            return CONFIG;
        case "never":
            return NEVER;
        default:
            throw new RuntimeException("Unhandled type");
        }
    }
}
```

1.29 fast-json-stable-stringify 2.0.0

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1.30 graphql 0.13.2

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1.31 graphql-anywhere 4.1.14

1.31.1 Available under license :

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1.32 graphql-java 8.0

1.33 graphql-tag 2.9.2

1.33.1 Available under license :

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1.34 graphql-tools 3.0.5

1.34.1 Available under license :

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1.35 h2 1.4.195

1.36 Hamcrest Core 1.3

1.36.1 Available under license :

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http://www.opensource.org/licenses/bsd-license.php

1.37 hibernate-jpa-2.1-api 1.0.0.Final

1.37.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="utf-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <meta name="author" content="Mike Milinkovich, January 25, 2008"/>
   <meta name="keywords" content="edl, legal, license"/>
   <link href="//fonts.googleapis.com/css?family=Open+Sans:400,700,300,600,100" rel="stylesheet"
type="text/css"/>
   <link rel="shortcut icon" href="/eclipse.org-common/themes/solstice/public/images/favicon.ico"/>
   <title>Eclipse Distribution License</title>
   <link rel="stylesheet" href="/eclipse.org-common/themes/solstice/public/stylesheets/styles.min.css"/>
<meta property="og:description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an IDE
framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
<meta property="og:image" content="https://www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-200x200.png"/>
<meta property="og:title" content="Eclipse Distribution License"/>
<meta property="og:image:width" content="200"/>
<meta property="og:image:height" content="200"/>
<meta itemprop="name" content="Eclipse Distribution License"/>
<meta itemprop="description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an IDE
framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
<meta itemprop="image" content="https://www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-400x400.png"/>
<meta name="twitter:site" content="@EclipseFdn"/>
<meta name="twitter:card" content="summary"/>
<meta name="twitter:title" content="Eclipse Distribution License"/>
```

```
<meta name="twitter:url" content="http://www.eclipse.org/org/documents/edl-v10.php"/>
<meta name="twitter:description" content="Eclipse is probably best known as a Java IDE, but it is more: it is an
IDE framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
<meta name="twitter:image" content="https://www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-400x400.png"/>

  <script> var eclipse_org_common =
{"settings":{"cookies_class":{"name":"eclipse_settings","enabled":1}}}</script> </head>
 <body id="body_solstice">
   <a class="sr-only" href="#content">Skip to main content</a>
     <div class="clearfix toolbar-container-wrapper">
    <div class="container">
     <div class="text-right toolbar-row row hidden-print">
      <div class="col-md-24 row-toolbar-col">
       <ul class="list-inline">
        <li><a href="https://accounts.eclipse.org/user/register"><i class="fa fa-user fa-fw"></i> Create
account</a></li>
         <li><a
href="https://accounts.eclipse.org/user/login/?takemeback=http%3A%2F%2Fwww.eclipse.org%2Forg%2Fdocumen
ts%2Fedl-v10.php"><i class="fa fa-sign-in fa-fw"></i> Log in</a></li>

      </ul>
     </div>
    </div>
   </div>
  </div><header role="banner" id="header-wrapper">
 <div class="container">
  <div class="row" id="header-row">
      <div class="hidden-xs col-sm-8 col-md-6 col-lg-5" id="header-left">
     <div class="wrapper-logo-default"><a href="http://www.eclipse.org/"><img class="logo-eclipse-default img-
responsive hidden-xs" alt="logo" src="//www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-426x100.png"/></a></div>
    </div>        <div class="col-sm-10 col-md-8 col-lg-5 hidden-print hidden-xs pull-right" id="header-right">
      <div class="row"><div class="col-md-24">
  <div id="custom-search-form" class="reset-box-sizing">
  <script>
   (function() {
    var cx = '011805775785170369411:p3ec0igo0qq';
    var gcse = document.createElement('script');
    gcse.type = 'text/javascript';
    gcse.async = true;
    gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
    var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(gcse, s);
   })();
  </script>
  <gcse:searchbox-only gname="main" resultsUrl="https://www.eclipse.org/home/search.php"></gcse:searchbox-
```

only>
    </div></div></div>
      <div id="btn-call-for-action"><i class="fa fa-download"></i> Download</div>
    </div>   <div class="col-sm-14 col-md-16 col-lg-19 reset" id="main-menu-wrapper">
 <div class="navbar yamm" id="main-menu">
  <div id="navbar-collapse-1" class="navbar-collapse collapse">
   <ul class="nav navbar-nav">
    <li class="visible-thin">Download
Getting Started
Members
Projects   <li class="dropdown visible-xs">Community <b class="caret"><ul class="dropdown-menu">
Marketplace
Events
Planet Eclipse
Newsletter
Videos
<li class="dropdown visible-xs">Participate <b class="caret"><ul class="dropdown-menu">
Report a Bug
Forums
Mailing Lists
Wiki
IRC
How to Contribute
<li class="dropdown visible-xs">Working Groups <b class="caret"><ul class="dropdown-menu">
Internet of Things
LocationTech
Long-Term Support
PolarSys
Science
OpenMDM   <!-- More -->
      <li class="dropdown eclipse-more hidden-xs">
       <a data-toggle="dropdown" class="dropdown-toggle">More<b class="caret">
       <ul class="dropdown-menu">

         <!-- Content container to add padding -->
         <div class="yamm-content">
          <div class="row">
           <ul class="col-sm-8 list-unstyled">
<p>Community</p>
Marketplace
Events
Planet Eclipse
Newsletter
Videos
<ul class="col-sm-8 list-unstyled">
<p>Participate</p>
Report a Bug
Forums
Mailing Lists
Wiki
IRC
How to Contribute
<ul class="col-sm-8 list-unstyled">
<p>Working Groups</p>
Internet of Things
LocationTech
<a

href="http://lts.eclipse.org">Long-Term Support
<a
href="http://polarsys.org">PolarSys
Science
<a
href="http://www.openmdm.org">OpenMDM   </div>
          </div>

    </div>
    <div class="navbar-header">
     <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#navbar-collapse-1">
     Toggle navigation

     </button>
     <div class="wrapper-logo-mobile"><img
class="logo-eclipse-default-mobile img-responsive" alt="logo" src="//www.eclipse.org/eclipse.org-
common/themes/solstice/public/images/logo/eclipse-800x188.png"/></div>   </div>
  </div>
</div>
   </div>
 </div>
</header>
   <section class="hidden-print default-breadcrumbs" id="breadcrumb">
    <div class="container">
     <h3 class="sr-only">Breadcrumbs</h3>
     <div class="row">
      <div class="col-sm-16 padding-left-30"><ol class="breadcrumb">
<a
href="http://www.eclipse.org/">Home
About
Us
Governance Documents
<li
class="active">Eclipse Distribution License
</div>
      <div class="col-sm-8 margin-top-15"></div>
     </div>

    </div>
   </section> <!-- /#breadcrumb --><main class="no-promo">
 <div class="novaContent container" id="novaContent">
        <!-- nav -->
 <aside id="leftcol" class="col-md-4">
     <ul id="leftnav" class="ul-left-nav fa-ul hidden-print">

          <li class="separator">

          About Us


```
        <li>
     <i class="fa fa-angle-double-right orange fa-fw"></i>
     <a href="/org/foundation/reports/annual_report.php" target="_self">
      Annual Report          </a>
    </li>




        <li>
     <i class="fa fa-angle-double-right orange fa-fw"></i>
     <a href="/org/foundation/" target="_self">
      Foundation          </a>
    </li>




        <li>
     <i class="fa fa-angle-double-right orange fa-fw"></i>
     <a href="/org/documents/" target="_self">
      Governance          </a>
    </li>




        <li>
     <i class="fa fa-angle-double-right orange fa-fw"></i>
     <a href="/legal/" target="_self">
      Legal Resources          </a>
    </li>




        <li>
     <i class="fa fa-angle-double-right orange fa-fw"></i>
     <a href="/org/foundation/contact.php" target="_self">
      Contact Us          </a>
    </li>

        </ul>
   </aside>

 <div id="midcolumn">
  <h1>Eclipse Distribution License  - v 1.0</h1>

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```

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POSSIBILITY OF SUCH DAMAGE.</p>
</div>
 <div id="rightcolumn">
  <div class="sideitem">
   <h6>OSI Approved</h6>The Eclipse Distribution License is an OSI Approved Open Source License by means of
the
   New BSD License.
   <p align="center"><img
align="center" src="../../images/osi-certified-60x50.gif" border="0"/> </p>
   <h6>Purpose</h6>
   Use of the Eclipse Distribution License by any project at the Eclipse Foundation must
   be reviewed and unanimously approved by the Board of Directors.
   <h6>Related Links</h6>

   The standard Eclipse license is the Eclipse Public License.
   EDL in plain HTML

  </div>
 </div>
 </div>
</main> <!-- /#main-content-container-row --><p id="back-to-top">
 Back to the top
</p>
<footer role="contentinfo" id="solstice-footer">

```
<div class="container">
  <div class="row">
    <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-eclipse-
foundation">
        <h2 class="section-title">Eclipse Foundation</h2>
  <ul class="nav">
  <li><a href="http://www.eclipse.org/org/">About us</a></li>
  <li><a href="http://www.eclipse.org/org/foundation/contact.php">Contact Us</a></li>
  <li><a href="http://www.eclipse.org/donate">Donate</a></li>
   <li><a href="http://www.eclipse.org/org/documents/">Governance</a></li>
   <li><a href="http://www.eclipse.org/artwork/">Logo and Artwork</a></li>
   <li><a href="http://www.eclipse.org/org/foundation/directors.php">Board of Directors</a></li>
  </ul>      </section>
   <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-legal">
        <h2 class="section-title">Legal</h2>
  <ul class="nav">
   <li><a href="http://www.eclipse.org/legal/privacy.php">Privacy Policy</a></li>
   <li><a href="http://www.eclipse.org/legal/termsofuse.php">Terms of Use</a></li>
   <li><a href="http://www.eclipse.org/legal/copyright.php">Copyright Agent</a></li>
   <li><a href="http://www.eclipse.org/org/documents/epl-v10.php">Eclipse Public License </a></li>
   <li><a href="http://www.eclipse.org/legal/">Legal Resources </a></li>
  </ul>      </section>
   <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-useful-
links">
        <h2 class="section-title">Useful Links</h2>
  <ul class="nav">
   <li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li>
   <li><a href="//help.eclipse.org/">Documentation</a></li>
   <li><a href="http://www.eclipse.org/contribute/">How to Contribute</a></li>
   <li><a href="http://www.eclipse.org/mail/">Mailing Lists</a></li>
   <li><a href="http://www.eclipse.org/forums/">Forums</a></li>
   <li><a href="//marketplace.eclipse.org">Marketplace</a></li>
  </ul>     </section>
   <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-other">
        <h2 class="section-title">Other</h2>
  <ul class="nav">
   <li><a href="http://www.eclipse.org/ide/">IDE and Tools</a></li>
   <li><a href="http://www.eclipse.org/projects">Community of Projects</a></li>
   <li><a href="http://www.eclipse.org/org/workinggroups/">Working Groups</a></li>
   <li><a href="http://www.eclipse.org/org/research/">Research@Eclipse</a></li>
  </ul>

  <ul class="list-inline social-media">
   <li><a href="https://twitter.com/EclipseFdn"><i class="fa fa-twitter-square"></i></a></li>
   <li><a href="https://plus.google.com/+Eclipse"><i class="fa fa-google-plus-square"></i></a></li>
   <li><a href="https://www.facebook.com/eclipse.org"><i class="fa fa-facebook-square"></i> </a></li>
   <li><a href="https://www.youtube.com/user/EclipseFdn"><i class="fa fa-youtube-square"></i></a></li>
   <li><a href="https://www.linkedin.com/company/eclipse-foundation"><i class="fa fa-linkedin-
```

square"></i>
       </section>
        <div id="copyright" class="col-sm-offset-1 col-sm-14 col-md-24 col-md-offset-0">
      <div class="wrapper-logo-eclipse-white"></div>
        <p id="copyright-text">Copyright © 2017 The Eclipse Foundation. All Rights Reserved.</p>
      </div>   Back to the top
    </div>
 </div>
</footer>
<!-- Placed at the end of the document so the pages load faster -->
<script src="/eclipse.org-common/themes/solstice/public/javascript/main.min.js"></script>

    <script type="text/javascript">

    var _gaq = _gaq || [];
    _gaq.push(['_setAccount', 'UA-910670-2']);
    _gaq.push(['_trackPageview']);

    (function() {
      var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
      ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
      var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
    })();

    </script>
</body>
</html>
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top: 0.5em;
   margin-bottom: 0.5em;
   }

```
  p.list {
 margin-left: 0.5in;
  margin-top:  0.05em;
  margin-bottom: 0.05em;
  }
 </style>

</head>

<body lang="EN-US">

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1.43 iterall 1.2.2

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1.46 jackson-coreutils 1.6

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1.48 jackson-databind 2.8.10

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1.49 jackson-dataformat-msgpack 0.8.16

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```
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 <settings default="msgpack">
  <LanguageOptions name="JAVA">
   <option name="fileTypeOverride" value="3" />
   <option name="addBlankAfter" value="false" />
   <option name="block" value="false" />
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    <option name="prefixLines" value="false" />
  </LanguageOptions>
  <LanguageOptions name="Scala">
   <option name="fileTypeOverride" value="3" />
   <option name="addBlankAfter" value="false" />
   <option name="block" value="false" />
   <option name="prefixLines" value="false" />
  </LanguageOptions>
  <LanguageOptions name="__TEMPLATE__">
   <option name="addBlankAfter" value="false" />
  </LanguageOptions>
 </settings>
</component>
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  <option name="myName" value="msgpack" />
  <option name="keyword" value="MessagePack for Java" />
  <option name="notice" value="&#10;MessagePack for Java&#10;&#10;   Licensed under the Apache License,
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1.61 json-schema-core 1.2.8

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1.62 json-schema-validator 0.1.13

1.63 json-schema-validator 2.2.8

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1.72 loose-envify 1.4.0

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1.74 lua-resty-http 0.12

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1.76 lua-resty-openidc 1.6.1

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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 * HOMEPAGE:
  * https://github.com/y-256/libdivsufsort

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  * https://github.com/JCTools/JCTools

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   * http://www.jcraft.com/jzlib/

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 * HOMEPAGE:
   * https://github.com/ning/compress

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   * https://github.com/jpountz/lz4-java

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 * HOMEPAGE:
   * https://github.com/jponge/lzma-java

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   * https://code.google.com/p/jfastlz/

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 * HOMEPAGE:
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   * https://github.com/google/snappy

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   * http://www.jboss.org/jbossmarshalling

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* http://logging.apache.org/log4j/

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   * https://github.com/takari/maven-wrapper

1.89 netty-buffer 4.1.19.Final

1.90 netty-codec 4.1.19.Final

1.91 netty-codec-dns 4.1.19.Final

1.92 netty-codec-http 4.1.19.Final

1.93 netty-codec-http2 4.1.19.Final

1.94 netty-codec-socks 4.1.19.Final

1.95 netty-common 4.1.19.Final

1.96 netty-handler 4.1.19.Final

1.97 netty-handler-proxy 4.1.19.Final

1.98 netty-resolver 4.1.19.Final

1.99 netty-resolver-dns 4.1.19.Final

1.100 netty-transport 4.1.19.Final

1.101 null 0.9

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1.103 opentest4j 1.0.0

1.104 runtime_shared 0.20.1

1.105 rxjava 2.1.3

1.106 slf4j-api 1.7.25

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1.107 slf4j-ext 1.7.25

1.108 snakeyaml 1.18

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1.113 swagger-annotations 2.0.0-rc4
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*/

package io.swagger.v3.oas.annotations.info;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
* The annotation may be used in {@link Info#license()} to define a license for the OpenAPI spec.
*
* @see <a target="_new" href="https://github.com/OAI/OpenAPI-
Specification/blob/3.0.1/versions/3.0.1.md#licenseObject">License (OpenAPI specification)</a>
* @see io.swagger.v3.oas.annotations.OpenAPIDefinition
* @see Info
**/
@Target({})
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
  /**
   * The license name used for the API.
   *
   * @return the name of the license
   **/
  String name() default "";

  /**
   * A URL to the license used for the API. MUST be in the format of a URL.
   *
   * @return the URL of the license
   **/
  String url() default "";

}
```

1.114 swagger-annotations 1.5.18

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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

  /**
   * The name of the license.
   *
   * @return the name of the license
   */
  String name();

  /**
   * An optional URL for the license.
   *
```

```
 * @return an optional URL for the license.
 */
String url() default "";
}
```

1.115 swagger-compat-spec-parser 1.0.34

1.116 swagger-core 2.0.0-rc4

1.117 swagger-core 1.5.18

1.118 swagger-models 2.0.0-rc4

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*/

package io.swagger.v3.oas.models.info;

import java.util.Objects;

/**

* License

*

* @see "https://github.com/OAI/OpenAPI-Specification/blob/3.0.1/versions/3.0.1.md#licenseObject"

```
*/

public class License {
  private String name = null;
  private String url = null;
  private java.util.Map<String, Object> extensions = null;

  /**
   * returns the name property from a License instance.
   *
   * @return String name
   **/

  public String getName() {
    return name;
  }

  public void setName(String name) {
    this.name = name;
  }

  public License name(String name) {
    this.name = name;
    return this;
  }

  /**
   * returns the url property from a License instance.
   *
   * @return String url
   **/

  public String getUrl() {
    return url;
  }

  public void setUrl(String url) {
    this.url = url;
  }

  public License url(String url) {
    this.url = url;
    return this;
  }

  @Override
  public boolean equals(java.lang.Object o) {
    if (this == o) {
```

```java
      return true;
    }
    if (o == null || getClass() != o.getClass()) {
      return false;
    }
    License license = (License) o;
    return Objects.equals(this.name, license.name) &&
        Objects.equals(this.url, license.url) &&
        Objects.equals(this.extensions, license.extensions);
  }

  @Override
  public int hashCode() {
    return Objects.hash(name, url, extensions);
  }

  public java.util.Map<String, Object> getExtensions() {
    return extensions;
  }

  public void addExtension(String name, Object value) {
    if (name == null || name.isEmpty() || !name.startsWith("x-")) {
      return;
    }
    if (this.extensions == null) {
      this.extensions = new java.util.HashMap<>();
    }
    this.extensions.put(name, value);
  }

  public void setExtensions(java.util.Map<String, Object> extensions) {
    this.extensions = extensions;
  }

  public License extensions(java.util.Map<String, Object> extensions) {
    this.extensions = extensions;
    return this;
  }

  @Override
  public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("class License {\n");

    sb.append("    name: ").append(toIndentedString(name)).append("\n");
    sb.append("    url: ").append(toIndentedString(url)).append("\n");
    sb.append("}");
    return sb.toString();
```

```
  }

  /**
   * Convert the given object to string with each line indented by 4 spaces
   * (except the first line).
   */
  private String toIndentedString(java.lang.Object o) {
    if (o == null) {
      return "null";
    }
    return o.toString().replace("\n", "\n    ");
  }

}
```

1.119 swagger-models 1.5.18

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```
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;

import java.util.LinkedHashMap;
import java.util.Map;

public class License {
  private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
  private String name;
  private String url;

  public License name(String name) {
    setName(name);
    return this;
  }

  public License url(String url) {
    setUrl(url);
    return this;
  }

  public String getName() {
    return name;
  }

  public void setName(String name) {
    this.name = name;
```

```java
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
```

```java
        if (name == null) {
            if (other.name != null) {
                return false;
            }
        } else if (!name.equals(other.name)) {
            return false;
        }
        if (url == null) {
            if (other.url != null) {
                return false;
            }
        } else if (!url.equals(other.url)) {
            return false;
        }
        if (vendorExtensions == null) {
            if (other.vendorExtensions != null) {
                return false;
            }
        } else if (!vendorExtensions.equals(other.vendorExtensions)) {
            return false;
        }
        return true;
    }
}
```

1.120 swagger-parser 1.0.34

1.121 swagger-parser 2.0.0-rc3

1.122 swagger-parser-core 2.0.0-rc3

1.123 swagger-parser-v2-converter 2.0.0-rc3

1.124 swagger-parser-v3 2.0.0-rc3

1.125 symbol-observable 1.2.0

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1.127 uuid 3.3.2

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1.129 vertx-auth-jwt 3.5.4

1.130 vertx-bridge-common 3.5.4

1.131 vertx-core 3.5.4

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1.134 vertx-rx-java2 3.5.4

1.135 vertx-service-discovery 3.5.4

1.136 vertx-service-factory 3.5.4

1.137 vertx-service-proxy 3.5.4

1.138 vertx-web 3.5.4

1.139 vertx-web-api-contract 3.5.4

1.140 vue 2.5.16

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2.3 aesh 0.66.19

2.4 aesh 1.4

2.5 aesh-readline 1.7

2.6 aether-api 1.0.0.v20140518

2.7 aether-connector-basic 1.0.0.v20140518

2.8 aether-impl 1.0.0.v20140518

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2.10 aether-transport-file 1.0.0.v20140518

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 *
 */
package org.apache.directory.api.ldap.aci;


import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
```

```java
import java.util.Set;


/**
 * An abstract base class for {@link ItemPermission} and {@link UserPermission}.
 *
 * @author <a href="mailto:dev@directory.apache.org">Apache Directory Project</a>
 */
public abstract class Permission
{
  /** The precedence. */
  private final Integer precedence;

  /** The grants and denials. */
  private final Set<GrantAndDenial> grantsAndDenials;

  /** The grants. */
  private final Set<GrantAndDenial> grants;

  /** The denials. */
  private final Set<GrantAndDenial> denials;


  /**
   * Creates a new instance
   *
   * @param precedence
   *        the precedence of this permission (<tt>-1</tt> to use the
   *        default)
   * @param grantsAndDenials
   *        the set of {@link GrantAndDenial}s
   */
  protected Permission( Integer precedence, Collection<GrantAndDenial> grantsAndDenials )
  {
    this.precedence = precedence;

    Set<GrantAndDenial> tmpGrantsAndDenials = new HashSet<GrantAndDenial>();
    Set<GrantAndDenial> tmpGrants = new HashSet<GrantAndDenial>();
    Set<GrantAndDenial> tmpDenials = new HashSet<GrantAndDenial>();

    for ( GrantAndDenial gad : grantsAndDenials )
    {
      if ( gad.isGrant() )
      {
        tmpGrants.add( gad );
      }
      else
      {
```

```java
        tmpDenials.add( gad );
      }

      tmpGrantsAndDenials.add( gad );
    }

    this.grants = Collections.unmodifiableSet( tmpGrants );
    this.denials = Collections.unmodifiableSet( tmpDenials );
    this.grantsAndDenials = Collections.unmodifiableSet( tmpGrantsAndDenials );
}


/**
 * Gets the precedence of this permission.
 *
 * @return the precedence
 */
public Integer getPrecedence()
{
    return precedence;
}


/**
 * Gets the set of {@link GrantAndDenial}s.
 *
 * @return the grants and denials
 */
public Set<GrantAndDenial> getGrantsAndDenials()
{
    return grantsAndDenials;
}


/**
 * Gets the set of grants only.
 *
 * @return the grants
 */
public Set<GrantAndDenial> getGrants()
{
    return grants;
}


/**
 * Gets the set of denials only.
 *
```

```
 * @return the denials
 */
public Set<GrantAndDenial> getDenials()
{
    return denials;
}
}
```

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```
==============================================================
= For json processor files.                      =
= See: src/main/java/org/apache/activemq/utils/json        =
==============================================================
```

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2.92 artemis-wildfly-integration 1.0.2

2.93 asm 6.0

2.94 authorization-spi 5.0.2.Final

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*/

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/**

* <p>

* Marker interface for permission objects.

* </p>

```
*
* @author <a href="mailto:sguilhen@redhat.com">Stefan Guilhen</a>
*/
public interface Permission
{

}
```

2.95 azure-keyvault-core 0.8.0

2.96 azure-storage 6.1.0

2.97 bcmail-jdk15on 1.56

2.98 bcpkix-jdk15on 1.56
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2.102 byte-buddy 1.8.12

2.103 caffeine 2.6.2

2.104 catalina 6.0.41
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2.106 cdi-api-bridge 1.0.1.Final

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2.165 drools-compiler 6.5.0.Final

2.166 drools-core 6.5.0.Final

2.167 dtd-parser 1.2

2.168 ecj 4.4.2

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2.169 ehcache 2.8.5

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 */
package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.CacheConfiguration;
import net.sf.ehcache.store.compound.ReadWriteCopyStrategy;

/**
 * Copies elements, either on read, write or both before using the underlying store to actually store things
 * When copying both ways, the store might not see the same types being stored
 * @param <T> the store type it wraps
 *
 * @author Alex Snaps
 */
public final class CopyingCacheStore<T extends Store> extends AbstractCopyingCacheStore<T> {

  /**
   * Creates a copying instance of store, that wraps the actual storage
   *
   * @param store            the real store
   * @param copyOnRead       whether to copy on reads
   * @param copyOnWrite      whether to copy on writes
   * @param copyStrategyInstance the copy strategy to use on every copy operation
   * @param loader           classloader of the containing cache
```

```
     */
    public CopyingCacheStore(T store, boolean copyOnRead, boolean copyOnWrite,
ReadWriteCopyStrategy<Element> copyStrategyInstance, ClassLoader loader) {
        super(store, copyOnRead, copyOnWrite, copyStrategyInstance, loader);
    }



    /**
     * Wraps the Store instance passed in, should any copy occur
     * @param cacheStore the store
     * @param cacheConfiguration the cache config for that store
     * @return the wrapped Store if copying is required, or the Store instance passed in
     */
    public static Store wrapIfCopy(final Store cacheStore, final CacheConfiguration cacheConfiguration) {
        if (requiresCopy(cacheConfiguration)) {
            return wrap(cacheStore, cacheConfiguration);
        }
        return cacheStore;
    }

    /**
     * Wraps (always) with the proper configured CopyingCacheStore
     * @param cacheStore the store to wrap
     * @param cacheConfiguration the cache config backed by this store
     * @param <T> the Store type
     * @return the wrapped store
     */
    private static <T extends Store> CopyingCacheStore<T> wrap(final T cacheStore, final CacheConfiguration
cacheConfiguration) {
        final ReadWriteCopyStrategy<Element> copyStrategyInstance =
cacheConfiguration.getCopyStrategyConfiguration()
            .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
        return new CopyingCacheStore<T>(cacheStore, cacheConfiguration.isCopyOnRead(),
cacheConfiguration.isCopyOnWrite(), copyStrategyInstance, cacheConfiguration.getClassLoader());
    }

    /**
     * Checks whether configuration enables copying
     *
     * @param cacheConfiguration the cache config
     * @return true is copying is required, otherwise false
     */
    static boolean requiresCopy(final CacheConfiguration cacheConfiguration) {
        return cacheConfiguration.isCopyOnRead() || cacheConfiguration.isCopyOnWrite();
    }

    private static boolean isCopyOnReadAndCopyOnWrite(final CacheConfiguration cacheConfiguration) {
        return cacheConfiguration.isCopyOnRead() && cacheConfiguration.isCopyOnWrite();
```

```
        }

    /**
     * Wraps the given {@link net.sf.ehcache.store.ElementValueComparator} if the configuration requires copy on
read
     *
     * @param comparator the comparator to wrap
     * @param cacheConfiguration the cache configuration
     * @return the comparator passed if no copy needed, a wrapped comparator otherwise
     */
    public static ElementValueComparator wrapIfCopy(final ElementValueComparator comparator, final
CacheConfiguration cacheConfiguration) {
        if (isCopyOnReadAndCopyOnWrite(cacheConfiguration)) {
            final ReadWriteCopyStrategy<Element> copyStrategyInstance =
cacheConfiguration.getCopyStrategyConfiguration()
                .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
            CopyStrategyHandler copyStrategyHandler = new
CopyStrategyHandler(cacheConfiguration.isCopyOnRead(),
                cacheConfiguration.isCopyOnWrite(),
                copyStrategyInstance, cacheConfiguration.getClassLoader());
            return new CopyingElementValueComparator(comparator, copyStrategyHandler);
        }
        return comparator;
    }

    /**
     * An {@link net.sf.ehcache.store.ElementValueComparator} which handles copy on read
     */
    private static class CopyingElementValueComparator implements ElementValueComparator {

        private final ElementValueComparator delegate;
        private final CopyStrategyHandler copyStrategyHandler;

        public CopyingElementValueComparator(ElementValueComparator delegate, CopyStrategyHandler
copyStrategyHandler) {
            this.delegate = delegate;
            this.copyStrategyHandler = copyStrategyHandler;
        }

        @Override
        public boolean equals(Element e1, Element e2) {
            return delegate.equals(copyStrategyHandler.copyElementForReadIfNeeded(e1),
copyStrategyHandler.copyElementForReadIfNeeded(e2));
        }
    }
}
/**
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```

```
package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.Searchable;

import java.util.Iterator;

/**
 * A {@link BruteForceSource} that wraps another one and deals with copy for read of {@link Element}s.
 *
 * @author ljacomet
 */
class CopyingBruteForceSource implements BruteForceSource {

  private final BruteForceSource delegate;
  private final CopyStrategyHandler copyStrategyHandler;

  /**
   * Construct this CopyingBruteForceSource with the given delegate and the {@link CopyStrategyHandler} to use.
   *
   * @param delegate the delegate BruteForceSource
   * @param copyStrategyHandler the copy strategy handler
   */
  CopyingBruteForceSource(BruteForceSource delegate, CopyStrategyHandler copyStrategyHandler) {
    this.delegate = delegate;
    this.copyStrategyHandler = copyStrategyHandler;
  }

  @Override
  public Iterable<Element> elements() {
    return new CopyingIterable(delegate.elements(), copyStrategyHandler);
  }

  @Override
```

```java
public Searchable getSearchable() {
    return delegate.getSearchable();
}

@Override
public Element transformForIndexing(Element element) {
    return copyStrategyHandler.copyElementForReadIfNeeded(element);
}

/**
 * Wrapping Iterable holding the delegate Iterable and the {@link CopyStrategyHandler}
 */
private static class CopyingIterable implements Iterable<Element> {
    private final Iterable<Element> elements;
    private final CopyStrategyHandler copyStrategyHandler;

    public CopyingIterable(Iterable<Element> elements, CopyStrategyHandler copyStrategyHandler) {
        this.elements = elements;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public Iterator<Element> iterator() {
        return new CopyingIterator(elements.iterator());
    }

    /**
     * Wrapping Iterator responsible of doing the copy on read
     */
    private class CopyingIterator implements Iterator<Element> {
        private final Iterator<Element> delegate;

        public CopyingIterator(Iterator<Element> delegate) {
            this.delegate = delegate;
        }

        @Override
        public boolean hasNext() {
            return delegate.hasNext();
        }

        @Override
        public Element next() {
            return copyStrategyHandler.copyElementForReadIfNeeded(delegate.next());
        }

        @Override
        public void remove() {
```

```
        delegate.remove();
      }
    }
  }
}
```
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2.171 FindBugs-jsr305 3.0.0

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AppleJavaExtensions
v 1.2

 http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html

This is a pluggable jar of stub classes representing the new Apple
eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these
stubs is to allow for compilation of eAWT- or eIO-referencing code on
platforms other than Mac OS X. These stubs are not intended for the
runtime classpath on non-Mac platforms. Please see the OSXAdapter
sample for how to write cross-platform code that uses eAWT.

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On 13 Aug 2004, at 12:33 AM, mdrance@apple.com wrote:

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AppleJavaExtensions
v 1.2

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X.
The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than
Mac OS X. The jar file is enclosed in a zip archive for easy expansion on other platforms.

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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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distribute.

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Version 2, June 1991

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2.183 hibernate-core 5.1.15.Final

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We

concluded that weaker conditions might promote sharing better.

 However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

 Note that it is possible for a library to be covered by the ordinary
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 "Source code" for a work means the preferred form of the work for
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all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
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.
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  d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

  (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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 This option is useful when you wish to copy part of the code of
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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 5. A program that contains no derivative of any portion of the
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therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
.
 6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
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2.233 jackson-coreutils 1.0

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2.234 jackson-databind 2.8.11.1

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2.236 jackson-datatype-jdk8 2.9.5

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2.240 jackson-module-jaxb-annotations 2.8.11

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2.241 jackson-module-parameter-names 2.9.6

2.242 jacorb 2.3.2.jbossorg-4

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 Ty Coon, President of Vice

That's all there is to it!

2.250 java-support 7.3.0

2.251 java-support 7.1.1

2.252 JavaBeans Activation Framework (JAF) 1.1

2.252.1 Available under license :

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Version: 1.0

Status: Final Release

Specification Lead: Oracle America, Inc. ("Specification Lead")

Release: May 2013

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2.268 JAX-RS provider for JSON content type 1.9.13

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2.274 jaxb-runtime 2.3.0

2.275 jaxb-xjc 2.3.0

2.276 jaxen 1.1.6

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2.326 jboss-jacc-api_1.4_spec 1.0.2.Final

2.327 jboss-jaspi-api_1.0_spec 1.0.1.Final

2.328 jboss-jaspi-api_1.1_spec 1.0.2.Final

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2.331 jboss-jaxb-intros 1.0.2.GA

2.332 jboss-jaxrpc-api_1.1_spec 1.0.2.Final

2.333 jboss-jaxrs-api_2.0_spec 1.0.1.Final

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2.334 jboss-jaxrs-api_2.1_spec 1.0.0.Final

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2.335 jboss-jaxws-api_2.2_spec 2.0.5.Final

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Version: 2.0

Status: Final Release

Specification Lead: Oracle America, Inc. ("Specification Lead")

Release: 20 March 2013

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2.339 jboss-jsf-api_2.3_spec 2.3.5.SP1

2.340 jboss-jsp-api_2.2_spec 1.0.1.Final

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2.358 jboss-negotiation-spnego 3.0.4.Final

2.359 jboss-remote-naming 1.0.5.Final

2.360 jboss-remoting 5.0.7.Final

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2.362 jboss-rmi-api_1.0_spec 1.0.6.Final
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2.372 jboss-transaction-spi 7.6.0.Final

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2.384 jbossws-cxf-factories 5.2.1.Final

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2.386 jbossws-cxf-resources 5.2.1.Final

2.387 jbossws-cxf-server 5.2.1.Final

2.388 jbossws-cxf-transports-udp 5.2.1.Final

2.389 jbossws-cxf-transports-undertow 5.2.1.Final

2.390 jbossws-spi 3.2.1.Final

2.391 jbossxacml 2.0.8.Final

2.392 jbossxts 5.8.1.Final

2.393 jcl-over-slf4j 1.6.2

2.394 JCommander 1.48

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2.395 jdeparser 2.0.2.Final

2.396 JDOM 1.1.3

2.397 jettison 1.3.8

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2.415 json-patch 1.3

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2.417 JSR-181 1.0 :Maintenance Release 1

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2.419 jul-to-slf4j 1.7.25
2.419.1 Available under license :
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2.420 juli 6.0.41
2.420.1 Available under license :
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http://www.apache.org/licenses/LICENSE-2.0.txt

2.421 kcinit 4.4.0.Final

2.422 keycloak-adapter-core 4.4.0.Final

2.423 keycloak-adapter-feature-pack 4.4.0.Final

2.423.1 Available under license :

org.keycloak,keycloak-adapter-core,4.4.0.Final,Apache Software License 2.0.txt

```xml
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 <dependencies>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-adapter-core</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-adapter-spi</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-authz-client</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-common</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
```

```xml
      <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
      </license>
    </licenses>
  </dependency>
  <dependency>
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    <artifactId>keycloak-core</artifactId>
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      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.keycloak</groupId>
    <artifactId>keycloak-servlet-oauth-client</artifactId>
    <version>4.4.0.Final</version>
    <licenses>
      <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.keycloak</groupId>
    <artifactId>keycloak-undertow-adapter</artifactId>
    <version>4.4.0.Final</version>
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      <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
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```

```xml
        </licenses>
      </dependency>
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        <artifactId>keycloak-undertow-adapter-spi</artifactId>
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          </license>
        </licenses>
      </dependency>
      <dependency>
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        <artifactId>keycloak-wildfly-adapter</artifactId>
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          <license>
            <name>Apache Software License 2.0</name>
            <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
          </license>
        </licenses>
      </dependency>
      <dependency>
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        <artifactId>keycloak-wildfly-elytron-oidc-adapter</artifactId>
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            <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
          </license>
        </licenses>
      </dependency>
      <dependency>
        <groupId>org.keycloak</groupId>
        <artifactId>keycloak-wildfly-subsystem</artifactId>
        <version>4.4.0.Final</version>
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          <license>
            <name>Apache Software License 2.0</name>
            <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
          </license>
        </licenses>
      </dependency>
    </dependencies>
  </licenseSummary>
```

```html
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=utf-8">
<meta http-equiv="Content-Type" content="text/html;charset=utf-8">
<link rel="stylesheet" type="text/css" href="licenses.css">
</head>
<body>
<h2>Keycloak 4.4.0.Final</h2>
<p>The following material has been provided for informational purposes only, and should not be relied upon or construed as a legal opinion or legal advice.</p>
<table>
<tr>
<th>Package Group</th><th>Package Artifact</th><th>Package Version</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-adapter-core</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License 2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-adapter-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-adapter-spi</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License 2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License 2.0</a>
</li>
</ul>
</td>
```

```
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-authz-client</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-authz-client,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-common</td><td>4.4.0.Final</td><td>
<ul>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-common,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License
2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-core</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License
2.0</a>
```

```
</li>
</ul>
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</tr>
<tr>
<td>org.keycloak</td><td>keycloak-jboss-adapter-core</td><td>4.4.0.Final</td><td>
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2.0</a>
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</ul>
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<ul>
<li>
<a href="org.keycloak,keycloak-jboss-adapter-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-servlet-oauth-client</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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</td><td>
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<a href="org.keycloak,keycloak-servlet-oauth-client,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
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<td>org.keycloak</td><td>keycloak-undertow-adapter</td><td>4.4.0.Final</td><td>
<ul>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
```

```
<li>
<a href="org.keycloak,keycloak-undertow-adapter,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-undertow-adapter-spi</td><td>4.4.0.Final</td><td>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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Software License 2.0</a>
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<tr>
<td>org.keycloak</td><td>keycloak-wildfly-adapter</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-wildfly-adapter,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
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</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-wildfly-elytron-oidc-adapter</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
```

```html
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-wildfly-elytron-oidc-adapter,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License 2.0</a>
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<tr>
<td>org.keycloak</td><td>keycloak-wildfly-subsystem</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License 2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-wildfly-subsystem,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License 2.0</a>
</li>
</ul>
</td>
</tr>
</table>
<table>
<tr>
<th>Description</th><th>Locations</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
</table>
</body>
</html>
body {
  font-family: monospace;
}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}
```

```css
th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
  list-style: none;
  padding: 0;
  margin: 0;
}

li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
  margin: 0;
}

li.archive p:after {
  content: ":";
}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
}
li.directory:before {
  content: "d ";
}
```

```xml
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
        xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
```

```
<xsl:param name="productname"/>
<xsl:param name="version"/>
<xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
<xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

<xsl:template match="/">
  <html>
    <head>
      <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
      <link rel="stylesheet" type="text/css" href="licenses.css"/>
    </head>
    <body>
      <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
      <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
      <table>
        <tr>
          <th>Package Group</th>
          <th>Package Artifact</th>
          <th>Package Version</th>
          <th>Remote Licenses</th>
          <th>Local Licenses</th>
        </tr>
        <xsl:for-each select="licenseSummary/dependencies/dependency">
          <xsl:sort select="concat(groupId, '.', artifactId)"/>
          <tr>
            <td><xsl:value-of select="groupId"/></td>
            <td><xsl:value-of select="artifactId"/></td>
            <td><xsl:value-of select="version"/></td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                  <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                  <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
                  <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
          </tr>
        </xsl:for-each>
      </table>
```

```xml
<table>
  <tr>
    <th>Description</th>
    <th>Locations</th>
    <th>Remote Licenses</th>
    <th>Local Licenses</th>
  </tr>
  <xsl:for-each select="licenseSummary/others/other">
    <xsl:sort select="description"/>
    <tr>
      <td><xsl:value-of select="description"/></td>
      <td>
        <ul>
          <xsl:for-each select="locations/*[self::file or self::directory]">
            <li class="{local-name()}"><xsl:value-of select="."/></li>
          </xsl:for-each>
          <xsl:for-each select="locations/archive">
            <li class="archive">
              <p><xsl:value-of select="file"/></p>
              <ul>
                <xsl:for-each select="innerpath">
                  <li><xsl:value-of select="."/></li>
                </xsl:for-each>
              </ul>
            </li>
          </xsl:for-each>
        </ul>
      </td>
      <td>
        <ul>
          <xsl:for-each select="licenses/license">
            <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
          </xsl:for-each>
        </ul>
      </td>
      <td>
        <ul>
          <xsl:for-each select="licenses/license">
            <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
            <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
          </xsl:for-each>
        </ul>
      </td>
    </tr>
  </xsl:for-each>
</table>
</body>
</html>
```

```
    </xsl:template>
</xsl:stylesheet>
```

2.424 keycloak-adapter-spi 4.4.0.Final

2.425 keycloak-admin-cli 4.4.0.Final

2.426 keycloak-admin-client 4.4.0.Final

2.427 keycloak-as7-adapter 4.4.0.Final

2.428 keycloak-as7-adapter-dist 4.4.0.Final

2.428.1 Available under license :

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OTHERRPURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE^Permission is hereby granted, free of charge, to any person obtaining a copy of this software STHE
SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,dThe
above copyright notice and this permission notice shall be included in all copies or substantialband associated
documentation files (the "Software"), to deal in the Software without restriction, eand/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,appendfincluding without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense,
java/io/PrintStreamjava/lang/Objectjava/lang/StringBuilderjava/lang/SystemlicenseText
lineSeparatormainorg/bouncycastle/LICENSEorg/bouncycastle/util/Stringsoutportions of the
Software.println$subject to the following conditions:toString
!"&'Ljava/io/PrintStream;Ljava/lang/String;()Ljava/lang/String;(Ljava/lang/String;)V([Ljava/lang/String;)V-
(Ljava/lang/String;)Ljava/lang/StringBuilder;(3#4$5,5*68 09 1:
->
.;
/;
/=

/?
2<Code!1. #4H*C %7H
@ABH/YDFGFGFFGF
FGFFGFFGFFGFGF FGF
FGFGFFGFFGFFGFFGFFGFFEA
3
g
h i j k lm
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h
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h

resourceIdLjava/lang/String;RuntimeVisibleAnnotations/Lcom/fasterxml/jackson/annotation/JsonProperty;valuersid
resourceNamersnamescopesLjava/util/Set;
Signature#Ljava/util/Set<Ljava/lang/String;>;.Lcom/fasterxml/jackson/annotation/JsonInclude;IncludeInnerClasses
6Lcom/fasterxml/jackson/annotation/JsonInclude$Include;
NON_EMPTYclaimsLjava/util/Map;FLjava/util/Map<Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;>;<init>
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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.
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For more information, including possible other licensing options, contact
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2.429 keycloak-as7-adapter-spi 4.4.0.Final

2.430 keycloak-as7-modules 4.4.0.Final

2.430.1 Available under license :

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<td>org.keycloak</td><td>keycloak-servlet-oauth-client</td><td>4.4.0.Final</td><td>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
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<a href="org.keycloak,keycloak-tomcat-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
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<td>org.keycloak</td><td>keycloak-tomcat-core-adapter</td><td>4.4.0.Final</td><td>
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Software License 2.0</a>
</li>
</ul>
</td>
</tr>
```

```
</table>
<table>
<tr>
<th>Description</th><th>Locations</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
</table>
</body>
</html>
body {
  font-family: monospace;
}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
  list-style: none;
  padding: 0;
  margin: 0;
}

li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
```

```
    margin: 0;
}

li.archive p:after {
  content: ":";
}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
}
li.directory:before {
  content: "d ";
}
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
            xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="productname"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

  <xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
        <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <table>
          <tr>
            <th>Package Group</th>
            <th>Package Artifact</th>
            <th>Package Version</th>
            <th>Remote Licenses</th>
            <th>Local Licenses</th>
          </tr>
          <xsl:for-each select="licenseSummary/dependencies/dependency">
          <xsl:sort select="concat(groupId, '.', artifactId)"/>
          <tr>
            <td><xsl:value-of select="groupId"/></td>
```

```
                     <td><xsl:value-of select="artifactId"/></td>
                     <td><xsl:value-of select="version"/></td>
                     <td>
                       <ul>
                         <xsl:for-each select="licenses/license">
                           <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                         </xsl:for-each>
                       </ul>
                     </td>
                     <td>
                       <ul>
                         <xsl:for-each select="licenses/license">
                           <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
                           <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                         </xsl:for-each>
                       </ul>
                     </td>
                   </tr>
                 </xsl:for-each>
               </table>
               <table>
                 <tr>
                   <th>Description</th>
                   <th>Locations</th>
                   <th>Remote Licenses</th>
                   <th>Local Licenses</th>
                 </tr>
                 <xsl:for-each select="licenseSummary/others/other">
                   <xsl:sort select="description"/>
                   <tr>
                     <td><xsl:value-of select="description"/></td>
                     <td>
                       <ul>
                         <xsl:for-each select="locations/*[self::file or self::directory]">
                           <li class="{local-name()}"><xsl:value-of select="."/></li>
                         </xsl:for-each>
                         <xsl:for-each select="locations/archive">
                           <li class="archive">
                             <p><xsl:value-of select="file"/></p>
                             <ul>
                               <xsl:for-each select="innerpath">
                                 <li><xsl:value-of select="."/></li>
                               </xsl:for-each>
                             </ul>
                           </li>
                         </xsl:for-each>
                       </ul>
```

```
            </td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                  <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                  <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
                  <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
          </tr>
        </xsl:for-each>
      </table>
    </body>
  </html>
  </xsl:template>
</xsl:stylesheet>
```

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

2.431 keycloak-as7-subsystem 4.4.0.Final

2.432 keycloak-authz-client 4.4.0.Final

2.433 keycloak-authz-policy-common 4.4.0.Final

2.433.1 Available under license :

```
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
package org.keycloak.authorization.policy.provider.permission;

import java.util.HashMap;
import java.util.Map;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.representations.idm.authorization.ResourcePermissionRepresentation;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
```

```java
*/
public class ResourcePolicyProviderFactory implements
PolicyProviderFactory<ResourcePermissionRepresentation> {

  private ResourcePolicyProvider provider = new ResourcePolicyProvider();

  @Override
  public String getName() {
    return "Resource-Based";
  }

  @Override
  public String getGroup() {
    return "Permission";
  }

  @Override
  public PolicyProvider create(AuthorizationProvider authorization) {
    return provider;
  }

  @Override
  public Class<ResourcePermissionRepresentation> getRepresentationType() {
    return ResourcePermissionRepresentation.class;
  }

  @Override
  public ResourcePermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
    ResourcePermissionRepresentation representation = new ResourcePermissionRepresentation();
    representation.setResourceType(policy.getConfig().get("defaultResourceType"));
    return representation;
  }

  @Override
  public PolicyProvider create(KeycloakSession session) {
    return null;
  }

  @Override
  public void onCreate(Policy policy, ResourcePermissionRepresentation representation, AuthorizationProvider
authorization) {
    updateResourceType(policy, representation);
  }

  @Override
  public void onUpdate(Policy policy, ResourcePermissionRepresentation representation, AuthorizationProvider
authorization) {
    updateResourceType(policy, representation);
```

```java
        }

        private void updateResourceType(Policy policy, ResourcePermissionRepresentation representation) {
            if (representation != null) {
                //TODO: remove this check once we migrate to new API
                if (ResourcePermissionRepresentation.class.equals(representation.getClass())) {
                    ResourcePermissionRepresentation resourcePermission =
ResourcePermissionRepresentation.class.cast(representation);
                    Map<String, String> config = new HashMap(policy.getConfig());

                    config.compute("defaultResourceType", (key, value) -> {
                        String resourceType = resourcePermission.getResourceType();
                        return resourceType != null ? resourcePermission.getResourceType() : null;
                    });

                    policy.setConfig(config);

                }
            }
        }

        @Override
        public void onRemove(Policy policy, AuthorizationProvider authorization) {

        }

        @Override
        public void init(Config.Scope config) {

        }

        @Override
        public void postInit(KeycloakSessionFactory factory) {

        }

        @Override
        public void close() {

        }

        @Override
        public String getId() {
            return "resource";
        }
    }
    /*
    * Copyright 2018 Red Hat, Inc. and/or its affiliates
```

```java
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;

import java.util.HashMap;
import java.util.Map;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class ResourcePolicyProvider extends AbstractPermissionProvider {

  @Override
  public void evaluate(Evaluation evaluation) {
    DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
    Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
    Policy policy = defaultEvaluation.getParentPolicy();
    Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(policy, p -> new HashMap<>());
    ResourcePermission permission = evaluation.getPermission();
    Decision.Effect effect = decisions.get(permission.getResource());

    if (effect != null) {
      defaultEvaluation.setEffect(effect);
      return;
    }

    super.evaluate(evaluation);

    decisions.put(permission.getResource(), defaultEvaluation.getEffect());
  }
```

```
}
/*
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* See the License for the specific language governing permissions and
* limitations under the License.
*/
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.representations.idm.authorization.ScopePermissionRepresentation;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class ScopePolicyProviderFactory implements PolicyProviderFactory<ScopePermissionRepresentation> {

    private ScopePolicyProvider provider = new ScopePolicyProvider();

    @Override
    public String getName() {
        return "Scope-Based";
    }

    @Override
    public String getGroup() {
        return "Permission";
    }

    @Override
    public PolicyProvider create(AuthorizationProvider authorization) {
        return provider;
```

```java
  }

  @Override
  public PolicyProvider create(KeycloakSession session) {
    return null;
  }

  @Override
  public Class<ScopePermissionRepresentation> getRepresentationType() {
    return ScopePermissionRepresentation.class;
  }

  @Override
  public ScopePermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
    return new ScopePermissionRepresentation();
  }

  @Override
  public void init(Config.Scope config) {

  }

  @Override
  public void postInit(KeycloakSessionFactory factory) {

  }

  @Override
  public void close() {

  }

  @Override
  public String getId() {
    return "scope";
  }
}
```

```
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;

import java.util.HashMap;
import java.util.Map;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class ScopePolicyProvider extends AbstractPermissionProvider {

  @Override
  public void evaluate(Evaluation evaluation) {
      DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
      Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
      Policy policy = defaultEvaluation.getParentPolicy();
      Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(policy, p -> new HashMap<>());
      ResourcePermission permission = evaluation.getPermission();

      Decision.Effect effect = decisions.get(permission);

      if (effect != null) {
          defaultEvaluation.setEffect(effect);
          return;
      }

      Decision.Effect decision = defaultEvaluation.getEffect();

      if (decision == null) {
          super.evaluate(evaluation);

          decisions.put(permission, defaultEvaluation.getEffect());
      }
  }
}
/*
 * Copyright 2018 Red Hat, Inc. and/or its affiliates
```

```
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;
import org.keycloak.authorization.policy.provider.PolicyProvider;

import java.util.HashMap;
import java.util.Map;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public abstract class AbstractPermissionProvider implements PolicyProvider {

  @Override
  public void evaluate(Evaluation evaluation) {
      AuthorizationProvider authorization = evaluation.getAuthorizationProvider();
      DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
      Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
      Policy policy = evaluation.getPolicy();
      ResourcePermission permission = evaluation.getPermission();

      policy.getAssociatedPolicies().forEach(associatedPolicy -> {
          Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(associatedPolicy, p -> new
HashMap<>());
          Decision.Effect effect = decisions.get(permission);

          defaultEvaluation.setPolicy(associatedPolicy);

          if (effect == null) {
```

```
            PolicyProvider policyProvider = authorization.getProvider(associatedPolicy.getType());
            policyProvider.evaluate(defaultEvaluation);
            evaluation.denyIfNoEffect();
            decisions.put(permission, defaultEvaluation.getEffect());
        } else {
            defaultEvaluation.setEffect(effect);
        }
    });
  }

  @Override
  public void close() {

  }
}
/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
package org.keycloak.authorization.policy.provider.permission;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class UMAPolicyProvider extends AbstractPermissionProvider {

}
/*
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```

```
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
package org.keycloak.authorization.policy.provider.permission;

import java.util.HashSet;
import java.util.Set;
import java.util.stream.Collectors;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
import org.keycloak.authorization.store.PolicyStore;
import org.keycloak.models.ClientModel;
import org.keycloak.models.GroupModel;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.models.RealmModel;
import org.keycloak.models.RoleModel;
import org.keycloak.models.utils.KeycloakModelUtils;
import org.keycloak.models.utils.ModelToRepresentation;
import org.keycloak.models.utils.RepresentationToModel;
import org.keycloak.representations.idm.authorization.AbstractPolicyRepresentation;
import org.keycloak.representations.idm.authorization.ClientPolicyRepresentation;
import org.keycloak.representations.idm.authorization.GroupPolicyRepresentation;
import org.keycloak.representations.idm.authorization.GroupPolicyRepresentation.GroupDefinition;
import org.keycloak.representations.idm.authorization.JSPolicyRepresentation;
import org.keycloak.representations.idm.authorization.PolicyRepresentation;
import org.keycloak.representations.idm.authorization.RolePolicyRepresentation;
import org.keycloak.representations.idm.authorization.RolePolicyRepresentation.RoleDefinition;
import org.keycloak.representations.idm.authorization.UmaPermissionRepresentation;
import org.keycloak.representations.idm.authorization.UserPolicyRepresentation;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class UMAPolicyProviderFactory implements PolicyProviderFactory<UmaPermissionRepresentation> {

    private UMAPolicyProvider provider = new UMAPolicyProvider();

    @Override
```

```java
public String getName() {
    return "UMA";
}

@Override
public String getGroup() {
    return "Others";
}

@Override
public boolean isInternal() {
    return true;
}

@Override
public PolicyProvider create(AuthorizationProvider authorization) {
    return provider;
}

@Override
public PolicyProvider create(KeycloakSession session) {
    return provider;
}

@Override
public void onCreate(Policy policy, UmaPermissionRepresentation representation, AuthorizationProvider
authorization) {
    policy.setOwner(representation.getOwner());
    PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();
    Set<String> roles = representation.getRoles();

    if (roles != null) {
        for (String role : roles) {
            createRolePolicy(policy, policyStore, role, representation.getOwner());
        }
    }

    Set<String> groups = representation.getGroups();

    if (groups != null) {
        for (String group : groups) {
            createGroupPolicy(policy, policyStore, group, representation.getOwner());
        }
    }

    Set<String> clients = representation.getClients();

    if (clients != null) {
```

```
        for (String client : clients) {
            createClientPolicy(policy, policyStore, client, representation.getOwner());
        }
    }

    Set<String> users = representation.getUsers();

    if (users != null) {
        for (String user : users) {
            createUserPolicy(policy, policyStore, user, representation.getOwner());
        }
    }

    String condition = representation.getCondition();

    if (condition != null) {
        createJSPolicy(policy, policyStore, condition, representation.getOwner());
    }
}

@Override
public void onUpdate(Policy policy, UmaPermissionRepresentation representation, AuthorizationProvider
authorization) {
    PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();
    Set<Policy> associatedPolicies = policy.getAssociatedPolicies();

    for (Policy associatedPolicy : associatedPolicies) {
        AbstractPolicyRepresentation associatedRep = ModelToRepresentation.toRepresentation(associatedPolicy,
authorization, false, false);

        if ("role".equals(associatedRep.getType())) {
            RolePolicyRepresentation rep = RolePolicyRepresentation.class.cast(associatedRep);

            rep.setRoles(new HashSet<>());

            Set<String> updatedRoles = representation.getRoles();

            if (updatedRoles != null) {
                for (String role : updatedRoles) {
                    rep.addRole(role);
                }
            }

            if (rep.getRoles().isEmpty()) {
                policyStore.delete(associatedPolicy.getId());
            } else {
                RepresentationToModel.toModel(rep, authorization, associatedPolicy);
            }
```

```java
    } else if ("js".equals(associatedRep.getType())) {
        JSPolicyRepresentation rep = JSPolicyRepresentation.class.cast(associatedRep);

        if (representation.getCondition() != null) {
            rep.setCode(representation.getCondition());
            RepresentationToModel.toModel(rep, authorization, associatedPolicy);
        } else {
            policyStore.delete(associatedPolicy.getId());
        }
    } else if ("group".equals(associatedRep.getType())) {
        GroupPolicyRepresentation rep = GroupPolicyRepresentation.class.cast(associatedRep);

        rep.setGroups(new HashSet<>());

        Set<String> updatedGroups = representation.getGroups();

        if (updatedGroups != null) {
            for (String group : updatedGroups) {
                rep.addGroupPath(group);
            }
        }

        if (rep.getGroups().isEmpty()) {
            policyStore.delete(associatedPolicy.getId());
        } else {
            RepresentationToModel.toModel(rep, authorization, associatedPolicy);
        }
    } else if ("client".equals(associatedRep.getType())) {
        ClientPolicyRepresentation rep = ClientPolicyRepresentation.class.cast(associatedRep);

        rep.setClients(new HashSet<>());

        Set<String> updatedClients = representation.getClients();

        if (updatedClients != null) {
            for (String client : updatedClients) {
                rep.addClient(client);
            }
        }

        if (rep.getClients().isEmpty()) {
            policyStore.delete(associatedPolicy.getId());
        } else {
            RepresentationToModel.toModel(rep, authorization, associatedPolicy);
        }
    } else if ("user".equals(associatedRep.getType())) {
        UserPolicyRepresentation rep = UserPolicyRepresentation.class.cast(associatedRep);
```

```
      rep.setUsers(new HashSet<>());

      Set<String> updatedUsers = representation.getUsers();

      if (updatedUsers != null) {
        for (String user : updatedUsers) {
          rep.addUser(user);
        }
      }

      if (rep.getUsers().isEmpty()) {
        policyStore.delete(associatedPolicy.getId());
      } else {
        RepresentationToModel.toModel(rep, authorization, associatedPolicy);
      }
    }
  }

  Set<String> updatedRoles = representation.getRoles();

  if (updatedRoles != null) {
    boolean createPolicy = true;

    for (Policy associatedPolicy : associatedPolicies) {
      if ("role".equals(associatedPolicy.getType())) {
        createPolicy = false;
      }
    }

    if (createPolicy) {
      for (String role : updatedRoles) {
        createRolePolicy(policy, policyStore, role, policy.getOwner());
      }
    }
  }

  Set<String> updatedGroups = representation.getGroups();

  if (updatedGroups != null) {
    boolean createPolicy = true;

    for (Policy associatedPolicy : associatedPolicies) {
      if ("group".equals(associatedPolicy.getType())) {
        createPolicy = false;
      }
    }

    if (createPolicy) {
```

```
        for (String group : updatedGroups) {
          createGroupPolicy(policy, policyStore, group, policy.getOwner());
        }
      }
    }

    Set<String> updatedClients = representation.getClients();

    if (updatedClients != null) {
      boolean createPolicy = true;

      for (Policy associatedPolicy : associatedPolicies) {
        if ("client".equals(associatedPolicy.getType())) {
          createPolicy = false;
        }
      }

      if (createPolicy) {
        for (String client : updatedClients) {
          createClientPolicy(policy, policyStore, client, policy.getOwner());
        }
      }
    }

    Set<String> updatedUsers = representation.getUsers();

    if (updatedUsers != null) {
      boolean createPolicy = true;

      for (Policy associatedPolicy : associatedPolicies) {
        if ("user".equals(associatedPolicy.getType())) {
          createPolicy = false;
        }
      }

      if (createPolicy) {
        for (String user : updatedUsers) {
          createUserPolicy(policy, policyStore, user, policy.getOwner());
        }
      }
    }

    String condition = representation.getCondition();

    if (condition != null) {
      boolean createPolicy = true;

      for (Policy associatedPolicy : associatedPolicies) {
```

```java
            if ("js".equals(associatedPolicy.getType())) {
                createPolicy = false;
            }
        }

        if (createPolicy) {
            createJSPolicy(policy, policyStore, condition, policy.getOwner());
        }
    }
}

@Override
public void onImport(Policy policy, PolicyRepresentation representation, AuthorizationProvider authorization) {
}

@Override
public UmaPermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
    UmaPermissionRepresentation representation = new UmaPermissionRepresentation();

    representation.setScopes(policy.getScopes().stream().map(Scope::getName).collect(Collectors.toSet()));
    representation.setOwner(policy.getOwner());

    for (Policy associatedPolicy : policy.getAssociatedPolicies()) {
        AbstractPolicyRepresentation associatedRep = ModelToRepresentation.toRepresentation(associatedPolicy,
authorization, false, false);
        RealmModel realm = authorization.getRealm();

        if ("role".equals(associatedRep.getType())) {
            RolePolicyRepresentation rep = RolePolicyRepresentation.class.cast(associatedRep);

            for (RoleDefinition definition : rep.getRoles()) {
                RoleModel role = realm.getRoleById(definition.getId());

                if (role.isClientRole()) {
representation.addClientRole(ClientModel.class.cast(role.getContainer()).getClientId(),role.getName());
} else {
                    representation.addRole(role.getName());
                }
            }
        } else if ("js".equals(associatedRep.getType())) {
            JSPolicyRepresentation rep = JSPolicyRepresentation.class.cast(associatedRep);
            representation.setCondition(rep.getCode());
        } else if ("group".equals(associatedRep.getType())) {
            GroupPolicyRepresentation rep = GroupPolicyRepresentation.class.cast(associatedRep);

            for (GroupDefinition definition : rep.getGroups()) {
representation.addGroup(ModelToRepresentation.buildGroupPath(realm.getGroupById(definition.getId())));
    }
```

```java
        } else if ("client".equals(associatedRep.getType())) {
            ClientPolicyRepresentation rep = ClientPolicyRepresentation.class.cast(associatedRep);

            for (String client : rep.getClients()) {
                representation.addClient(realm.getClientById(client).getClientId());
            }
        } else if ("user".equals(associatedPolicy.getType())) {
            UserPolicyRepresentation rep = UserPolicyRepresentation.class.cast(associatedRep);

            for (String user : rep.getUsers()) {
                representation.addUser(authorization.getKeycloakSession().users().getUserById(user,
realm).getUsername());
            }
        }
    }

    return representation;
}

@Override
public Class<UmaPermissionRepresentation> getRepresentationType() {
    return UmaPermissionRepresentation.class;
}

@Override
public void onRemove(Policy policy, AuthorizationProvider authorization) {
    PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();

    for (Policy associatedPolicy : policy.getAssociatedPolicies()) {
        policyStore.delete(associatedPolicy.getId());
    }
}

@Override
public void init(Config.Scope config) {

}

@Override
public void postInit(KeycloakSessionFactory factory) {

}

@Override
public void close() {

}
```

```java
@Override
public String getId() {
    return "uma";
}

private void createJSPolicy(Policy policy, PolicyStore policyStore, String condition, String owner) {
    JSPolicyRepresentation rep = new JSPolicyRepresentation();

    rep.setName(KeycloakModelUtils.generateId());
    rep.setCode(condition);

    Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

    associatedPolicy.setOwner(owner);

    policy.addAssociatedPolicy(associatedPolicy);
}

private void createClientPolicy(Policy policy, PolicyStore policyStore, String client, String owner) {
    ClientPolicyRepresentation rep = new ClientPolicyRepresentation();

    rep.setName(KeycloakModelUtils.generateId());
    rep.addClient(client);

    Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

    associatedPolicy.setOwner(owner);

    policy.addAssociatedPolicy(associatedPolicy);
}

private void createGroupPolicy(Policy policy, PolicyStore policyStore, String group, String owner) {
    GroupPolicyRepresentation rep = new GroupPolicyRepresentation();

    rep.setName(KeycloakModelUtils.generateId());
    rep.addGroupPath(group);

    Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

    associatedPolicy.setOwner(owner);

    policy.addAssociatedPolicy(associatedPolicy);
}

private void createRolePolicy(Policy policy, PolicyStore policyStore, String role, String owner) {
    RolePolicyRepresentation rep = new RolePolicyRepresentation();

    rep.setName(KeycloakModelUtils.generateId());
```

```
        rep.addRole(role, false);

        Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

        associatedPolicy.setOwner(owner);

        policy.addAssociatedPolicy(associatedPolicy);
    }

  private void createUserPolicy(Policy policy, PolicyStore policyStore, String user, String owner) {
        UserPolicyRepresentation rep = new UserPolicyRepresentation();

        rep.setName(KeycloakModelUtils.generateId());
        rep.addUser(user);

        Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

        associatedPolicy.setOwner(owner);

        policy.addAssociatedPolicy(associatedPolicy);
    }
}
```

2.434 keycloak-authz-policy-drools 4.4.0.Final

2.435 keycloak-client-cli-dist 4.4.0.Final

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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2.436 keycloak-client-registration-api 4.4.0.Final

2.437 keycloak-client-registration-cli 4.4.0.Final

2.438 keycloak-common 4.4.0.Final

2.439 keycloak-core 4.4.0.Final

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 */
package org.keycloak.representations.idm.authorization;

import java.util.HashSet;
import java.util.Map;
import java.util.Objects;
import java.util.Set;

import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
import com.fasterxml.jackson.annotation.JsonInclude;
import com.fasterxml.jackson.annotation.JsonProperty;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
@JsonIgnoreProperties(ignoreUnknown = true)
public class Permission {

  @JsonProperty("rsid")
  private String resourceId;

  @JsonProperty("rsname")
  private String resourceName;

  @JsonInclude(JsonInclude.Include.NON_EMPTY)
  private Set<String> scopes;

  @JsonInclude(JsonInclude.Include.NON_EMPTY)
  private final Map<String, Set<String>> claims;

  public Permission() {
    this(null, null, null, null);
  }

  public Permission(final String resourceId, final Set<String> scopes) {
    this(resourceId, null, scopes, null);
  }

  public Permission(final String resourceId, String resourceName, final Set<String> scopes, Map<String,
Set<String>> claims) {
    this.resourceId = resourceId;
    this.resourceName = resourceName;
    this.scopes = scopes;
    this.claims = claims;
```

```java
}

public void setResourceId(String resourceId) {
    this.resourceId = resourceId;
}

public String getResourceId() {
    if (resourceId == null || "".equals(resourceId.trim())) {
        return null;
    }
    return this.resourceId;
}

public void setResourceName(String resourceName) {
    this.resourceName = resourceName;
}

public String getResourceName() {
    return this.resourceName;
}

public Set<String> getScopes() {
    if (this.scopes == null) {
        this.scopes = new HashSet<>();
    }

    return this.scopes;
}

public Map<String, Set<String>> getClaims() {
    return claims;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || !getClass().isAssignableFrom(o.getClass())) return false;

    Permission that = (Permission) o;

    if (getResourceId() != null || getResourceName() != null) {
        if (!getResourceId().equals(that.resourceId)) {
            return false;
        }

        if (getScopes().isEmpty() && that.getScopes().isEmpty()) {
            return true;
        }
```

```java
    } else if (that.resourceId != null) {
        return false;
    }

    for (String scope : that.getScopes()) {
        if (getScopes().contains(scope)) {
            return true;
        }
    }

    return false;
}

@Override
public int hashCode() {
    return Objects.hash(resourceId);
}

@Override
public String toString() {
    StringBuilder builder = new StringBuilder();

    builder.append("Permission {").append("id=").append(resourceId).append(", name=").append(resourceName)
        .append(", scopes=").append(scopes).append("}");

    return builder.toString();
}

public void setScopes(Set<String> scopes) {
    this.scopes = scopes;
}
}
```

2.440 keycloak-dependencies-server-all 4.4.0.Final

2.441 keycloak-dependencies-server-min 4.4.0.Final

2.442 keycloak-eap6-adapter-dist 4.4.0.Final

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<td>org.keycloak</td><td>keycloak-as7-subsystem</td><td>4.4.0.Final</td><td>
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<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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<a href="org.keycloak,keycloak-as7-subsystem,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
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2.0</a>
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2.0</a>
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2.0</a>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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<ul>
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2.0</a>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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<ul>
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License 2.0</a>
</li>
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</tr>
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<td>org.keycloak</td><td>keycloak-servlet-oauth-client</td><td>4.4.0.Final</td><td>
<ul>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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<ul>
<li>
<a href="org.keycloak,keycloak-servlet-oauth-client,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
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</tr>
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<td>org.keycloak</td><td>keycloak-tomcat-adapter-spi</td><td>4.4.0.Final</td><td>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
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<ul>
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License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
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</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-tomcat-core-adapter,4.4.0.Final,Apache Software License 2.0.txt">Apache
Software License 2.0</a>
</li>
</ul>
</td>
</tr>
```

```html
</table>
<table>
<tr>
<th>Description</th><th>Locations</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
</table>
</body>
</html>
```

```css
body {
  font-family: monospace;
}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
  list-style: none;
  padding: 0;
  margin: 0;
}

li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
```

```
  margin: 0;
}

li.archive p:after {
  content: ":";
}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
}
li.directory:before {
  content: "d ";
}
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
          xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="productname"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

  <xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
        <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <table>
          <tr>
            <th>Package Group</th>
            <th>Package Artifact</th>
            <th>Package Version</th>
            <th>Remote Licenses</th>
            <th>Local Licenses</th>
          </tr>
          <xsl:for-each select="licenseSummary/dependencies/dependency">
          <xsl:sort select="concat(groupId, '.', artifactId)"/>
          <tr>
            <td><xsl:value-of select="groupId"/></td>
```

```
<td><xsl:value-of select="artifactId"/></td>
<td><xsl:value-of select="version"/></td>
<td>
  <ul>
    <xsl:for-each select="licenses/license">
      <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
    </xsl:for-each>
  </ul>
</td>
<td>
  <ul>
    <xsl:for-each select="licenses/license">
      <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
      <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
    </xsl:for-each>
  </ul>
</td>
    </tr>
  </xsl:for-each>
</table>
<table>
  <tr>
    <th>Description</th>
    <th>Locations</th>
    <th>Remote Licenses</th>
    <th>Local Licenses</th>
  </tr>
  <xsl:for-each select="licenseSummary/others/other">
    <xsl:sort select="description"/>
    <tr>
      <td><xsl:value-of select="description"/></td>
      <td>
        <ul>
          <xsl:for-each select="locations/*[self::file or self::directory]">
            <li class="{local-name()}"><xsl:value-of select="."/></li>
          </xsl:for-each>
          <xsl:for-each select="locations/archive">
            <li class="archive">
              <p><xsl:value-of select="file"/></p>
              <ul>
                <xsl:for-each select="innerpath">
                  <li><xsl:value-of select="."/></li>
                </xsl:for-each>
              </ul>
            </li>
          </xsl:for-each>
        </ul>
```

```
          </td>
          <td>
            <ul>
              <xsl:for-each select="licenses/license">
                <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
              </xsl:for-each>
            </ul>
          </td>
          <td>
            <ul>
              <xsl:for-each select="licenses/license">
                <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
                <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
              </xsl:for-each>
            </ul>
          </td>
        </tr>
      </xsl:for-each>
    </table>
  </body>
</html>
  </xsl:template>
</xsl:stylesheet>
```

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
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in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

2.443 keycloak-fuse-adapter-dist 4.4.0.Final

2.443.1 Available under license :

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java/io/PrintStreamjava/lang/Objectjava/lang/StringBuilderjava/lang/SystemlicenseText

lineSeparatormainorg/bouncycastle/LICENSEorg/bouncycastle/util/Stringsoutportions of the

Software.println$subject to the following conditions:toString

!"&'Ljava/io/PrintStream;Ljava/lang/String;()Ljava/lang/String;(Ljava/lang/String;)V([Ljava/lang/String;)V-(Ljava/lang/String;)Ljava/lang/StringBuilder;(3#4$5,5*68 09 1:

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resourceIdLjava/lang/String;RuntimeVisibleAnnotations/Lcom/fasterxml/jackson/annotation/JsonProperty;valuersid

resourceNamersnamescopesLjava/util/Set;

Signature#Ljava/util/Set<Ljava/lang/String;>;.Lcom/fasterxml/jackson/annotation/JsonInclude;IncludeInnerClasses

6Lcom/fasterxml/jackson/annotation/JsonInclude$Include;

NON_EMPTYclaimsLjava/util/Map;FLjava/util/Map<Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;>;<init>

()VCodeLineNumberTableLocalVariableTablethis;Lorg/keycloak/representations/idm/authorization/Permission;$(L

java/lang/String;Ljava/util/Set;)VLocalVariableTypeTable8(Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;)V

E(Ljava/lang/String;Ljava/lang/String;Ljava/util/Set;Ljava/util/Map;)V(Ljava/lang/String;Ljava/lang/String;Ljava/ut

il/Set<Ljava/lang/String;>;Ljava/util/Map<Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;>;)V

setResourceId(Ljava/lang/String;)V

getResourceId()Ljava/lang/String;

StackMapTablesetResourceNamegetResourceName

getScopes()Ljava/util/Set;%()Ljava/util/Set<Ljava/lang/String;>;

getClaims()Ljava/util/Map;H()Ljava/util/Map<Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;>;equals(Ljava/

lang/Object;)ZscopeoLjava/lang/Object;thatthashCode()ItoStringbuilderLjava/lang/StringBuilder;

setScopes(Ljava/util/Set;)V&(Ljava/util/Set<Ljava/lang/String;>;)V

SourceFilePermission.java7Lcom/fasterxml/jackson/annotation/JsonIgnoreProperties;

ignoreUnknown9C9:$%*%,-

67HRSjava/util/HashSet9org/keycloak/representations/idm/authorization/PermissionGHKHLMjava/lang/StringSjav

a/lang/Objectjava/lang/StringBuilderPermission {id=, name= ,

scopes=}\H4com/fasterxml/jackson/annotation/JsonInclude$Includejava/util/IteratortrimgetClass()Ljava/lang/Class;

java/lang/ClassisAssignableFrom(Ljava/lang/Class;)Z

java/util/SetisEmpty()Ziterator()Ljava/util/Iterator;hasNextnext()Ljava/lang/Object;containsjava/util/Objectshash([L

java/lang/Object;)Iappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-

(Ljava/lang/Object;)Ljava/lang/StringBuilder;,com/fasterxml/jackson/annotation/JsonInclude!$%&'(s)*%&'(s+,-./&

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```xml
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
          xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

 <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
 <xsl:param name="productname"/>
 <xsl:param name="version"/>
 <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
 <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

 <xsl:template match="/">
   <html>
     <head>
       <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
       <link rel="stylesheet" type="text/css" href="licenses.css"/>
     </head>
     <body>
       <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
       <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
       <table>
```

```
<tr>
  <th>Package Group</th>
  <th>Package Artifact</th>
  <th>Package Version</th>
  <th>Remote Licenses</th>
  <th>Local Licenses</th>
</tr>
<xsl:for-each select="licenseSummary/dependencies/dependency">
  <xsl:sort select="concat(groupId, '.', artifactId)"/>
  <tr>
    <td><xsl:value-of select="groupId"/></td>
    <td><xsl:value-of select="artifactId"/></td>
    <td><xsl:value-of select="version"/></td>
    <td>
      <ul>
        <xsl:for-each select="licenses/license">
          <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
        </xsl:for-each>
      </ul>
    </td>
    <td>
      <ul>
        <xsl:for-each select="licenses/license">
          <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
          <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
        </xsl:for-each>
      </ul>
    </td>
  </tr>
</xsl:for-each>
</table>
<table>
  <tr>
    <th>Description</th>
    <th>Locations</th>
    <th>Remote Licenses</th>
    <th>Local Licenses</th>
  </tr>
  <xsl:for-each select="licenseSummary/others/other">
    <xsl:sort select="description"/>
    <tr>
      <td><xsl:value-of select="description"/></td>
      <td>
        <ul>
          <xsl:for-each select="locations/*[self::file or self::directory]">
            <li class="{local-name()}"><xsl:value-of select="."/></li>
          </xsl:for-each>
```

```
                    <xsl:for-each select="locations/archive">
                       <li class="archive">
                          <p><xsl:value-of select="file"/></p>
                          <ul>
                             <xsl:for-each select="innerpath">
                                <li><xsl:value-of select="."/></li>
                             </xsl:for-each>
                          </ul>
                       </li>
                    </xsl:for-each>
                 </ul>
              </td>
              <td>
                 <ul>
                    <xsl:for-each select="licenses/license">
                       <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                    </xsl:for-each>
                 </ul>
              </td>
              <td>
                 <ul>
                    <xsl:for-each select="licenses/license">
                       <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
                       <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                    </xsl:for-each>
                 </ul>
              </td>
           </tr>
        </xsl:for-each>
     </table>
  </body>
  </html>
 </xsl:template>
</xsl:stylesheet>
org.keycloak,keycloak-adapter-core,4.4.0.Final,Apache Software License 2.0.txt
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  margin: 2em 0;
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th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
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  text-align: left;
}

tr:nth-child(even) {
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ul {
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  padding: 0;
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li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
  margin: 0;
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li.archive p:after {
  content: ":";
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li.archive:before {
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      content: "a ";
}
li.file:before {
      content: "f ";
}
li.directory:before {
      content: "d ";
}
```
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2.450 keycloak-jetty81-adapter-dist 4.4.0.Final

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has

been in development since 2007.
It is currently developed by a community of developers, as well as supported
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2.453 keycloak-jetty92-adapter 4.4.0.Final

2.454 keycloak-jetty92-adapter-dist 4.4.0.Final

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2.455 keycloak-jetty93-adapter 4.4.0.Final

2.456 keycloak-jetty93-adapter-dist 4.4.0.Final

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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2.457 keycloak-jetty94-adapter 4.4.0.Final

2.458 keycloak-jetty94-adapter-dist 4.4.0.Final

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   the Work or Derivative Works thereof, You may choose to offer,
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   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

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   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the

2.459 keycloak-js-adapter 4.4.0.Final

2.460 keycloak-js-adapter-dist 4.4.0.Final

2.460.1 Available under license :

```
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
        xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="productname"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

  <xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
        <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <table>
          <tr>
```

```
            <th>Package Group</th>
            <th>Package Artifact</th>
            <th>Package Version</th>
            <th>Remote Licenses</th>
            <th>Local Licenses</th>
        </tr>
        <xsl:for-each select="licenseSummary/dependencies/dependency">
        <xsl:sort select="concat(groupId, '.', artifactId)"/>
        <tr>
            <td><xsl:value-of select="groupId"/></td>
            <td><xsl:value-of select="artifactId"/></td>
            <td><xsl:value-of select="version"/></td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                    <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                    <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
                    <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
        </tr>
        </xsl:for-each>
    </table>
    <table>
      <tr>
        <th>Description</th>
        <th>Locations</th>
        <th>Remote Licenses</th>
        <th>Local Licenses</th>
      </tr>
      <xsl:for-each select="licenseSummary/others/other">
        <xsl:sort select="description"/>
        <tr>
          <td><xsl:value-of select="description"/></td>
          <td>
            <ul>
                <xsl:for-each select="locations/*[self::file or self::directory]">
                    <li class="{local-name()}"><xsl:value-of select="."/></li>
                </xsl:for-each>
                <xsl:for-each select="locations/archive">
```

```
                            <li class="archive">
                                <p><xsl:value-of select="file"/></p>
                                <ul>
                                    <xsl:for-each select="innerpath">
                                        <li><xsl:value-of select="."/></li>
                                    </xsl:for-each>
                                </ul>
                            </li>
                        </xsl:for-each>
                    </ul>
                </td>
                <td>
                    <ul>
                        <xsl:for-each select="licenses/license">
                            <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                        </xsl:for-each>
                    </ul>
                </td>
                <td>
                    <ul>
                        <xsl:for-each select="licenses/license">
                            <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
                            <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                        </xsl:for-each>
                    </ul>
                </td>
            </tr>
        </xsl:for-each>
    </table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=utf-8">
<meta http-equiv="Content-Type" content="text/html;charset=utf-8">
<link rel="stylesheet" type="text/css" href="licenses.css">
</head>
<body>
<h2>Keycloak 4.4.0.Final</h2>
<p>The following material has been provided for informational purposes only, and should not be relied upon or
construed as a legal opinion or legal advice.</p>
<table>
<tr>
<th>Package Group</th><th>Package Artifact</th><th>Package Version</th><th>Remote
Licenses</th><th>Local Licenses</th>
</tr>
```

```
<tr>
<td>org.keycloak</td><td>keycloak-js-adapter</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-js-adapter,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License
2.0</a>
</li>
</ul>
</td>
</tr>
</table>
<table>
<tr>
<th>Description</th><th>Locations</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
</table>
</body>
</html>
body {
  font-family: monospace;
}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}
```

```
tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
  list-style: none;
  padding: 0;
  margin: 0;
}

li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
  margin: 0;
}

li.archive p:after {
  content: ":";
}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
}
li.directory:before {
  content: "d ";
}
```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>

<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<pre>
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```
</pre>
</body>
</html>
<?xml version="1.0" encoding="UTF-8"?><licenseSummary>
 <dependencies>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-js-adapter</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
 </dependencies>
</licenseSummary>
```

2.461 keycloak-kerberos-federation 4.4.0.Final

2.462 keycloak-ldap-federation 4.4.0.Final

2.463 keycloak-model-infinispan 4.4.0.Final

2.464 keycloak-model-jpa 4.4.0.Final

2.465 keycloak-osgi-adapter 4.4.0.Final

2.466 keycloak-proxy-dist 4.4.0.Final

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java/io/PrintStreamjava/lang/Objectjava/lang/StringBuilderjava/lang/SystemlicenseText lineSeparatormainorg/bouncycastle/LICENSEorg/bouncycastle/util/Stringsoutportions of the Software.println$subject to the following conditions:toString

!"&'Ljava/io/PrintStream;Ljava/lang/String;()Ljava/lang/String;(Ljava/lang/String;)V([Ljava/lang/String;)V-(Ljava/lang/String;)Ljava/lang/StringBuilder;(3#4$5,5*68 09 1:

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resourceIdLjava/lang/String;RuntimeVisibleAnnotationsLcom/fasterxml/jackson/annotation/JsonProperty;valuersid

resourceNamersnamescopesLjava/util/Set;

Signature#Ljava/util/Set<Ljava/lang/String;>;.Lcom/fasterxml/jackson/annotation/JsonInclude;IncludeInnerClasses

6Lcom/fasterxml/jackson/annotation/JsonInclude$Include;

NON_EMPTYclaimsLjava/util/Map;FLjava/util/Map<Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;>;<init>

()VCodeLineNumberTableLocalVariableTablethis;Lorg/keycloak/representations/idm/authorization/Permission;$(L

java/lang/String;Ljava/util/Set;)VLocalVariableTypeTable8(Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;)V

E(Ljava/lang/String;Ljava/lang/String;Ljava/util/Set;Ljava/util/Map;)V(Ljava/lang/String;Ljava/lang/String;Ljava/ut

il/Set<Ljava/lang/String;>;Ljava/util/Map<Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;>;)V

setResourceId(Ljava/lang/String;)V

getResourceId()Ljava/lang/String;

StackMapTablesetResourceNamegetResourceName

getScopes()Ljava/util/Set;%()Ljava/util/Set<Ljava/lang/String;>;

getClaims()Ljava/util/Map;H()Ljava/util/Map<Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;>;equals(Ljava/

lang/Object;)ZscopeoLjava/lang/Object;thatthashCode()ItoStringbuilderLjava/lang/StringBuilder;

setScopes(Ljava/util/Set;)V&(Ljava/util/Set<Ljava/lang/String;>;)V

SourceFilePermission.java7Lcom/fasterxml/jackson/annotation/JsonIgnoreProperties;

ignoreUnknown9C9:$%*%,-

67HRSjava/util/HashSet9org/keycloak/representations/idm/authorization/PermissionGHKHLMjava/lang/StringSjav

a/lang/Objectjava/lang/StringBuilderPermission {id=, name= ,

scopes=}\H4com/fasterxml/jackson/annotation/JsonInclude$Includejava/util/IteratortrimgetClass()Ljava/lang/Class;

java/lang/ClassisAssignableFrom(Ljava/lang/Class;)Z

java/util/SetisEmpty()Ziterator()Ljava/util/Iterator;hasNextnext()Ljava/lang/Object;containsjava/util/Objectshash([L

java/lang/Object;)Iappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-

(Ljava/lang/Object;)Ljava/lang/StringBuilder;,com/fasterxml/jackson/annotation/JsonInclude!$%&'(s)*%&'(s+,-./&

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>?=>?$%GH;Y** *<BCE=>?IJF;>*+<

IJ=>?*%KH;/*<M=>?LM;R**

Y*<QRU=>?I.NOP;/*<Y=>?.QRS;2*++*+

+M*

-, *,,,N-!-:*<>^_a c.d<e>hViXk_laopqsu=*T%>?UV tW?I

X Y#Z[;9Y*S<z=>?\H;}=YL+** *!"W+#<(8==>?5]^_`;P*+<

=>?,-A,/.abc&deZf3

12@

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>

<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<pre>
```

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2.467 keycloak-proxy-server 4.4.0.Final

2.468 keycloak-saml-adapter-api-public 4.4.0.Final

2.469 keycloak-saml-adapter-core 4.4.0.Final

2.470 keycloak-saml-as7-adapter 4.4.0.Final

2.471 keycloak-saml-as7-adapter-dist 4.4.0.Final

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.;

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/?

2<Code!1. #4H*C %7H

@ABH/YDFGFGFFGF

FGFFGFFGFFGFGF FGF

FGFGFFGFFGFFGFFGFFGFFEA

2.472 keycloak-saml-as7-modules 4.4.0.Final

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java/io/PrintStreamjava/lang/Objectjava/lang/StringBuilderjava/lang/SystemlicenseText lineSeparatormainorg/bouncycastle/LICENSEorg/bouncycastle/util/Stringsoutportions of the Software.println$subject to the following conditions:toString

!"&'Ljava/io/PrintStream;Ljava/lang/String;()Ljava/lang/String;(Ljava/lang/String;)V([Ljava/lang/String;)V-(Ljava/lang/String;)Ljava/lang/StringBuilder;(3#4$5,5*68 09 1:

->

.;

/;

/=

/?

2<Code!1. #4H*C %7H

@ABH/YDFGFGFFGF

FGFFGFFGFFGFGF FGF

FGFGFFGFFGFFGFFGFFGFFEA

<?xml version="1.0"?>

<xsl:stylesheet version="1.0"

       xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />

  <xsl:param name="productname"/>

  <xsl:param name="version"/>

  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />

  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

```
<xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
        <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <table>
          <tr>
            <th>Package Group</th>
            <th>Package Artifact</th>
            <th>Package Version</th>
            <th>Remote Licenses</th>
            <th>Local Licenses</th>
          </tr>
          <xsl:for-each select="licenseSummary/dependencies/dependency">
          <xsl:sort select="concat(groupId, '.', artifactId)"/>
          <tr>
            <td><xsl:value-of select="groupId"/></td>
            <td><xsl:value-of select="artifactId"/></td>
            <td><xsl:value-of select="version"/></td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                  <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                  <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
                  <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
          </tr>
          </xsl:for-each>
        </table>
        <table>
          <tr>
            <th>Description</th>
            <th>Locations</th>
            <th>Remote Licenses</th>
```

```
                    <th>Local Licenses</th>
            </tr>
            <xsl:for-each select="licenseSummary/others/other">
              <xsl:sort select="description"/>
              <tr>
                <td><xsl:value-of select="description"/></td>
                <td>
                  <ul>
                    <xsl:for-each select="locations/*[self::file or self::directory]">
                      <li class="{local-name()}"><xsl:value-of select="."/></li>
                    </xsl:for-each>
                    <xsl:for-each select="locations/archive">
                      <li class="archive">
                        <p><xsl:value-of select="file"/></p>
                        <ul>
                          <xsl:for-each select="innerpath">
                            <li><xsl:value-of select="."/></li>
                          </xsl:for-each>
                        </ul>
                      </li>
                    </xsl:for-each>
                  </ul>
                </td>
                <td>
                  <ul>
                    <xsl:for-each select="licenses/license">
                      <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                    </xsl:for-each>
                  </ul>
                </td>
                <td>
                  <ul>
                    <xsl:for-each select="licenses/license">
                      <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
                      <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                    </xsl:for-each>
                  </ul>
                </td>
              </tr>
            </xsl:for-each>
          </table>
        </body>
      </html>
    </xsl:template>
</xsl:stylesheet>
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=utf-8">
```

```
<meta http-equiv="Content-Type" content="text/html;charset=utf-8">
<link rel="stylesheet" type="text/css" href="licenses.css">
</head>
<body>
<h2>Keycloak 4.4.0.Final</h2>
<p>The following material has been provided for informational purposes only, and should not be relied upon or
construed as a legal opinion or legal advice.</p>
<table>
<tr>
<th>Package Group</th><th>Package Artifact</th><th>Package Version</th><th>Remote
Licenses</th><th>Local Licenses</th>
</tr>
<tr>
<td>org.bouncycastle</td><td>bcpkix-jdk15on</td><td>1.56</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/bcgit/bc-java/r1rv56/LICENSE.html">MIT License</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.bouncycastle,bcpkix-jdk15on,1.56,MIT License.txt">MIT License</a>
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<tr>
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<li>
<a href="https://raw.githubusercontent.com/bcgit/bc-java/r1rv56/LICENSE.html">MIT License</a>
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</ul>
</td><td>
<ul>
<li>
<a href="org.bouncycastle,bcprov-jdk15on,1.56,MIT License.txt">MIT License</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-adapter-spi</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
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</tr>
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<td>org.keycloak</td><td>keycloak-as7-adapter-spi</td><td>4.4.0.Final</td><td>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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License 2.0</a>
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<td>org.keycloak</td><td>keycloak-common</td><td>4.4.0.Final</td><td>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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<li>
<a href="org.keycloak,keycloak-common,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License
2.0</a>
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<tr>
<td>org.keycloak</td><td>keycloak-jboss-adapter-core</td><td>4.4.0.Final</td><td>
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```html
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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</td><td>
<ul>
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<a href="org.keycloak,keycloak-jboss-adapter-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
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<tr>
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License 2.0</a>
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2.0</a>
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2.0</a>
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2.0</a>
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<a href="org.keycloak,keycloak-saml-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License
2.0</a>
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<ul>
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2.0</a>
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<a href="org.keycloak,keycloak-saml-core-public,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
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2.0</a>
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<a href="org.keycloak,keycloak-saml-tomcat-adapter-core,4.4.0.Final,Apache Software License 2.0.txt">Apache
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
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<ul>
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<a href="org.keycloak,keycloak-tomcat-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
</table>
<table>
<tr>
<th>Description</th><th>Locations</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
</table>
</body>
</html>
body {
  font-family: monospace;
}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
  list-style: none;
  padding: 0;
  margin: 0;
}
```

```
li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
  margin: 0;
}

li.archive p:after {
  content: ":";
}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
}
li.directory:before {
  content: "d ";
}
```
org.keycloak,keycloak-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt
```
<html>
<body bgcolor=#ffffff>
```

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```
<p>
```
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subject to the following conditions:
```
<p>
```
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portions of the Software.
```
<p>
```
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CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER
DEALINGS IN THE SOFTWARE.
```
</body>
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```xml
</html>
<?xml version="1.0" encoding="UTF-8"?><licenseSummary>
 <dependencies>
  <dependency>
   <groupId>org.bouncycastle</groupId>
   <artifactId>bcpkix-jdk15on</artifactId>
   <version>1.56</version>
   <licenses>
    <license>
     <name>MIT License</name>
     <url>https://raw.githubusercontent.com/bcgit/bc-java/r1rv56/LICENSE.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
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   <artifactId>bcprov-jdk15on</artifactId>
   <version>1.56</version>
   <licenses>
    <license>
     <name>MIT License</name>
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  </dependency>
  <dependency>
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   <artifactId>keycloak-adapter-spi</artifactId>
   <version>4.4.0.Final</version>
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     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-as7-adapter-spi</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
```

```xml
    <groupId>org.keycloak</groupId>
    <artifactId>keycloak-common</artifactId>
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        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.keycloak</groupId>
    <artifactId>keycloak-jboss-adapter-core</artifactId>
    <version>4.4.0.Final</version>
    <licenses>
      <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.keycloak</groupId>
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2.473 keycloak-saml-as7-subsystem 4.4.0.Final

2.474 keycloak-saml-core 4.4.0.Final

2.475 keycloak-saml-core-public 4.4.0.Final

2.476 keycloak-saml-eap6-adapter-dist 4.4.0.Final

2.476.1 Available under license :

1I)+()V<clinit><init>[Copyright (c) 2000-2016 The Legion of the Bouncy Castle Inc.
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DEALINGS IN THE SOFTWARE.

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org.keycloak,keycloak-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt

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<p>The following material has been provided for informational purposes only, and should not be relied upon or
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<th>Package Group</th><th>Package Artifact</th><th>Package Version</th><th>Remote
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}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
```

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  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
  list-style: none;
  padding: 0;
  margin: 0;
}

li.archive ul {
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}

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}

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  content: ":";
}

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}
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}
li.directory:before {
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        xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="productname"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

  <xsl:template match="/">
    <html>
```

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upon or construed as a legal opinion or legal advice.</p>
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```
<xsl:for-each select="licenseSummary/others/other">
  <xsl:sort select="description"/>
  <tr>
    <td><xsl:value-of select="description"/></td>
    <td>
      <ul>
        <xsl:for-each select="locations/*[self::file or self::directory]">
          <li class="{local-name()}"><xsl:value-of select="."/></li>
        </xsl:for-each>
        <xsl:for-each select="locations/archive">
          <li class="archive">
            <p><xsl:value-of select="file"/></p>
            <ul>
              <xsl:for-each select="innerpath">
                <li><xsl:value-of select="."/></li>
              </xsl:for-each>
            </ul>
          </li>
        </xsl:for-each>
      </ul>
    </td>
    <td>
      <ul>
        <xsl:for-each select="licenses/license">
          <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
        </xsl:for-each>
      </ul>
    </td>
    <td>
      <ul>
        <xsl:for-each select="licenses/license">
          <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
          <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
        </xsl:for-each>
      </ul>
    </td>
  </tr>
</xsl:for-each>
        </table>
      </body>
    </html>
  </xsl:template>
</xsl:stylesheet>
```

2.477 keycloak-saml-jetty-adapter-core 4.4.0.Final

2.478 keycloak-saml-jetty81-adapter 4.4.0.Final

2.479 keycloak-saml-jetty81-adapter-dist 4.4.0.Final

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2<Code!1. #4H*C %7H

@ABH/YDFGFGFFGF

FGFFGFFGFFGFGF FGF

FGFGFFGFFGFFGFFGFFGFFEA

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contains test data from http://aspell.net/test/orig/batch0.tab.
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2.480 keycloak-saml-jetty91-adapter 4.4.0.Final

2.481 keycloak-saml-jetty92-adapter 4.4.0.Final

2.482 keycloak-saml-jetty92-adapter-dist 4.4.0.Final

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@ABH/YDFGFGFFGF

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2.484 keycloak-saml-jetty93-adapter-dist 4.4.0.Final

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2.491 keycloak-saml-tomcat7-adapter 4.4.0.Final

2.492 keycloak-saml-tomcat7-adapter-dist 4.4.0.Final

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2.493 keycloak-saml-tomcat8-adapter 4.4.0.Final

2.494 keycloak-saml-tomcat8-adapter-dist 4.4.0.Final

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2.496 keycloak-saml-wildfly-adapter 4.4.0.Final

2.497 keycloak-saml-wildfly-adapter-dist 4.4.0.Final

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Software License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-saml-wildfly-elytron-adapter</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-saml-wildfly-elytron-adapter,4.4.0.Final,Apache Software License 2.0.txt">Apache
Software License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-saml-wildfly-subsystem</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-saml-wildfly-subsystem,4.4.0.Final,Apache Software License 2.0.txt">Apache
Software License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-undertow-adapter-spi</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
```

```
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-undertow-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt">Apache
Software License 2.0</a>
</li>
</ul>
</td>
</tr>
</table>
<table>
<tr>
<th>Description</th><th>Locations</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
</table>
</body>
</html>
body {
  font-family: monospace;
}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
```

```
  list-style: none;
  padding: 0;
  margin: 0;
}

li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
  margin: 0;
}

li.archive p:after {
  content: ":";
}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
}
li.directory:before {
  content: "d ";
}
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
          xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="productname"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

  <xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
        <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <table>
```

```xml
<tr>
  <th>Package Group</th>
  <th>Package Artifact</th>
  <th>Package Version</th>
  <th>Remote Licenses</th>
  <th>Local Licenses</th>
</tr>
<xsl:for-each select="licenseSummary/dependencies/dependency">
  <xsl:sort select="concat(groupId, '.', artifactId)"/>
  <tr>
    <td><xsl:value-of select="groupId"/></td>
    <td><xsl:value-of select="artifactId"/></td>
    <td><xsl:value-of select="version"/></td>
    <td>
      <ul>
        <xsl:for-each select="licenses/license">
          <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
        </xsl:for-each>
      </ul>
    </td>
    <td>
      <ul>
        <xsl:for-each select="licenses/license">
          <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
          <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
        </xsl:for-each>
      </ul>
    </td>
  </tr>
</xsl:for-each>
</table>
<table>
  <tr>
    <th>Description</th>
    <th>Locations</th>
    <th>Remote Licenses</th>
    <th>Local Licenses</th>
  </tr>
  <xsl:for-each select="licenseSummary/others/other">
    <xsl:sort select="description"/>
    <tr>
      <td><xsl:value-of select="description"/></td>
      <td>
        <ul>
          <xsl:for-each select="locations/*[self::file or self::directory]">
            <li class="{local-name()}"><xsl:value-of select="."/></li>
          </xsl:for-each>
```

```
<xsl:for-each select="locations/archive">
  <li class="archive">
    <p><xsl:value-of select="file"/></p>
    <ul>
      <xsl:for-each select="innerpath">
        <li><xsl:value-of select="."/></li>
      </xsl:for-each>
    </ul>
  </li>
</xsl:for-each>
                      </ul>
                    </td>
                    <td>
                      <ul>
                        <xsl:for-each select="licenses/license">
                          <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                        </xsl:for-each>
                      </ul>
                    </td>
                    <td>
                      <ul>
                        <xsl:for-each select="licenses/license">
                          <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
                          <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                        </xsl:for-each>
                      </ul>
                    </td>
                  </tr>
                </xsl:for-each>
              </table>
            </body>
          </html>
        </xsl:template>
      </xsl:stylesheet>
```

2.498 keycloak-saml-wildfly-elytron-adapter 4.4.0.Final

2.499 keycloak-saml-wildfly-modules 4.4.0.Final

2.499.1 Available under license :

```xml
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
          xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="productname"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />

  <xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
        <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <table>
          <tr>
            <th>Package Group</th>
            <th>Package Artifact</th>
            <th>Package Version</th>
            <th>Remote Licenses</th>
            <th>Local Licenses</th>
          </tr>
          <xsl:for-each select="licenseSummary/dependencies/dependency">
            <xsl:sort select="concat(groupId, '.', artifactId)"/>
            <tr>
              <td><xsl:value-of select="groupId"/></td>
              <td><xsl:value-of select="artifactId"/></td>
              <td><xsl:value-of select="version"/></td>
              <td>
                <ul>
                  <xsl:for-each select="licenses/license">
                    <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                  </xsl:for-each>
                </ul>
              </td>
              <td>
                <ul>
                  <xsl:for-each select="licenses/license">
                    <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
```

```
              <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
            </xsl:for-each>
          </ul>
        </td>
      </tr>
    </xsl:for-each>
</table>
<table>
  <tr>
    <th>Description</th>
    <th>Locations</th>
    <th>Remote Licenses</th>
    <th>Local Licenses</th>
  </tr>
  <xsl:for-each select="licenseSummary/others/other">
    <xsl:sort select="description"/>
    <tr>
      <td><xsl:value-of select="description"/></td>
      <td>
        <ul>
          <xsl:for-each select="locations/*[self::file or self::directory]">
            <li class="{local-name()}"><xsl:value-of select="."/></li>
          </xsl:for-each>
          <xsl:for-each select="locations/archive">
            <li class="archive">
              <p><xsl:value-of select="file"/></p>
              <ul>
                <xsl:for-each select="innerpath">
                  <li><xsl:value-of select="."/></li>
                </xsl:for-each>
              </ul>
            </li>
          </xsl:for-each>
        </ul>
      </td>
      <td>
        <ul>
          <xsl:for-each select="licenses/license">
            <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
          </xsl:for-each>
        </ul>
      </td>
      <td>
        <ul>
          <xsl:for-each select="licenses/license">
            <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
            <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
          </xsl:for-each>
```

```
                    </ul>
                  </td>
                </tr>
              </xsl:for-each>
            </table>
          </body>
        </html>
      </xsl:template>
    </xsl:stylesheet>
    <html>
    <head>
    <META http-equiv="Content-Type" content="text/html; charset=utf-8">
    <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
    <link rel="stylesheet" type="text/css" href="licenses.css">
    </head>
    <body>
    <h2>Keycloak 4.4.0.Final</h2>
    <p>The following material has been provided for informational purposes only, and should not be relied upon or
    construed as a legal opinion or legal advice.</p>
    <table>
    <tr>
    <th>Package Group</th><th>Package Artifact</th><th>Package Version</th><th>Remote
    Licenses</th><th>Local Licenses</th>
    </tr>
    <tr>
    <td>org.keycloak</td><td>keycloak-adapter-spi</td><td>4.4.0.Final</td><td>
    <ul>
    <li>
    <a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
    2.0</a>
    </li>
    </ul>
    </td><td>
    <ul>
    <li>
    <a href="org.keycloak,keycloak-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
    License 2.0</a>
    </li>
    </ul>
    </td>
    </tr>
    <tr>
    <td>org.keycloak</td><td>keycloak-common</td><td>4.4.0.Final</td><td>
    <ul>
    <li>
    <a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
    2.0</a>
    </li>
```

```
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-common,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License
2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-jboss-adapter-core</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-jboss-adapter-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-saml-adapter-api-public</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-saml-adapter-api-public,4.4.0.Final,Apache Software License 2.0.txt">Apache
Software License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-saml-adapter-core</td><td>4.4.0.Final</td><td>
<ul>
<li>
```

```
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-saml-adapter-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-saml-core</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-saml-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software License
2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-saml-core-public</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-saml-core-public,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
```

<td>org.keycloak</td><td>keycloak-saml-undertow-adapter</td><td>4.4.0.Final</td><td>

Apache Software License 2.0

</td><td>

Apache Software License 2.0

</td>

</tr>

<tr>

<td>org.keycloak</td><td>keycloak-saml-wildfly-adapter</td><td>4.4.0.Final</td><td>

Apache Software License 2.0

</td><td>

Apache Software License 2.0

</td>

</tr>

<tr>

<td>org.keycloak</td><td>keycloak-saml-wildfly-elytron-adapter</td><td>4.4.0.Final</td><td>

Apache Software License 2.0

</td><td>

Apache Software License 2.0


```
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-saml-wildfly-subsystem</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-saml-wildfly-subsystem,4.4.0.Final,Apache Software License 2.0.txt">Apache
Software License 2.0</a>
</li>
</ul>
</td>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-undertow-adapter-spi</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
<ul>
<li>
<a href="org.keycloak,keycloak-undertow-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt">Apache
Software License 2.0</a>
</li>
</ul>
</td>
</tr>
</table>
<table>
<tr>
<th>Description</th><th>Locations</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
</table>
</body>
</html>
body {
  font-family: monospace;
}
```

```css
table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
  list-style: none;
  padding: 0;
  margin: 0;
}

li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
  margin: 0;
}

li.archive p:after {
  content: ":";
}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
```

```
}
li.directory:before {
  content: "d ";
}
org.keycloak,keycloak-adapter-spi,4.4.0.Final,Apache Software License 2.0.txt
<?xml version="1.0" encoding="UTF-8"?><licenseSummary>
 <dependencies>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-adapter-spi</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-common</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-jboss-adapter-core</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-saml-adapter-api-public</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
```

```
      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.keycloak</groupId>
    <artifactId>keycloak-saml-adapter-core</artifactId>
    <version>4.4.0.Final</version>
    <licenses>
      <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.keycloak</groupId>
    <artifactId>keycloak-saml-core</artifactId>
    <version>4.4.0.Final</version>
    <licenses>
      <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.keycloak</groupId>
    <artifactId>keycloak-saml-core-public</artifactId>
    <version>4.4.0.Final</version>
    <licenses>
      <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.keycloak</groupId>
    <artifactId>keycloak-saml-undertow-adapter</artifactId>
    <version>4.4.0.Final</version>
    <licenses>
      <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
      </license>
    </licenses>
  </dependency>
  <dependency>
```

```xml
      <groupId>org.keycloak</groupId>
      <artifactId>keycloak-saml-wildfly-adapter</artifactId>
      <version>4.4.0.Final</version>
      <licenses>
       <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
       </license>
      </licenses>
    </dependency>
    <dependency>
      <groupId>org.keycloak</groupId>
      <artifactId>keycloak-saml-wildfly-elytron-adapter</artifactId>
      <version>4.4.0.Final</version>
      <licenses>
       <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
       </license>
      </licenses>
    </dependency>
    <dependency>
      <groupId>org.keycloak</groupId>
      <artifactId>keycloak-saml-wildfly-subsystem</artifactId>
      <version>4.4.0.Final</version>
      <licenses>
       <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
       </license>
      </licenses>
    </dependency>
    <dependency>
      <groupId>org.keycloak</groupId>
      <artifactId>keycloak-undertow-adapter-spi</artifactId>
      <version>4.4.0.Final</version>
      <licenses>
       <license>
        <name>Apache Software License 2.0</name>
        <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
       </license>
      </licenses>
    </dependency>
  </dependencies>
</licenseSummary>
```

2.500 keycloak-saml-wildfly-subsystem 4.4.0.Final

2.501 keycloak-server-dist 4.4.0.Final

2.501.1 Available under license :

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Version 2.1, February 1999

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That's all there is to it!

2.502 keycloak-server-feature-pack 4.4.0.Final
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Zocial CSS social buttons

I basically rewrote this entire set so they are full vector buttons, meaning:

- @font-face icons
- custom font file for all social icons
- icon font use private unicode spaces for accessibility

- em sizing based on button font-size
- support for about 83 different services
- buttons and icons supported
- no raster images (sweet)
- works splendidly on any browser supporting @font-face
- CSS3 degrades gracefully in IE8 and below etc.
- also includes generic icon-less primary and secondary buttons

How to use these buttons

 <button class="zocial facebook">Button label here</button>

or

 Button label

- Can be any element e.g. `a`, `div`, `button` etc.
- Add class of `.zocial`
- Add class for name of service e.g. `.dropbox`, `.twitter`, `.github`
- Done :-)

Check out zocial.smcllns.com for demo and code examples.

There's also a LESS version from @gustavohenke [here](https://github.com/gustavohenke/zocial-less)

Problems, questions or requests to [@smcllns](http://twitter.com/smcllns)

How to contribute

Install [Font Custom](http://fontcustom.com/#installation)

Run `fontcustom compile` to build the font.

New fonts are defined by adding them in the `svg/` folder. For color settings
see the `templates/zocial.css` file.

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```
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
        xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="productname"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />
```

```xml
<xsl:template match="/">
  <html>
    <head>
      <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
      <link rel="stylesheet" type="text/css" href="licenses.css"/>
    </head>
    <body>
      <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
      <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
      <table>
        <tr>
          <th>Package Group</th>
          <th>Package Artifact</th>
          <th>Package Version</th>
          <th>Remote Licenses</th>
          <th>Local Licenses</th>
        </tr>
        <xsl:for-each select="licenseSummary/dependencies/dependency">
        <xsl:sort select="concat(groupId, '.', artifactId)"/>
        <tr>
          <td><xsl:value-of select="groupId"/></td>
          <td><xsl:value-of select="artifactId"/></td>
          <td><xsl:value-of select="version"/></td>
          <td>
            <ul>
              <xsl:for-each select="licenses/license">
                <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
              </xsl:for-each>
            </ul>
          </td>
          <td>
            <ul>
              <xsl:for-each select="licenses/license">
                <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
                <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
              </xsl:for-each>
            </ul>
          </td>
        </tr>
        </xsl:for-each>
      </table>
      <table>
        <tr>
          <th>Description</th>
          <th>Locations</th>
```

```
              <th>Remote Licenses</th>
              <th>Local Licenses</th>
           </tr>
           <xsl:for-each select="licenseSummary/others/other">
              <xsl:sort select="description"/>
              <tr>
                 <td><xsl:value-of select="description"/></td>
                 <td>
                    <ul>
                       <xsl:for-each select="locations/*[self::file or self::directory]">
                          <li class="{local-name()}"><xsl:value-of select="."/></li>
                       </xsl:for-each>
                       <xsl:for-each select="locations/archive">
                          <li class="archive">
                             <p><xsl:value-of select="file"/></p>
                             <ul>
                                <xsl:for-each select="innerpath">
                                   <li><xsl:value-of select="."/></li>
                                </xsl:for-each>
                             </ul>
                          </li>
                       </xsl:for-each>
                    </ul>
                 </td>
                 <td>
                    <ul>
                       <xsl:for-each select="licenses/license">
                          <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                       </xsl:for-each>
                    </ul>
                 </td>
                 <td>
                    <ul>
                       <xsl:for-each select="licenses/license">
                          <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
                          <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                       </xsl:for-each>
                    </ul>
                 </td>
              </tr>
           </xsl:for-each>
        </table>
     </body>
  </html>
  </xsl:template>
</xsl:stylesheet>
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```

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<ul>
<li>
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</li>
<li>
<a href="https://raw.githubusercontent.com/select2/select2/3.4.1/LICENSE">GNU General Public License v2.0
only</a>
</li>
</ul>
</td><td>
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<li>
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<a href="https://raw.githubusercontent.com/angular-ui/ui-ace/src0.2.3/LICENSE">MIT License</a>
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buttons/547237515694d05eaa38aeae3fb4d2eb4dee1ac9/README.md">MIT License</a>
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</ul>
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</tr>
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</body>
</html>
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body {
  font-family: monospace;
}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
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th {
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  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
```

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}

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  margin: 0;
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li.archive ul {
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}

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  margin: 0;
}

li.archive p:after {
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}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
}
li.directory:before {
  content: "d ";
}
```

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 </head>

<body>

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The AOP Alliance also aims to ensure interoperability between
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  <h1>Work in progress</h1>

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 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top: 0.5em;
   margin-bottom: 0.5em;
   }
 p.list {
  margin-left: 0.5in;
   margin-top: 0.05em;
   margin-bottom: 0.05em;
   }
 </style>

</head>

<body lang="EN-US">

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========

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David Megginson, david@megginson.com
2000-05-05
#[Font Awesome v4.3.0](http://fontawesome.io)
###The iconic font and CSS framework

Font Awesome is a full suite of 519 pictographic icons for easy scalable vector graphics on websites,
created and maintained by [Dave Gandy](http://twitter.com/davegandy).
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##Changelog
- v3.0.0 - all icons redesigned from scratch, optimized for Bootstrap's 14px default
- v3.0.1 - much improved rendering in webkit, various bug fixes
- v3.0.2 - much improved rendering and alignment in IE7
- v3.1.0 - Added 54 icons, icon stacking styles, flipping and rotating icons, removed Sass support
- [v3.1.1 GitHub milestones](https://github.com/FortAwesome/Font-
Awesome/issues?milestone=4&page=1&state=closed)
- [v3.2.0 GitHub milestones](https://github.com/FortAwesome/Font-
Awesome/issues?milestone=3&page=1&state=closed)
- [v3.2.1 GitHub milestones](https://github.com/FortAwesome/Font-
Awesome/issues?milestone=5&page=1&state=closed)
- [v4.0.0 GitHub milestones](https://github.com/FortAwesome/Font-
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- [v4.0.1 GitHub milestones](https://github.com/FortAwesome/Font-
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- [v4.0.2 GitHub milestones](https://github.com/FortAwesome/Font-

Awesome/issues?milestone=8&page=1&state=closed)
- [v4.0.3 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=9&page=1&state=closed)
- [v4.1.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=6&page=1&state=closed)
- [v4.2.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=12&page=1&state=closed)
- [v4.3.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?q=milestone%3A4.3.0+is%3Aclosed)

Contributing

Please read through our [contributing guidelines](https://github.com/FortAwesome/Font-Awesome/blob/master/CONTRIBUTING.md).
Included are directions for opening issues, coding standards, and notes on development.

##Versioning

Font Awesome will be maintained under the Semantic Versioning guidelines as much as possible. Releases will be numbered
with the following format:

`<major>.<minor>.<patch>`

And constructed with the following guidelines:

* Breaking backward compatibility bumps the major (and resets the minor and patch)
* New additions, including new icons, without breaking backward compatibility bumps the minor (and resets the patch)
* Bug fixes and misc changes bumps the patch

For more information on SemVer, please visit http://semver.org.

##Author
- Email: dave@fontawesome.io
- Twitter: http://twitter.com/davegandy
- GitHub: https://github.com/davegandy

##Component
To include as a [component](http://github.com/component/component), just run

  $ component install FortAwesome/Font-Awesome

Or add

  "FortAwesome/Font-Awesome": "*"

to the `dependencies` in your `component.json`.

Hacking on Font Awesome

From the root of the repository, install the tools used to develop.

    $ bundle install
    $ npm install

Build the project and documentation:

    $ bundle exec jekyll build

Or serve it on a local server on http://localhost:7998/Font-Awesome/:

    $ bundle exec jekyll -w serve
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END OF TERMS AND CONDITIONS

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```
</pre>
</body>
</html>
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

  <ol class="breadcrumb">
    <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-permissions' | translate}}</a></li>
  </ol>

  <kc-tabs-resource-server></kc-tabs-resource-server>

  <table class="table table-striped table-bordered">
    <thead>
      <tr>
        <th class="kc-table-actions" colspan="5">
          <div class="form-inline">
            <div class="form-group">
              {{:: 'filter' | translate}}:  
              <div class="input-group">
                <input type="text" placeholder="{{:: 'name' | translate}}" data-ng-model="query.name" class="form-control search" onkeydown="if (event.keyCode == 13) document.getElementById('policySearch').click()">
                <div class="input-group-addon">
                  <i class="fa fa-search" id="policySearch" type="submit" data-ng-click="firstPage()"></i>
                </div>
              </div>
              <div class="input-group">
                <input type="text" placeholder="{{:: 'authz-resource' | translate}}" data-ng-model="query.resource" class="form-control search" onkeydown="if (event.keyCode == 13) document.getElementById('policySearch').click()">
                <div class="input-group-addon">
                  <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
                </div>
              </div>
              <div class="input-group">
                <input type="text" placeholder="{{:: 'authz-scope' | translate}}" data-ng-model="query.scope" class="form-control search" onkeydown="if (event.keyCode == 13) document.getElementById('policySearch').click()">
                <div class="input-group-addon">
                  <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
                </div>
```

```
            </div>
            <div class="input-group">
              <select class="form-control search" data-ng-model="query.type"
                      ng-options="p.type as p.name group by p.group for p in policyProviders track by p.type"
data-ng-change="firstPage()">
                <option value="" selected ng-click="query.type = ''">{{:: 'authz-all-types' |
translate}}</option>
              </select>
            </div>
          </div>
          <div class="pull-right">
            <select class="form-control" ng-model="policyType"
                    ng-options="p.name for p in policyProviders track by p.type"
                    id="create-permission"
                    data-ng-change="addPolicy(policyType);">
              <option value="" disabled selected>{{:: 'authz-create-permission' | translate}}...</option>
            </select>
          </div>
        </div>
      </th>
    </tr>
    <tr data-ng-hide="policies.length == 0">
      <th width="1%"></th>
      <th>{{:: 'name' | translate}}</th>
      <th>{{:: 'description' | translate}}</th>
      <th width="7%">{{:: 'type' | translate}}</th>
      <th width="6%" style="text-align: center;">{{:: 'actions' | translate}}</th>
    </tr>
  </thead>
  <tfoot data-ng-show="policies && (policies.length >= query.max || query.first > 0)">
  <tr>
    <td colspan="5">
      <div class="table-nav">
        <button data-ng-click="firstPage()" class="first" ng-disabled="query.first == 0">{{:: 'first-page' |
translate}}</button>
        <button data-ng-click="previousPage()" class="prev" ng-disabled="query.first == 0">{{:: 'previous-
page' | translate}}</button>
        <button data-ng-click="nextPage()" class="next" ng-disabled="policies.length < query.max">{{:: 'next-
page' | translate}}</button>
      </div>
    </td>
  </tr>
  </tfoot>
  <tbody>
    <tr ng-repeat-start="policy in policies | filter: {name: search.name, type: search.type} | orderBy:'name'" data-
ng-click="showDetails(policy, $event);" style="cursor: pointer">
      <td>
        <span ng-if="!policy.details || !policy.details.loaded" class="fa fa-angle-right"></span>
```

```
                    <span ng-if="policy.details && policy.details.loaded" class="fa fa-angle-right fa-angle-down"></span>
                </td>
                <td><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-
server/permission/{{policy.type}}/{{policy.id}}">{{policy.name}}</a></td>
                <td>{{policy.description}}</td>
                <td>{{policy.type}}</td>
                <td align="center">
                    <div class="dropdown dropdown-kebab-pf">
                        <button class="btn btn-default" ng-click="delete(policy);">{{:: 'delete' | translate}}
                        </button>
                    </div>
                </td>
            </tr>
            <tr ng-if="policy.details && policy.details.loaded" ng-repeat-end="">
                <td colspan="5" style="background-color: #ffffff">
                    <div class="list-group-item-container container-fluid">
                        <div class="close" data-ng-click="showDetails(policy, $event);" style="padding-top: 10px">
                            <span class="pficon pficon-close"></span>
                        </div>
                        <div class="row">
                            <div class="col-md-12">
                                <dl class="dl-horizontal">
                                    <dt>{{:: 'authz-associated-policies' | translate}}</dt>
                                    <dd>
                                        <span data-ng-show="policy.associatedPolicies && !policy.associatedPolicies.length">{{::
'authz-no-policies-available' | translate}}</span>
                                        <span ng-repeat="dep in policy.associatedPolicies" data-ng-
show="policy.associatedPolicies.length > 0"><a
href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/{{dep.type == 'scope' || dep.type ==
'resource' ? 'permission' : 'policy'}}/{{dep.type}}/{{dep.id}}">{{dep.name}}</a>{{$last ? '' : ', '}}</span>
                                    </dd>
                                </dl>
                            </div>
                        </div>
                    </div>
                </td>
            </tr>
            <tr data-ng-show="(policies | filter:search).length == 0">
                <td class="text-muted" colspan="3" data-ng-show="search.name">{{:: 'no-results' | translate}}</td>
                <td class="text-muted" colspan="3" data-ng-hide="search.name">{{:: 'authz-no-permissions-available' |
translate}}</td>
            </tr>
        </tbody>
    </table>
</div>

<kc-menu></kc-menu>
```

```
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

  <ol class="breadcrumb">
    <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
    <li data-ng-show="create">{{:: 'authz-add-scope-permission' | translate}}</li>
    <li data-ng-hide="create">{{originalPolicy.name}}</li>
  </ol>

  <h1 data-ng-show="create">{{:: 'authz-add-scope-permission' | translate}}</h1>
  <h1 data-ng-hide="create">{{originalPolicy.name|capitalize}}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>

  <form class="form-horizontal" name="clientForm" novalidate>
    <fieldset class="border-top">
      <div class="form-group">
        <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} <span
class="required">*</span></label>
        <div class="col-sm-6">
          <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
        </div>
        <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>
      </div>
      <div class="form-group">
        <label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
        <div class="col-sm-6">
          <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
        </div>
        <kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
      </div>
      <div class="form-group clearfix">
        <label class="col-md-2 control-label" for="resources">{{:: 'authz-resource' | translate}}</label>

        <div class="col-md-6">
          <input type="hidden" ui-select2="resourcesUiSelect" data-ng-change="selectResource()"
id="resources" data-ng-model="selectedResource" data-placeholder="{{:: 'authz-any-resource' | translate}}..." />
        </div>
        <kc-tooltip>{{:: 'authz-permission-scope-resource.tooltip' | translate}}</kc-tooltip>
      </div>
      <div class="form-group clearfix" data-ng-show="selectedResource">
        <label class="col-md-2 control-label" for="resourceScopes">{{:: 'authz-scopes' | translate}} <span
class="required">*</span></label>
```

```
<div class="col-md-6">
    <select ui-select2 id="resourceScopes"
            data-ng-model="selectedScopes"
            data-placeholder="{{:: 'authz-any-scope' | translate}}..." multiple
            data-ng-required="selectedResource != null">
        <option ng-repeat="scope in resourceScopes" value="{{scope.id}}">{{scope.name}}</option>
    </select>
</div>
<kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-show="!selectedResource">
    <label class="col-md-2 control-label" for="scopes">{{:: 'authz-scopes' | translate}} <span
class="required">*</span></label>

    <div class="col-md-6">
        <input type="hidden" ui-select2="scopesUiSelect" id="scopes" data-ng-model="selectedScopes" data-
placeholder="{{:: 'authz-any-scope' | translate}}..." multiple data-ng-required="selectedResource == null" />
    </div>
    <kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
    <label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
    <div class="col-sm-6">
        <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
            <thead>
            <tr>
                <th class="kc-table-actions" colspan="2">
                    <div class="form-inline col-md-12" style="width: 107%">
                        <div class="form-group" style="width: 100%">
                            <div class="input-group" style="width: 100%">
                                <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
                            </div>
                        </div>
                    </div>
                </th>
                <th class="kc-table-actions">
                    <div class="pull-right" style="width: 100%">
                        <select id="create-policy" class="form-control" ng-model="policyType"
                                ng-options="p.name for p in policyProviders track by p.type"
                                data-ng-change="addPolicy(policyType);"
                                data-ng-hide="historyBackOnSaveOrCancel">
                            <option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
                        </select>
                    </div>
                </th>
            </tr>
```

```
<tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
    <th>{{:: 'name' | translate}}</th>
    <th>{{:: 'description' | translate}}</th>
    <th width="20%">{{:: 'actions' | translate}}</th>
</tr>
</thead>
<tbody>
<tr ng-repeat="policy in selectedPolicies">
    <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{policy.name}}</a></td>
    <td data-ng-show="historyBackOnSaveOrCancel">{{policy.name}}</td>
    <td>{{policy.description}}</td>
    <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
        {{:: 'remove' | translate}}
    </td>
</tr>
<tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
    <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
</tr>
</tbody>
</table>
</div>
<kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
<label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>

    <div class="col-sm-2">
        <select class="form-control" id="decisionStrategy"
            data-ng-model="policy.decisionStrategy"
            ng-change="selectDecisionStrategy()">
        <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
        <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate}}</option>
        <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
        </select>
    </div>

    <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
</div>
<input type="hidden" data-ng-model="policy.type"/>
</fieldset>
<div class="form-group" data-ng-show="access.manageAuthorization">
    <div class="col-md-10 col-md-offset-2">
        <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
```

```
            <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
        </div>
    </div>
  </form>
</div>

<kc-menu></kc-menu>
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

  <ol class="breadcrumb">
    <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
    <li data-ng-show="create">{{:: 'authz-add-resource-permission' | translate}}</li>
    <li data-ng-hide="create">{{originalPolicy.name}}</li>
  </ol>

  <h1 data-ng-show="create">{{:: 'authz-add-resource-permission' | translate}}</h1>
  <h1 data-ng-hide="create">{{originalPolicy.name|capitalize}}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>

  <form class="form-horizontal" name="clientForm" novalidate>
    <fieldset class="border-top">
      <div class="form-group">
        <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} <span
class="required">*</span></label>
        <div class="col-sm-6">
          <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
        </div>
        <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>
      </div>
      <div class="form-group">
        <label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
        <div class="col-sm-6">
          <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
        </div>
        <kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
      </div>
      <div class="form-group">
        <label class="col-md-2 control-label" for="applyToResourceTypeFlag">{{:: 'authz-permission-resource-
apply-to-resource-type' | translate}}</label>
        <div class="col-md-6">
          <input ng-model="applyToResourceTypeFlag" id="applyToResourceTypeFlag" onoffswitch data-ng-
```

```
click="applyToResourceType()"/>
        </div>
        <kc-tooltip>{{:: 'authz-permission-resource-apply-to-resource-type.tooltip' | translate}}</kc-tooltip>
    </div>
    <div class="form-group clearfix" data-ng-hide="applyToResourceTypeFlag">
        <label class="col-md-2 control-label" for="resources">{{:: 'authz-resources' | translate}} <span
class="required">*</span></label>

        <div class="col-md-6">
            <input type="hidden" ui-select2="resourcesUiSelect" id="resources" data-ng-model="selectedResource"
data-placeholder="{{:: 'authz-select-resource' | translate}}..." data-ng-required="!applyToResourceTypeFlag"/>
        </div>
        <kc-tooltip>{{:: 'authz-permission-resource-resource.tooltip' | translate}}</kc-tooltip>
    </div>
    <div class="form-group clearfix" data-ng-show="applyToResourceTypeFlag">
        <label class="col-md-2 control-label" for="resourceType">{{:: 'authz-resource-type' | translate}} <span
class="required">*</span></label>

        <div class="col-md-6">
            <input class="form-control" type="text" id="resourceType" name="policy.resourceType" data-ng-
model="policy.resourceType" data-ng-required="applyToResourceTypeFlag">
        </div>

        <kc-tooltip>{{:: 'authz-permission-resource-type.tooltip' | translate}}</kc-tooltip>
    </div>
    <div class="form-group clearfix">
        <label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
        <div class="col-sm-6">
            <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
                <thead>
                <tr>
                    <th class="kc-table-actions" colspan="2">
                        <div class="form-inline col-md-12" style="width: 107%">
                            <div class="form-group" style="width: 100%">
                                <div class="input-group" style="width: 100%">
                                    <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
                                </div>
                            </div>
                        </div>
                    </th>
                    <th class="kc-table-actions">
                        <div class="pull-right" style="width: 100%">
                            <select id="create-policy" class="form-control" ng-model="policyType"
                                ng-options="p.name for p in policyProviders track by p.type"
                                data-ng-change="addPolicy(policyType);"
                                data-ng-hide="historyBackOnSaveOrCancel">
```

```
                <option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
              </select>
            </div>
          </th>
        </tr>
        <tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
          <th>{{:: 'name' | translate}}</th>
          <th>{{:: 'description' | translate}}</th>
          <th width="20%">{{:: 'actions' | translate}}</th>
        </tr>
        </thead>
        <tbody>
        <tr ng-repeat="policy in selectedPolicies">
          <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{policy.name}}</a></td>
          <td data-ng-show="historyBackOnSaveOrCancel">{{policy.name}}</td>
          <td>{{policy.description}}</td>
          <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
            {{:: 'remove' | translate}}
          </td>
        </tr>
        <tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
          <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
        </tr>
        </tbody>
      </table>
    </div>
    <kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
  </div>
  <div class="form-group clearfix">
    <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>

    <div class="col-sm-2">
      <select class="form-control" id="decisionStrategy"
          data-ng-model="policy.decisionStrategy"
          ng-change="selectDecisionStrategy()">
        <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
        <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate}}</option>
        <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
      </select>
    </div>

    <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
  </div>
```

```
        <input type="hidden" data-ng-model="policy.type"/>
      </fieldset>

      <div class="form-group" data-ng-show="access.manageAuthorization">
        <div class="col-md-10 col-md-offset-2">
          <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
          <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
        </div>
      </div>
    </form>
  </div>

  <kc-menu></kc-menu>
```
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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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getScopes()Ljava/util/List;java/util/ListcontainsgetNameput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Obje ct;5(Ljava/util/Map;Ljava/lang/String;II)Ljava/util/List;isEmpty()Z(Ljava/lang/String;Ljava/lang/String;Ljava/lang/ String;Lorg/keycloak/authorization/model/ResourceServer;)Lorg/keycloak/authorization/model/PermissionTicket; isGrantedjava/lang/SystemcurrentTimeMillis()Jjava/lang/LongvalueOf(J)Ljava/lang/Long;setGrantedTimestamp(Lj ava/lang/Long;)V/org/keycloak/models/utils/ModelToRepresentationtoRepresentation(Lorg/keycloak/authorization/ model/PermissionTicket;Lorg/keycloak/authorization/AuthorizationProvider;)Lorg/keycloak/representations/idm/au thorization/PermissionTicketRepresentation;javax/ws/rs/core/Responseok?(Ljava/lang/Object;)Ljavax/ws/rs/core/Re sponse$ResponseBuilder;build()Ljavax/ws/rs/core/Response;Y(Ljava/lang/String;Ljava/lang/String;)Lorg/keycloak/ authorization/model/PermissionTicket;isResourceServer/org/keycloak/models/utils/RepresentationToModeltoModel (Lorg/keycloak/representations/idm/authorization/PermissionTicketRepresentation;Ljava/lang/String;Lorg/keycloak /authorization/AuthorizationProvider;)Lorg/keycloak/authorization/model/PermissionTicket; noContent-

()Ljavax/ws/rs/core/Response$ResponseBuilder;-()Lorg/keycloak/authorization/model/Resource;-(Ljava/lang/Object;)Ljava/lang/StringBuilder;(Ljava/lang/String;)VintValue()Istream()Ljava/util/stream/Stream;&(Ljava/lang/Object;)Ljava/lang/Object;j(Lorg/keycloak/authorization/model/PermissionTicket;)Lorg/keycloak/representations/idm/authorization/PermissionTicketRepresentation;apply|(Lorg/keycloak/authorization/protection/permission/PermissionTicketService;Ljava/lang/Boolean;)Ljava/util/function/Function;java/util/stream/Streammap8(Ljava/util/function/Function;)Ljava/util/stream/Stream;java/util/stream/CollectorstoList()Ljava/util/stream/Collector;collect0(Ljava/util/stream/Collector;)Ljava/lang/Object;entityusersbooleanValue(Lorg/keycloak/authorization/model/PermissionTicket;Lorg/keycloak/authorization/AuthorizationProvider;Z)Lorg/keycloak/representations/idm/authorization/PermissionTicketRepresentation;"java/lang/invoke/LambdaMetafactorymetafactoryLookup(Ljava/lang/invoke/MethodHandles$Lookup;Ljava/lang/String;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodType;Ljava/lang/invoke/MethodHandle;Ljava/lang/invoke/MethodType;)Ljava/lang/invoke/CallSite;%java/lang/invoke/MethodHandles$Lookupjava/lang/invoke/MethodHandles!jklmnopqrstl**+*,*-u?@ ABCv*wxnopqlmyzt*M+Y

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ommon/KeycloakIdentity

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/representations/AccessToken;O(Ljava/util/List;Ljava/lang/String;Lorg/keycloak/representations/AccessToken;)V
getClaims()Ljava/util/Map;putAll(Ljava/util/Map;)V

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ang/Object;)Lorg/keycloak/jose/jws/JWSBuilder$EncodingBuilder;

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rity/PrivateKey;)Ljava/lang/String;()Ljava/util/List;

e+(Lorg/keycloak/authorization/model/Scope;)Ztest2(Ljava/lang/String;)Ljava/util/function/Predicate;filter9(Ljava/
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apply()Ljava/util/function/Function;computeIfAbsentC(Ljava/lang/Object;Ljava/util/function/Function;)Ljava/lang/ Object;get#org/keycloak/authorization/Decision

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permission:Lorg/keycloak/authorization/permission/ResourcePermission;effectEffectInnerClasses,Lorg/keycloak/authorization/Decision$Effect;decisionLocalVariableTypeTableLjava/util/Map<Lorg/keycloak/authorization/model/Policy;Ljava/util/Map<Ljava/lang/Object;Lorg/keycloak/authorization/Decision$Effect;>;>;OLjava/util/Map<Ljava/lang/Object;Lorg/keycloak/authorization/Decision$Effect;>;

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org/keycloak/authorization/model/Resource;Ljava/util/List;Lorg/keycloak/authorization/model/ResourceServer;Ljava/util/Map;)VentryEntryInnerClassesLjava/util/Map$Entry;TLjava/util/Map$Entry<Ljava/lang/String;+Ljava/util/Collection<Ljava/lang/String;>;>;

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&(Ljava/lang/Object;)Ljava/lang/Object;

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  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

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  be optional: if the application does not supply it, the square
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 If such an object file uses only numerical parameters, data
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David Megginson, david@megginson.com
2000-05-05

```
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

  <ol class="breadcrumb">
    <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
  </ol>

  <kc-tabs-resource-server></kc-tabs-resource-server>

  <table class="table table-striped table-bordered">
    <thead>
      <tr>
        <th class="kc-table-actions" colspan="5">
          <div class="form-inline">
            <div class="form-group">
              {{:: 'filter' | translate}}:  
              <div class="input-group">
                <input type="text" placeholder="{{:: 'name' | translate}}" data-ng-model="query.name"
class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
                <div class="input-group-addon">
                  <i class="fa fa-search" id="policySearch" type="submit" data-ng-click="firstPage()"></i>
                </div>
              </div>
              <div class="input-group">
                <input type="text" placeholder="{{:: 'authz-resource' | translate}}" data-ng-
```

```
model="query.resource" class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
                    <div class="input-group-addon">
                        <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
                    </div>
                </div>
                <div class="input-group">
                    <input type="text" placeholder="{{:: 'authz-scope' | translate}}" data-ng-model="query.scope"
class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
                    <div class="input-group-addon">
                        <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
                    </div>
                </div>
                <div class="input-group">
                    <select class="form-control search" data-ng-model="query.type"
                        ng-options="p.type as p.name group by p.group for p in policyProviders track by p.type"
data-ng-change="firstPage()">
                        <option value="" selected ng-click="query.type = ''">{{:: 'authz-all-types' |
translate}}</option>
                    </select>
                </div>
            </div>
            <div class="pull-right">
                <select class="form-control" ng-model="policyType"
                    ng-options="p.name for p in policyProviders track by p.type"
                    id="create-permission"
                    data-ng-change="addPolicy(policyType);">
                    <option value="" disabled selected>{{:: 'authz-create-permission' | translate}}...</option>
                </select>
            </div>
        </div>
    </th>
</tr>
<tr data-ng-hide="policies.length == 0">
    <th width="1%"></th>
    <th>{{:: 'name' | translate}}</th>
    <th>{{:: 'description' | translate}}</th>
    <th width="7%">{{:: 'type' | translate}}</th>
    <th width="6%" style="text-align: center;">{{:: 'actions' | translate}}</th>
</tr>
</thead>
<tfoot data-ng-show="policies && (policies.length >= query.max || query.first > 0)">
<tr>
    <td colspan="5">
        <div class="table-nav">
            <button data-ng-click="firstPage()" class="first" ng-disabled="query.first == 0">{{:: 'first-page' |
translate}}</button>
```

```
                <button data-ng-click="previousPage()" class="prev" ng-disabled="query.first == 0">{{:: 'previous-
page' | translate}}</button>
                <button data-ng-click="nextPage()" class="next" ng-disabled="policies.length < query.max">{{:: 'next-
page' | translate}}</button>
              </div>
            </td>
          </tr>
        </tfoot>
        <tbody>
          <tr ng-repeat-start="policy in policies | filter: {name: search.name, type: search.type} | orderBy:'name'" data-
ng-click="showDetails(policy, $event);" style="cursor: pointer">
            <td>
              <span ng-if="!policy.details || !policy.details.loaded" class="fa fa-angle-right"></span>
              <span ng-if="policy.details && policy.details.loaded" class="fa fa-angle-right fa-angle-down"></span>
            </td>
            <td><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-
server/permission/{{policy.type}}/{{policy.id}}">{{policy.name}}</a></td>
            <td>{{policy.description}}</td>
            <td>{{policy.type}}</td>
            <td align="center">
              <div class="dropdown dropdown-kebab-pf">
                <button class="btn btn-default" ng-click="delete(policy);">{{:: 'delete' | translate}}
                </button>
              </div>
            </td>
          </tr>
          <tr ng-if="policy.details && policy.details.loaded" ng-repeat-end="">
            <td colspan="5" style="background-color: #ffffff">
              <div class="list-group-item-container container-fluid">
                <div class="close" data-ng-click="showDetails(policy, $event);" style="padding-top: 10px">
                  <span class="pficon pficon-close"></span>
                </div>
                <div class="row">
                  <div class="col-md-12">
                    <dl class="dl-horizontal">
                      <dt>{{:: 'authz-associated-policies' | translate}}</dt>
                      <dd>
                        <span data-ng-show="policy.associatedPolicies && !policy.associatedPolicies.length">{{::
'authz-no-policies-available' | translate}}</span>
                        <span ng-repeat="dep in policy.associatedPolicies" data-ng-
show="policy.associatedPolicies.length > 0"><a
href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/{{dep.type == 'scope' || dep.type ==
'resource' ? 'permission' : 'policy'}}/{{dep.type}}/{{dep.id}}">{{dep.name}}</a>{{$last ? '' : ', '}}</span>
                      </dd>
                    </dl>
                  </div>
                </div>
              </div>
```

```
        </td>
      </tr>
      <tr data-ng-show="(policies | filter:search).length == 0">
        <td class="text-muted" colspan="3" data-ng-show="search.name">{{:: 'no-results' | translate}}</td>
        <td class="text-muted" colspan="3" data-ng-hide="search.name">{{:: 'authz-no-permissions-available' |
translate}}</td>
      </tr>
    </tbody>
  </table>
</div>


<kc-menu></kc-menu>
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

  <ol class="breadcrumb">
    <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
    <li data-ng-show="create">{{:: 'authz-add-scope-permission' | translate}}</li>
    <li data-ng-hide="create">{{originalPolicy.name}}</li>
  </ol>


  <h1 data-ng-show="create">{{:: 'authz-add-scope-permission' | translate}}</h1>
  <h1 data-ng-hide="create">{{originalPolicy.name|capitalize}}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>

  <form class="form-horizontal" name="clientForm" novalidate>
    <fieldset class="border-top">
      <div class="form-group">
        <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} <span
class="required">*</span></label>
        <div class="col-sm-6">
          <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
        </div>
        <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>
      </div>
      <div class="form-group">
        <label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
        <div class="col-sm-6">
          <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
        </div>
        <kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
      </div>
```

```
<div class="form-group clearfix">
    <label class="col-md-2 control-label" for="resources">{{:: 'authz-resource' | translate}}</label>

    <div class="col-md-6">
        <input type="hidden" ui-select2="resourcesUiSelect" data-ng-change="selectResource()"
id="resources" data-ng-model="selectedResource" data-placeholder="{{:: 'authz-any-resource' | translate}}..." />
    </div>
    <kc-tooltip>{{:: 'authz-permission-scope-resource.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-show="selectedResource">
    <label class="col-md-2 control-label" for="resourceScopes">{{:: 'authz-scopes' | translate}} <span
class="required">*</span></label>
    <div class="col-md-6">
        <select ui-select2 id="resourceScopes"
            data-ng-model="selectedScopes"
            data-placeholder="{{:: 'authz-any-scope' | translate}}..." multiple
            data-ng-required="selectedResource != null">
          <option ng-repeat="scope in resourceScopes" value="{{scope.id}}">{{scope.name}}</option>
        </select>
    </div>
    <kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-show="!selectedResource">
    <label class="col-md-2 control-label" for="scopes">{{:: 'authz-scopes' | translate}} <span
class="required">*</span></label>

    <div class="col-md-6">
        <input type="hidden" ui-select2="scopesUiSelect" id="scopes" data-ng-model="selectedScopes" data-
placeholder="{{:: 'authz-any-scope' | translate}}..." multiple data-ng-required="selectedResource == null" />
    </div>
    <kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
    <label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
    <div class="col-sm-6">
        <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
          <thead>
          <tr>
            <th class="kc-table-actions" colspan="2">
                <div class="form-inline col-md-12" style="width: 107%">
                  <div class="form-group" style="width: 100%">
                    <div class="input-group" style="width: 100%">
                        <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
                    </div>
                  </div>
                </div>
```

```
                </th>
                <th class="kc-table-actions">
                  <div class="pull-right" style="width: 100%">
                    <select id="create-policy" class="form-control" ng-model="policyType"
                         ng-options="p.name for p in policyProviders track by p.type"
                         data-ng-change="addPolicy(policyType);"
                         data-ng-hide="historyBackOnSaveOrCancel">
                      <option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
                    </select>
                  </div>
                </th>
              </tr>
              <tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
                <th>{{:: 'name' | translate}}</th>
                <th>{{:: 'description' | translate}}</th>
                <th width="20%">{{:: 'actions' | translate}}</th>
              </tr>
            </thead>
            <tbody>
            <tr ng-repeat="policy in selectedPolicies">
              <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{policy.name}}</a></td>
              <td data-ng-show="historyBackOnSaveOrCancel">{{policy.name}}</td>
              <td>{{policy.description}}</td>
              <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
                  {{:: 'remove' | translate}}
              </td>
            </tr>
            <tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
              <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
            </tr>
            </tbody>
          </table>
        </div>
        <kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
      </div>
      <div class="form-group clearfix">
        <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>

        <div class="col-sm-2">
          <select class="form-control" id="decisionStrategy"
              data-ng-model="policy.decisionStrategy"
              ng-change="selectDecisionStrategy()">
            <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
            <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
```

```
translate}}</option>
                <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
              </select>
            </div>

            <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
          </div>
          <input type="hidden" data-ng-model="policy.type"/>
        </fieldset>
        <div class="form-group" data-ng-show="access.manageAuthorization">
          <div class="col-md-10 col-md-offset-2">
            <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
            <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
          </div>
        </div>
      </form>
</div>


<kc-menu></kc-menu>
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

  <ol class="breadcrumb">
    <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
    <li data-ng-show="create">{{:: 'authz-add-resource-permission' | translate}}</li>
    <li data-ng-hide="create">{{originalPolicy.name}}</li>
  </ol>

  <h1 data-ng-show="create">{{:: 'authz-add-resource-permission' | translate}}</h1>
  <h1 data-ng-hide="create">{{originalPolicy.name|capitalize}}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>

  <form class="form-horizontal" name="clientForm" novalidate>
    <fieldset class="border-top">
      <div class="form-group">
        <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} <span
class="required">*</span></label>
        <div class="col-sm-6">
          <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
        </div>
        <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>
      </div>
      <div class="form-group">
```

```
<label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
<div class="col-sm-6">
    <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
</div>
<kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group">
    <label class="col-md-2 control-label" for="applyToResourceTypeFlag">{{:: 'authz-permission-resource-
apply-to-resource-type' | translate}}</label>
    <div class="col-md-6">
        <input ng-model="applyToResourceTypeFlag" id="applyToResourceTypeFlag" onoffswitch data-ng-
click="applyToResourceType()"/>
    </div>
    <kc-tooltip>{{:: 'authz-permission-resource-apply-to-resource-type.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-hide="applyToResourceTypeFlag">
    <label class="col-md-2 control-label" for="resources">{{:: 'authz-resources' | translate}} <span
class="required">*</span></label>

    <div class="col-md-6">
        <input type="hidden" ui-select2="resourcesUiSelect" id="resources" data-ng-model="selectedResource"
data-placeholder="{{:: 'authz-select-resource' | translate}}..." data-ng-required="!applyToResourceTypeFlag"/>
    </div>
    <kc-tooltip>{{:: 'authz-permission-resource-resource.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-show="applyToResourceTypeFlag">
    <label class="col-md-2 control-label" for="resourceType">{{:: 'authz-resource-type' | translate}} <span
class="required">*</span></label>

    <div class="col-md-6">
        <input class="form-control" type="text" id="resourceType" name="policy.resourceType" data-ng-
model="policy.resourceType" data-ng-required="applyToResourceTypeFlag">
    </div>

    <kc-tooltip>{{:: 'authz-permission-resource-type.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
    <label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
    <div class="col-sm-6">
        <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
            <thead>
            <tr>
                <th class="kc-table-actions" colspan="2">
                    <div class="form-inline col-md-12" style="width: 107%">
                        <div class="form-group" style="width: 100%">
                            <div class="input-group" style="width: 100%">
                                <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
```

```
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
                            </div>
                          </div>
                        </div>
                      </th>
                      <th class="kc-table-actions">
                        <div class="pull-right" style="width: 100%">
                          <select id="create-policy" class="form-control" ng-model="policyType"
                              ng-options="p.name for p in policyProviders track by p.type"
                              data-ng-change="addPolicy(policyType);"
                              data-ng-hide="historyBackOnSaveOrCancel">
                            <option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
                          </select>
                        </div>
                      </th>
                    </tr>
                    <tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
                      <th>{{:: 'name' | translate}}</th>
                      <th>{{:: 'description' | translate}}</th>
                      <th width="20%">{{:: 'actions' | translate}}</th>
                    </tr>
                  </thead>
                  <tbody>
                    <tr ng-repeat="policy in selectedPolicies">
                      <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{policy.name}}</a></td>
                      <td data-ng-show="historyBackOnSaveOrCancel">{{policy.name}}</td>
                      <td>{{policy.description}}</td>
                      <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
                          {{:: 'remove' | translate}}
                      </td>
                    </tr>
                    <tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
                      <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
                    </tr>
                  </tbody>
                </table>
              </div>
              <kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
            </div>
            <div class="form-group clearfix">
              <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>

              <div class="col-sm-2">
                <select class="form-control" id="decisionStrategy"
```

```
                    data-ng-model="policy.decisionStrategy"
                    ng-change="selectDecisionStrategy()">
                <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
                <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate}}</option>
                <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
            </select>
        </div>

        <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
    </div>
    <input type="hidden" data-ng-model="policy.type"/>
  </fieldset>

  <div class="form-group" data-ng-show="access.manageAuthorization">
    <div class="col-md-10 col-md-offset-2">
      <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
      <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
    </div>
  </div>
 </form>
</div>

<kc-menu></kc-menu>
```

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2.504 keycloak-server-spi 4.4.0.Final

2.505 keycloak-server-spi-private 4.4.0.Final
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package org.keycloak.authorization.permission.evaluator;

import java.util.Collection;

import org.keycloak.authorization.Decision;

import org.keycloak.authorization.model.ResourceServer;

import org.keycloak.representations.idm.authorization.AuthorizationRequest;

import org.keycloak.representations.idm.authorization.Permission;

/**

* An {@link PermissionEvaluator} represents a source of {@link

org.keycloak.authorization.permission.ResourcePermission}, responsible for emitting these permissions

* to a consumer in order to evaluate the authorization policies based on a {@link

org.keycloak.authorization.policy.evaluation.EvaluationContext}.

*

* @author Pedro Igor

*/
public interface PermissionEvaluator {

  <D extends Decision> D evaluate(D decision);

  Collection<Permission> evaluate(ResourceServer resourceServer, AuthorizationRequest request);

}

package org.keycloak.authorization.permission.evaluator;

import java.util.Collection;

import java.util.HashMap;

```java
import java.util.Iterator;
import java.util.Map;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DecisionPermissionCollector;
import org.keycloak.authorization.policy.evaluation.EvaluationContext;
import org.keycloak.authorization.policy.evaluation.PolicyEvaluator;
import org.keycloak.representations.idm.authorization.AuthorizationRequest;
import org.keycloak.representations.idm.authorization.Permission;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
class IterablePermissionEvaluator implements PermissionEvaluator {

    private final Iterator<ResourcePermission> permissions;
    private final EvaluationContext executionContext;
    private final PolicyEvaluator policyEvaluator;
    private final AuthorizationProvider authorizationProvider;

    IterablePermissionEvaluator(Iterator<ResourcePermission> permissions, EvaluationContext executionContext,
AuthorizationProvider authorizationProvider) {
        this.permissions = permissions;
        this.executionContext = executionContext;
        this.authorizationProvider = authorizationProvider;
        this.policyEvaluator = authorizationProvider.getPolicyEvaluator();
    }

    @Override
    public Decision evaluate(Decision decision) {
        try {
            Map<Policy, Map<Object, Decision.Effect>> decisionCache = new HashMap<>();

            while (this.permissions.hasNext()) {
                this.policyEvaluator.evaluate(this.permissions.next(), authorizationProvider, executionContext, decision,
decisionCache);
            }

            decision.onComplete();
        } catch (Throwable cause) {
            decision.onError(cause);
        }
        return decision;
    }
```

```java
    @Override
    public Collection<Permission> evaluate(ResourceServer resourceServer, AuthorizationRequest request) {
        DecisionPermissionCollector decision = new DecisionPermissionCollector(authorizationProvider,
resourceServer, request);

        evaluate(decision);

        return decision.results();
    }
}
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 */

package org.keycloak.authorization.permission.evaluator;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.EvaluationContext;

import java.util.Collection;

/**
 * A factory for the different {@link PermissionEvaluator} implementations.
 *
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public final class Evaluators {

  private final AuthorizationProvider authorizationProvider;

  public Evaluators(AuthorizationProvider authorizationProvider) {
      this.authorizationProvider = authorizationProvider;
```

```
    }

    public PermissionEvaluator from(Collection<ResourcePermission> permissions, EvaluationContext
evaluationContext) {
        return new IterablePermissionEvaluator(permissions.iterator(), evaluationContext, authorizationProvider);
    }
}
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 */

package org.keycloak.authorization.permission;

import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.model.Scope;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;

/**
 * Represents a permission for a given resource.
 *
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class ResourcePermission {
```

```java
    private final Resource resource;
    private final List<Scope> scopes;
    private ResourceServer resourceServer;
    private Map<String, Set<String>> claims;

    public ResourcePermission(Resource resource, List<Scope> scopes, ResourceServer resourceServer) {
        this(resource, scopes, resourceServer, null);
    }

    public ResourcePermission(Resource resource, ResourceServer resourceServer, Map<String, ? extends
Collection<String>> claims) {
        this(resource, new ArrayList<>(resource.getScopes()), resourceServer, claims);
    }

    public ResourcePermission(Resource resource, List<Scope> scopes, ResourceServer resourceServer, Map<String,
? extends Collection<String>> claims) {
        this.resource = resource;
        this.scopes = scopes;
        this.resourceServer = resourceServer;
        if (claims != null) {
            this.claims = new HashMap<>();
            for (Entry<String, ? extends Collection<String>> entry : claims.entrySet()) {
                this.claims.computeIfAbsent(entry.getKey(), key -> new LinkedHashSet<>()).addAll(entry.getValue());
            }
        }
    }

    /**
     * Returns the resource to which this permission applies.
     *
     * @return the resource to which this permission applies
     */
    public Resource getResource() {
        return this.resource;
    }

    /**
     * Returns a list of permitted scopes associated with the resource
     *
     * @return a lit of permitted scopes
     */
    public List<Scope> getScopes() {
        return this.scopes;
    }

    /**
     * Returns the resource server associated with this permission.
```

```
 *
 * @return the resource server
 */
public ResourceServer getResourceServer() {
    return this.resourceServer;
}

/**
 * Returns all permission claims.
 *
 * @return
 */
public Map<String, Set<String>> getClaims() {
    if (claims == null) {
        return Collections.emptyMap();
    }
    return Collections.unmodifiableMap(claims);
}

/**
 * <p>Adds a permission claim with the given name and a single value.
 *
 * <p>If a claim already exists, the value is added to list of values of the existing claim</p>
 *
 * @param name the name of the claim
 * @param value the value of the claim
 */
public boolean addClaim(String name, String value) {
    if (claims == null) {
        claims = new HashMap<>();
    }
    return claims.computeIfAbsent(name, key -> new HashSet<>()).add(value);
}

/**
 * <p>Removes a permission claim.
 *
 *
 * @param name the name of the claim
 */
public void removeClaim(String name) {
    if (claims != null) {
        claims.remove(name);
    }
}

public void addScope(Scope scope) {
    if (resource != null) {
```

```
        if (!resource.getScopes().contains(scope)) {
            return;
        }
    }

    if (!scopes.contains(scope)) {
        scopes.add(scope);
    }
}

public void addClaims(Map<String, Set<String>> claims) {
    if (this.claims == null) {
        this.claims = new HashMap<>();
    }
    this.claims.putAll(claims);
}
}
```

2.506 keycloak-services 4.4.0.Final

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*/
package org.keycloak.authorization.protection.permission;

import org.keycloak.OAuthErrorException;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.PermissionTicket;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.store.PermissionTicketStore;
import org.keycloak.authorization.store.StoreFactory;
```

```java
import org.keycloak.models.Constants;
import org.keycloak.models.RealmModel;
import org.keycloak.models.UserProvider;
import org.keycloak.models.utils.ModelToRepresentation;
import org.keycloak.models.utils.RepresentationToModel;
import org.keycloak.representations.idm.authorization.PermissionTicketRepresentation;
import org.keycloak.services.ErrorResponseException;

import javax.ws.rs.Consumes;
import javax.ws.rs.DELETE;
import javax.ws.rs.GET;
import javax.ws.rs.POST;
import javax.ws.rs.PUT;
import javax.ws.rs.Produces;
import javax.ws.rs.QueryParam;
import javax.ws.rs.core.Response;
import java.util.HashMap;
import java.util.Map;
import java.util.stream.Collectors;
import javax.ws.rs.Path;
import javax.ws.rs.PathParam;
import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.store.ResourceStore;
import org.keycloak.authorization.store.ScopeStore;
import org.keycloak.models.UserModel;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class PermissionTicketService {

  private final AuthorizationProvider authorization;
  private final KeycloakIdentity identity;
  private final ResourceServer resourceServer;

  public PermissionTicketService(KeycloakIdentity identity, ResourceServer resourceServer, AuthorizationProvider authorization) {
    this.identity = identity;
    this.resourceServer = resourceServer;
    this.authorization = authorization;
  }

  @POST
  @Consumes("application/json")
  @Produces("application/json")
  public Response create(PermissionTicketRepresentation representation) {
    PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
```

```java
    if (representation == null)
        throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_permission",
Response.Status.BAD_REQUEST);
    if (representation.getId() != null)
        throw new ErrorResponseException("invalid_permission", "created permissions should not have id",
Response.Status.BAD_REQUEST);
    if (representation.getResource() == null)
        throw new ErrorResponseException("invalid_permission", "created permissions should have resource",
Response.Status.BAD_REQUEST);
    if (representation.getScope() == null && representation.getScopeName() == null)
        throw new ErrorResponseException("invalid_permission", "created permissions should have scope or
scopeName", Response.Status.BAD_REQUEST);
    if (representation.getRequester() == null && representation.getRequesterName() == null)
        throw new ErrorResponseException("invalid_permission", "created permissions should have requester or
requesterName", Response.Status.BAD_REQUEST);

    ResourceStore rstore = this.authorization.getStoreFactory().getResourceStore();
    Resource resource = rstore.findById(representation.getResource(), resourceServer.getId());
    if (resource == null ) throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" +
representation.getResource() + "] does not exists in this server.", Response.Status.BAD_REQUEST);

    if (!resource.getOwner().equals(this.identity.getId()))
        throw new ErrorResponseException("not_authorised", "permissions for [" + representation.getResource() +
"] can be only created by the owner", Response.Status.FORBIDDEN);

    UserModel user = null;
    if(representation.getRequester() != null)
        user =
this.authorization.getKeycloakSession().userStorageManager().getUserById(representation.getRequester(),
this.authorization.getRealm());
    else
        user =
this.authorization.getKeycloakSession().userStorageManager().getUserByUsername(representation.getRequesterNa
me(), this.authorization.getRealm());

    if (user == null)
        throw new ErrorResponseException("invalid_permission", "Requester does not exists in this server as user.",
Response.Status.BAD_REQUEST);

    Scope scope = null;
    ScopeStore sstore = this.authorization.getStoreFactory().getScopeStore();

    if(representation.getScopeName() != null)
        scope = sstore.findByName(representation.getScopeName(), resourceServer.getId());
    else
        scope = sstore.findById(representation.getScope(), resourceServer.getId());

    if (scope == null && representation.getScope() !=null )
```

```java
        throw new ErrorResponseException("invalid_scope", "Scope [" + representation.getScope() + "] is invalid",
Response.Status.BAD_REQUEST);
    if (scope == null && representation.getScopeName() !=null )
        throw new ErrorResponseException("invalid_scope", "Scope [" + representation.getScopeName() + "] is
invalid", Response.Status.BAD_REQUEST);

    boolean match = resource.getScopes().contains(scope);

    if (!match)
        throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" +
representation.getResource() + "] does not have Scope [" + scope.getName() + "]",
Response.Status.BAD_REQUEST);

    Map<String, String> attributes = new HashMap<String, String>();
    attributes.put(PermissionTicket.RESOURCE, resource.getId());
    attributes.put(PermissionTicket.SCOPE, scope.getId());
    attributes.put(PermissionTicket.REQUESTER, user.getId());

    if (!ticketStore.find(attributes, resourceServer.getId(), -1, -1).isEmpty())
        throw new ErrorResponseException("invalid_permission", "Permission already exists",
Response.Status.BAD_REQUEST);

    PermissionTicket ticket = ticketStore.create(resource.getId(), scope.getId(), user.getId(), resourceServer);
    if(representation.isGranted())
            ticket.setGrantedTimestamp(java.lang.System.currentTimeMillis());
    representation = ModelToRepresentation.toRepresentation(ticket, authorization);
    return Response.ok(representation).build();
}

@PUT
@Consumes("application/json")
public Response update(PermissionTicketRepresentation representation) {
    if (representation == null || representation.getId() == null) {
        throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
    PermissionTicket ticket = ticketStore.findById(representation.getId(), resourceServer.getId());

    if (ticket == null) {
        throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    if (!ticket.getOwner().equals(this.identity.getId()) && !this.identity.isResourceServer())
        throw new ErrorResponseException("not_authorised", "permissions for [" + representation.getResource() +
"] can be updated only by the owner or by the resource server", Response.Status.FORBIDDEN);
```

```java
        RepresentationToModel.toModel(representation, resourceServer.getId(), authorization);

        return Response.noContent().build();
    }


    @Path("{id}")
    @DELETE
    @Consumes("application/json")
    public Response delete(@PathParam("id") String id) {
        if (id == null) {
            throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
        }

        PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
        PermissionTicket ticket = ticketStore.findById(id, resourceServer.getId());

        if (ticket == null) {
            throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
        }

        if (!ticket.getOwner().equals(this.identity.getId()) && !this.identity.isResourceServer() &&
!ticket.getRequester().equals(this.identity.getId()))
            throw new ErrorResponseException("not_authorised", "permissions for [" + ticket.getResource() + "] can be
deleted only by the owner, the requester, or the resource server", Response.Status.FORBIDDEN);

        ticketStore.delete(id);

        return Response.noContent().build();
    }

    @GET
    @Produces("application/json")
    public Response find(@QueryParam("scopeId") String scopeId,
                @QueryParam("resourceId") String resourceId,
                @QueryParam("owner") String owner,
                @QueryParam("requester") String requester,
                @QueryParam("granted") Boolean granted,
                @QueryParam("returnNames") Boolean returnNames,
                @QueryParam("first") Integer firstResult,
                @QueryParam("max") Integer maxResult) {
        StoreFactory storeFactory = authorization.getStoreFactory();
        PermissionTicketStore permissionTicketStore = storeFactory.getPermissionTicketStore();

        Map<String, String> filters = new HashMap<>();
```

```java
        if (resourceId != null) {
            filters.put(PermissionTicket.RESOURCE, resourceId);
        }

        if (scopeId != null) {
            ScopeStore scopeStore = storeFactory.getScopeStore();
            Scope scope = scopeStore.findById(scopeId, resourceServer.getId());

            if (scope == null) {
                scope = scopeStore.findByName(scopeId, resourceServer.getId());
            }

            filters.put(PermissionTicket.SCOPE, scope != null ? scope.getId() : scopeId);
        }

        if (owner != null) {
            filters.put(PermissionTicket.OWNER, getUserId(owner));
        }

        if (requester != null) {
            filters.put(PermissionTicket.REQUESTER, getUserId(requester));
        }

        if (granted != null) {
            filters.put(PermissionTicket.GRANTED, granted.toString());
        }

        return Response.ok().entity(permissionTicketStore.find(filters, resourceServer.getId(), firstResult != null ?
firstResult : -1, maxResult != null ? maxResult : Constants.DEFAULT_MAX_RESULTS)
                .stream()
                    .map(permissionTicket -> ModelToRepresentation.toRepresentation(permissionTicket, authorization,
returnNames == null ? false : returnNames))
                    .collect(Collectors.toList()))
            .build();
    }

    private String getUserId(String userIdOrName) {
        UserProvider userProvider = authorization.getKeycloakSession().users();
        RealmModel realm = authorization.getRealm();
        UserModel userModel = userProvider.getUserById(userIdOrName, realm);

        if (userModel != null) {
            return userModel.getId();
        }

        userModel = userProvider.getUserByUsername(userIdOrName, realm);
```

```
        if (userModel != null) {
            return userModel.getId();
        }

        return userIdOrName;
    }
}
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*/
package org.keycloak.authorization.protection.permission;

import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.stream.Collectors;

import javax.ws.rs.core.Response;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.store.ResourceStore;
import org.keycloak.jose.jws.JWSBuilder;
import org.keycloak.models.ClientModel;
import org.keycloak.models.KeyManager;
import org.keycloak.representations.idm.authorization.Permission;
import org.keycloak.representations.idm.authorization.PermissionRequest;
import org.keycloak.representations.idm.authorization.PermissionResponse;
import org.keycloak.representations.idm.authorization.PermissionTicketToken;
```

```java
import org.keycloak.services.ErrorResponseException;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class AbstractPermissionService {

    private final AuthorizationProvider authorization;
    private final KeycloakIdentity identity;
    private final ResourceServer resourceServer;

    public AbstractPermissionService(KeycloakIdentity identity, ResourceServer resourceServer,
AuthorizationProvider authorization) {
        this.identity = identity;
        this.resourceServer = resourceServer;
        this.authorization = authorization;
    }

    public Response create(List<PermissionRequest> request) {
        if (request == null || request.isEmpty()) {
            throw new ErrorResponseException("invalid_permission_request", "Invalid permission request.",
Response.Status.BAD_REQUEST);
        }

        return Response.status(Response.Status.CREATED).entity(new
PermissionResponse(createPermissionTicket(request))).build();
    }

    private List<Permission> verifyRequestedResource(List<PermissionRequest> request) {
        ResourceStore resourceStore = authorization.getStoreFactory().getResourceStore();
        List<Permission> requestedResources = new ArrayList<>();

        for (PermissionRequest permissionRequest : request) {
            String resourceSetId = permissionRequest.getResourceId();
            List<Resource> resources = new ArrayList<>();

            if (resourceSetId == null) {
                if (permissionRequest.getScopes() == null || permissionRequest.getScopes().isEmpty()) {
                    throw new ErrorResponseException("invalid_resource_id", "Resource id or name not provided.",
Response.Status.BAD_REQUEST);
                }
            } else {
                Resource resource = resourceStore.findById(resourceSetId, resourceServer.getId());

                if (resource != null) {
                    resources.add(resource);
                } else {
                    Resource userResource = resourceStore.findByName(resourceSetId, identity.getId(),
```

```
this.resourceServer.getId());

                if (userResource != null) {
                    resources.add(userResource);
                }

                if (!identity.isResourceServer()) {
                    Resource serverResource = resourceStore.findByName(resourceSetId, this.resourceServer.getId());

                    if (serverResource != null) {
                        resources.add(serverResource);
                    }
                }
            }

            if (resources.isEmpty()) {
                throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" + resourceSetId + "]
does not exists in this server.", Response.Status.BAD_REQUEST);
            }
        }

        if (resources.isEmpty()) {
            requestedResources.add(new Permission(null, verifyRequestedScopes(permissionRequest, null)));
        } else {
            for (Resource resource : resources) {
                requestedResources.add(new Permission(resource.getId(), verifyRequestedScopes(permissionRequest,
resource)));
            }
        }
    }

    return requestedResources;
}

private Set<String> verifyRequestedScopes(PermissionRequest request, Resource resource) {
    Set<String> requestScopes = request.getScopes();

    if (requestScopes == null) {
        return Collections.emptySet();
    }

    ResourceStore resourceStore = authorization.getStoreFactory().getResourceStore();

    return requestScopes.stream().map(scopeName -> {
        Scope scope = null;

        if (resource != null) {
            scope = resource.getScopes().stream().filter(scope1 ->
```

```java
                scope1.getName().equals(scopeName)).findFirst().orElse(null);

                    if (scope == null && resource.getType() != null) {
                        scope = resourceStore.findByType(resource.getType(), resourceServer.getId()).stream()
                                .filter(baseResource -> baseResource.getOwner().equals(resource.getResourceServer().getId()))
                                .flatMap(resource1 -> resource1.getScopes().stream())
                                .filter(baseScope -> baseScope.getName().equals(scopeName)).findFirst().orElse(null);
                    }
                } else {
                    scope = authorization.getStoreFactory().getScopeStore().findByName(scopeName,
resourceServer.getId());
                }

                if (scope == null) {
                    throw new ErrorResponseException("invalid_scope", "Scope [" + scopeName + "] is invalid",
Response.Status.BAD_REQUEST);
                }

                return scope.getName();
            }).collect(Collectors.toSet());
    }

    private String createPermissionTicket(List<PermissionRequest> request) {
        List<Permission> permissions = verifyRequestedResource(request);

        KeyManager.ActiveRsaKey keys =
this.authorization.getKeycloakSession().keys().getActiveRsaKey(this.authorization.getRealm());
        ClientModel targetClient = authorization.getRealm().getClientById(resourceServer.getId());
        PermissionTicketToken token = new PermissionTicketToken(permissions, targetClient.getClientId(),
this.identity.getAccessToken());
        Map<String, List<String>> claims = new HashMap<>();

        for (PermissionRequest permissionRequest : request) {
            Map<String, List<String>> requestClaims = permissionRequest.getClaims();

            if (requestClaims != null) {
                claims.putAll(requestClaims);
            }
        }

        if (!claims.isEmpty()) {
            token.setClaims(claims);
        }

        return new JWSBuilder().kid(keys.getKid()).jsonContent(token)
                .rsa256(keys.getPrivateKey());
    }
}
```

```java
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 */
package org.keycloak.authorization.protection.permission;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.representations.idm.authorization.PermissionRequest;

import javax.ws.rs.Consumes;
import javax.ws.rs.POST;
import javax.ws.rs.Produces;
import javax.ws.rs.core.Response;
import java.util.List;

/**
 * @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
 */
public class PermissionService extends AbstractPermissionService {

    private final AuthorizationProvider authorization;
    private final ResourceServer resourceServer;

    public PermissionService(KeycloakIdentity identity, ResourceServer resourceServer, AuthorizationProvider
authorization) {
        super(identity, resourceServer, authorization);
        this.resourceServer = resourceServer;
        this.authorization = authorization;
    }

    @POST
    @Consumes("application/json")
    @Produces("application/json")
```

```
public Response create(List<PermissionRequest> request) {
    return super.create(request);
}

}
```

2.507 keycloak-servlet-adapter-spi 4.4.0.Final

2.508 keycloak-servlet-filter-adapter 4.4.0.Final

2.509 keycloak-servlet-oauth-client 4.4.0.Final

2.510 keycloak-spring-boot-2-adapter 4.4.0.Final

2.511 keycloak-spring-boot-adapter 4.4.0.Final

2.512 keycloak-spring-boot-adapter-core 4.4.0.Final

2.513 keycloak-spring-security-adapter 4.4.0.Final

2.514 keycloak-sssd-federation 4.4.0.Final

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  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  c) If distribution of the work is made by offering access to copy
  from a designated place, offer equivalent access to copy the above
  specified materials from the same place.

  d) Verify that the user has already received a copy of these
  materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
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facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
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ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

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school, if any, to sign a "copyright disclaimer" for the library, if
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 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

2.515 keycloak-themes 4.4.0.Final
2.515.1 Available under license :

```
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

  <ol class="breadcrumb">
    <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
  </ol>

  <kc-tabs-resource-server></kc-tabs-resource-server>

  <table class="table table-striped table-bordered">
    <thead>
      <tr>
        <th class="kc-table-actions" colspan="5">
          <div class="form-inline">
            <div class="form-group">
              {{:: 'filter' | translate}}:  
              <div class="input-group">
                <input type="text" placeholder="{{:: 'name' | translate}}" data-ng-model="query.name"
class="form-control search" onkeydown="if (event.keyCode == 13)
```

```
document.getElementById('policySearch').click()">
                <div class="input-group-addon">
                    <i class="fa fa-search" id="policySearch" type="submit" data-ng-click="firstPage()"></i>
                </div>
            </div>
            <div class="input-group">
                <input type="text" placeholder="{{:: 'authz-resource' | translate}}" data-ng-
model="query.resource" class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
                <div class="input-group-addon">
                    <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
                </div>
            </div>
            <div class="input-group">
                <input type="text" placeholder="{{:: 'authz-scope' | translate}}" data-ng-model="query.scope"
class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
                <div class="input-group-addon">
                    <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
                </div>
            </div>
            <div class="input-group">
                <select class="form-control search" data-ng-model="query.type"
                    ng-options="p.type as p.name group by p.group for p in policyProviders track by p.type"
data-ng-change="firstPage()">
                    <option value="" selected ng-click="query.type = "">{{:: 'authz-all-types' |
translate}}</option>
                </select>
            </div>
        </div>
        <div class="pull-right">
            <select class="form-control" ng-model="policyType"
                ng-options="p.name for p in policyProviders track by p.type"
                id="create-permission"
                data-ng-change="addPolicy(policyType);">
                <option value="" disabled selected>{{:: 'authz-create-permission' | translate}}...</option>
            </select>
        </div>
    </div>
  </th>
</tr>
<tr data-ng-hide="policies.length == 0">
  <th width="1%"></th>
  <th>{{:: 'name' | translate}}</th>
  <th>{{:: 'description' | translate}}</th>
  <th width="7%">{{:: 'type' | translate}}</th>
  <th width="6%" style="text-align: center;">{{:: 'actions' | translate}}</th>
</tr>
```

```
</thead>
<tfoot data-ng-show="policies && (policies.length >= query.max || query.first > 0)">
<tr>
  <td colspan="5">
    <div class="table-nav">
      <button data-ng-click="firstPage()" class="first" ng-disabled="query.first == 0">{{:: 'first-page' | translate}}</button>
      <button data-ng-click="previousPage()" class="prev" ng-disabled="query.first == 0">{{:: 'previous-page' | translate}}</button>
      <button data-ng-click="nextPage()" class="next" ng-disabled="policies.length < query.max">{{:: 'next-page' | translate}}</button>
    </div>
  </td>
</tr>
</tfoot>
<tbody>
  <tr ng-repeat-start="policy in policies | filter: {name: search.name, type: search.type} | orderBy:'name'" data-ng-click="showDetails(policy, $event);" style="cursor: pointer">
    <td>
      <span ng-if="!policy.details || !policy.details.loaded" class="fa fa-angle-right"></span>
      <span ng-if="policy.details && policy.details.loaded" class="fa fa-angle-right fa-angle-down"></span>
    </td>
    <td><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission/{{policy.type}}/{{policy.id}}">{{policy.name}}</a></td>
    <td>{{policy.description}}</td>
    <td>{{policy.type}}</td>
    <td align="center">
      <div class="dropdown dropdown-kebab-pf">
        <button class="btn btn-default" ng-click="delete(policy);">{{:: 'delete' | translate}}
        </button>
      </div>
    </td>
  </tr>
  <tr ng-if="policy.details && policy.details.loaded" ng-repeat-end="">
    <td colspan="5" style="background-color: #ffffff">
      <div class="list-group-item-container container-fluid">
        <div class="close" data-ng-click="showDetails(policy, $event);" style="padding-top: 10px">
          <span class="pficon pficon-close"></span>
        </div>
        <div class="row">
          <div class="col-md-12">
            <dl class="dl-horizontal">
              <dt>{{:: 'authz-associated-policies' | translate}}</dt>
              <dd>
                <span data-ng-show="policy.associatedPolicies && !policy.associatedPolicies.length">{{:: 'authz-no-policies-available' | translate}}</span>
                <span ng-repeat="dep in policy.associatedPolicies" data-ng-show="policy.associatedPolicies.length > 0"><a
```

```
href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/{{dep.type == 'scope' || dep.type ==
'resource' ? 'permission' : 'policy'}}/{{dep.type}}/{{dep.id}}">{{dep.name}}</a>{{$last ? '' : ', '}}</span>
                        </dd>
                    </dl>
                </div>
            </div>
        </div>
        </td>
    </tr>
    <tr data-ng-show="(policies | filter:search).length == 0">
        <td class="text-muted" colspan="3" data-ng-show="search.name">{{:: 'no-results' | translate}}</td>
        <td class="text-muted" colspan="3" data-ng-hide="search.name">{{:: 'authz-no-permissions-available' |
translate}}</td>
    </tr>
    </tbody>
    </table>
</div>

<kc-menu></kc-menu>
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

    <ol class="breadcrumb">
        <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
        <li data-ng-show="create">{{:: 'authz-add-scope-permission' | translate}}</li>
        <li data-ng-hide="create">{{originalPolicy.name}}</li>
    </ol>

    <h1 data-ng-show="create">{{:: 'authz-add-scope-permission' | translate}}</h1>
    <h1 data-ng-hide="create">{{originalPolicy.name|capitalize}}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>

    <form class="form-horizontal" name="clientForm" novalidate>
        <fieldset class="border-top">
            <div class="form-group">
                <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} <span
class="required">*</span></label>
                <div class="col-sm-6">
                    <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
                </div>
                <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>
            </div>
            <div class="form-group">
```

```
<label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
<div class="col-sm-6">
    <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
</div>
<kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
<label class="col-md-2 control-label" for="resources">{{:: 'authz-resource' | translate}}</label>

<div class="col-md-6">
    <input type="hidden" ui-select2="resourcesUiSelect" data-ng-change="selectResource()"
id="resources" data-ng-model="selectedResource" data-placeholder="{{:: 'authz-any-resource' | translate}}..." />
</div>
<kc-tooltip>{{:: 'authz-permission-scope-resource.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-show="selectedResource">
<label class="col-md-2 control-label" for="resourceScopes">{{:: 'authz-scopes' | translate}} <span
class="required">*</span></label>
    <div class="col-md-6">
        <select ui-select2 id="resourceScopes"
            data-ng-model="selectedScopes"
            data-placeholder="{{:: 'authz-any-scope' | translate}}..." multiple
            data-ng-required="selectedResource != null">
        <option ng-repeat="scope in resourceScopes" value="{{scope.id}}">{{scope.name}}</option>
        </select>
    </div>
    <kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-show="!selectedResource">
    <label class="col-md-2 control-label" for="scopes">{{:: 'authz-scopes' | translate}} <span
class="required">*</span></label>

    <div class="col-md-6">
        <input type="hidden" ui-select2="scopesUiSelect" id="scopes" data-ng-model="selectedScopes" data-
placeholder="{{:: 'authz-any-scope' | translate}}..." multiple data-ng-required="selectedResource == null" />
    </div>
    <kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
<label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
<div class="col-sm-6">
    <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
        <thead>
        <tr>
            <th class="kc-table-actions" colspan="2">
                <div class="form-inline col-md-12" style="width: 107%">
                    <div class="form-group" style="width: 100%">
```

```html
                <div class="input-group" style="width: 100%">
                    <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
                </div>
            </div>
        </div>
    </th>
    <th class="kc-table-actions">
        <div class="pull-right" style="width: 100%">
            <select id="create-policy" class="form-control" ng-model="policyType"
                ng-options="p.name for p in policyProviders track by p.type"
                data-ng-change="addPolicy(policyType);"
                data-ng-hide="historyBackOnSaveOrCancel">
                <option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
            </select>
        </div>
    </th>
</tr>
<tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
    <th>{{:: 'name' | translate}}</th>
    <th>{{:: 'description' | translate}}</th>
    <th width="20%">{{:: 'actions' | translate}}</th>
</tr>
</thead>
<tbody>
<tr ng-repeat="policy in selectedPolicies">
    <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{policy.name}}</a></td>
    <td data-ng-show="historyBackOnSaveOrCancel">{{policy.name}}</td>
    <td>{{policy.description}}</td>
    <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
        {{:: 'remove' | translate}}
    </td>
</tr>
<tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
    <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
</tr>
</tbody>
</table>
</div>
<kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
    <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>
```

```
        <div class="col-sm-2">
          <select class="form-control" id="decisionStrategy"
                data-ng-model="policy.decisionStrategy"
                ng-change="selectDecisionStrategy()">
            <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
            <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate}}</option>
            <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
          </select>
        </div>

        <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
      </div>
      <input type="hidden" data-ng-model="policy.type"/>
    </fieldset>
    <div class="form-group" data-ng-show="access.manageAuthorization">
      <div class="col-md-10 col-md-offset-2">
        <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
        <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
      </div>
    </div>
  </form>
</div>

<kc-menu></kc-menu>
<div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

  <ol class="breadcrumb">
    <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
    <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
    <li data-ng-show="create">{{:: 'authz-add-resource-permission' | translate}}</li>
    <li data-ng-hide="create">{{originalPolicy.name}}</li>
  </ol>

  <h1 data-ng-show="create">{{:: 'authz-add-resource-permission' | translate}}</h1>
  <h1 data-ng-hide="create">{{originalPolicy.name|capitalize}}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>

  <form class="form-horizontal" name="clientForm" novalidate>
    <fieldset class="border-top">
      <div class="form-group">
        <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} <span
class="required">*</span></label>
```

```html
<div class="col-sm-6">
    <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
</div>
<kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group">
    <label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
    <div class="col-sm-6">
        <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
    </div>
    <kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group">
    <label class="col-md-2 control-label" for="applyToResourceTypeFlag">{{:: 'authz-permission-resource-
apply-to-resource-type' | translate}}</label>
    <div class="col-md-6">
        <input ng-model="applyToResourceTypeFlag" id="applyToResourceTypeFlag" onoffswitch data-ng-
click="applyToResourceType()"/>
    </div>
    <kc-tooltip>{{:: 'authz-permission-resource-apply-to-resource-type.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-hide="applyToResourceTypeFlag">
    <label class="col-md-2 control-label" for="resources">{{:: 'authz-resources' | translate}} <span
class="required">*</span></label>

    <div class="col-md-6">
        <input type="hidden" ui-select2="resourcesUiSelect" id="resources" data-ng-model="selectedResource"
data-placeholder="{{:: 'authz-select-resource' | translate}}..." data-ng-required="!applyToResourceTypeFlag"/>
    </div>
    <kc-tooltip>{{:: 'authz-permission-resource-resource.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix" data-ng-show="applyToResourceTypeFlag">
    <label class="col-md-2 control-label" for="resourceType">{{:: 'authz-resource-type' | translate}} <span
class="required">*</span></label>

    <div class="col-md-6">
        <input class="form-control" type="text" id="resourceType" name="policy.resourceType" data-ng-
model="policy.resourceType" data-ng-required="applyToResourceTypeFlag">
    </div>

    <kc-tooltip>{{:: 'authz-permission-resource-type.tooltip' | translate}}</kc-tooltip>
</div>
<div class="form-group clearfix">
    <label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
    <div class="col-sm-6">
        <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
```

```
<thead>
    <tr>
        <th class="kc-table-actions" colspan="2">
            <div class="form-inline col-md-12" style="width: 107%">
                <div class="form-group" style="width: 100%">
                    <div class="input-group" style="width: 100%">
                        <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
                    </div>
                </div>
            </div>
        </th>
        <th class="kc-table-actions">
            <div class="pull-right" style="width: 100%">
                <select id="create-policy" class="form-control" ng-model="policyType"
                    ng-options="p.name for p in policyProviders track by p.type"
                    data-ng-change="addPolicy(policyType);"
                    data-ng-hide="historyBackOnSaveOrCancel">
                    <option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
                </select>
            </div>
        </th>
    </tr>
    <tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
        <th>{{:: 'name' | translate}}</th>
        <th>{{:: 'description' | translate}}</th>
        <th width="20%">{{:: 'actions' | translate}}</th>
    </tr>
</thead>
<tbody>
    <tr ng-repeat="policy in selectedPolicies">
        <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{policy.name}}</a></td>
        <td data-ng-show="historyBackOnSaveOrCancel">{{policy.name}}</td>
        <td>{{policy.description}}</td>
        <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
            {{:: 'remove' | translate}}
        </td>
    </tr>
    <tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
        <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
    </tr>
</tbody>
</table>
</div>
<kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
```

```
        </div>
        <div class="form-group clearfix">
            <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>

            <div class="col-sm-2">
                <select class="form-control" id="decisionStrategy"
                        data-ng-model="policy.decisionStrategy"
                        ng-change="selectDecisionStrategy()">
                    <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
                    <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate}}</option>
                    <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
                </select>
            </div>

            <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
        </div>
        <input type="hidden" data-ng-model="policy.type"/>
    </fieldset>

    <div class="form-group" data-ng-show="access.manageAuthorization">
        <div class="col-md-10 col-md-offset-2">
            <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
            <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
        </div>
    </div>
  </form>
</div>

<kc-menu></kc-menu>
```
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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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2.521 keycloak-tomcat7-adapter-dist 4.4.0.Final

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2.522 keycloak-tomcat8-adapter 4.4.0.Final

2.523 keycloak-tomcat8-adapter-dist 4.4.0.Final

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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2.529 keycloak-wf8-subsystem 4.4.0.Final

2.530 keycloak-wildfly-adapter 4.4.0.Final

2.531 keycloak-wildfly-adapter-dist 4.4.0.Final
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resourceNamersnamescopesLjava/util/Set;

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E(Ljava/lang/String;Ljava/lang/String;Ljava/util/Set;Ljava/util/Map;)V(Ljava/lang/String;Ljava/lang/String;Ljava/ut
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getResourceId()Ljava/lang/String;

StackMapTablesetResourceNamegetResourceName

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setScopes(Ljava/util/Set;)V&(Ljava/util/Set<Ljava/lang/String;>;)V

SourceFilePermission.java7Lcom/fasterxml/jackson/annotation/JsonIgnoreProperties;

ignoreUnknown9C9:$%*%,-

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a/lang/Objectjava/lang/StringBuilderPermission {id=, name= ,

scopes=}\H4com/fasterxml/jackson/annotation/JsonInclude$Includejava/util/IteratortrimgetClass()Ljava/lang/Class;
java/lang/ClassisAssignableFrom(Ljava/lang/Class;)Z

java/util/SetisEmpty()Ziterator()Ljava/util/Iterator;hasNextnext()Ljava/lang/Object;containsjava/util/Objectshash([L
java/lang/Object;)Iappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;,com/fasterxml/jackson/annotation/JsonInclude!$%&'(s)*%&'(s+,-./&

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IJ=>?*%KH;/*<M=>?LM;R**

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org.keycloak,keycloak-adapter-core,4.4.0.Final,Apache Software License 2.0.txt

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  <dependency>
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   <artifactId>keycloak-adapter-core</artifactId>
   <version>4.4.0.Final</version>
   <licenses>
    <license>
     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-adapter-spi</artifactId>
   <version>4.4.0.Final</version>
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    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.keycloak</groupId>
   <artifactId>keycloak-authz-client</artifactId>
   <version>4.4.0.Final</version>
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     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
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  </dependency>
  <dependency>
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   <artifactId>keycloak-common</artifactId>
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     <name>Apache Software License 2.0</name>
     <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
    </license>
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```
      </dependency>
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          </license>
        </licenses>
      </dependency>
      <dependency>
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        <artifactId>keycloak-servlet-oauth-client</artifactId>
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        <licenses>
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        <licenses>
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            <name>Apache Software License 2.0</name>
            <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
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        <artifactId>keycloak-undertow-adapter-spi</artifactId>
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```xml
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         <license>
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          <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
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          <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
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      </dependency>
      <dependency>
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          <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
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       <artifactId>keycloak-wildfly-subsystem</artifactId>
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       <licenses>
         <license>
          <name>Apache Software License 2.0</name>
          <url>https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html</url>
         </license>
        </licenses>
      </dependency>
     </dependencies>
   </licenseSummary>
   <html>
   <head>
   <META http-equiv="Content-Type" content="text/html; charset=utf-8">
   <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
   <link rel="stylesheet" type="text/css" href="licenses.css">
```

```
</head>
<body>
<h2>Keycloak 4.4.0.Final</h2>
<p>The following material has been provided for informational purposes only, and should not be relied upon or
construed as a legal opinion or legal advice.</p>
<table>
<tr>
<th>Package Group</th><th>Package Artifact</th><th>Package Version</th><th>Remote
Licenses</th><th>Local Licenses</th>
</tr>
<tr>
<td>org.keycloak</td><td>keycloak-adapter-core</td><td>4.4.0.Final</td><td>
<ul>
<li>
<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
</li>
</ul>
</td><td>
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<li>
<a href="org.keycloak,keycloak-adapter-core,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
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</ul>
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2.0</a>
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License 2.0</a>
</li>
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<tr>
<td>org.keycloak</td><td>keycloak-authz-client</td><td>4.4.0.Final</td><td>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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License 2.0</a>
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2.0</a>
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<td>org.keycloak</td><td>keycloak-servlet-oauth-client</td><td>4.4.0.Final</td><td>

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2.0</a>
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License 2.0</a>
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</ul>
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Software License 2.0</a>
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<tr>
<td>org.keycloak</td><td>keycloak-wildfly-subsystem</td><td>4.4.0.Final</td><td>
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<a href="https://raw.githubusercontent.com/keycloak/keycloak/4.4.0.Final/License.html">Apache Software License
2.0</a>
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<a href="org.keycloak,keycloak-wildfly-subsystem,4.4.0.Final,Apache Software License 2.0.txt">Apache Software
License 2.0</a>
</li>
</ul>
</td>
</tr>
</table>
<table>
<tr>
<th>Description</th><th>Locations</th><th>Remote Licenses</th><th>Local Licenses</th>
</tr>
</table>
</body>
</html>
body {
  font-family: monospace;
}

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
  margin: 2em 0;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}
```

```css
th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}

ul {
  list-style: none;
  padding: 0;
  margin: 0;
}

li.archive ul {
  padding-left: 40px;
}

li.archive p {
  display: inline;
  margin: 0;
}

li.archive p:after {
  content: ":";
}

li.archive:before {
  content: "a ";
}
li.file:before {
  content: "f ";
}
li.directory:before {
  content: "d ";
}
```

```xml
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
          xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="productname"/>
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />
```

```xml
<xsl:template match="/">
  <html>
    <head>
      <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
      <link rel="stylesheet" type="text/css" href="licenses.css"/>
    </head>
    <body>
      <h2><xsl:value-of select="$productname"/><xsl:text> </xsl:text><xsl:value-of select="$version"/></h2>
      <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
      <table>
        <tr>
          <th>Package Group</th>
          <th>Package Artifact</th>
          <th>Package Version</th>
          <th>Remote Licenses</th>
          <th>Local Licenses</th>
        </tr>
        <xsl:for-each select="licenseSummary/dependencies/dependency">
        <xsl:sort select="concat(groupId, '.', artifactId)"/>
        <tr>
          <td><xsl:value-of select="groupId"/></td>
          <td><xsl:value-of select="artifactId"/></td>
          <td><xsl:value-of select="version"/></td>
          <td>
            <ul>
              <xsl:for-each select="licenses/license">
                <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
              </xsl:for-each>
            </ul>
          </td>
          <td>
            <ul>
              <xsl:for-each select="licenses/license">
                <xsl:variable name="filename" select="concat(../../groupId, ',', ../../artifactId, ',', ../../version,
',', name, '.txt')" />
                <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
              </xsl:for-each>
            </ul>
          </td>
        </tr>
        </xsl:for-each>
      </table>
      <table>
        <tr>
          <th>Description</th>
          <th>Locations</th>
          <th>Remote Licenses</th>
```

```
          <th>Local Licenses</th>
        </tr>
        <xsl:for-each select="licenseSummary/others/other">
          <xsl:sort select="description"/>
          <tr>
            <td><xsl:value-of select="description"/></td>
            <td>
              <ul>
                <xsl:for-each select="locations/*[self::file or self::directory]">
                  <li class="{local-name()}"><xsl:value-of select="."/></li>
                </xsl:for-each>
                <xsl:for-each select="locations/archive">
                  <li class="archive">
                    <p><xsl:value-of select="file"/></p>
                    <ul>
                      <xsl:for-each select="innerpath">
                        <li><xsl:value-of select="."/></li>
                      </xsl:for-each>
                    </ul>
                  </li>
                </xsl:for-each>
              </ul>
            </td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                  <li><a href="{./url}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
            <td>
              <ul>
                <xsl:for-each select="licenses/license">
                  <xsl:variable name="filename" select="concat(../../description, ',', name, '.txt')" />
                  <li><a href="{$filename}"><xsl:value-of select="name"/></a></li>
                </xsl:for-each>
              </ul>
            </td>
          </tr>
        </xsl:for-each>
      </table>
    </body>
  </html>
</xsl:template>
</xsl:stylesheet>
```

2.532 keycloak-wildfly-adduser 4.4.0.Final

2.533 keycloak-wildfly-elytron-oidc-adapter 4.4.0.Final

2.534 keycloak-wildfly-extensions 4.4.0.Final

2.535 keycloak-wildfly-server-subsystem 4.4.0.Final

2.536 keycloak-wildfly-subsystem 4.4.0.Final

2.537 kie-api 6.5.0.Final

2.538 kie-ci 6.5.0.Final

2.539 kie-internal 6.5.0.Final

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2.541 liquibase-core 3.5.5

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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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2.557 maven-model 3.2.5

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```
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// ==============================================================

package org.apache.maven.model;

/**
 * Description of a person who has contributed to the project, but
 * who does not have
 *       commit privileges. Usually, these contributions come in
 * the form of patches submitted.
 *
 * @version $Revision$ $Date$
 */
@SuppressWarnings( "all" )
public class Contributor
    implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

      //--------------------------/
     //- Class/Member Variables -/
    //--------------------------/

    /**
     * The full name of the contributor.
     */
    private String name;

    /**
     * The email address of the contributor.
     */
    private String email;

    /**
     * The URL for the homepage of the contributor.
     */
    private String url;

    /**
     * The organization to which the contributor belongs.
     */
    private String organization;
```

```java
/**
 * The URL of the organization.
 */
private String organizationUrl;

/**
 * Field roles.
 */
private java.util.List<String> roles;

/**
 *
 *
 *          The timezone the contributor is in. Typically,
 * this is a number in the range
 *          <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
 *          or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 *
 */
private String timezone;

/**
 * Field properties.
 */
private java.util.Properties properties;

/**
 * Field locations.
 */
private java.util.Map<Object, InputLocation> locations;


 //-----------/
//- Methods -/
//-----------/

/**
 * Method addProperty.
 *
 * @param key
 * @param value
 */
```

```java
public void addProperty( String key, String value )
{
    getProperties().put( key, value );
} //-- void addProperty( String, String )


/**
 * Method addRole.
 *
 * @param string
 */
public void addRole( String string )
{
    getRoles().add( string );
} //-- void addRole( String )


/**
 * Method clone.
 *
 * @return Contributor
 */
public Contributor clone()
{
    try
    {
        Contributor copy = (Contributor) super.clone();

        if ( this.roles != null )
        {
            copy.roles = new java.util.ArrayList<String>();
            copy.roles.addAll( this.roles );
        }

        if ( this.properties != null )
        {
            copy.properties = (java.util.Properties) this.properties.clone();
        }

        if ( copy.locations != null )
        {
            copy.locations = new java.util.LinkedHashMap( copy.locations );
        }

        return copy;
    }
    catch ( java.lang.Exception ex )
    {
        throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
            + " does not support clone()" ).initCause( ex );
```

```
    }
} //-- Contributor clone()


/**
 * Get the email address of the contributor.
 *
 * @return String
 */
public String getEmail()
{
    return this.email;
} //-- String getEmail()


/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
    return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )


/**
 * Get the full name of the contributor.
 *
 * @return String
 */
public String getName()
{
    return this.name;
} //-- String getName()


/**
 * Get the organization to which the contributor belongs.
 *
 * @return String
 */
public String getOrganization()
{
    return this.organization;
} //-- String getOrganization()


/**
 * Get the URL of the organization.
 *
 * @return String
```

```java
 */
public String getOrganizationUrl()
{
   return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties.
 *
 * @return Properties
 */
public java.util.Properties getProperties()
{
   if ( this.properties == null )
   {
      this.properties = new java.util.Properties();
   }

   return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles.
 *
 * @return List
 */
public java.util.List<String> getRoles()
{
   if ( this.roles == null )
   {
      this.roles = new java.util.ArrayList<String>();
   }

   return this.roles;
} //-- java.util.List<String> getRoles()

/**
 * Get the timezone the contributor is in. Typically, this is a
 * number in the range
 *          <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
 *          or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 * @return String
```

```java
 */
public String getTimezone()
{
   return this.timezone;
} //-- String getTimezone()

/**
 * Get the URL for the homepage of the contributor.
 *
 * @return String
 */
public String getUrl()
{
   return this.url;
} //-- String getUrl()

/**
 * Method removeRole.
 *
 * @param string
 */
public void removeRole( String string )
{
   getRoles().remove( string );
} //-- void removeRole( String )

/**
 * Set the email address of the contributor.
 *
 * @param email
 */
public void setEmail( String email )
{
   this.email = email;
} //-- void setEmail( String )

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation( Object key, InputLocation location )
{
   if ( location != null )
   {
      if ( this.locations == null )
      {
```

```java
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
        this.locations.put( key, location );
    }
} //-- void setLocation( Object, InputLocation )

/**
 * Set the full name of the contributor.
 *
 * @param name
 */
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the organization to which the contributor belongs.
 *
 * @param organization
 */
public void setOrganization( String organization )
{
    this.organization = organization;
} //-- void setOrganization( String )

/**
 * Set the URL of the organization.
 *
 * @param organizationUrl
 */
public void setOrganizationUrl( String organizationUrl )
{
    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl( String )

/**
 * Set properties about the contributor, such as an instant
 * messenger handle.
 *
 * @param properties
 */
public void setProperties( java.util.Properties properties )
{
    this.properties = properties;
} //-- void setProperties( java.util.Properties )

/**
```

```java
     * Set the roles the contributor plays in the project. Each
     * role is described by a
     *           <code>role</code> element, the body of which is
     * a role name. This can also be used to
     *           describe the contribution.
     *
     * @param roles
     */
    public void setRoles( java.util.List<String> roles )
    {
        this.roles = roles;
    } //-- void setRoles( java.util.List )

    /**
     * Set the timezone the contributor is in. Typically, this is a
     * number in the range
     *           <a
     * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
     * to <a
     * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
     *           or a valid time zone id like
     * "America/Montreal" (UTC-05:00) or "Europe/Paris"
     * (UTC+01:00).
     *
     * @param timezone
     */
    public void setTimezone( String timezone )
    {
        this.timezone = timezone;
    } //-- void setTimezone( String )

    /**
     * Set the URL for the homepage of the contributor.
     *
     * @param url
     */
    public void setUrl( String url )
    {
        this.url = url;
    } //-- void setUrl( String )


}
// ===================== DO NOT EDIT THIS FILE =====================
// Generated by Modello 1.8.1,
// any modifications will be overwritten.
// ===============================================================

package org.apache.maven.model;
```

```
/**
 * Describes the licenses for this project. This is used to
 * generate the license
 *        page of the project's web site, as well as being taken
 * into consideration in other reporting
 *        and validation. The licenses listed for the project are
 * that of the project itself, and not
 *        of dependencies.
 *
 * @version $Revision$ $Date$
 */
@SuppressWarnings( "all" )
public class License
    implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

      //--------------------------/
     //- Class/Member Variables -/
    //--------------------------/

    /**
     * The full legal name of the license.
     */
    private String name;

    /**
     * The official url for the license text.
     */
    private String url;

    /**
     *
     *
     *        The primary method by which this project may be
     * distributed.
     *        <dl>
     *         <dt>repo</dt>
     *         <dd>may be downloaded from the Maven
     * repository</dd>
     *         <dt>manual</dt>
     *         <dd>user must manually download and install
     * the dependency.</dd>
     *        </dl>
     *
     *
     */
    private String distribution;
```

```java
/**
 * Addendum information pertaining to this license.
 */
private String comments;

/**
 * Field locations.
 */
private java.util.Map<Object, InputLocation> locations;


 //-----------/
 //- Methods -/
 //-----------/

/**
 * Method clone.
 *
 * @return License
 */
public License clone()
{
  try
  {
    License copy = (License) super.clone();

    if ( copy.locations != null )
    {
      copy.locations = new java.util.LinkedHashMap( copy.locations );
    }

    return copy;
  }
  catch ( java.lang.Exception ex )
  {
    throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
        + " does not support clone()" ).initCause( ex );
  }
} //-- License clone()

/**
 * Get addendum information pertaining to this license.
 *
 * @return String
 */
public String getComments()
{
```

```
    return this.comments;
} //-- String getComments()

/**
 * Get the primary method by which this project may be
 * distributed.
 *          <dl>
 *            <dt>repo</dt>
 *            <dd>may be downloaded from the Maven
 * repository</dd>
 *            <dt>manual</dt>
 *            <dd>user must manually download and install
 * the dependency.</dd>
 *          </dl>
 *
 * @return String
 */
public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
    return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

/**
 * Get the full legal name of the license.
 *
 * @return String
 */
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
```

```java
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Set addendum information pertaining to this license.
 *
 * @param comments
 */
public void setComments( String comments )
{
    this.comments = comments;
} //-- void setComments( String )

/**
 * Set the primary method by which this project may be
 * distributed.
 *         <dl>
 *           <dt>repo</dt>
 *           <dd>may be downloaded from the Maven
 * repository</dd>
 *           <dt>manual</dt>
 *           <dd>user must manually download and install
 * the dependency.</dd>
 *         </dl>
 *
 * @param distribution
 */
public void setDistribution( String distribution )
{
    this.distribution = distribution;
} //-- void setDistribution( String )

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation( Object key, InputLocation location )
{
    if ( location != null )
    {
        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
```

```java
        this.locations.put( key, location );
    }
} //-- void setLocation( Object, InputLocation )

/**
 * Set the full legal name of the license.
 *
 * @param name
 */
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
 * Set the official url for the license text.
 *
 * @param url
 */
public void setUrl( String url )
{
    this.url = url;
} //-- void setUrl( String )

}
```

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source, and configuration files.

"Object" form shall mean any form resulting from mechanical
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2.558 maven-model-builder 3.2.5

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2.612 pax-web-runtime 7.1.0

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2.613 pax-web-spi 7.1.0

2.614 picketbox 5.0.2.Final

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*/
package org.jboss.security.authorization;

/**
* <p>
* Marker interface for permission objects.
* </p>
*
* @author <a href="mailto:sguilhen@redhat.com">Stefan Guilhen</a>
*/
public interface Permission
{

}
```

2.615 picketbox-acl-impl 5.0.2.Final

2.616 picketbox-commons 1.0.0.final

2.617 picketbox-identity-impl 5.0.2.Final

2.618 picketbox-infinispan 5.0.2.Final

2.619 picketbox-spi-bare 5.0.2.Final

2.620 picketlink-api 2.5.5.SP11

2.621 picketlink-common 2.5.5.SP11

2.622 picketlink-config 2.5.5.SP11

2.623 picketlink-federation 2.5.5.SP11

2.624 picketlink-idm-api 2.5.5.SP11

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```
 * limitations under the License.
 */

package org.picketlink.idm.permission.spi;

import java.io.Serializable;

import org.picketlink.idm.model.IdentityType;

/**
 * A PermissionVoter may be used to determine access restrictions for application resources. For every
 * permission check the application performs, the hasPermission() method of each known PermissionVoter
 * is invoked. For the permission check to succeed, at least one PermissionVoter must return a result of
 * VotingResult.ALLOW.  If any PermissionVoter returns a result of VotingResult.DENY, the
 * permission check is unsuccessful and the user is not allowed to carry out the requested operation.
 * If a PermissionVoter does not explicitly allow or deny the permission, it should return a result of
 * PermissionVoter.NOT_APPLICABLE.
 *
 * @author Shane Bryzak
 *
 */
public interface PermissionVoter {

    public enum VotingResult {
        ALLOW, DENY, NOT_APPLICABLE
    }

    VotingResult hasPermission(IdentityType recipient, Object resource, String operation);

    VotingResult hasPermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier,
        String operation);
}
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```

```java
*/

package org.picketlink.idm.permission.spi;

import java.io.Serializable;
import java.util.List;

import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.spi.PermissionVoter.VotingResult;

/**
 * Iterates through the configured PermissionVoter instances to determine whether a resource permission
 * is to be allowed or denied.
 *
 * @author Shane Bryzak
 */
public class PermissionResolver {
    private final List<PermissionVoter> voters;

    public PermissionResolver(List<PermissionVoter> voters) {
        this.voters = voters;
    }

    public boolean resolvePermission(IdentityType recipient, Object resource, String operation) {
        boolean permit = false;

        for (PermissionVoter voter : voters) {
            VotingResult result = voter.hasPermission(recipient, resource, operation);
            if (VotingResult.ALLOW.equals(result)) {
                permit = true;
            }
            else if (VotingResult.DENY.equals(result)) {
                return false;
            }
        }

        return permit;
    }

    public boolean resolvePermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier, String
operation) {
        boolean permit = false;

        for (PermissionVoter voter : voters) {
            VotingResult result = voter.hasPermission(recipient, resourceClass, identifier, operation);
            if (VotingResult.ALLOW.equals(result)) {
                permit = true;
            }
```

```
              else if (VotingResult.DENY.equals(result)) {
                  return false;
              }
          }

          return permit;
      }
  }
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  package org.picketlink.idm.permission;

  import java.io.Serializable;

  /**
   * Abstract base class representing a specific permission granted for a domain resource.  If the actual resource object
   instance is known
   * then the getResource() method will return a reference to it, otherwise the getResourceClass() and
   getResourceIdentifier()
   * methods may be used to determine the specific resource that the permission applies to.
   *
   * It is the responsibility of any subclasses to declare any logic relating to the assignee of the Permission.
   *
   * @author Shane Bryzak
   */
  public abstract class Permission {
      private Object resource;

      private Class<?> resourceClass;

      private Serializable resourceIdentifier;
```

```java
    private String operation;

    public Permission(Object resource, String operation) {
        this.resource = resource;
        this.operation = operation;
    }

    public Permission(Class<?> resourceClass, Serializable resourceIdentifier, String operation) {
        this.resourceClass = resourceClass;
        this.resourceIdentifier = resourceIdentifier;
        this.operation = operation;
    }

    /**
     * Returns the resource object if known, otherwise returns null.  If the resource object is not known, then the
     * getResourceClass() and getResourceIdentifier() methods represent the "coordinates" of the resource.
     *
     * @return Object The resource instance, or null
     */
    public Object getResource() {
        return resource;
    }

    /**
     * Returns the resource class if the actual resource instance is not known, otherwise returns null.
     *
     * @return
     */
    public Class<?> getResourceClass() {
        return resourceClass;
    }

    /**
     * Returns the resource identifier if the actual resource instance is not known, otherwise returns null.
     *
     * @return
     */
    public Serializable getResourceIdentifier() {
        return resourceIdentifier;
    }

    /**
     * Returns the permission operation
     *
     * @return
     */
    public String getOperation() {
        return operation;
```

```java
    }
}
package org.picketlink.idm.permission;

import java.io.Serializable;

import org.picketlink.idm.query.RelationshipCriteria;

/**
 * Represents a "fuzzy" resource permission that is assigned via a relationship criteria, i.e. it is granted to the
 * identities for which relationships exist that match the specified criteria.  The assigneeProperty property is
 * the property name of the matching relationship that represents the identity for which the permission is assigned.
 * Standard privilege inheritance rules apply.
 *
 * @author Shane Bryzak
 *
 */
public class FuzzyPermission extends Permission {
    private RelationshipCriteria criteria;
    private String assigneeProperty;

    public FuzzyPermission(Object resource, RelationshipCriteria criteria, String assigneeProperty, String operation) {
        super(resource, operation);
        this.criteria = criteria;
        this.assigneeProperty = assigneeProperty;
    }

    public FuzzyPermission(Class<?> resourceClass, Serializable resourceIdentifier, RelationshipCriteria criteria,
            String assigneeProperty, String operation) {
        super(resourceClass, resourceIdentifier, operation);
        this.criteria = criteria;
        this.assigneeProperty = assigneeProperty;
    }

    public RelationshipCriteria getCriteria() {
        return criteria;
    }

    public String getAssigneeProperty() {
        return assigneeProperty;
    }
}
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```

```
package org.picketlink.idm.permission.annotations;

import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

import org.picketlink.idm.permission.acl.spi.PermissionHandler;

/**
* Configures the permission handler to use for instance-based permissions.  The specified class
* should implement the PermissionHandler interface.
*
* @author Shane Bryzak
*/
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface PermissionsHandledBy {
  Class<? extends PermissionHandler> value() default PermissionHandler.class;

  String name() default "";
}
```

```
package org.picketlink.idm.permission.annotations;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

/**
* Specifies a list of permission actions for a class
*
* @author Shane Bryzak
*/
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface AllowedOperations {
  AllowedOperation[] value() default {};
}
```

```java
package org.picketlink.idm.permission.annotations;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

/**
 * Specifies an allowable permission operation for the target class, and allows for an optional bit mask
 * value for mapping the permission operation to a persistent store
 *
 * @author Shane Bryzak
 */
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface AllowedOperation {
    /**
     * The operation value
     */
    String value();

    /**
     * The bit mask value representing this operation
     */
    long mask() default 0L;

    /**
     * If set to true, this represents a class operation, and not an operation on an instance of the class
     */
    boolean classOperation() default false;
}
package org.picketlink.idm.permission;

import java.io.Serializable;

import org.picketlink.idm.model.IdentityType;

/**
 * Represents a resource permission that is assigned to a specific IdentityType.
 *
 * @author Shane Bryzak
 */
```

```java
public class IdentityPermission extends Permission {
  private IdentityType assignee;

  public IdentityPermission(Object resource, IdentityType assignee, String operation) {
    super(resource, operation);
    this.assignee = assignee;
  }

  public IdentityPermission(Class<?> resourceClass, Serializable resourceIdentifier, IdentityType assignee, String operation) {
    super(resourceClass, resourceIdentifier, operation);
    this.assignee = assignee;
  }

  /**
   * Returns the identity to which the permission is assigned.
   *
   * @return
   */
  public IdentityType getAssignee() {
    return assignee;
  }
}
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 */

package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.IdentityManagementException;
import org.picketlink.idm.permission.annotations.PermissionsHandledBy;

import java.io.Serializable;
import java.util.HashSet;
```

```java
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;

/**
 * Manages a set of PermissionHandler instances that overall define a "policy" for
 * how persistent resource permissions are mapped and managed.
 *
 * @author Shane Bryzak
 */
public class PermissionHandlerPolicy {
  private Map<Class<?>, PermissionHandler> classHandlers = new ConcurrentHashMap<Class<?>,
PermissionHandler>();

  private Set<PermissionHandler> registeredHandlers = new HashSet<PermissionHandler>();

  public PermissionHandlerPolicy(Set<PermissionHandler> handlers) {
    if (handlers == null || handlers.isEmpty()) {
      registeredHandlers.add(new EntityPermissionHandler());
      registeredHandlers.add(new ClassPermissionHandler());
      registeredHandlers.add(new StringPermissionHandler());
    }
  }

  public Serializable getIdentifier(Object resource) {
    if (resource instanceof String) {
      return (String) resource;
    }

    PermissionHandler handler = getHandlerForResource(resource);

    return handler != null ? handler.getIdentifier(resource) : null;
  }

  public Class<?> getResourceClass(Object resource) {
    if (resource instanceof String) {
      return String.class;
    }

    PermissionHandler handler = getHandlerForResource(resource);

    if (handler == null) {
      throw new IdentityManagementException(String.format(
          "No permission handler registered for resource [%s]", resource.toString()));
    }

    return handler.unwrapResourceClass(resource);
  }
```

```java
    private PermissionHandler getHandlerForResource(Object resource) {
      PermissionHandler handler = null;

      if (resource.getClass().isAnnotationPresent(PermissionsHandledBy.class)) {
        Class<? extends PermissionHandler> handlerClass =
            resource.getClass().getAnnotation(PermissionsHandledBy.class).value();

        if (handlerClass != PermissionHandler.class) {
          try {
            handler = handlerClass.newInstance();
            classHandlers.put(resource.getClass(), handler);
          }
          catch (Exception ex) {
            throw new RuntimeException("Error instantiating IdentifierStrategy for object " + resource, ex);
          }
        }
      }

      for (PermissionHandler s : registeredHandlers) {
        if (s.canHandle(resource.getClass())) {
          handler = s;

          Class<?> resourceClassKey = resource.getClass();

          if (Class.class.isInstance(resource)) {
            resourceClassKey = (Class<?>) resource;
          }

          classHandlers.put(resourceClassKey, handler);
          break;
        }
      }

      return handler;
    }

    public Set<PermissionHandler> getRegisteredHandlers() {
      return registeredHandlers;
    }

    public void registerHandler(PermissionHandler handler) {
      this.registeredHandlers.add(handler);
    }
}
/*
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 *
```

```
package org.picketlink.idm.permission.acl.spi;

import java.io.Serializable;
import java.util.Set;


/**
 * Handles the generation of permission resource identifiers, and is responsible for the
 * marshaling / unmarshaling of permissions
 *
 * @author Shane Bryzak
 */
public interface PermissionHandler {
  /**
   * Returns true if the implementation can handle resources of the specified class
   *
   * @param resourceClass
   * @return
   */
  boolean canHandle(Class<?> resourceClass);

  /**
   * Returns a Serializable identifier value that can be used to uniquely identify the specified resource
   *
   * @param resource
   * @return
   */
  Serializable getIdentifier(Object resource);

  /**
   * Returns the formal class of the specified resource
   *
   * @param resource
```

```
    * @return
    */
  Class<?> unwrapResourceClass(Object resource);

  /**
   * Returns a set containing the available permissions for a resource class.  If there are no hard coded
   * permissions defined (i.e. any permission is allowed) then this method must return an empty set.
   *
   * @param resourceClass
   * @return
   */
  Set<String> listClassOperations(Class<?> resourceClass);

  /**
   * Returns a set containing the available permissions for a particular resource instance.  If there are no hard coded
   * permissions defined (i.e. any permission is allowed) then this method must return an empty set.
   *
   * @param resourceClass
   * @return
   */
  Set<String> listInstanceOperations(Class<?> resourceClass);

}
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 */

package org.picketlink.idm.permission.acl.spi;

import java.util.HashMap;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
```

```java
import org.picketlink.idm.permission.annotations.AllowedOperation;
import org.picketlink.idm.permission.annotations.AllowedOperations;

/**
 * Stored resource permissions can either be persisted as a comma-separated list of values, or as a
 * bit-masked numerical value where each bit represents a specific permission for that class. This
 * is a helper class that handles the conversion automatically and presents a unified API for
 * dealing with these persistent actions.
 *
 * @author Shane Bryzak
 */
public abstract class BaseAbstractPermissionHandler implements PermissionHandler {
  private Map<Class<?>, Boolean> usesMask = new HashMap<Class<?>, Boolean>();

  private Map<Class<?>, Map<String, Long>> instanceOperations = new ConcurrentHashMap<Class<?>,
Map<String, Long>>();

  private Map<Class<?>, Map<String, Long>> classOperations = new ConcurrentHashMap<Class<?>,
Map<String, Long>>();

  private synchronized void initOperations(Class<?> cls) {
    if (!instanceOperations.containsKey(cls)) {

      Map<String, Long> instanceOps = new HashMap<String, Long>();
      Map<String, Long> classOps = new HashMap<String, Long>();

      boolean useMask = false;

      AllowedOperations p = (AllowedOperations) cls.getAnnotation(AllowedOperations.class);

      if (p != null) {
        AllowedOperation[] operations = p.value();
        if (operations != null) {
          for (AllowedOperation operation : operations) {

            if (operation.classOperation()) {
              classOps.put(operation.value(), operation.mask());
            } else {
              instanceOps.put(operation.value(), operation.mask());
            }

            if (operation.mask() != 0) {
              useMask = true;
            }
          }
        }
      }
```

```java
        // Validate that all actions have a proper mask
        if (useMask) {
            Set<Long> masks = new HashSet<Long>();

            Set<String> ops = new HashSet<String>();
            ops.addAll(instanceOps.keySet());
            ops.addAll(classOps.keySet());

            for (String op : ops) {

                Long mask = instanceOps.containsKey(op) ? instanceOps.get(op) : classOps.get(op);
                if (masks.contains(mask)) {
                    throw new IllegalArgumentException("Class " + cls.getName() +
                            " defines a duplicate mask for permission operation [" + op + "]");
                }

                if (mask == 0) {
                    throw new IllegalArgumentException("Class " + cls.getName() +
                            " must define a valid mask value for operation [" + op + "]");
                }

                if ((mask & (mask - 1)) != 0) {
                    throw new IllegalArgumentException("Class " + cls.getName() +
                            " must define a mask value that is a power of 2 for operation [" + op + "]");
                }

                masks.add(mask);
            }
        }

        usesMask.put(cls, useMask);
        instanceOperations.put(cls, instanceOps);
    }
}

protected class PermissionSet {
    private Set<String> permissions = new HashSet<String>();

    private Class<?> resourceClass;

    public PermissionSet(Class<?> resourceClass, String members) {
        this.resourceClass = resourceClass;
        addMembers(members);
    }

    public void addMembers(String members) {
        if (members == null) {
```

```java
        return;
      }

    if (usesMask.get(resourceClass)) {
      // bit mask-based actions
      long vals = Long.valueOf(members);

      Map<String, Long> permissions = instanceOperations.get(resourceClass);
      for (String permission : permissions.keySet()) {
        long mask = permissions.get(permission).longValue();
        if ((vals & mask) != 0) {
          this.permissions.add(permission);
        }
      }
    }
    else {
      // comma-separated string based actions
      String[] permissions = members.split(",");
      for (String permission : permissions) {
        this.permissions.add(permission);
      }
    }
  }

  public boolean contains(String action) {
    return permissions.contains(action);
  }

  public PermissionSet add(String action) {
    permissions.add(action);
    return this;
  }

  public PermissionSet remove(String action) {
    permissions.remove(action);
    return this;
  }

  public Set<String> getPermissions() {
    return permissions;
  }

  public boolean isEmpty() {
    return permissions.isEmpty();
  }

  @Override
  public String toString() {
```

```java
        if (usesMask.get(resourceClass)) {
            Map<String, Long> actions = instanceOperations.get(resourceClass);
            long mask = 0;

            for (String member : permissions) {
                mask |= actions.get(member).longValue();
            }

            return "" + mask;
        } else {
            StringBuilder sb = new StringBuilder();
            for (String member : permissions) {
                if (sb.length() > 0) {
                    sb.append(',');
                }
                sb.append(member);
            }
            return sb.toString();
        }
    }
}

public PermissionSet createPermissionSet(Class<?> resourceClass, String members) {
    if (!instanceOperations.containsKey(resourceClass)) {
        initOperations(resourceClass);
    }

    return new PermissionSet(resourceClass, members);
}

@Override
public Set<String> listClassOperations(Class<?> resourceClass) {
    if (!classOperations.containsKey(resourceClass)) {
        initOperations(resourceClass);
    }

    Set<String> permissions = new HashSet<String>();

    for (String permission : classOperations.get(resourceClass).keySet()) {
        permissions.add(permission);
    }

    return permissions;
}

@Override
public Set<String> listInstanceOperations(Class<?> resourceClass) {
    if (!instanceOperations.containsKey(resourceClass)) {
```

```
      initOperations(resourceClass);
   }

   Set<String> permissions = new HashSet<String>();

   for (String permission : instanceOperations.get(resourceClass).keySet()) {
      permissions.add(permission);
   }

   return permissions;
   }
}
package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.Permission;
import org.picketlink.idm.spi.IdentityContext;

import java.io.Serializable;
import java.util.List;
import java.util.Set;

/**
 * Permission Store interface
 *
 * @author Shane Bryzak
 */
public interface PermissionStore {

   /**
    * Returns a List value containing all permissions for the specified resource.
    *
    * @param resource
    * @return
    */
   List<Permission> listPermissions(IdentityContext context, Object resource);

   /**
    * <p>Returns a list of all {@link org.picketlink.idm.permission.Permission} for the given {@link
org.picketlink.idm.model.IdentityType}.</p>
    *
    * @param identityType
    * @return
    */
   List<Permission> listPermissions(IdentityContext context, IdentityType identityType);

   /**
    * Returns a List value containing all permissions for the specified resource, having the specified operation
```

```
 *
 * @param resource
 * @param permission
 * @return
 */
List<Permission> listPermissions(IdentityContext context, Object resource, String operation);


/**
 * Returns a List value containing all permissions for all of the specified resource,
 * having the specified operation
 *
 * @param resources
 * @param operation
 * @return
 */
List<Permission> listPermissions(IdentityContext context, Set<Object> resources, String operation);


/**
 * Returns a List containing all the permissions for a resource that has not yet been loaded,
 * using the specified resource class and resource identifier value.
 *
 * @param resourceClass
 * @param identifier
 * @return
 */
List<Permission> listPermissions(IdentityContext context, Class<?> resourceClass, Serializable identifier);


/**
 * Returns a List containing all the permissions for a resource that has not yet been loaded,
 * using the specified resource class and resource identifier value, with the specified operation.
 *
 * @param resourceClass
 * @param identifier
 * @return
 */
List<Permission> listPermissions(IdentityContext context, Class<?> resourceClass, Serializable identifier, String
operation);


/**
 * Grants the specified permission
 *
 * @param permission
 * @return
 */
boolean grantPermission(IdentityContext context, IdentityType assignee, Object resource, String operation);


/**
 * Revokes the specified permission
```

```
     *
     * @param permission
     * @return
     */
    boolean revokePermission(IdentityContext context, IdentityType assignee, Object resource, String operation);

    /**
     * Revokes all permissions for the specified resource
     *
     * @param resource
     */
    void revokeAllPermissions(IdentityContext context, Object resource);
}
package org.picketlink.idm.permission.acl.spi;

import java.io.Serializable;
import java.util.Collections;
import java.util.Set;

/**
 * An extremely trivial permission handler that allows permissions to be assigned to String resources
 *
 * @author Shane Bryzak
 */
public class StringPermissionHandler implements PermissionHandler {
    @Override
    public boolean canHandle(Class<?> resourceClass) {
        return String.class.equals(resourceClass);
    }

    @Override
    public Serializable getIdentifier(Object resource) {
        checkResourceValid(resource);
        return (String) resource;
    }

    @Override
    public Class<?> unwrapResourceClass(Object resource) {
        checkResourceValid(resource);
        return String.class;
    }

    private void checkResourceValid(Object resource) {
        if (!(resource instanceof String)) {
            throw new IllegalArgumentException("Resource [" + resource + "] must be instance of String");
        }
    }
```

```java
    @Override
    public Set<String> listClassOperations(Class<?> resourceClass) {
        return Collections.emptySet();
    }

    @Override
    public Set<String> listInstanceOperations(Class<?> resourceClass) {
        return Collections.emptySet();
    }
}
package org.picketlink.idm.permission.acl.spi;

import org.picketlink.common.properties.Property;
import org.picketlink.common.properties.query.AnnotatedPropertyCriteria;
import org.picketlink.common.properties.query.PropertyQueries;
import org.picketlink.idm.IdentityManagementException;

import java.io.Serializable;
import java.lang.annotation.Annotation;
import java.util.Collections;
import java.util.Comparator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

import static org.picketlink.common.reflection.Reflections.classForName;

/**
 *
 * @author Shane Bryzak
 *
 */
public class EntityPermissionHandler extends BaseAbstractPermissionHandler {

    private static final String SEPARATOR = ":";

    private Class<? extends Annotation> entityAnnotationClass = null;

    private Class<? extends Annotation> idAnnotationClass = null;

    private Map<Class<?>, List<Property<Serializable>>> idProperties =
            new ConcurrentHashMap<Class<?>, List<Property<Serializable>>>();

    public EntityPermissionHandler() {
        try {
            entityAnnotationClass = classForName("javax.persistence.Entity");
            idAnnotationClass = classForName("javax.persistence.Id");
        } catch (ClassNotFoundException ex) {
```

```java
        // Entity permissions not supported
    }
}

@Override
public boolean canHandle(Class<?> resourceClass) {
    return entityAnnotationClass != null && resourceClass.isAnnotationPresent(entityAnnotationClass);
}

private List<Property<Serializable>> getIdProperties(Object resource) {
    Class<?> resourceClass = unwrapResourceClass(resource);

    if (!idProperties.containsKey(resourceClass)) {
        queryIdProperties(resourceClass);
    }
    return idProperties.get(resourceClass);
}

private synchronized void queryIdProperties(Class<?> resourceClass) {
    if (!idProperties.containsKey(resourceClass)) {
        List<Property<Serializable>> props = PropertyQueries.<Serializable>createQuery(resourceClass)
            .addCriteria(new AnnotatedPropertyCriteria(idAnnotationClass))
            .getResultList();

        // If there is more than one property sort them in ascending alphabetical order
        if (props.size() > 1) {
            Collections.sort(props, new Comparator<Property<Serializable>>() {
                @Override
                public int compare(Property<Serializable> a, Property<Serializable> b) {
                    return a.getName().compareTo(b.getName());
                }
            });
        }

        idProperties.put(resourceClass, props);
    }
}

/**
 * TODO we only support @Id identifiers at the moment, still need to add support for @EmbeddedId etc
 *
 * @param resource
 * @return
 */
@Override
public Serializable getIdentifier(Object resource) {
    List<Property<Serializable>> props = getIdProperties(resource);
```

```
          // If the entity has a single @Id property, return it
          if (props.size() == 1) {
              return props.get(0).getValue(resource);
          // Otherwise return a colon-separated list
          } else if (props.size() > 1) {
              StringBuilder sb = new StringBuilder();
              for (Property<Serializable> p : props) {
                  if (sb.length() > 0) {
                      sb.append(SEPARATOR);
                  }
                  sb.append(p.getValue(resource).toString());
              }
              return sb.toString();
          } else {
              throw new IdentityManagementException(
                      String.format("Could not locate @Id property for specified resource [%s]", resource));
          }
      }

      @Override
      public Class<?> unwrapResourceClass(Object resource) {
          return resource.getClass();
      }


}
package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.PartitionManager;
import org.picketlink.idm.PermissionManager;
import org.picketlink.idm.RelationshipManager;
import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.IdentityPermission;
import org.picketlink.idm.permission.Permission;
import org.picketlink.idm.permission.spi.PermissionVoter;

import java.io.Serializable;
import java.util.List;

/**
 *
 * @author Shane Bryzak
 */
public class PersistentPermissionVoter implements PermissionVoter {

    private final PartitionManager partitionManager;

    public PersistentPermissionVoter(PartitionManager partitionManager) {
```

```java
        this.partitionManager = partitionManager;
    }

    public VotingResult hasPermission(IdentityType recipient, Object resource, String operation) {
        if (recipient == null) {
            throw new IllegalArgumentException("recipient must not be null");
        }


        List<Permission> permissions = getPermissionManager(recipient).listPermissions(resource, operation);

        return checkPermission(recipient, permissions);
    }

    public VotingResult hasPermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier, String
operation) {
        if (recipient == null) {
            throw new IllegalArgumentException("recipient must not be null");
        }

        List<Permission> permissions = getPermissionManager(recipient).listPermissions(resourceClass, identifier,
operation);

        return checkPermission(recipient, permissions);
    }

    private PermissionManager getPermissionManager(IdentityType recipient) {
        return partitionManager.createPermissionManager(recipient.getPartition());
    }

    private VotingResult checkPermission(IdentityType recipient, List<Permission> permissions) {
        RelationshipManager relationshipManager = partitionManager.createRelationshipManager();

        for (Permission permission : permissions) {
            if (permission instanceof IdentityPermission) {
                IdentityPermission idPermission = (IdentityPermission) permission;

                if (relationshipManager.inheritsPrivileges(recipient, idPermission.getAssignee())) {
                    return VotingResult.ALLOW;
                }
            }
        }

        return VotingResult.NOT_APPLICABLE;
    }
}
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```

```
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*/

package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.permission.annotations.PermissionsHandledBy;

import java.io.Serializable;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

/**
* An Identifier strategy for class-based permission checks
*
* @author Shane Bryzak
*/
public class ClassPermissionHandler extends BaseAbstractPermissionHandler implements PermissionHandler {
    private Map<Class<?>, String> identifierNames = new ConcurrentHashMap<Class<?>, String>();

    @Override
    public boolean canHandle(Class<?> resourceClass) {
        return Class.class.equals(resourceClass);
    }

    @Override
    public Serializable getIdentifier(Object resource) {
        if (!(resource instanceof Class<?>)) {
            throw new IllegalArgumentException("Resource [" + resource + "] must be instance of Class");
        }

        return ((Class<?>) resource).getName();
    }

    private String getIdentifierName(Class<?> cls) {
        if (!identifierNames.containsKey(cls)) {
```

```java
        String name = null;

        if (cls.isAnnotationPresent(PermissionsHandledBy.class)) {
            PermissionsHandledBy handledBy = (PermissionsHandledBy)
    cls.getAnnotation(PermissionsHandledBy.class);
            if (handledBy.name() != null && !"".equals(handledBy.name().trim()))
            {
                name = handledBy.name();
            }
        }

        if (name == null) {
            name = cls.getName().substring(cls.getName().lastIndexOf('.') + 1);
        }

        identifierNames.put(cls, name);
        return name;
    }

    return identifierNames.get(cls);
}

@Override
public Class<?> unwrapResourceClass(Object resource) {
    return Class.class.isInstance(resource) ? (Class<?>) resource : resource.getClass();
}
}
```

2.625 picketlink-idm-impl 2.5.5.SP11

2.626 picketlink-idm-simple-schema 2.5.5.SP11

2.627 picketlink-impl 2.5.5.SP11

2.628 picketlink-wildfly8 2.5.5.SP11

2.629 Plexus :: Component Annotations 1.5.5

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2.630 Plexus Security Dispatcher Component 1.3

2.631 plexus-cipher 1.7

2.632 plexus-classworlds 2.5.2

2.633 plexus-interpolation 1.21

2.634 plexus-utils 3.0.20

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- jsp_2_2.xsd
- web-app_3_0.xsd
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2.698 txframework 5.8.1.Final

2.699 txw2 2.3.0

2.700 undertow-core 2.0.9.Final

2.701 undertow-js 1.0.2.Final

2.702 undertow-server 1.0.1.Final

2.703 undertow-servlet 2.0.9.Final

2.704 undertow-websockets-jsr 2.0.9.Final

2.705 vdx-wildfly 1.1.6

2.706 velocity-engine-core 2.0
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<style type="text/css">
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}

table, th, td {
 border: 1px solid silver;
}

th {
 text-align: left;
 background-color: silver;
}

th, td {
 padding: 4px;
 text-align: left;
}

tr:nth-child(even) {
 background-color: snow;
}
</style>
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<tr>
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   <td>Moment.js</td>
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*/

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import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**

* The permission to run as another principal within some security domain. Note that this permission is checked

relative
* to the security domain that the user is authenticated to. The principal name is the effective name after all rewrite
* operations have taken place.
*/
public final class RunAsPrincipalPermission extends AbstractNameOnlyPermission<RunAsPrincipalPermission> {

    private static final long serialVersionUID = -3361334389433669815L;

    /**
     * Construct a new instance.
     *
     * @param name the principal name, or {@code *} for global run-as permissions
     */
    public RunAsPrincipalPermission(final String name) {
        super(name);
    }

    /**
     * Construct a new instance.
     *
     * @param name the principal name, or {@code *} for global run-as permissions
     * @param ignored the permission actions (ignored)
     */
    public RunAsPrincipalPermission(final String name, @SuppressWarnings("unused") final String ignored) {
        this(name);
    }

    public RunAsPrincipalPermission withName(final String name) {
        return new RunAsPrincipalPermission(name);
    }
}
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*/

```java
package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractBooleanPermission;

/**
 * Establish whether the current identity has permission to complete an authentication ("log in").
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class LoginPermission extends AbstractBooleanPermission<LoginPermission> {

    private static final long serialVersionUID = - 5776174571770792690L;

    /**
     * Construct a new instance.
     */
    public LoginPermission() {
    }

    /**
     * Construct a new instance.
     *
     * @param name ignored
     */
    public LoginPermission(@SuppressWarnings("unused") final String name) {
    }

    /**
     * Construct a new instance.
     *
     * @param name ignored
     * @param actions ignored
     */
    public LoginPermission(@SuppressWarnings("unused") final String name, @SuppressWarnings("unused") final String actions) {
    }

    private static final LoginPermission INSTANCE = new LoginPermission();

    /**
     * Get the instance of this class.
     *
     * @return the instance of this class
     */
    public static LoginPermission getInstance() {
        return INSTANCE;
    }
```

```java
}
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 */

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
 * The permission to change a role mapper category on a security identity.
 */
public final class ChangeRoleMapperPermission extends
AbstractNameOnlyPermission<ChangeRoleMapperPermission> {

    private static final long serialVersionUID = - 6742662884954321082L;

    /**
     * Construct a new instance.
     *
     * @param name the category name, or {@code *} for all categories
     */
    public ChangeRoleMapperPermission(final String name) {
        super(name);
    }

    /**
     * Construct a new instance.
     *
     * @param name the category name, or {@code *} for all categories
     * @param ignored the permission actions (ignored)
     */
    public ChangeRoleMapperPermission(final String name, @SuppressWarnings("unused") final String ignored) {
        this(name);
```

```
    }

    public ChangeRoleMapperPermission withName(final String name) {
        return new ChangeRoleMapperPermission(name);
    }
}
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*/

/**
* Permissions which pertain to authentication and authorization.
*/
package org.wildfly.security.auth.permission;
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*/

package org.wildfly.security.permission;
```

```java
import java.io.IOException;
import java.io.ObjectInputStream;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.security._private.ElytronMessages;

final class UnionPermissionCollection extends PermissionCollection implements PermissionVerifier {
    private static final long serialVersionUID = 6731525842957764833L;

    private final PermissionCollection pc1;
    private final PermissionCollection pc2;

    UnionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
        this.pc1 = pc1;
        this.pc2 = pc2;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
    }

    public boolean implies(final Permission permission) {
        return pc1.implies(permission) || pc2.implies(permission);
    }

    public Enumeration<Permission> elements() {
        final Enumeration<Permission> e1 = pc1.elements();
        final Enumeration<Permission> e2 = pc2.elements();
        return new Enumeration<Permission>() {
            public boolean hasMoreElements() {
                return e1.hasMoreElements() || e2.hasMoreElements();
            }

            public Permission nextElement() {
                return e1.hasMoreElements() ? e1.nextElement() : e2.nextElement();
            }
        };
    }

    private void readObject(ObjectInputStream ois) throws IOException, ClassNotFoundException {
        ois.defaultReadObject();
        if (pc1 == null) {
            throw ElytronMessages.log.invalidObjectNull("pc1");
        }
        if (pc2 == null) {
```

```java
            throw ElytronMessages.log.invalidObjectNull("pc2");
        }
    }
}
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicLong;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class LongNameSetPermissionCollection extends NameSetPermissionCollection {

    private final AtomicLong bitSet = new AtomicLong();

    LongNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission, nameEnumeration);
    }

    private Permission permissionFor(int id) {
        return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        long setBits = getBitsForName(permission);
        final AtomicLong bitSet = this.bitSet;
```

```java
        long oldVal;
        do {
            oldVal = bitSet.get();
            if ((oldVal & setBits) == setBits) {
                return;
            }
        } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
    }

    public boolean implies(final Permission permission) {
        if (permission.getClass() != getSourcePermission().getClass()) {
            return false;
        }
        long testBits = getBitsForName(permission);
        return (bitSet.get() & testBits) == testBits;
    }

    public int size() {
        final int size = Long.bitCount(bitSet.get());
        return size == getNameEnumeration().size() ? 1 : size;
    }

    public EnumerationIterator<Permission> iterator() {
        return new Iter(bitSet.get());
    }

    public EnumerationIterator<Permission> elements() {
        return iterator();
    }

    private long getBitsForName(final Permission permission) {
        final long bits;
        final String name = permission.getName();
        final StringEnumeration nameEnumeration = getNameEnumeration();
        if ("*".equals(name)) {
            // add all names
            bits = (1L << nameEnumeration.size()) - 1;
        } else {
            bits = 1L << nameEnumeration.indexOf(name);
        }
        return bits;
    }

    private class Iter implements EnumerationIterator<Permission> {
        private long bits;

        Iter(final long bits) {
            this.bits = bits;
```

```java
        }

        public boolean hasMoreElements() {
            return bits != 0;
        }

        public Permission nextElement() {
            final long bits = this.bits;
            if (bits == 0) throw new NoSuchElementException();
            if (Long.bitCount(bits) == getNameEnumeration().size()) {
                this.bits = 0;
                return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
            }
            long bit = Long.lowestOneBit(bits);
            this.bits = bits & ~bit;
            return permissionFor(Long.numberOfTrailingZeros(bit));
        }

        public boolean hasNext() {
            return hasMoreElements();
        }

        public Permission next() {
            return nextElement();
        }
    }

}
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 */

package org.wildfly.security.permission;
```

```java
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Policy;
import java.security.ProtectionDomain;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
 * An interface for objects that can verify permissions.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
@FunctionalInterface
public interface PermissionVerifier {
    /**
     * Determine if the permission is verified by this object.
     *
     * @param permission the permission to verify (must not be {@code null})
     * @return {@code true} if the permission is implied by this verifier, {@code false} otherwise
     */
    boolean implies(Permission permission);

    /**
     * Return a new verifier which implies permissions which are implied both by this verifier and by the given
     * verifier.
     *
     * @param other the other verifier (must not be {@code null})
     * @return the new permission verifier (not {@code null})
     */
    default PermissionVerifier and(PermissionVerifier other) {
        Assert.checkNotNullParam("other", other);
        return permission -> implies(permission) && other.implies(permission);
    }

    /**
     * Return a new verifier which implies permissions which are implied either by this verifier or by the given
     * verifier.
     *
     * @param other the other verifier (must not be {@code null})
     * @return the new permission verifier (not {@code null})
     */
    default PermissionVerifier or(PermissionVerifier other) {
        Assert.checkNotNullParam("other", other);
        return permission -> implies(permission) || other.implies(permission);
    }

    /**
```

* Return a new verifier which implies permissions which are implied by only one of this verifier or the given
verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
default PermissionVerifier xor(PermissionVerifier other) {
    Assert.checkNotNullParam("other", other);
    return permission -> implies(permission) ^ other.implies(permission);
}

/**
 * Return a new verifier which implies the opposite of this verifier.
 *
 * @return the new permission verifier (not {@code null})
 */
default PermissionVerifier not() {
    return permission -> ! implies(permission);
}

/**
 * Return a new verifier which implies permissions which are implied by this verifier but not the given verifier.
 *
 * @param other the other verifier (must not be {@code null})
 * @return the new permission verifier (not {@code null})
 */
default PermissionVerifier unless(PermissionVerifier other) {
    Assert.checkNotNullParam("other", other);
    return permission -> implies(permission) && ! other.implies(permission);
}

/**
 * Check a permission, throwing an exception if the permission is not implied.
 *
 * @param permission the permission to check (must not be {@code null})
 * @throws SecurityException if the permission is not implied
 */
default void checkPermission(Permission permission) throws SecurityException {
    Assert.checkNotNullParam("permission", permission);
    if (! implies(permission)) {
        throw ElytronMessages.log.permissionCheckFailed(permission, this);
    }
}

/**
 * Get a permission verifier for a single permission.
 *
 * @param permission the permission (must not be {@code null})

```
    * @return the verifier (not {@code null})
    */
   static PermissionVerifier from(Permission permission) {
       Assert.checkNotNullParam("permission", permission);
       return permission instanceof PermissionVerifier ? (PermissionVerifier) permission : permission::implies;
   }

   /**
    * Get a permission verifier for a permission collection.
    *
    * @param permissionCollection the permission collection (must not be {@code null})
    * @return the verifier (not {@code null})
    */
   static PermissionVerifier from(PermissionCollection permissionCollection) {
       Assert.checkNotNullParam("permissionCollection", permissionCollection);
       return permissionCollection instanceof PermissionVerifier ? (PermissionVerifier) permissionCollection :
permissionCollection::implies;
   }

   /**
    * Get a permission verifier for a protection domain.
    *
    * @param protectionDomain the protection domain (must not be {@code null})
    * @return the verifier (not {@code null})
    */
   static PermissionVerifier from(ProtectionDomain protectionDomain) {
       Assert.checkNotNullParam("protectionDomain", protectionDomain);
       return protectionDomain instanceof PermissionVerifier ? (PermissionVerifier) protectionDomain :
protectionDomain::implies;
   }

   /**
    * Get a permission verifier for a policy's view of a protection domain.
    *
    * @param policy the policy (must not be {@code null})
    * @param protectionDomain the protection domain (must not be {@code null})
    * @return the verifier (not {@code null})
    */
   static PermissionVerifier from(Policy policy, ProtectionDomain protectionDomain) {
       Assert.checkNotNullParam("policy", policy);
       Assert.checkNotNullParam("protectionDomain", protectionDomain);
       return permission -> policy.implies(protectionDomain, permission);
   }

   /**
    * Convert this verifier a permission collection which implies everything this verifier implies.  If this instance
    * is already a {@code PermissionCollection} instance, then this instance may be cast and returned.  Otherwise,
    * this method may return a new, read-only collection, which cannot be iterated.
```

```
    *
    * @return the permission collection (not {@code null})
    */
   default PermissionCollection toPermissionCollection() {
      if (this instanceof PermissionCollection) {
         return (PermissionCollection) this;
      } else {
         return new PermissionVerifierPermissionCollection(this);
      }
   }

   /**
    * A verifier which implies no permissions.
    */
   PermissionVerifier NONE = permission -> false;

   /**
    * A verifier which implies all permissions.
    */
   PermissionVerifier ALL = permission -> true;
}
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*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;

/**
* A permission collection for permissions with a finite set of names, which is based on a simple bit set.
* In this type of collection, each bit represents a unique permission of a given name.  This type is not suitable for
* permissions with actions.
```

```java
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class NameSetPermissionCollection extends AbstractPermissionCollection {
    private static final long serialVersionUID = - 9191397492173027470L;
    private final StringEnumeration nameEnumeration;

    /**
     * Construct a new instance.  The name enumeration is pulled from the source permission object.
     *
     * @param sourcePermission the source permission object (must not be {@code null})
     * @return the permission collection
     */
    public static AbstractPermissionCollection newInstance(final AbstractNameSetOnlyPermission<?>
sourcePermission) {
        return newInstance(sourcePermission, sourcePermission.getNameEnumeration());
    }

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission object (must not be {@code null})
     * @param nameEnumeration the name enumeration for this permission type (must not be {@code null})
     * @return the permission collection
     */
    public static AbstractPermissionCollection newInstance(final AbstractPermission<?> sourcePermission, final
StringEnumeration nameEnumeration) {
        Assert.checkNotNullParam("sourcePermission", sourcePermission);
        Assert.checkNotNullParam("nameEnumeration", nameEnumeration);
        final int size = nameEnumeration.size();
        if (size <= 32) {
            return new IntNameSetPermissionCollection(sourcePermission, nameEnumeration);
        } else if (size <= 64) {
            return new LongNameSetPermissionCollection(sourcePermission, nameEnumeration);
        } else {
            // TODO: add GiantNameSetPermissionCollection which uses AtomicIntegerArray
            throw Assert.unsupported();
        }
    }

    NameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission);
        this.nameEnumeration = nameEnumeration;
    }

    StringEnumeration getNameEnumeration() {
        return nameEnumeration;
```

```
      }
  }
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  * limitations under the License.
  */

  package org.wildfly.security.permission;

  import java.security.Permission;
  import java.util.Collections;
  import java.util.Enumeration;
  import java.util.Iterator;

  /**
  * The permission collection type for {@link NoPermission}.
  *
  * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
  */
  final class NoPermissionCollection extends AbstractPermissionCollection {
      private static final long serialVersionUID = - 8826282614161412469L;

      private static NoPermissionCollection INSTANCE = new NoPermissionCollection();

      NoPermissionCollection() {
          super(NoPermission.getInstance());
      }

      static NoPermissionCollection getInstance() {
          return INSTANCE;
      }

      protected void doAdd(final AbstractPermission<?> permission) {
          // no action
      }
```

```java
    public boolean implies(final Permission permission) {
        return false;
    }

    public Enumeration<Permission> elements() {
        return Collections.emptyEnumeration();
    }

    public Iterator<Permission> iterator() {
        return Collections.emptyIterator();
    }

    public int size() {
        return 0;
    }

    Object readResolve() {
        return INSTANCE;
    }

    public boolean equals(final Object obj) {
        return obj instanceof NoPermissionCollection;
    }

    public int hashCode() {
        return getClass().hashCode();
    }
}
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 * limitations under the License.
 */

package org.wildfly.security.permission;
```

```java
import org.wildfly.security.util.StringEnumeration;

/**
 * An abstract base class for permissions which use a bit set to represent actions.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractActionSetPermission<This extends AbstractActionSetPermission<This>> extends
AbstractActionPermission<This> {
    private static final long serialVersionUID = 897239118282921196L;

    private final StringEnumeration actionEnumeration;
    private final int actionBits;
    private String actions;

    /**
     * Construct a new instance.  The given bits are masked by {@link #actionsMask()} before being stored in the
object
     * instance.
     *
     * @param name the permission name
     * @param actionBits the permission action bits
     * @param actionEnumeration the permission actions enumeration
     */
    protected AbstractActionSetPermission(final String name, final int actionBits, final StringEnumeration
actionEnumeration) {
        super(name);
        this.actionEnumeration = actionEnumeration;
        this.actionBits = actionBits & actionsMask();
        if (actionBits == actionsMask()) actions = "*";
    }

    /**
     * Construct a new instance.
     *
     * @param name the permission name
     * @param actions the permission actions string
     * @param actionEnumeration the permission actions enumeration
     */
    protected AbstractActionSetPermission(final String name, final String actions, final StringEnumeration
actionEnumeration) {
        super(name);
        this.actionEnumeration = actionEnumeration;
        final int actionBits = parseActions(actions);
        this.actionBits = actionBits & actionsMask();
        if (actionBits == actionsMask()) this.actions = "*";
    }
```

```java
/**
 * Get the action bits of this permission.
 *
 * @return the action bits
 */
public final int getActionBits() {
    return actionBits;
}

public final boolean actionsEquals(final This permission) {
    return permission != null && actionBits == permission.getActionBits();
}

public final boolean impliesActions(final This permission) {
    return permission != null && isSet(actionBits, permission.getActionBits());
}

public final boolean impliesActions(final String actions) {
    return impliesActionBits(parseActions(actions));
}

/**
 * Determine whether this permission's actions value implies the given action bits.
 *
 * @param actionBits the actions bits to test
 * @return {@code true} if this permission implies the given action bits; {@code false} otherwise
 */
public final boolean impliesActionBits(final int actionBits) {
    return isSet(this.actionBits, actionBits & actionsMask());
}

private int actionsMask() {
    return (1 << actionEnumeration.size()) - 1;
}

private int getActionBit(final String actionName) throws IllegalArgumentException {
    return 1 << actionEnumeration.indexOf(actionName);
}

private String getActionName(final int bit) throws IllegalArgumentException {
    return actionEnumeration.nameOf(Integer.numberOfTrailingZeros(bit));
}

protected final int actionsHashCode() {
    return actionBits;
}
```

```java
/**
 * Get the actions string.  The string is computed the first time this method is called, and cached thereafter.
 *
 * @return the actions string (not {@code null})
 */
public final String getActions() {
    final String actions = this.actions;
    if (actions != null) {
        return actions;
    }
    return this.actions = PermissionUtil.toActionsString(actionBits, this::getActionName);
}

/**
 * Parse the actions string into a bit set.
 *
 * @param actionsString the actions string
 * @return the bit set
 * @throws IllegalArgumentException if the actions string contained an invalid name or invalid syntax
 */
public final int parseActions(final String actionsString) throws IllegalArgumentException {
    return PermissionUtil.parseActions(actionsString, this::getActionBit);
}

public final This withActions(final String actionsString) {
    return withActionBits(parseActions(actionsString));
}

public final This withActionsFrom(final This permission) {
    return withActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the action bits from the given value.  The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not {@code null})
 */
public final This withActionBits(int actionBits) {
    return withNewActionBits(this.actionBits | actionBits & actionsMask());
}

public final This withoutActions(String actionsString) {
    return withoutActionBits(parseActions(actionsString));
}
```

```java
public final This withoutActionsFrom(final This permission) {
    return withoutActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the action bits from the given value.  The returned permission may or may not be a new
 * instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not {@code null})
 */
public final This withoutActionBits(int actionBits) {
    return withNewActionBits(this.actionBits & ~actionBits);
}

public final This withNewActions(String actionsString) {
    return withNewActionBits(parseActions(actionsString));
}

public final This withNewActionsFrom(final This permission) {
    return withNewActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new action bits as given by {@code actionBits}.
 * The returned permission may or may not be a new instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not {@code null})
 */
@SuppressWarnings("unchecked")
public final This withNewActionBits(int actionBits) {
    final int masked = actionBits & actionsMask();
    if (masked == this.actionBits) {
        return (This) this;
    } else {
        return constructWithActionBits(masked);
    }
}

/**
 * Construct or return a permission of this type with the same name as this one but with the given action bits.
 *
 * @param actionBits the action bits
 * @return the permission
```

```java
 */
protected abstract This constructWithActionBits(int actionBits);

// private

private static boolean isSet(final int bits, final int test) {
    return (bits & test) == test;
}
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class PermissionVerifierPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 5119756048547471645L;

    private final PermissionVerifier verifier;

    PermissionVerifierPermissionCollection(final PermissionVerifier verifier) {
        this.verifier = verifier;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
```

```
    }

    public boolean implies(final Permission permission) {
        return verifier.implies(permission);
    }

    public Enumeration<Permission> elements() {
        throw Assert.unsupported();
    }
}
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import org.wildfly.security.util.StringEnumeration;

/**
 * An actionless permission with a finite, fixed set of possible names.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractNameSetOnlyPermission<This extends AbstractNameSetOnlyPermission<This>>
extends AbstractNameOnlyPermission<This> {

    private final StringEnumeration nameEnumeration;

    /**
     * Construct a new instance.
     *
     * @param name the name of this permission
     * @param nameEnumeration the set of valid names for this permission type
     */
```

```java
    protected AbstractNameSetOnlyPermission(final String name, final StringEnumeration nameEnumeration) {
        super("*".equals(name) ? "*" : nameEnumeration.canonicalName(name));
        this.nameEnumeration = nameEnumeration;
    }

    StringEnumeration getNameEnumeration() {
        return nameEnumeration;
    }

    public AbstractPermissionCollection newPermissionCollection() {
        return NameSetPermissionCollection.newInstance(this, nameEnumeration);
    }

    public final boolean nameEquals(final String name) {
        return super.nameEquals(name);
    }

    public final boolean impliesName(final String name) {
        return super.impliesName(name);
    }

    protected final int nameHashCode() {
        return nameEnumeration.indexOf(getName());
    }
}
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 */

package org.wildfly.security.permission;

/**
 * A permission which implies nothing, not even itself.
 *
```

```java
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class NoPermission extends AbstractPermission<NoPermission> {
    private static final long serialVersionUID = 2339781690941885693L;

    private static final NoPermission INSTANCE = new NoPermission();

    /**
     * Construct a new instance.
     */
    public NoPermission() {
        super("<no permissions>");
    }

    /**
     * Construct a new instance.  The name parameter is ignored.
     *
     * @param ignored ignored
     */
    public NoPermission(final String ignored) {
        this();
    }

    /**
     * Construct a new instance.  The name and actions parameters are ignored.
     *
     * @param ignored1 ignored
     * @param ignored2 ignored
     */
    public NoPermission(final String ignored1, final String ignored2) {
        this();
    }

    /**
     * Get the no-permission instance.
     *
     * @return the no-permission instance (not {@code null})
     */
    public static NoPermission getInstance() {
        return INSTANCE;
    }

    /**
     * Always returns {@code false}.
     *
     * @param permission ignored
     * @return {@code false}
     */
```

```java
    public boolean implies(final NoPermission permission) {
        return false;
    }

    /**
     * Always returns {@code true} if the argument is not {@code null}.
     *
     * @param other the permission to compare to
     * @return {@code true} if {@code other} is not {@code null}; {@code false} otherwise
     */
    public boolean equals(final NoPermission other) {
        return other != null;
    }

    /**
     * Get the constant hash code.
     *
     * @return the constant hash code
     */
    public int hashCode() {
        return getClass().hashCode();
    }

    public AbstractPermissionCollection newPermissionCollection() {
        return NoPermissionCollection.getInstance();
    }
}
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import java.io.Serializable;
```

```java
import java.security.Permission;

final class SerializedPermission implements Serializable {
    private static final long serialVersionUID = 897239118282921196L;

    private final Class<? extends Permission> c;
    private final String n;
    private final String a;

    SerializedPermission(final Class<? extends Permission> permissionClass, final String name, final String action) {
        this.c = permissionClass;
        this.n = name;
        this.a = action;
    }

    Object readResolve() {
        return PermissionUtil.createPermission(c, n, a);
    }
}
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 */

package org.wildfly.security.permission;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.AllPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Permissions;
import java.util.Arrays;
import java.util.Collection;
```

```java
import java.util.Enumeration;
import java.util.Iterator;
import java.util.function.BiConsumer;
import java.util.function.BiPredicate;
import java.util.function.Consumer;
import java.util.function.IntFunction;
import java.util.function.LongFunction;
import java.util.function.Predicate;
import java.util.function.ToIntFunction;
import java.util.function.ToLongFunction;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
 * General permission utility methods and constants.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class PermissionUtil {

  private PermissionUtil() {
  }

  /**
   * A shared {@link AllPermission} instance.
   */
  public static final Permission ALL_PERMISSION = new AllPermission();

  /**
   * A read-only permission collection which implies {@link AllPermission}.
   */
  public static final PermissionCollection ALL_PERMISSIONS;

  /**
   * A permission collection which is empty.
   */
  public static final PermissionCollection EMPTY_PERMISSION_COLLECTION;

  /**
   * An array with no permissions in it.
   */
  public static final Permission[] NO_PERMISSIONS = new Permission[0];

  static {
    Permissions permissions = new Permissions();
    permissions.add(ALL_PERMISSION);
    permissions.setReadOnly();
```

```
    ALL_PERMISSIONS = permissions;
    permissions = new Permissions();
    permissions.setReadOnly();
    EMPTY_PERMISSION_COLLECTION = permissions;
}

/**
 * Parse an actions string, using the given function to map action strings to bits.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @param function the mapping function (must not be {@code null})
 * @return the union of all the action bits
 * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
 */
public static int parseActions(String actionsString, ToIntFunction<String> function) throws
IllegalArgumentException {
    Assert.checkNotNullParam("actionsString", actionsString);
    Assert.checkNotNullParam("function", function);
    int actions = 0;
    int pos = 0;
    int idx = actionsString.indexOf(',');
    for (;;) {
        String str;
        if (idx == -1) {
            str = actionsString.substring(pos, actionsString.length()).trim();
            if (! str.isEmpty()) actions |= function.applyAsInt(str);
            return actions;
        } else {
            str = actionsString.substring(pos, idx).trim();
            pos = idx + 1;
            if (! str.isEmpty()) actions |= function.applyAsInt(str);
            idx = actionsString.indexOf(',', pos);
        }
    }
}

/**
 * Parse an actions string, using the given function to map action strings to bits.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @param function the mapping function (must not be {@code null})
 * @return the union of all the action bits
 * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
 */
public static long parseActions(String actionsString, ToLongFunction<String> function) throws
IllegalArgumentException {
```

```java
        Assert.checkNotNullParam("actionsString", actionsString);
        Assert.checkNotNullParam("function", function);
        long actions = 0;
        int pos = 0;
        int idx = actionsString.indexOf(',');
        for (;;) {
            String str;
            if (idx == -1) {
                str = actionsString.substring(pos, actionsString.length()).trim();
                if (! str.isEmpty()) actions |= function.applyAsLong(str);
                return actions;
            } else {
                str = actionsString.substring(pos, idx).trim();
                pos = idx + 1;
                if (! str.isEmpty()) actions |= function.applyAsLong(str);
                idx = actionsString.indexOf(',', pos);
            }
        }
    }

    /**
     * Deparse an action bit set, using the given function to map action bits to strings.  If the bits are all clear,
     * the empty string {@code ""} is returned.
     *
     * @param actionBits the action bit set
     * @param mappingFunction the mapping function (must not be {@code null})
     * @return the actions string (not {@code null})
     */
    public static String toActionsString(int actionBits, IntFunction<String> mappingFunction) {
        Assert.checkNotNullParam("mappingFunction", mappingFunction);
        final StringBuilder sb = new StringBuilder();
        if (actionBits == 0) return "";
        int lb = Integer.highestOneBit(actionBits);
        sb.append(mappingFunction.apply(lb));
        actionBits &= ~lb;
        while (actionBits != 0) {
            lb = Integer.highestOneBit(actionBits);
            sb.append(',').append(mappingFunction.apply(lb));
            actionBits &= ~lb;
        }
        return sb.toString();
    }

    /**
     * Deparse an action bit set, using the given function to map action bits to strings.  If the bits are all clear,
     * the empty string {@code ""} is returned.
     *
     * @param actionBits the action bit set
```

```java
 * @param mappingFunction the mapping function (must not be {@code null})
 * @return the actions string (not {@code null})
 */
public static String toActionsString(long actionBits, LongFunction<String> mappingFunction) {
    Assert.checkNotNullParam("mappingFunction", mappingFunction);
    final StringBuilder sb = new StringBuilder();
    if (actionBits == 0) return "";
    long lb = Long.highestOneBit(actionBits);
    sb.append(mappingFunction.apply(lb));
    actionBits &= ~lb;
    while (actionBits != 0) {
        lb = Long.highestOneBit(actionBits);
        sb.append(',').append(mappingFunction.apply(lb));
        actionBits &= ~lb;
    }
    return sb.toString();
}

/**
 * Create an iterable view over a permission collection.
 *
 * @param pc the permission collection (must not be {@code null})
 * @return the iterable view (not {@code null})
 */
public static Iterable<Permission> iterable(PermissionCollection pc) {
    return () -> {
        final Enumeration<Permission> elements = pc.elements();
        return new Iterator<Permission>() {
            public boolean hasNext() {
                return elements.hasMoreElements();
            }

            public Permission next() {
                return elements.nextElement();
            }
        };
    };
}

/**
 * Perform an action for each permission in the given collection.
 *
 * @param collection the collection (must not be {@code null})
 * @param consumer the consumer to which each permission should be passed (must not be {@code null})
 */
public static void forEachIn(PermissionCollection collection, Consumer<Permission> consumer) {
    Assert.checkNotNullParam("collection", collection);
    Assert.checkNotNullParam("consumer", consumer);
```

```java
      final Enumeration<Permission> elements = collection.elements();
      while (elements.hasMoreElements()) {
        consumer.accept(elements.nextElement());
      }
    }

    /**
     * Perform an action for each permission in the given collection.
     *
     * @param collection the collection (must not be {@code null})
     * @param parameter the parameter to pass to the consumer
     * @param consumer the consumer to which each permission should be passed (must not be {@code null})
     * @param <P> the type of the parameter
     * @return the {@code parameter} that was passed in
     */
    public static <P> P forEachIn(PermissionCollection collection, BiConsumer<P, Permission> consumer, P
parameter) {
      Assert.checkNotNullParam("collection", collection);
      Assert.checkNotNullParam("consumer", consumer);
      final Enumeration<Permission> elements = collection.elements();
      while (elements.hasMoreElements()) {
        consumer.accept(parameter, elements.nextElement());
      }
      return parameter;
    }

    /**
     * Run a test for each permission in the given collection.  If the predicate returns {@code false} for any element,
     * {@code false} is returned; otherwise, {@code true} is returned.
     *
     * @param collection the collection (must not be {@code null})
     * @param predicate the predicate to apply to each element (must not be {@code null})
     * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
     */
    public static boolean forEachIn(PermissionCollection collection, Predicate<Permission> predicate) {
      Assert.checkNotNullParam("collection", collection);
      Assert.checkNotNullParam("predicate", predicate);
      final Enumeration<Permission> elements = collection.elements();
      while (elements.hasMoreElements()) {
        if (! predicate.test(elements.nextElement())) {
          return false;
        }
      }
      return true;
    }

    /**
     * Run a test for each permission in the given collection.  If the predicate returns {@code false} for any element,
```

```
 * {@code false} is returned; otherwise, {@code true} is returned.
 *
 * @param collection the collection (must not be {@code null})
 * @param parameter the parameter to pass to the consumer
 * @param predicate the predicate to apply to each element (must not be {@code null})
 * @param <P> the type of the parameter
 * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
 */
public static <P> boolean forEachIn(PermissionCollection collection, BiPredicate<P, Permission> predicate, P
parameter) {
    Assert.checkNotNullParam("collection", collection);
    Assert.checkNotNullParam("predicate", predicate);
    final Enumeration<Permission> elements = collection.elements();
    while (elements.hasMoreElements()) {
        if (! predicate.test(parameter, elements.nextElement())) {
            return false;
        }
    }
    return true;
}

/**
 * Create a permission collection that is the union of two permission collections.  The permission
 * collections must be read-only.
 *
 * @param pc1 the first permission collection (must not be {@code null})
 * @param pc2 the second permission collection (must not be {@code null})
 * @return a new permission collection that is the union of the two collections (not {@code null})
 */
public static PermissionCollection union(PermissionCollection pc1, PermissionCollection pc2) {
    Assert.checkNotNullParam("pc1", pc1);
    Assert.checkNotNullParam("pc2", pc2);
    if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
        throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
    }
    if (pc1.implies(ALL_PERMISSION) || pc2.implies(ALL_PERMISSION)) {
        return ALL_PERMISSIONS;
    } else {
        return new UnionPermissionCollection(pc1, pc2);
    }
}

/**
 * Create a permission collection that is the intersection of two permission collections.  The permission
 * collections must be read-only.
 *
 * @param pc1 the first permission collection (must not be {@code null})
 * @param pc2 the second permission collection (must not be {@code null})
```

```java
 * @return a new permission collection that is the intersection of the two collections (not {@code null})
 */
public static PermissionCollection intersection(PermissionCollection pc1, PermissionCollection pc2) {
    Assert.checkNotNullParam("pc1", pc1);
    Assert.checkNotNullParam("pc2", pc2);
    if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
        throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
    }
    if (pc1.implies(ALL_PERMISSION)) {
        return pc2;
    } else if (pc2.implies(ALL_PERMISSION)) {
        return pc1;
    } else {
        return new IntersectionPermissionCollection(pc1, pc2);
    }
}

/**
 * Determine if one collection implies all the permissions in the other collection.
 *
 * @param collection the collection to check against (must not be {@code null})
 * @param testCollection the collection whose permissions are to be tested (must not be {@code null})
 * @return {@code true} if {@code collection} implies all of the permissions in {@code testCollection}, {@code
 false} otherwise
 */
public static boolean impliesAll(PermissionCollection collection, PermissionCollection testCollection) {
    return forEachIn(collection, PermissionCollection::implies, testCollection);
}

/**
 * Determine if two permission collections are equal, that is, each collection implies all of the permissions in the
 * other collection.
 *
 * @param pc1 the first collection (must not be {@code null})
 * @param pc2 the second collection (must not be {@code null})
 * @return {@code true} if the collections imply one another, {@code false} otherwise
 */
public static boolean equals(PermissionCollection pc1, PermissionCollection pc2) {
    return impliesAll(pc1, pc2) && impliesAll(pc2, pc1);
}

/**
 * Add all of the permissions from the source collection to the target collection.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the source collection (must not be {@code null})
 * @return the target collection (not {@code null})
 */
```

```java
public static PermissionCollection addAll(PermissionCollection target, PermissionCollection source) {
    return forEachIn(source, PermissionCollection::add, target);
}

/**
 * Add all of the permissions from the source collection to the target collection.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the source collection (must not be {@code null})
 * @return the target collection (not {@code null})
 */
public static PermissionCollection addAll(PermissionCollection target, Collection<Permission> source) {
    source.forEach(target::add);
    return target;
}

/**
 * Add a permission to a collection, returning the target collection.  If the permission is {@code null}, it is
 * not added.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the permission to add
 * @return the target collection (not {@code null})
 */
public static PermissionCollection add(PermissionCollection target, Permission source) {
    Assert.checkNotNullParam("target", target);
    if (source != null) target.add(source);
    return target;
}

/**
 * Instantiate a permission with the given class name, permission name, and actions.
 *
 * @param classLoader the class loader to search in ({@code null} indicates the system class loader)
 * @param className the name of the permission class to instantiate (must not be {@code null})
 * @param name the permission name (may be {@code null} if allowed by the permission class)
 * @param actions the permission actions (may be {@code null} if allowed by the permission class)
 * @return the permission object (not {@code null})
 * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
 * @throws ClassCastException if the class name does not refer to a subclass of {@link Permission}
 */
public static Permission createPermission(final ClassLoader classLoader, final String className, final String
name, final String actions) {
    Assert.checkNotNullParam("className", className);
    final Class<? extends Permission> permissionClass;
    try {
        permissionClass = Class.forName(className, true, classLoader).asSubclass(Permission.class);
    } catch (ClassNotFoundException e) {
```

```java
            throw ElytronMessages.log.permissionClassMissing(className, e);
        }
        return createPermission(permissionClass, name, actions);
    }

    /**
     * Instantiate a permission with the given class, permission name, and actions.
     *
     * @param permissionClass the permission class to instantiate (must not be {@code null})
     * @param name the permission name (may be {@code null} if allowed by the permission class)
     * @param actions the permission actions (may be {@code null} if allowed by the permission class)
     * @return the permission object (not {@code null})
     * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
     */
    public static Permission createPermission(final Class<? extends Permission> permissionClass, final String name,
final String actions) {
        Assert.checkNotNullParam("permissionClass", permissionClass);
        Constructor<? extends Permission> noArgs = null;
        Constructor<? extends Permission> oneArg = null;
        Constructor<? extends Permission> twoArg = null;
        for (Constructor<?> raw : permissionClass.getConstructors()) {
            @SuppressWarnings("unchecked")
            Constructor<? extends Permission> ctor = (Constructor<? extends Permission>) raw;
            final Class<?>[] parameterTypes = ctor.getParameterTypes();
            if (parameterTypes.length == 2 && parameterTypes[0] == String.class && parameterTypes[1] ==
String.class) {
                twoArg = ctor;
            } else if (parameterTypes.length == 1 && parameterTypes[0] == String.class) {
                oneArg = ctor;
            } else if (parameterTypes.length == 0) {
                noArgs = ctor;
            }
        }
        try {
            if (twoArg != null) {
                return twoArg.newInstance(name, actions);
            } else if (oneArg != null) {
                return oneArg.newInstance(name);
            } else if (noArgs != null) {
                return noArgs.newInstance();
            } else {
                throw ElytronMessages.log.noPermissionConstructor(permissionClass.getName());
            }
        } catch (IllegalAccessException e) {
            throw new IllegalAccessError(e.getMessage());
        } catch (InstantiationException e) {
            throw ElytronMessages.log.permissionInstantiation(permissionClass.getName(), e);
        } catch (InvocationTargetException e) {
```

```java
        try {
            throw e.getCause();
        } catch (Error | RuntimeException cause) {
            throw cause;
        } catch (Throwable cause) {
            throw new UndeclaredThrowableException(cause);
        }
    }
}

/**
 * Get a read-only collection of the given permissions.
 *
 * @param permissions the permissions to assign
 * @return the read-only collection
 */
public static PermissionCollection readOnlyCollectionOf(Permission... permissions) {
    final int length = permissions.length;
    if (length == 0) {
        return EMPTY_PERMISSION_COLLECTION;
    } else {
        Permissions collection = new Permissions();
        addAll(collection, Arrays.asList(permissions));
        collection.setReadOnly();
        return collection;
    }
}
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

package org.wildfly.security.permission;
```

```java
import org.wildfly.common.Assert;

import java.security.Permission;

/**
 * An abstract base class for named permissions with useful API and implementation methods.
 * <p>
 * Subclasses of this class are always serialized as a special serialized permission object, which captures the type
class,
 * the permission name (if any), and the permission action (if any) as a string.  Therefore, none of the fields of any
 * subclass of this class are serialized unless they are included in the name or actions properties.
 * <p>
 * Concrete subclasses are expected to be immutable and final.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractNamedPermission<This extends AbstractNamedPermission<This>> extends
AbstractPermission<This> {
    private static final long serialVersionUID = 5774685776540853292L;

    /**
     * Construct a new instance.
     *
     * @param name the permission name (must not be {@code null})
     */
    protected AbstractNamedPermission(final String name) {
        super(Assert.checkNotNullParam("name", name));
    }

    /**
     * Create a new permission which is identical to this one, except with a new {@code name}.
     *
     * @param name the name to use (must not be {@code null})
     * @return the new permission
     */
    public abstract This withName(String name);

    /**
     * Determine whether this permission has a name equal to the given name.
     *
     * @param name the name to check
     * @return {@code true} if this permission's name is equal to the given name, {@code false} otherwise
     */
    public boolean nameEquals(final String name) {
        return getName().equals(name);
    }

    /**
```

```
     * Determine whether this permission has a name equal to the name of the given permission.  If the given
  permission
     * is of a different type than this permission, {@code false} is returned.
     *
     * @param permission the permission whose name is to be checked
     * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
  otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean nameEquals(final Permission permission) {
        return permission != null && permission.getClass() == getClass() && nameEquals((This) permission);
    }

    /**
     * Determine whether this permission has a name equal to the name of the given permission.
     *
     * @param permission the permission whose name is to be checked
     * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
  otherwise
     */
    public final boolean nameEquals(final This permission) {
        return permission != null && nameEquals(permission.getName());
    }

    /**
     * Get the hash code of the name.  The default implementation returns {@code getName().hashCode()}.
     *
     * @return the hash code of the name
     */
    protected int nameHashCode() {
        return getName().hashCode();
    }

    /**
     * Determine whether this permission implies the given name.
     *
     * @param name the name to check
     * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
     */
    public boolean impliesName(final String name) {
        return nameEquals("*") || nameEquals(name);
    }

    /**
     * Determine whether this permission implies the name of the given permission.  If
     * the permission is not of the same type as this permission, {@code false} is returned.
     *
     * @param permission the permission whose name is to be checked
```

```java
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean impliesName(final Permission permission) {
    return permission != null && permission.getClass() == getClass() && impliesName((This) permission);
}

/**
 * Determine whether this permission implies the name of the given permission.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
public boolean impliesName(final This permission) {
    return permission != null && impliesName(permission.getName());
}

public boolean implies(final This permission) {
    return permission != null && impliesName(permission);
}

public boolean equals(final This other) {
    return other != null && nameEquals(other);
}

public int hashCode() {
    return getClass().hashCode() * 71 + nameHashCode();
}
}
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 */

package org.wildfly.security.permission;
```

```java
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;
import java.util.Iterator;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
 * Base class for useful permission collections.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractPermissionCollection extends PermissionCollection implements Iterable<Permission>,
PermissionVerifier {
    private static final long serialVersionUID = - 7532778883140764647L;

    private final AbstractPermission<?> sourcePermission;

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission for this collection (must not be {@code null})
     */
    protected AbstractPermissionCollection(final AbstractPermission<?> sourcePermission) {
        Assert.checkNotNullParam("sourcePermission", sourcePermission);
        this.sourcePermission = sourcePermission;
    }

    /**
     * Get the size of this permission collection.
     *
     * @return the size of this permission collection
     */
    public abstract int size();

    /**
     * Iterate over this permission collection.
     *
     * @return the iterator (not {@code null})
     */
    public abstract Iterator<Permission> iterator();

    /**
     * Iterate over this permission collection.
     *
     * @return the iterator (not {@code null})
```

```java
     */
    public abstract Enumeration<Permission> elements();

    /**
     * Add an item to this collection.  The permission class must be the same as the source permission's class.
     *
     * @param permission the permission to add (must not be {@code null})
     */
    public final void add(final Permission permission) {
        Assert.checkNotNullParam("permission", permission);
        if (isReadOnly()) throw ElytronMessages.log.readOnlyPermissionCollection();
        @SuppressWarnings("rawtypes")
        Class<? extends AbstractPermission> expected =
sourcePermission.getClass().asSubclass(AbstractPermission.class);
        if (expected != permission.getClass()) {
            throw ElytronMessages.log.invalidPermissionType(expected, permission);
        }
        doAdd(expected.cast(permission));
    }

    /**
     * Perform the work of adding a permission.  The permission is guaranteed to be of the correct type and the
collection
     * is guaranteed to have been writable at the time the {@link #add(Permission)} method was called.
     *
     * @param permission the non-{@code null} permission
     */
    protected abstract void doAdd(final AbstractPermission<?> permission);

    final AbstractPermission<?> getSourcePermission() {
        return sourcePermission;
    }

    final Object writeReplace() {
        return new SerializedPermissionCollection(this);
    }
}
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 *    http://www.apache.org/licenses/LICENSE-2.0
 *
```

```java
package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.common.Assert;

/**
 * An abstract base class for named permissions that have actions, with useful API and implementation methods.  All
 * the constraints described in {@link AbstractNamedPermission} apply.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractActionPermission<This extends AbstractActionPermission<This>> extends
AbstractNamedPermission<This> {
    private static final long serialVersionUID = - 1366777243917643233L;

    /**
     * Construct a new instance.
     *
     * @param name the permission name
     */
    protected AbstractActionPermission(final String name) {
        super(name);
    }

    /**
     * Determine whether this permission implies another permission.  Returns {@code true} if
     * both {@link #impliesActions(AbstractActionPermission)} and {@link
#impliesName(AbstractNamedPermission)}
     * return {@code true}.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public final boolean implies(final This permission) {
        return permission != null && impliesActions(permission) && impliesName(permission);
    }

    /**
     * Determine whether this permission is equal to another permission.  Returns {@code true} if
     * both {@link #actionsEquals(AbstractActionPermission)} and {@link
```

```
#nameEquals(AbstractNamedPermission)}
 * return {@code true}.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public final boolean equals(final This permission) {
    return super.equals(permission) && actionsEquals(permission);
}

public final int hashCode() {
    return super.hashCode() * 53 + actionsHashCode();
}

/**
 * Determine whether the actions of this permission are equal to the given {@code actions}.
 *
 * @param actions the actions string (must not be {@code null})
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
public abstract boolean actionsEquals(String actions);

/**
 * Determine whether the actions of this permission are equal to the actions of given {@code permission}.  If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean actionsEquals(Permission permission) {
    return permission != null && permission.getClass() == getClass() && actionsEquals((This) permission);
}

/**
 * Determine whether the actions of this permission are equal to the actions of given {@code permission}.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
public abstract boolean actionsEquals(This permission);

/**
 * Get the actions hash code.
 *
 * @return the actions hash code
 */
protected abstract int actionsHashCode();
```

```
/**
 * Determine whether this permission's actions value implies the given actions value.
 *
 * @param actions the actions to test (must not be {@code null})
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean impliesActions(String actions);

/**
 * Determine whether this permission's actions value implies the actions of the given {@code permission}.  If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean impliesActions(Permission permission) {
    return permission != null && permission.getClass() == getClass() && impliesActions((This) permission);
}

/**
 * Determine whether this permission's actions value implies the actions of the given {@code permission}.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean impliesActions(This permission);

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the actions from the given string.  The returned permission may or may not be a new
 * instance, and may be equal to this instance.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @return the permission (not {@code null})
 */
public abstract This withActions(String actionsString);

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the actions from the given permission.  The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param permission the other permission (must not be {@code null})
 * @return the permission (not {@code null})
 */
```

```java
    public This withActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withActions(permission.getActions());
    }

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the actions from the given string.  The returned permission may or may not be a new
     * instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withoutActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the actions from the given permission.  The returned permission may or may not
     * be a new
     * instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withoutActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withActions(permission.getActions());
    }

    /**
     * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withNewActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withNewActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
```

```java
      return withNewActions(permission.getActions());
   }
}
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 * limitations under the License.
 */

package org.wildfly.security.permission;

/**
 * A base class for nameless and actionless permissions that are either granted or not granted.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractBooleanPermission<This extends AbstractBooleanPermission<This>> extends
AbstractPermission<This> {
   /**
    * Construct a new instance.
    */
   protected AbstractBooleanPermission() {
      super("");
   }

   public boolean implies(final This permission) {
      return permission != null;
   }

   public boolean equals(final This other) {
      return other != null;
   }

   public int hashCode() {
      return getClass().hashCode();
   }
```

```java
   public AbstractPermissionCollection newPermissionCollection() {
      return new BooleanPermissionCollection(this);
   }
}
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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;
import org.wildfly.security.util.StringMapping;

/**
 * A general Elytron permission.  The permission {@code name} must be one of the following:
 * <ul>
 *     <li>{@code authenticate}</li>
 *     <li>{@code createAuthenticator}</li>
 *     <li>{@code createAuthenticationContextConfigurationClient}</li>
 *     <li>{@code createSecurityDomain}</li>
 *     <li>{@code createSecurityRealm}</li>
 *     <li>{@code registerSecurityDomain}</li>
 *     <li>{@code getSecurityDomain}</li>
 *     <li>{@code unregisterSecurityDomain}</li>
 *     <li>{@code setRunAsPrincipal}</li>
 *     <li>{@code createServerAuthenticationContext}</li>
 *     <li>{@code getPrivateCredentials}</li>
 *     <li>{@code getIdentity}</li>
 *     <li>{@code getIdentityForUpdate}</li>
 *     <li>{@code createAdHocIdentity}</li>
 * </ul>
 * The {@code actions} are not used and should be empty or {@code null}.
```

```java
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class ElytronPermission extends AbstractNameSetOnlyPermission<ElytronPermission> {

    private static final long serialVersionUID = 6124294238228442419L;

    private static final StringEnumeration strings = StringEnumeration.of(
        "authenticate",
        "createAuthenticator",
        "createAuthenticationContextConfigurationClient",
        "createSecurityDomain",
        "createSecurityRealm",
        "registerSecurityDomain",
        "getSecurityDomain",
        "unregisterSecurityDomain",
        "setRunAsPrincipal",
        "createServerAuthenticationContext",
        "getPrivateCredentials",
        "getIdentity",
        "getIdentityForUpdate",
        "createAdHocIdentity"
    );

    static final StringMapping<ElytronPermission> mapping = new StringMapping<>(strings,
ElytronPermission::new);

    private static final ElytronPermission allPermission = new ElytronPermission("*");

    /**
     * Construct a new instance.
     *
     * @param name the name of the permission
     */
    public ElytronPermission(final String name) {
        this(name, null);
    }

    /**
     * Construct a new instance.
     *
     * @param name the name of the permission
     * @param actions the actions (should be empty)
     */
    public ElytronPermission(final String name, final String actions) {
        super(name, strings);
        requireEmptyActions(actions);
    }
```

```java
    public ElytronPermission withName(final String name) {
        return forName(name);
    }

    /**
     * Get the permission with the given name.
     *
     * @param name the name (must not be {@code null})
     * @return the permission (not {@code null})
     * @throws IllegalArgumentException if the name is not valid
     */
    public static ElytronPermission forName(final String name) {
        Assert.checkNotNullParam("name", name);
        return name.equals("*") ? allPermission : mapping.getItemByString(name);
    }
}
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.Set;

/**
 * A permission collection type which either does or does not hold its instance.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
```

```java
public final class BooleanPermissionCollection extends AbstractPermissionCollection {
    private volatile boolean added;

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission for this collection (must not be {@code null})
     */
    public BooleanPermissionCollection(final AbstractPermission<?> sourcePermission) {
        super(sourcePermission);
    }

    public int size() {
        return added ? 1 : 0;
    }

    public Iterator<Permission> iterator() {
        return added ? getSingletonCollection().iterator() : Collections.emptyIterator();
    }

    public Enumeration<Permission> elements() {
        return added ? Collections.enumeration(getSingletonCollection()) : Collections.emptyEnumeration();
    }

    private Set<Permission> getSingletonCollection() {
        return Collections.singleton(getSourcePermission());
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        added = true;
    }

    public boolean implies(final Permission permission) {
        return added && permission.getClass() == getSourcePermission().getClass();
    }
}
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*/

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;

final class SerializedPermissionCollection implements Serializable {
  private static final long serialVersionUID = - 8745428905589938281L;

  private final Permission s;
  private final Permission[] p;
  private final boolean r;

  SerializedPermissionCollection(final AbstractPermissionCollection collection) {
    s = collection.getSourcePermission();
    final ArrayList<Permission> list = new ArrayList<>(collection.size());
    collection.forEach(list::add);
    p = list.toArray(PermissionUtil.NO_PERMISSIONS);
    r = collection.isReadOnly();
  }

  Object readResolve() {
    final PermissionCollection collection = s.newPermissionCollection();
    for (Permission permission : p) {
      collection.add(permission);
    }
    if (r) collection.setReadOnly();
    return collection;
  }
}
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*
```

```java
package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security._private.ElytronMessages;
import org.wildfly.security.util.ArrayIterator;

/**
 * A trivially simple permission collection, suitable as a default for most permission types (though probably not as efficient
 * as a specialized type in many cases).
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class SimpleActionBitsPermissionCollection extends AbstractPermissionCollection {

    private static final AbstractActionSetPermission<?>[] NO_PERMS = new AbstractActionSetPermission<?>[0];

    private final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = new AtomicReference<>(NO_PERMS);

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission for this collection (must not be {@code null})
     */
    public SimpleActionBitsPermissionCollection(final AbstractActionSetPermission<?> sourcePermission) {
        super(sourcePermission);
    }

    public int size() {
        return permissionsRef.get().length;
    }

    @Override
    protected void doAdd(final AbstractPermission<?> permission) {
        if (permission instanceof AbstractActionSetPermission<?>) {
            doAdd((AbstractActionSetPermission<?>) permission);
```

```
        }
        throw ElytronMessages.log.invalidPermissionType(AbstractActionSetPermission.class, permission);
    }

    /**
     * Adds a permission.
     *
     * @param permission the non-{@code null} permission
     */
    protected void doAdd(final AbstractActionSetPermission<?> permission) {
        AbstractActionSetPermission<?>[] oldVal, readVal, newVal;
        int count;
        final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = this.permissionsRef;
        do {
            readVal = permissionsRef.get();
            count = 0;
            do {
                oldVal = readVal;
                AbstractActionSetPermission<?> merged = permission;
                retry: for (;;) {
                    for (AbstractActionSetPermission<?> test : oldVal) {
                        if (test.implies(merged)) {
                            // fail fast
                            return;
                        }
                        if (test.nameEquals(merged)) {
                            // combine
                            merged = merged.withActionBits(permission.getActionBits());
                            // test again with merged permission
                            count = 0;
                            continue retry;
                        }
                        if (! merged.implies(test)) {
                            // prepare to skip any permissions that are obviated by this one
                            count ++;
                        }
                    }
                    break;
                }
                // see if it's still what we expect before we commit to the possibly expensive update...
                readVal = permissionsRef.get();
            } while (readVal != oldVal);
            newVal = new AbstractActionSetPermission<?>[count + 1];
            int i = 0;
            for (AbstractActionSetPermission<?> test : oldVal) {
                if (! permission.implies(test)) {
                    newVal[i++] = test;
                }
```

```java
          }
          newVal[i] = permission;
      } while (! permissionsRef.compareAndSet(oldVal, newVal));
    }

    public boolean implies(final Permission permission) {
        for (Permission test : permissionsRef.get()) {
            if (test.implies(permission)) {
                return true;
            }
        }
        return false;
    }

    public Iterator<Permission> iterator() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }

    public Enumeration<Permission> elements() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
```

```java
import java.util.concurrent.ConcurrentHashMap;

/**
 * A permission collection for actionless permissions which are organized by name.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class ByNamePermissionCollection extends AbstractPermissionCollection {
    private final ConcurrentHashMap<String, Permission> byName = new ConcurrentHashMap<>();
    private volatile Permission all;

    /**
     * The source permission used to construct this collection.
     *
     * @param sourcePermission the source permission (must not be {@code null})
     */
    public ByNamePermissionCollection(final AbstractPermission<?> sourcePermission) {
        super(sourcePermission);
    }

    public int size() {
        return all != null ? 1 : byName.size();
    }

    public Iterator<Permission> iterator() {
        return getIterablePermissions().iterator();
    }

    public Enumeration<Permission> elements() {
        return Collections.enumeration(getIterablePermissions());
    }

    private Collection<Permission> getIterablePermissions() {
        return all != null ? Collections.singleton(all) :
Arrays.asList(byName.values().toArray(PermissionUtil.NO_PERMISSIONS));
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        if (permission.getName().equals("*")) {
            all = permission;
            byName.clear();
        } else {
            byName.putIfAbsent(permission.getName(), permission);
        }
    }

    public boolean implies(final Permission permission) {
        if (permission == null || getSourcePermission().getClass() != permission.getClass()) {
```

```
            return false;
        }
        final Permission all = this.all;
        if (all != null) {
            return all.implies(permission);
        }
        final Permission ourPermission = byName.get(permission.getName());
        return ourPermission != null && ourPermission.implies(permission);
    }
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security.util.ArrayIterator;

/**
 * A trivially simple permission collection, suitable as a default for most permission types (though probably not as efficient
 * as a specialized type in many cases).
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class SimplePermissionCollection extends AbstractPermissionCollection {

    private static final long serialVersionUID = - 9157630531211570679L;
```

```java
    private final AtomicReference<Permission[]> permissionsRef = new
AtomicReference<>(PermissionUtil.NO_PERMISSIONS);

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission for this collection (must not be {@code null})
     */
    public SimplePermissionCollection(final AbstractPermission<?> sourcePermission) {
        super(sourcePermission);
    }

    public int size() {
        return permissionsRef.get().length;
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        Permission[] oldVal, readVal, newVal;
        int count;
        final AtomicReference<Permission[]> permissionsRef = this.permissionsRef;
        do {
            readVal = permissionsRef.get();
            do {
                count = 0;
                oldVal = readVal;
                for (Permission test : oldVal) {
                    if (test.implies(permission)) {
                        return;
                    }
                    if (! permission.implies(test)) {
                        // prepare to skip any permissions that are obviated by this one
                        count ++;
                    }
                }
                // see if it's still what we expect before we commit to the possibly expensive update...
                readVal = permissionsRef.get();
            } while (readVal != oldVal);
            newVal = new Permission[count + 1];
            int i = 0;
            for (Permission test : oldVal) {
                if (! permission.implies(test)) {
                    newVal[i++] = test;
                }
            }
            newVal[i] = permission;
        } while (! permissionsRef.compareAndSet(oldVal, newVal));
    }
```

```java
    public boolean implies(final Permission permission) {
        for (Permission test : permissionsRef.get()) {
            if (test.implies(permission)) {
                return true;
            }
        }
        return false;
    }

    public Iterator<Permission> iterator() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }

    public Enumeration<Permission> elements() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }
}
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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import static org.wildfly.security.manager._private.SecurityMessages.permission;

import java.util.Arrays;
import java.util.EnumSet;
import java.util.Iterator;

/**
 * A helper class for defining permissions which use a finite list of actions.  Define custom permissions using
 * an {@code enum} of actions, where the string representation (via {@code toString()}) of each enum is one
```

possible

* action name. Typically the {@code enum} should be non-public, and the constant names should be lowercase. If
* an action name contains a character which is not a valid Java identifier, then the {@code toString()} method of
* such constants should be overridden to report the correct string. The actions may be stored on the permission as
* an {@code EnumSet}, an {@code int}, or a {@code long}. The field should be marked {@code transient}, and
* the actions represented by a (possibly synthetic) field of type {@code String} which uses the canonical
representation
* of the actions.
*
* @author David M. Lloyd
*
* @deprecated Use one of the abstract permission classes like {@link AbstractActionSetPermission} instead.
*/
@Deprecated
public final class PermissionActions {

  private PermissionActions() {
  }

  static final class TrieNode<E> {
      private static final char[] C_EMPTY = new char[0];
      private static final TrieNode[] T_EMPTY = new TrieNode[0];

      private E result;
      private char[] matches = C_EMPTY;
      @SuppressWarnings("unchecked")
      private TrieNode<E>[] children = T_EMPTY;

      void put(String s, int idx, E value) {
          if (idx == s.length()) {
              result = value;
              return;
          }
          char c = s.charAt(idx);
          final int i = Arrays.binarySearch(matches, c);
          if (i < 0) {
              // copy and add
              final int oldLength = matches.length;
              final char[] newMatches = Arrays.copyOf(matches, oldLength + 1);
              final TrieNode<E>[] newChildren = Arrays.copyOf(children, oldLength + 1);
              // i is the negated insertion index
              final int insertIndex = -i - 1;
              System.arraycopy(newMatches, insertIndex, newMatches, insertIndex + 1, oldLength - insertIndex);
              System.arraycopy(newChildren, insertIndex, newChildren, insertIndex + 1, oldLength - insertIndex);
              newMatches[insertIndex] = c;
              final TrieNode<E> newNode = new TrieNode<>();
              newChildren[insertIndex] = newNode;
              matches = newMatches;
```

```
                children = newChildren;
                newNode.put(s, idx + 1, value);
            } else {
                children[i].put(s, idx + 1, value);
            }
        }


        E get(String s, int idx, int end) {
            if (idx == end) {
                return result;
            }
            final char c = s.charAt(idx);
            final int i = Arrays.binarySearch(matches, c);
            if (i < 0) {
                return null;
            }
            return children[i].get(s, idx + 1, end);
        }
    }


    static final class Info<E> {
        final TrieNode<E> root;
        final E[] constants;

        Info(final TrieNode<E> root, final E[] constants) {
            this.root = root;
            this.constants = constants;
        }
    }


    private static final ClassValue<Info<?>> storedInfo = new ClassValue<Info<?>>() {
        protected Info<?> computeValue(final Class<?> type) {
            return computeReal(type);
        }

        private <E> Info<E> computeReal(final Class<E> type) {
            final TrieNode<E> root = new TrieNode<>();
            final E[] enumConstants = type.getEnumConstants();
            for (E e : enumConstants) {
                root.put(e.toString(), 0, e);
            }
            return new Info<>(root, type.getEnumConstants());
        }
    };


    interface MatchAction<E extends Enum<E>> {
        void matched(E item);
```

```java
    void matchedAll(Class<E> type);
}

static class SetMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private EnumSet<E> set;

    SetMatchAction(final EnumSet<E> set) {
        this.set = set;
    }

    public void matched(final E item) {
        set.add(item);
    }

    public void matchedAll(final Class<E> type) {
        set = EnumSet.allOf(type);
    }

    public EnumSet<E> getSet() {
        return set;
    }
}

static class IntMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private int result;

    IntMatchAction() {
    }

    public void matched(final E item) {
        result |= 1 << item.ordinal();
    }

    public void matchedAll(final Class<E> type) {
        result |= (1 << storedInfo.get(type).constants.length) - 1;
    }

    public int getResult() {
        return result;
    }
}

static class LongMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private long result;

    LongMatchAction() {
    }
```

```java
    public void matched(final E item) {
        result |= 1L << item.ordinal();
    }

    public void matchedAll(final Class<E> type) {
        result |= (1L << storedInfo.get(type).constants.length) - 1;
    }

    public long getResult() {
        return result;
    }
}

/**
 * Parse an action string using the given action type to an {@code EnumSet}.
 *
 * @param actionType the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type
 *
 * @return the set of actions from the string
 *
 * @throws IllegalArgumentException if the string contained an invalid action
 */
public static <E extends Enum<E>> EnumSet<E> parseActionStringToSet(Class<E> actionType, String
actionString) throws IllegalArgumentException {
    Assert.checkNotNullParam("actionType", actionType);
    Assert.checkNotNullParam("actionString", actionString);
    final SetMatchAction<E> matchAction = new SetMatchAction<>(EnumSet.noneOf(actionType));
    doParse(actionType, actionString, matchAction);
    return matchAction.getSet();
}

/**
 * Parse an action string using the given action type to an {@code int}.  The given {@code enum} type must have
 * 32 or fewer constant values.
 *
 * @param actionType the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type
 *
 * @return the set of actions from the string
 *
 * @throws IllegalArgumentException if the string contained an invalid action
 */
public static <E extends Enum<E>> int parseActionStringToInt(Class<E> actionType, String actionString) throws
IllegalArgumentException {
    Assert.checkNotNullParam("actionType", actionType);
```

```java
      Assert.checkNotNullParam("actionString", actionString);
      final IntMatchAction<E> matchAction = new IntMatchAction<>();
      doParse(actionType, actionString, matchAction);
      return matchAction.getResult();
   }

   /**
    * Parse an action string using the given action type to a {@code long}.  The given {@code enum} type must have
    * 64 or fewer constant values.
    *
    * @param actionType the action {@code enum} type class
    * @param actionString the string to parse
    * @param <E> the action {@code enum} type
    *
    * @return the set of actions from the string
    *
    * @throws IllegalArgumentException if the string contained an invalid action
    */
   public static <E extends Enum<E>> long parseActionStringToLong(Class<E> actionType, String actionString)
   throws IllegalArgumentException {
      Assert.checkNotNullParam("actionType", actionType);
      Assert.checkNotNullParam("actionString", actionString);
      final LongMatchAction<E> matchAction = new LongMatchAction<>();
      doParse(actionType, actionString, matchAction);
      return matchAction.getResult();
   }

   private static <E extends Enum<E>> void doParse(final Class<E> actionType, final String actionString, final
   MatchAction<E> matchAction) {
      @SuppressWarnings("unchecked")
      final Info<E> info = (Info<E>) storedInfo.get(actionType);
      final TrieNode<E> rootNode = info.root;
      // begin parse
      char c;
      final int length = actionString.length();
      int i = 0;
      L0: for (;;) {
         if (i == length) {
            // OK
            break L0;
         }
         c = actionString.charAt(i);
         if (Character.isWhitespace(c)) {
            i ++;
            continue L0;
         }
         if (c == ',') {
            // hmm, empty segment; ignore it
```

```
            i ++;
            continue L0;
        }
    if (c == '*') {
        // potential star
        matchAction.matchedAll(actionType);
        for (;;) {
            i ++;
            if (i == length) {
                // done
                break L0;
            }
            c = actionString.charAt(i);
            if (c == ',') {
                // pointless, but go on
                i ++;
                continue L0;
            }
            if (! Character.isWhitespace(c)) {
                throw permission.unexpectedActionCharacter(c, i, actionString);
            }
        }
        // not reachable
    }
    // else it's a potentially valid character
    int start = i;
    for (;;) {
        i++;
        c = i < length ? actionString.charAt(i) : 0;
        if (i == length || Character.isWhitespace(c) || c == ',') {
            // action string ends here
            final E action = rootNode.get(actionString, start, i);
            if (action == null) {
                throw permission.invalidAction(actionString.substring(start, i), start, actionString);
            }
            matchAction.matched(action);
            if (i == length) {
                // done
                break L0;
            }
            while (Character.isWhitespace(c)) {
                i++;
                if (i == length) {
                    // done
                    break L0;
                }
                c = actionString.charAt(i);
            }
```

```
            if (c != ',') {
                throw permission.unexpectedActionCharacter(c, i, actionString);
            }
            i ++;
            continue L0;
        }
    }
    // not reachable
}
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(EnumSet<E> set) {
    if (set == null || set.isEmpty()) return "";
    final StringBuilder b = new StringBuilder();
    getCanonicalActionString(set, b);
    return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(EnumSet<E> set, StringBuilder b) {
    if (set == null || set.isEmpty()) return;
    final Iterator<E> iterator = set.iterator();
    if (iterator.hasNext()) {
        E e = iterator.next();
        b.append(e.toString());
        while (iterator.hasNext()) {
            e = iterator.next();
            b.append(',');
            b.append(e.toString());
        }
    }
}

/**
 * Get the canonical action string representation for the given action set.
```

```
 *
 * @param type the action {@code enum} type class
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, int set) {
    if (set == 0) return "";
    final StringBuilder b = new StringBuilder();
    getCanonicalActionString(type, set, b);
    return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param type the action {@code enum} type class
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, int set, StringBuilder b) {
    if (set == 0) return;
    @SuppressWarnings("unchecked")
    final E[] constants = (E[]) storedInfo.get(type).constants;
    int bit = Integer.lowestOneBit(set);
    E e = constants[Integer.numberOfTrailingZeros(bit)];
    b.append(e.toString());
    set &= ~bit;
    while (set != 0) {
        bit = Integer.lowestOneBit(set);
        e = constants[Integer.numberOfTrailingZeros(bit)];
        b.append(',').append(e.toString());
        set &= ~bit;
    }
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param type the action {@code enum} type class
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, long set) {
    if (set == 0) return "";
    final StringBuilder b = new StringBuilder();
```

```java
        getCanonicalActionString(type, set, b);
        return b.toString();
    }

    /**
     * Get the canonical action string representation for the given action set, appending it to the given string builder.
     *
     * @param type the action {@code enum} type class
     * @param set the action set
     * @param b the string builder
     * @param <E> the action type
     */
    public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, long set, StringBuilder b) {
        if (set == 0) return;
        @SuppressWarnings("unchecked")
        final E[] constants = (E[]) storedInfo.get(type).constants;
        long bit = Long.lowestOneBit(set);
        E e = constants[Long.numberOfTrailingZeros(bit)];
        b.append(e.toString());
        set &= ~bit;
        while (set != 0) {
            bit = Long.lowestOneBit(set);
            e = constants[Long.numberOfTrailingZeros(bit)];
            b.append(',').append(e.toString());
            set &= ~bit;
        }
    }
}
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*/

package org.wildfly.security.permission;
```

```java
/**
 * An exception which is thrown when an invalid permission class is instantiated.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public class InvalidPermissionClassException extends IllegalArgumentException {
    private static final long serialVersionUID = 7910334218992625018L;

    /**
     * Constructs a new {@code InvalidPermissionClassException} instance.  The message is left blank ({@code null}), and
     * no
     * cause is specified.
     */
    public InvalidPermissionClassException() {
    }

    /**
     * Constructs a new {@code InvalidPermissionClassException} instance with an initial message.  No
     * cause is specified.
     *
     * @param msg the message
     */
    public InvalidPermissionClassException(final String msg) {
        super(msg);
    }

    /**
     * Constructs a new {@code InvalidPermissionClassException} instance with an initial cause.  If
     * a non-{@code null} cause is specified, its message is used to initialize the message of this
     * {@code InvalidPermissionClassException}; otherwise the message is left blank ({@code null}).
     *
     * @param cause the cause
     */
    public InvalidPermissionClassException(final Throwable cause) {
        super(cause);
    }

    /**
     * Constructs a new {@code InvalidPermissionClassException} instance with an initial message and cause.
     *
     * @param msg the message
     * @param cause the cause
     */
    public InvalidPermissionClassException(final String msg, final Throwable cause) {
        super(msg, cause);
    }
}
```

```
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicInteger;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class IntNameSetPermissionCollection extends NameSetPermissionCollection {

    private final AtomicInteger bitSet = new AtomicInteger();

    IntNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission, nameEnumeration);
    }

    private Permission permissionFor(int id) {
        return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        int setBits= getBitsForName(permission);
        final AtomicInteger bitSet = this.bitSet;
        int oldVal;
        do {
            oldVal = bitSet.get();
            if ((oldVal & setBits) == setBits) {
```

```java
        return;
      }
    } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
  }

  public boolean implies(final Permission permission) {
    if (permission.getClass() != getSourcePermission().getClass()) {
      return false;
    }
    long testBits = getBitsForName(permission);
    return (bitSet.get() & testBits) == testBits;
  }

  public int size() {
    final int size = Integer.bitCount(bitSet.get());
    return size == getNameEnumeration().size() ? 1 : size;
  }

  public EnumerationIterator<Permission> iterator() {
    return new Iter(bitSet.get());
  }

  public EnumerationIterator<Permission> elements() {
    return iterator();
  }

  private int getBitsForName(final Permission permission) {
    final int bits;
    final String name = permission.getName();
    final StringEnumeration nameEnumeration = getNameEnumeration();
    if ("*".equals(name)) {
      // add all names
      bits = (1 << nameEnumeration.size()) - 1;
    } else {
      bits = 1 << nameEnumeration.indexOf(name);
    }
    return bits;
  }

  private class Iter implements EnumerationIterator<Permission> {
    private int bits;

    Iter(final int bits) {
      this.bits = bits;
    }

    public boolean hasMoreElements() {
      return bits != 0;
```

```java
        }

        public Permission nextElement() {
            final int bits = this.bits;
            if (bits == 0) throw new NoSuchElementException();
            if (Integer.bitCount(bits) == getNameEnumeration().size()) {
                this.bits = 0;
                return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
            }
            int bit = Integer.lowestOneBit(bits);
            this.bits = bits & ~bit;
            return permissionFor(Integer.numberOfTrailingZeros(bit));
        }

        public boolean hasNext() {
            return hasMoreElements();
        }

        public Permission next() {
            return nextElement();
        }
    }

}
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* limitations under the License.
*/

package org.wildfly.security.permission;

/**
* A permission which has a name only, and no actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
```

```
*/
public abstract class AbstractNameOnlyPermission<This extends AbstractNameOnlyPermission<This>> extends
AbstractNamedPermission<This> {
    /**
     * Construct a new instance.
     *
     * @param name the permission name (must not be {@code null})
     */
    protected AbstractNameOnlyPermission(final String name) {
        super(name);
    }

    public AbstractPermissionCollection newPermissionCollection() {
        return new ByNamePermissionCollection(this);
    }
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.security._private.ElytronMessages;

/**
 * An abstract base class for any permission.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractPermission<This extends AbstractPermission<This>> extends Permission implements
PermissionVerifier {
    /**
```

```
 * Construct a new instance.
 *
 * @param name the permission name
 */
protected AbstractPermission(final String name) {
    super(name);
}

/**
 * Determine whether this permission implies another permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean implies(Permission permission) {
    return permission != null && getClass() == permission.getClass() && implies((This) permission);
}

/**
 * Determine whether this permission implies another permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean implies(This permission);

/**
 * Determine whether this permission object is equal to another object.
 *
 * @param obj the object to compare to
 * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean equals(final Object obj) {
    return obj != null && obj.getClass() == getClass() && equals((This) obj);
}

/**
 * Determine whether this permission object is equal to another object of this permission type.
 *
 * @param other the permission to compare to
 * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
 */
public abstract boolean equals(This other);

/**
 * Get the hash code of this permission.  The result must be consistent with the defined {@link
```

```
#equals(AbstractPermission)}
 * result.
 *
 * @return the hash code of this permission
 */
public abstract int hashCode();

/**
 * Get the actions string.  The default implementation always returns an empty string.
 *
 * @return the actions string (not {@code null})
 */
public String getActions() {
    return "";
}

/**
 * Get an empty permission collection which is capable of holding instances of this permission type.
 * <p>
 * The default implementation returns a {@link SimplePermissionCollection}.
 *
 * @return the permission collection to use
 */
public AbstractPermissionCollection newPermissionCollection() {
    return new SimplePermissionCollection(this);
}

/**
 * Check to ensure that the given action string is empty or {@code null}; otherwise, throw an exception.
 *
 * @param actions the actions string
 * @throws IllegalArgumentException if the actions string is not empty
 */
protected static void requireEmptyActions(final String actions) throws IllegalArgumentException {
    if (actions != null && ! actions.isEmpty()) {
        throw ElytronMessages.log.expectedEmptyActions(actions);
    }
}

final Object writeReplace() {
    return new SerializedPermission(getClass(), getName(), getActions());
}
}
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```

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 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class IntersectionPermissionCollection extends PermissionCollection implements PermissionVerifier {
    private static final long serialVersionUID = 8045087406778847303L;

    private final PermissionCollection pc1;
    private final PermissionCollection pc2;

    IntersectionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
        this.pc1 = pc1;
        this.pc2 = pc2;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
    }

    public boolean implies(final Permission permission) {
        return pc1.implies(permission) && pc2.implies(permission);
    }

    public Enumeration<Permission> elements() {
        // TODO: this is theoretically possible to implement using an IntersectionCollectionPermission;
        // however the primary use case is going to be in protection domains and verification scenarios so we may
        // not ever actually need this
        throw Assert.unsupported();
    }
```

```java
}
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package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringMapping;

/**
 * Stub class for the unlikely event that a serialized instance is lying around somewhere.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
@Deprecated
final class ElytronPermissionCollection extends PermissionCollection implements Serializable {

    private static final long serialVersionUID = 1L;

    private final int p1;

    ElytronPermissionCollection(final int p1) {
        this.p1 = p1;
    }

    public void add(final Permission permission) {
        throw Assert.unsupported();
    }
```

```
  public boolean implies(final Permission permission) {
    throw Assert.unsupported();
  }

  public Enumeration<Permission> elements() {
    throw Assert.unsupported();
  }

  Object readResolve() {
    final AbstractPermissionCollection collection = new ElytronPermission("*").newPermissionCollection();
    final StringMapping<ElytronPermission> mapping = ElytronPermission.mapping;
    int bits = p1;
    int test;
    while (bits != 0) {
      collection.add(mapping.getItemById(Integer.numberOfTrailingZeros(test = Integer.lowestOneBit(bits))));
      bits &= ~test;
    }
    if (isReadOnly()) {
      collection.setReadOnly();
    }
    return collection;
  }
}
```

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Specification: JSR-343 Java Message Service ("Specification")

Version: 2.0

Status: Final Release

Specification Lead: Oracle America, Inc. ("Specification Lead")

Release: 20 March 2013

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```
==================================================================
= For Base64.java file                          =
==================================================================
```

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package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;
import java.util.Set;
import java.util.TreeSet;

import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;
```

```java
import org.jboss.as.controller.access.CombinationPolicy;

/**
 * A {@link ManagementPermission} that combines multiple underlying permissions according
 * to a {@link org.jboss.as.controller.access.CombinationPolicy}.
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
public class CombinationManagementPermission extends ManagementPermission {

    private final CombinationPolicy combinationPolicy;
    private final Map<String, ManagementPermission> underlyingPermissions = new HashMap<String,
ManagementPermission>();

    public CombinationManagementPermission(CombinationPolicy combinationPolicy, Action.ActionEffect
actionEffect) {
        super("CombinationManagementPermission", actionEffect);
        this.combinationPolicy = combinationPolicy;
    }

    /**
     * Adds a permission.
     * <p>
     * This method should not be called after the instance has been made visible to another thread
     * than the one that constructed it.
     * </p>
     * @param permissionName name of the permission to add. Cannot be {@code null}
     * @param underlyingPermission the permission. Cannot be {@code null}
     */
    public void addUnderlyingPermission(String permissionName, ManagementPermission underlyingPermission) {
        assert underlyingPermission.getActionEffect() == getActionEffect() : "incompatible ActionEffect";
        if (combinationPolicy == CombinationPolicy.REJECTING && underlyingPermissions.size() > 0) {
            throw ControllerLogger.ROOT_LOGGER.illegalMultipleRoles();
        }
        underlyingPermissions.put(permissionName, underlyingPermission);
    }

    @Override
    public String getActions() {
        Set<Action.ActionEffect> effects = new TreeSet<Action.ActionEffect>();
        for (ManagementPermission permission : underlyingPermissions.values()) {
            effects.add(permission.getActionEffect());
        }
        boolean first = true;
        StringBuilder sb = new StringBuilder();
        for (Action.ActionEffect effect : effects) {
            if (!first) {
                sb.append(',');
```

```java
        } else {
          first = false;
        }
        sb.append(effect.toString());
      }
      return sb.toString();
  }


  @Override
  public boolean implies(Permission permission) {
    if (combinationPolicy == CombinationPolicy.PERMISSIVE) {
      for (ManagementPermission underlying : underlyingPermissions.values()) {
        if (underlying.implies(permission)) {
          return true;
        }
      }
      if (ControllerLogger.ACCESS_LOGGER.isTraceEnabled()) {
        ControllerLogger.ACCESS_LOGGER.tracef("None of the underlying permissions %s imply %s",
underlyingPermissions.keySet(), permission);
      }
      return false;
    } else {
      for (Map.Entry<String, ManagementPermission> underlying : underlyingPermissions.entrySet()) {
        if (!underlying.getValue().implies(permission)) {
          ControllerLogger.ACCESS_LOGGER.tracef("Underlying permission %s does not imply %s",
underlying.getKey(), permission);
          return false;
        }
      }
      return true;

    }
  }


  @Override
  public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    CombinationManagementPermission that = (CombinationManagementPermission) o;

    // TODO I believe that actionEffect should be taken into account here (and in hashCode)

    return combinationPolicy == that.combinationPolicy &&
underlyingPermissions.equals(that.underlyingPermissions);

  }
```

```java
    @Override
    public int hashCode() {
        int result = combinationPolicy.hashCode();
        result = 31 * result + underlyingPermissions.hashCode();
        return result;
    }
}
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 */

package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.util.List;

import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.constraint.Constraint;

/**
 * Simple implementation of {@link ManagementPermission}.
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
public class SimpleManagementPermission extends ManagementPermission {

    private final Constraint[] constraints;
    /**
     * Constructs a permission with the specified name.
```

```java
 */
public SimpleManagementPermission(Action.ActionEffect actionEffect, List<Constraint> constraints) {
    this(actionEffect, constraints.toArray(new Constraint[constraints.size()]));
}

public SimpleManagementPermission(Action.ActionEffect actionEffect, Constraint... constraints) {
    super("SimpleManagementPermission", actionEffect);
    this.constraints = constraints;
}

@Override
public boolean implies(Permission permission) {
    if (equals(permission)) {
        SimpleManagementPermission other = (SimpleManagementPermission) permission;
        // Validate constraints
        assert constraints.length == other.constraints.length : String.format("incompatible ManagementPermission; "
+
                "differing constraint counts %d vs %d", constraints.length, other.constraints.length);
        Action.ActionEffect actionEffect = getActionEffect();
        for (int i = 0; i < constraints.length; i++) {
            Constraint ours = constraints[i];
            Constraint theirs = other.constraints[i];
            assert ours.getClass() == theirs.getClass() : "incompatible constraints: ours = " + ours.getClass() + " --
theirs = " + theirs.getClass();
            if (ours.violates(theirs, actionEffect)) {
                ControllerLogger.ACCESS_LOGGER.tracef("Constraints are violated for %s", actionEffect);
                return false;
            }
        }
        return true;
    }
    return false;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    ManagementPermission that = (ManagementPermission) o;

    return getActionEffect() == that.getActionEffect();

}

@Override
public int hashCode() {
    return getActionEffect().hashCode();
```

```java
    }

    @Override
    public String getActions() {
        return getActionEffect().toString();
    }

    public ManagementPermission createScopedPermission(Constraint constraint, int constraintIndex) {
        Constraint[] altered;
        if (constraintIndex == constraints.length) {
            altered = new Constraint[constraintIndex + 1];
            System.arraycopy(constraints, 0, altered, 0, constraints.length);
        } else {
            Constraint existing = constraints[constraintIndex];
            if (constraint.replaces(existing)) {
                altered = new Constraint[constraints.length];
                System.arraycopy(constraints, 0, altered, 0, constraints.length);
            } else {
                altered = new Constraint[constraintIndex + 1];
                if (constraintIndex == 0) {
                    System.arraycopy(constraints, 0, altered, 1, constraints.length);
                } else {
                    System.arraycopy(constraints, 0, altered, 0, constraintIndex);
                    System.arraycopy(constraints, constraintIndex, altered, constraintIndex + 1, constraints.length -
constraintIndex);
                }
            }
        }
        altered[constraintIndex] = constraint;
        return new SimpleManagementPermission(getActionEffect(), altered);
    }
}
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```
package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Set;

import org.jboss.as.controller.ControlledProcessState;
import org.jboss.as.controller.PathAddress;
import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.AuthorizationResult;
import org.jboss.as.controller.access.Authorizer;
import org.jboss.as.controller.access.Caller;
import org.jboss.as.controller.access.Environment;
import org.jboss.as.controller.access.JmxAction;
import org.jboss.as.controller.access.JmxTarget;
import org.jboss.as.controller.access.TargetAttribute;
import org.jboss.as.controller.access.TargetResource;
import org.jboss.as.controller.descriptions.ModelDescriptionConstants;
import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.dmr.ModelNode;

/**
* {@link Authorizer} based on {@link ManagementPermission}s configured by a {@link PermissionFactory}.
*
* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public class ManagementPermissionAuthorizer implements Authorizer {
    private final PermissionFactory permissionFactory;

    public ManagementPermissionAuthorizer(PermissionFactory permissionFactory) {
        this.permissionFactory = permissionFactory;
    }

    @Override
    public AuthorizerDescription getDescription() {
        // We go ahead and create this each time because we expect this to be overridden anyway
        return new AuthorizerDescription() {
            @Override
            public boolean isRoleBased() {
                return true;
```

```
        }

        @Override
        public Set<String> getStandardRoles() {
            return Collections.emptySet();
        }
    };
}

    @Override
    public AuthorizationResult authorize(Caller caller, Environment callEnvironment, Action action, TargetAttribute
target) {
        assert assertSameAddress(action, target.getTargetResource());
        if (isServerBooting(callEnvironment)) {
            return AuthorizationResult.PERMITTED;
        }
        PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,
target);
        PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);
        return authorize(userPerms, requiredPerms);
    }

    @Override
    public AuthorizationResult authorize(Caller caller, Environment callEnvironment, Action action, TargetResource
target) {
        assert assertSameAddress(action, target);
        if (isServerBooting(callEnvironment)) {
            return AuthorizationResult.PERMITTED;
        }
        PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,
target);
        if (userPerms == AllPermissionsCollection.INSTANCE) {
            return AuthorizationResult.PERMITTED;
        }
        PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);
        return authorize(userPerms, requiredPerms);
    }

    private static boolean assertSameAddress(Action action, TargetResource target) {
        ModelNode operation = action.getOperation();
        // operation can be null in some unit tests; to be lazy ignore those cases
        return operation == null ||
target.getResourceAddress().equals(PathAddress.pathAddress(operation.get(ModelDescriptionConstants.OP_ADD
R)));
    }

    private AuthorizationResult authorize(PermissionCollection userPermissions, PermissionCollection
requiredPermissions) {
```

```
      final Enumeration<Permission> enumeration = requiredPermissions.elements();
      while (enumeration.hasMoreElements()){
         Permission requiredPermission = enumeration.nextElement();
         if (!userPermissions.implies(requiredPermission)) {
            return new AuthorizationResult(AuthorizationResult.Decision.DENY,
                    new ModelNode(ControllerLogger.ROOT_LOGGER.permissionDenied()));
         }
      }
      return AuthorizationResult.PERMITTED;
   }


   @Override
   public AuthorizationResult authorizeJmxOperation(Caller caller, Environment callEnvironment, JmxAction
action, JmxTarget target) {
      if (isServerBooting(callEnvironment)) {
         return AuthorizationResult.PERMITTED;
      }
      PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,
target);
      PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);
      return authorize(userPerms, requiredPerms);
   }


   @Override
   public Set<String> getCallerRoles(Caller caller, Environment callEnvironment, Set<String> runAsRoles) {
      // Not supported in this base class; see StandardRBACAuthorizer
      return null;
   }


   private boolean isServerBooting(Environment callEnvironment) {
      return callEnvironment != null && callEnvironment.getProcessState() ==
ControlledProcessState.State.STARTING;
   }
}
/*
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```

```
package org.jboss.as.controller.access.permission;

import java.security.PermissionCollection;

import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.Caller;
import org.jboss.as.controller.access.Environment;
import org.jboss.as.controller.access.JmxAction;
import org.jboss.as.controller.access.JmxTarget;
import org.jboss.as.controller.access.TargetAttribute;
import org.jboss.as.controller.access.TargetResource;

/**
 * Factory for a compatible set of permissions. Implementations must ensure that the permissions returned
 * by the {@code getUserPermissions} methods are compatible with the permissions returned by the
 * {@code getRequiredPermissions} methods. Compatible means the user permissions can correctly
 * evaluate whether they
 * {@link java.security.Permission#implies(java.security.Permission) imply the required permissions}
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
public interface PermissionFactory {

    PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, Action action,
    TargetAttribute target);

    PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, Action action,
    TargetResource target);

    PermissionCollection getRequiredPermissions(Action action, TargetAttribute target);

    PermissionCollection getRequiredPermissions(Action action, TargetResource target);

    PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, JmxAction action,
    JmxTarget target);

    PermissionCollection getRequiredPermissions(JmxAction action, JmxTarget target);
}
```

```
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* Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
* 02110-1301 USA, or see the FSF site: http://www.fsf.org.
*/

package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;

/**
* {@link PermissionCollection} for use with {@link ManagementPermission}. It's homogeneous.
*
* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public class ManagementPermissionCollection extends PermissionCollection {

    private final Class<? extends ManagementPermission> type;

    private final String name;
    private final Map<Action.ActionEffect, ManagementPermission> permissions = new
HashMap<Action.ActionEffect, ManagementPermission>();

    public ManagementPermissionCollection(Class<? extends ManagementPermission> type) {
```

```java
      this(null, type);
   }

   public ManagementPermissionCollection(String name, Class<? extends ManagementPermission> type) {
      this.name = name;
      this.type = type;
   }

   @Override
   public void add(Permission permission) {
      if (isReadOnly()) {
         throw ControllerLogger.ROOT_LOGGER.permissionCollectionIsReadOnly();
      }

      if (type.equals(permission.getClass())) {
         ManagementPermission mperm = (ManagementPermission) permission;
         synchronized (permissions) {
            permissions.put(mperm.getActionEffect(), mperm);
         }
      } else {
         throw ControllerLogger.ROOT_LOGGER.incompatiblePermissionType(permission.getClass());
      }
   }

   @Override
   public boolean implies(Permission permission) {
      if (permission instanceof ManagementPermission) {
         ManagementPermission mperm = (ManagementPermission) permission;
         Action.ActionEffect actionEffect = mperm.getActionEffect();
         ManagementPermission provided;
         synchronized (permissions) {
            provided = permissions.get(actionEffect);
         }
         if (provided == null) {
            ControllerLogger.ACCESS_LOGGER.tracef("Permission collection '%s' does not provide a permission for
%s", name, actionEffect);
            return false;
         } else if (!provided.implies(mperm)) {
            ControllerLogger.ACCESS_LOGGER.tracef("Permission provided in collection '%s' for action %s does
not imply the requested permission", name, actionEffect);
            return false;
         }
         return true;
      }
      ControllerLogger.ACCESS_LOGGER.tracef("Permission collection %s does not imply %s as it is not a
ManagementPermission", name, permission);
      return false;
   }
```

```java
    @Override
    public Enumeration<Permission> elements() {
        final Iterator<ManagementPermission> iterator = iterator();
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return iterator.hasNext();
            }

            @Override
            public Permission nextElement() {
                return iterator.next();
            }
        };
    }

    public String getName() {
        return name;
    }

    private Iterator<ManagementPermission> iterator() {
        synchronized (permissions) {
            return permissions.values().iterator();
        }
    }
}
/*
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 * 02110-1301 USA, or see the FSF site: http://www.fsf.org.
 */
```

```java
package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

/**
 * {@link PermissionCollection} that implies all permissions.
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
public final class AllPermissionsCollection extends PermissionCollection {

    public static final AllPermissionsCollection INSTANCE = new AllPermissionsCollection();

    private AllPermissionsCollection() {
    }

    @Override
    public void add(Permission permission) {
        throw new UnsupportedOperationException();
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public Enumeration<Permission> elements() {
        throw new UnsupportedOperationException();
    }
}
/*
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 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
```

```
package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.security.PermissionCollection;

import org.jboss.as.controller.access.Action;

/**
 * Base class for {@link Permission} implementations related to WildFly access control.
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
public abstract class ManagementPermission extends Permission {

    private final Action.ActionEffect actionEffect;

    /**
     * Constructs a permission with the specified name and action effect.
     */
    ManagementPermission(String name, Action.ActionEffect actionEffect) {
        super(name);
        this.actionEffect = actionEffect;
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ManagementPermissionCollection(getClass());
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;

        ManagementPermission that = (ManagementPermission) o;

        return actionEffect == that.actionEffect;

    }
```

```
    @Override
    public int hashCode() {
        return actionEffect.hashCode();
    }

    @Override
    public String getActions() {
        return actionEffect.toString();
    }

    public Action.ActionEffect getActionEffect() {
        return actionEffect;
    }
}
```

2.752 wildfly-controller-client 5.0.0.Final

2.753 wildfly-core-feature-pack 5.0.0.Final

2.753.1 Available under license :

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Weston Price <wmprice@redhat.com>

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head profile="http://www.w3.org/1999/xhtml/vocab">

 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<meta name="viewport" content="width=device-width, initial-scale=1" />

<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />

<meta name="HandheldFriendly" content="true" />

<link rel="shortlink" href="/node/568" />

```
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/BSD-3-Clause" />
<meta name="MobileOptimized" content="width" />
<title>The 3-Clause BSD License | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_lPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />


<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?osycz7" media="all" />
<![endif]-->



<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
  <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_V1ZuwJK9uzfm6fFffOcHHubfxnimoxnbgG58pvTQdpY.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
 $(window).scroll(function() {
  if($(this).scrollTop() != 0) {
   $("#toTop").fadeIn();
   } else {
    $("#toTop").fadeOut();
```

```
    }
  });

  $("#toTop").click(function() {
   $("body,html").animate({scrollTop:0},800);
  });

  });
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFlN3f2BnQwnusF-
eI6tkX8wrKAk2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"s7XYIV1gEzjFq3j
7pIRvd8lmqoHC8QjmRiseucyPFrc","js":{"\/\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol
lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
business\/css\/ie8.css":1}},"urlIsAjaxTrusted":{"\/licenses\/BSD-3-
Clause":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast
\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_wi
dth"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"ti
tle":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidt
h":1}}}}});
//--><!]]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-568 node-type-page" >
 <div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
 </div>
  <div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>
```

```
<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

            <div class="col-md-8">
        <!-- #header-top-left -->
        <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
  <div id="block-menu-secondary-menu" class="block block-menu clearfix">


 <div class="content">
  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul>  </div>
</div>
 </div>
          </div>
          <!-- EOF:#header-top-left -->
        </div>

            <div class="col-md-4">
        <!-- #header-top-right -->
        <div id="header-top-right" class="clearfix">
            <div class="region region-header-top-right">
  <div id="block-search-form" class="block block-search clearfix">


 <div class="content">
  <form action="/licenses/BSD-3-Clause" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <h2 class="element-invisible">Search form</h2>
  <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
PYiZkMxKD8L5oLGZGYsyDdUJrIqE1jzWK9u3NdwXESI" />
```

```
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form>  </div>
</div>
 </div>
          </div>
          <!-- EOF:#header-top-right -->
        </div>


          </div>
        </div>
        <!-- EOF: #header-top-inside -->


    </div>
</div>
<!-- EOF: #header-top -->


<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">


    <!-- #header-inside -->
    <div id="header-inside" class="clearfix">
      <div class="row">
        <div class="col-md-8">


                <div id="logo">
        <a href="/" title="Home" rel="home"> <img
src="https://opensource.org/files/osi_keyhole_300X300_90ppi_0.png" alt="Home" /> </a>
        </div>


                <div id="site-name">
        <a href="/" title="Home">Open Source Initiative</a>
        </div>


        </div>


        <div class="col-md-4">


        </div>
      </div>
    </div>
    <!-- EOF: #header-inside -->


  </div>
</header>
```

```
<!-- EOF: #header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
  <div class="container">


    <!-- #main-navigation-inside -->
    <div id="main-navigation-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <nav role="navigation">
                        <div class="region region-navigation">
  <div id="block-superfish-1" class="block block-superfish clearfix">



 <div class="content">
   <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-
3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-
children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of
Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a
href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-
depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-
3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a
href="/conflict_of_interest_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-
1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2
menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li
id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines"
title="OSI&#039;s Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1"
class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for
appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1"
class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/ToS" title="Rules for posting content on this site"
class="sf-depth-2">Terms of Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-
1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent"><a href="/licenses" class="sf-depth-1
menuparent">Licenses</a><ul><li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-
parent-children-0 sf-single-children-1 menuparent"><a href="/osd" title="The actual OSD defining what constitutes
an Open Source licence" class="sf-depth-2 menuparent">Open Source Definition</a><ul><li id="menu-62-1"
class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with
```

explationations and rationale interspersed." class="sf-depth-3">OSD - Annotated
<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category
<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name
<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process
<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation
<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board
<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards
<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement
<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance
<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale
<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions
<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership
<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals
<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join
<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates
<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate
<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates
<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria
<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support
<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community
<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists
<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct
<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct
<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums
<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives
<li id="menu-2032-1" class="middle even

```
sf-item-2 sf-depth-2 sf-no-children"><a href="/volunteers" class="sf-depth-2">Volunteers</a></li><li id="menu-
1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="http://wiki.opensource.org" title=""
class="sf-depth-2">Wiki</a></li><li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a
href="/store" class="sf-depth-2">OSI Store</a></li></ul></li><li id="menu-1840-1" class="middle odd sf-item-5
sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent"><a href="/resources"
title="Page offering resources to OSI personas" class="sf-depth-1 menuparent">Resources</a><ul><li id="menu-
342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/faq" title="Frequently Asked Questions
about open source and about the OSI." class="sf-depth-2">FAQ</a></li><li id="menu-38-1" class="middle even sf-
item-2 sf-depth-2 sf-no-children"><a href="/blog" title="A group blog / aggregation point for OSI Board Member
blogs" class="sf-depth-2">OSI Board Blog</a></li><li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-
total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/help" title="Resources for
questions and further exploration" class="sf-depth-2 menuparent">Getting Help</a><ul><li id="menu-76-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/links" title="Links and References to Open Source"
class="sf-depth-3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-
children"><a href="/advocacy/case_for_business.php" title="How to advocate Open Source to businesses"
class="sf-depth-3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even
sf-item-4 sf-depth-2 sf-no-children"><a href="/working_groups" class="sf-depth-2">Working Groups</a></li><li
id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children"><a href="/osi-open-source-education"
title="OSI&#039;s Open Source Education Initiative and Activities" class="sf-depth-2">Open Source
Education</a></li></ul></li><li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-
parent-children-0 sf-single-children-2 menuparent"><a href="/news" title="Page dedicated to the latest news and
events." class="sf-depth-1 menuparent">News & Events</a><ul><li id="menu-1845-1" class="first odd sf-item-1
sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of newsletters" class="sf-depth-
2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a
href="/events" class="sf-depth-2">Events</a></li></ul></li></ul>  </div>
</div>
 </div>
                              </nav>
          </div>
        </div>
      </div>
      <!-- EOF: #main-navigation-inside -->

    </div>
</div>
<!-- EOF: #main-navigation -->



<!-- #page -->
<div id="page" class="clearfix">


  <!-- #main-content -->
  <div id="main-content">
    <div class="container">

        <!-- #messages-console -->
                <!-- EOF: #messages-console -->
```

```
<div class="row">



    <section class="col-md-12">

        <!-- #main -->
        <div id="main" class="clearfix">



            <!-- EOF:#content-wrapper -->
            <div id="content-wrapper">


                                        <h1 class="page-title">The 3-Clause BSD License</h1>



                <!-- #tabs -->
                            <div class="tabs">
                            </div>
                        <!-- EOF: #tabs -->


                <!-- #action links -->
                            <!-- EOF: #action links -->


            <div class="region region-content">
  <div id="block-system-main" class="block block-system clearfix">



<div class="content">
  <article id="node-568" class="node node-page clearfix">



<div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: BSD-3-Clause
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>3-clause BSD license</b></button>

<p id="demo"></p>

<script>
<!--//--><![CDATA[// ><!--
```

```
function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/bsd-3-clause-license-%28revised%29 style='font-weight: bold;'>The 3-clause
BSD license on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License
List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><!]]>
</script></div>
```

<p>Note: This license has also been called the "New BSD License" or "Modified BSD License". See also the 2-clause BSD License.</p>

<p>Copyright <YEAR> <COPYRIGHT HOLDER>
</p>

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p>
 </div></div></div> </div>

</article> </div>
</div>
 </div>

            </div>
            <!-- EOF:#content-wrapper -->

         </div>
         <!-- EOF:#main -->

      </section>

      </div>

    </div>
  </div>
  <!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

                    <div class="region region-footer">
  <div id="block-block-11" class="block block-block clearfix">

  <div class="content">

```
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"><img src="/files/twitterlogo.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/google.png" width="50" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;" /></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"><img src="/files/linkedin.png" width="50" style="margin: 0pt auto;
display: table-cell; text-align: center; vertical-align: middle;" /></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"><img src="/files/xwikilogo.png" width="50" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;" /></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/ccby.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><!]]>
</script></p>
</div>

<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="../ToS">Terms of Service</a>
</p>
</div>
 </div>
</div>
<div id="block-block-7" class="block block-block clearfix">


 <div class="content">
   <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
```

```
<!--//--><![CDATA[// ><!--



//--><![CDATA[// ><!--


_uacct = "UA-3916956-1";
urchinTracker();


//--><![CDATA[// ><!--


_uacct = "UA-3916956-1";
urchinTracker();


//--><![CDATA[// ><!--



//--><![CDATA[]]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><![CDATA[]]>
</script> </div>
</div>
 </div>


                </div>
                <!-- EOF: #subfooter-left -->
            </div>
          </div>
        </div>
        <!-- EOF: #subfooter-inside -->


      </div>
</footer>
<!-- EOF:#subfooter -->
 </body>
</html>
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
           xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'" />

  <xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
      <body>
        <h2>WildFly Core <xsl:value-of select="$version"/></h2>
        <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <!-- Read matching templates -->
        <table>
```

```xml
<tr>
    <th>Package Group</th>
    <th>Package Artifact</th>
    <th>Package Version</th>
    <th>Remote Licenses</th>
    <th>Local Licenses</th>
</tr>
<xsl:for-each select="licenseSummary/dependencies/dependency">
    <xsl:sort select="concat(groupId, '.', artifactId)"/>
    <tr>
        <td><xsl:value-of select="groupId"/></td>
        <td><xsl:value-of select="artifactId"/></td>
        <td><xsl:value-of select="version"/></td>
        <td>
            <xsl:for-each select="licenses/license">
                <xsl:choose>
                    <xsl:when test="name = 'Public Domain'">
                        <xsl:value-of select="name"/><br/>
                    </xsl:when>
                    <xsl:otherwise>
                        <a href="{./url}"><xsl:value-of select="name"/></a><br/>
                    </xsl:otherwise>
                </xsl:choose>
            </xsl:for-each>
        </td>
        <td>
            <xsl:for-each select="licenses/license">
                <xsl:variable name="filename">
                    <xsl:call-template name="remap-local-filename">
                        <xsl:with-param name="name" select="name" />
                    </xsl:call-template>
                </xsl:variable>
                <a href="{$filename}"><xsl:value-of select="$filename"/></a><br/>
            </xsl:for-each>
        </td>
    </tr>
</xsl:for-each>
</table>
</body>
</html>
</xsl:template>

<xsl:template name="remap-local-filename">
    <xsl:param name="name"/>
    <xsl:choose>
        <xsl:when test="$name = 'BSD 3-clause "New" or "Revised" License'">
            <xsl:text>bsd 3-clause new or revised license.html</xsl:text>
        </xsl:when>
```

```
            <xsl:when test="$name = 'BSD 3-Clause No Nuclear License'">
                <xsl:text>bsd 3-clause no nuclear license.html</xsl:text>
            </xsl:when>
            <xsl:when test="$name = 'Creative Commons Attribution 2.5'">
                <xsl:text>creative commons attribution 2.5.html</xsl:text>
            </xsl:when>
            <xsl:when test="$name = 'GNU Lesser General Public License v2.1 or later'">
                <xsl:text>gnu lesser general public license v2.1 or later.txt</xsl:text>
            </xsl:when>
            <xsl:when test="$name = 'GNU General Public License v2.0 only'">
                <xsl:text>gnu general public license v2.0 only.html</xsl:text>
            </xsl:when>
            <xsl:when test="$name = 'Indiana University Extreme! Lab Software License 1.1.1'">
                <xsl:text>indiana university extreme lab software license 1.1.1.html</xsl:text>
            </xsl:when>
            <xsl:when test="$name = 'Mozilla Public License 2.0'">
                <xsl:text>mozilla public license 2.0.html</xsl:text>
            </xsl:when>
            <xsl:when test="$name = 'Plexus Classworlds License'">
                <xsl:text>plexus classworlds license.html</xsl:text>
            </xsl:when>
            <xsl:when test="$name = 'The JSoup MIT License'">
                <xsl:text>the jsoup mit license.html</xsl:text>
            </xsl:when>
            <xsl:otherwise>
                <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
            </xsl:otherwise>
        </xsl:choose>
    </xsl:template>
</xsl:stylesheet>
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<licenseSummary>
 <dependencies>
   <dependency>
    <groupId>ch.qos.cal10n</groupId>
    <artifactId>cal10n-api</artifactId>
    <version>0.8.1</version>
    <licenses>
     <license>
      <name>MIT License</name>
      <url>http://www.opensource.org/licenses/MIT</url>
      <distribution>repo</distribution>
     </license>
    </licenses>
   </dependency>
   <dependency>
    <groupId>com.fasterxml.woodstox</groupId>
    <artifactId>woodstox-core</artifactId>
```

```xml
      <version>5.0.3</version>
      <licenses>
        <license>
          <name>Apache License 2.0</name>
          <url>http://www.apache.org/licenses/LICENSE-2.0</url>
          <distribution>repo</distribution>
        </license>
      </licenses>
    </dependency>
    <dependency>
      <groupId>io.undertow</groupId>
      <artifactId>undertow-core</artifactId>
      <version>2.0.9.Final</version>
      <licenses>
        <license>
          <name>Apache License 2.0</name>
          <url>http://www.apache.org/licenses/LICENSE-2.0</url>
          <distribution>repo</distribution>
        </license>
      </licenses>
    </dependency>
    <dependency>
      <groupId>javax.json</groupId>
      <artifactId>javax.json-api</artifactId>
      <version>1.1.2</version>
      <licenses>
        <license>
          <name>Common Development and Distribution License 1.1</name>
          <url>https://javaee.github.io/glassfish/LICENSE</url>
          <distribution>repo</distribution>
        </license>
        <license>
          <name>GNU General Public License v2.0 only</name>
          <url>http://www.gnu.org/licenses/old-licenses/gpl-2.0-standalone.html</url>
          <distribution>repo</distribution>
        </license>
      </licenses>
    </dependency>
    <dependency>
      <groupId>org.aesh</groupId>
      <artifactId>aesh</artifactId>
      <version>1.4</version>
      <licenses>
        <license>
          <name>Apache License 2.0</name>
          <url>http://www.apache.org/licenses/LICENSE-2.0</url>
          <distribution>repo</distribution>
        </license>
```

```
    </licenses>
  </dependency>
  <dependency>
   <groupId>org.aesh</groupId>
   <artifactId>aesh-extensions</artifactId>
   <version>1.3</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.aesh</groupId>
   <artifactId>aesh-readline</artifactId>
   <version>1.7</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.codehaus.woodstox</groupId>
   <artifactId>stax2-api</artifactId>
   <version>3.1.4</version>
   <licenses>
    <license>
     <name>The BSD License</name>
     <url>http://repository.jboss.org/licenses/bsd.txt</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.fusesource.jansi</groupId>
   <artifactId>jansi</artifactId>
   <version>1.16</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
```

```xml
    </licenses>
  </dependency>
  <dependency>
   <groupId>org.glassfish</groupId>
   <artifactId>javax.json</artifactId>
   <version>1.1.2</version>
   <licenses>
    <license>
     <name>Common Development and Distribution License 1.1</name>
     <url>https://javaee.github.io/glassfish/LICENSE</url>
     <distribution>repo</distribution>
    </license>
    <license>
     <name>GNU General Public License v2.0 only</name>
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    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
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```css
table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}
```

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>Licenses: Indiana Extreme License 1.1.1 (indiana-extreme)</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!-- Styles -->
    <link href="/static/bootstrap/css/bootstrap.min.css" rel="stylesheet">
    <link href="/static/fontawesome/css/font-awesome.min.css" rel="stylesheet">
    <link href="/static/css/dejacode_bootstrap.css" rel="stylesheet">



    <link href="/static/js/annotator/annotator.1.2.10.min.css" rel="stylesheet">



    <script src="/static/js/jquery-1.12.4.min.js"></script>
    <link rel="shortcut icon" href="/static/img/favicon.ico">
  </head>
```

```
<body class="object-details">
  <div id="wrap">




<div class="navbar navbar-fixed-top">
  <div class="navbar-inner">
    <div class="container">



        <ul class="nav">



<li class="dropdown ">
  <a data-toggle="dropdown" class="brand dropdown-toggle" href="#" style="margin-left: 0;">
    DejaCode <b class="caret"></b>
  </a>
  <ul class="dropdown-menu">
    <li><a href="/home/">Home</a></li>
    <li><a href="https://dejacode.zendesk.com/home" target="_blank">Support</a></li>
    <li><a href="/contact/">Contact</a></li>
    <li class="divider"></li>
    <li><a href="/about/">About</a></li>
    <li><a href="/release_notes/">Release notes</a></li>
    <li><a href="http://status.dejacode.com/" target="_blank">Status</a></li>
    <li><a href="/terms_conditions/">Terms of Service</a></li>
  </ul>
</li>








<li class="">
```

```
        <a href="/products/">Products</a>
    </li>

<li class="">
  <a href="/components/">Components</a>
</li>
<li class="">
  <a href="/packages/">Packages</a>
</li>
<li class="active">
  <a href="/licenses/">Licenses</a>
</li>
<li class="">
  <a href="/owners/">Owners</a>
</li>


        </ul>
        <ul class="nav pull-right">
          <li>
            <form id="search-form" class="navbar-search form-search" action="/licenses/">
              <div class="input-prepend">
                <button type="button" class="btn btn-warning" data-toggle="dropdown">
                  <span id="search-selector-content">

                      <i class="icon-book"></i> License

                  </span>
                  <span class="caret"></span>
                </button>
                <ul id="search-selector-list" class="dropdown-menu">
                  <li><a href="/products/"><i class="icon-briefcase"></i> Product</a></li>
                  <li><a href="/components/"><i class="icon-puzzle-piece"></i> Component</a></li>
                  <li><a href="/packages/"><i class="icon-archive"></i> Package</a></li>
                  <li><a href="/licenses/"><i class="icon-book"></i> License</a></li>
                  <li><a href="/owners/"><i class="icon-group"></i> Owner</a></li>
                  <li class="divider"></li>
                  <li><a href="/global_search/"><i class="icon-globe"></i> Global</a></li>
                </ul>
                <input type="text" id="search-input" name="q" class="search-query span4"
placeholder="Search" autocomplete="off" value="">
              </div>
              <a id="search-help-link" href="#search-help-modal" data-toggle="modal"><i class="icon-
question-sign"></i></a>

            </form>
          </li>
```

```
        <li><a href="/account/register/"><i class="icon-user"></i> Sign Up</a></li>

            <li class="dropdown">

                <a id="user-menu" href="/login/"><i class="icon-signin"></i> Sign in</a>

            </li>

        </ul>

    </div>
  </div>
</div>

        <div class="container" id="main_content">




<ul class="breadcrumb">
  <li class="pull-right">

    <a href="/licenses/?q=indiana+extreme">Return to license list</a>
  </li>
  <li>
    <a href="/licenses/?q=indiana+extreme">Licenses</a>
    <span class="divider">/</span>
  </li>
  <li class="active">Indiana Extreme License 1.1.1 (indiana-extreme)</li>


</ul>


  <div class="row-fluid">
    <div class="pull-right b-margin5">
      <div class="btn-toolbar no-margin">




            <div class="btn-group">


            </div>
```

```
          </div>
      </div>

      <ul class="nav nav-tabs pull-left" id="details_tab">

          <li>
            <a href="#tab_essentials" data-toggle="tab">

                  Essentials

            </a>
          </li>

          <li>
            <a href="#tab_license-text" data-toggle="tab">

                  License text

            </a>
          </li>

          <li>
            <a href="#tab_license-conditions" data-toggle="tab">

                  License conditions

            </a>
          </li>

          <li>
            <a href="#tab_urls" data-toggle="tab">

                  URLs

            </a>
          </li>

          <li>
            <a href="#tab_owner" data-toggle="tab">

                  Owner

            </a>
          </li>

      </ul>
    </div>
```

```
<div class="tab-content">



    <div class="tab-pane" id="tab_essentials">



<dl class="dl-horizontal">
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Unique key name of the license.">
  Key
  </span>
</dt>
<dd>
  <pre>indiana-extreme</pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="The full name of the license, as provided by the
original authors.">
  Name
  </span>
</dt>
<dd>
  <pre>Indiana University Extreme! Lab Software License Version 1.1.1</pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Most commonly used name for the license,
often abbreviated.">
  Short name
  </span>
</dt>
<dd>
  <pre>Indiana Extreme License 1.1.1</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A license category, identified by a code,
provides a major grouping for licenses, generally describing the relationship between the licensor and licensee.">
  Category
  </span>
</dt>
<dd>
  <pre>Permissive</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A License Type identifies the high level nature
of a License Category: Open Source, Commercial, or Proprietary.">
  License type
  </span>
</dt>
<dd>
  <pre>Open Source</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="License Profile: a selection of license tags and
their values, identified by a numeric code, in order to provide a convenient way to assign a set of tag values to a
license. A "Tag" identifies a frequently encountered obligation, restriction, or other notable characteristic of license
terms. Note that individual tag value assignments may vary by license.">
  License profile
  </span>
</dt>
<dd>
  <pre>7: Apache1.1 Terms</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A license style identifies a group of
miscellaneous characteristics about a license, which may include a combination of restrictions about software
modification and usage">
  License style
  </span>
</dt>
<dd>
  <pre>Apache 1.1-Style</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="An owner is an entity that is the original author
or custodian  of one or more software licenses, and which is responsible for the text of that license.">
  Owner
  </span>
</dt>
<dd>
  <pre><a href="/owners/public/Indiana+University/">Indiana University</a></pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Short identifier of the license as stated on each
license detail page at https://spdx.org/licenses/">
  SPDX short identifier
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Year this license was first published, in four-
digits format.">
  Publication year
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Keywords to associate with a license to ensure
that the license will be found when a user searches on one or more of the keywords. Examples include alternative
names for the license, or file/product names that are commonly associated with the license.">
  Keywords
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="The standard notice text for this license if it
exists.">
  Standard Notice
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
```

```
      <span class="help_text" data-toggle="tooltip" data-original-title="A concise description, maintained by an
administrator, of the obligations (or restrictions) mandated by the license which are not communicated by the
standard tag assignments of License Profile associated with this License.">
        Special obligations
        </span>
    </dt>
    <dd>
      <pre> </pre>
    </dd>




    <dt>
      <span class="help_text" data-toggle="tooltip" data-original-title="URN is a globally unique and universal way to
reference data.">
        URN
        </span>
    </dt>
    <dd>
      <pre><a href="/urn/urn:dje:license:indiana-extreme/">urn:dje:license:indiana-extreme</a></pre>
    </dd>




    <dt>
      <span class="help_text" data-toggle="tooltip" data-original-title="A Dataspace is an independent, exclusive set of
DejaCode data, which can be either nexB master reference data or installation-specific data.">
        Dataspace
        </span>
    </dt>
    <dd>
      <pre>public</pre>
    </dd>
    </dl>



        </div>


        <div class="tab-pane" id="tab_license-text">
```

```
<div id="licensetext">
  <div class="row-fluid">
     <div class="span1"></div>
     <div class="span11">
```

  <p class="muted"><i>The full text of the license. Note that {{double curly braces}} are used to indicate text that will vary with each actual usage of a license.</i></p>
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```
</pre>

      </div>
   </div>
</div>




      </div>




      <div class="tab-pane" id="tab_license-conditions">








   <div class="pull-right">
     <button type="button" class="btn btn-info" onclick="$('.tag-False').toggle()">Show/hide un-checked
Tags</button>
    </div>


  <h2>Obligations</h2>
  <div class="well well-sm">


         <div class="tag-True" >
            <i class="icon-ok-sign color-true icon-large"></i> 
            <strong>License Text in Source</strong>




          <p style="margin:0 0 5px;">This license requires a copy of the license text and all copyright notices to
be included in the source file(s). This obligation can also mean that a license or notice text file must be present in the
same directory as the associated code.</p>
          </div>




         <div class="tag-True" >
            <i class="icon-ok-sign color-true icon-large"></i> 
            <strong>License Text in Documentation</strong>
```

```
<p style="margin:0 0 5px;">This license requires a copy of the license text and all copyright notices to
```
be included in the product documentation.</p>
```
        </div>
```


```
        <div class="tag-True" >
          <i class="icon-ok-sign color-true icon-large"></i> 
          <strong>Usage Notice in Documentation</strong>
```


```
        <p style="margin:0 0 5px;">This license requires a notice in the product documentation that the licensed
```
software is being used.</p>
```
        </div>
```


```
        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Usage Notice in Advertisement</strong>
```


```
        <p style="margin:0 0 5px;">This license requires a notice in all advertisements for the product (typically
```
those mentioning features of the licensed software) that the licensed software is being used.</p>
```
        </div>
```


```
        <div class="tag-True" >
          <i class="icon-ok-sign color-true icon-large"></i> 
          <strong>No Use in Endorsements</strong>
```


```
        <p style="margin:0 0 5px;">This license requires that neither the name of the organization that owns the
```
licensed software nor the names of its contributors nor the name of the licensed software may be used to endorse or
promote products derived from the licensed software without specific prior written permission.</p>
```
        </div>
```


```
        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Source Redistribution</strong>
```

```
        <p style="margin:0 0 5px;">This license requires the product documentation to include instructions
regarding how to obtain source code for the licensed software, including any modifications to it.</p>
        </div>




        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Change Tracking in Source</strong>




        <p style="margin:0 0 5px;">This license requires that any changes to the original source code of the
licensed software must be documented within the source code itself.</p>
        </div>




        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Change Tracking in Documentation</strong>




        <p style="margin:0 0 5px;">This license requires that any changes to the original source code of the
licensed software must be documented in the product documentation.</p>
        </div>




        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Special Attribution Obligation</strong>




        <p style="margin:0 0 5px;">This license has one or more special attribution obligations that are
described in the text of the license.</p>
        </div>


   </div>


   <h2>Restrictions</h2>
   <div class="well well-sm">
```

```
<div class="tag-False" style="display: none;">
   <i class="icon-circle-blank color-false icon-large"></i> 
   <strong>Non-Commercial Use Only</strong>


         <p style="margin:0 0 5px;">This license prohibits commercial use (and typically redistribution) of the
licensed software.</p>
   </div>



   <div class="tag-False" style="display: none;">
   <i class="icon-circle-blank color-false icon-large"></i> 
   <strong>Platform Deployment Restriction</strong>



         <p style="margin:0 0 5px;">This license restricts the deployment of the licensed software by operating
system, technology, technical field of use or type of device. Licenses with this restriction are not OSI
compliant.</p>
   </div>



   <div class="tag-True" >
   <i class="icon-ok-sign color-true icon-large"></i> 
   <strong>Name Restriction</strong>


      <a data-annotation-id="28134" class="annotation_link" title="See annotation">
         <i class="icon-tag"></i>
      </a>


      <p style="margin:0 0 5px;">This license restricts and may specify how the name of the licensed
software may be used, including restrictions that may require a name change if the code is modified.</p>
   </div>



   <div class="tag-False" style="display: none;">
   <i class="icon-circle-blank color-false icon-large"></i> 
   <strong>Restricted Redistribution</strong>
```

```
<p style="margin:0 0 5px;">This license restricts which licensed software sub-components you can
```
redistribute. The restriction may apply to source code, binary files or other sub-components. This restriction is
typically included only in proprietary or commercial licenses. Licenses with this restriction are not OSI
compliant.</p>
```
        </div>
```

```
        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Restricted Modifications</strong>
```

```
        <p style="margin:0 0 5px;">This license restricts how the software can be modified.  This restriction is
```
typically included in proprietary or commercial licenses (for example, Oracle and Microsoft proprietary licenses)
and in some licenses with restrictions on the creation of derivative works (for example, the Creative Common "no
derivative" licenses).</p>
```
        </div>
```

```
        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>No License Change</strong>
```

```
        <p style="margin:0 0 5px;">This license prohibits changing the license that applies to the original
```
licensed software or a derivative work of it. An example is the license for OpenSSL.</p>
```
        </div>
```

```
        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Specification Constraints</strong>
```

```
        <p style="margin:0 0 5px;">This license has constraints on how the licensed software can be used or
```
modified, in relation to some specification or standard. Few licenses have such constraints; examples include the
licenses for MPEG for IP; the Independent JPEG group; some Open Group; POSIX; and some early Sun Java
licenses. </p>
```
        </div>
```

```html
<div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>DRM Not Allowed</strong>
```

```html
    <p style="margin:0 0 5px;">This license does not allow the assertion of any digital rights management
```
on the licensed software or a derivative work of it with the intent of restricting the ability to exercise the rights
granted by this license. </p>
```html
</div>
```

```html
<div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Prohibited in Aircraft</strong>
```

```html
    <p style="margin:0 0 5px;">This license prohibits use of the licensed software in aircraft-related
```
applications.</p>
```html
</div>
```

```html
<div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Prohibited in Medical</strong>
```

```html
    <p style="margin:0 0 5px;">This license prohibits use of the licensed software in medical facilities
```
and/or life support equipment.</p>
```html
</div>
```

```html
<div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Prohibited in Nuclear</strong>
```

```html
    <p style="margin:0 0 5px;">This license prohibits use of the licensed software in a nuclear-power
```
environment.</p>
```html
</div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>Export Controls</strong>



  <p style="margin:0 0 5px;">This license text includes export controls.</p>
</div>


</div>


<h2>Policies</h2>
<div class="well well-sm">


  <div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Patent - Rights Impairment</strong>



    <p style="margin:0 0 5px;">This license has terms that may impair your patent rights if you redistribute
the licensed software, since the license terms may require you to convey your patent rights along with redistribution
of the licensed software, or otherwise constrain the enforcement ability of your patent rights.</p>
  </div>



  <div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Patent - License Termination</strong>



    <p style="margin:0 0 5px;">This license may end automatically if you bring a patent claim against any
contributor over patents that you claim are infringed by the licensed software; your patent license from such
contributor to the licensed software may also end automatically. </p>
  </div>


</div>


<h2>Information</h2>
```

```
<div class="well well-sm">



        <div class="tag-True" >
          <i class="icon-ok-sign color-true icon-large"></i> 
          <strong>Warranty Disclaimer</strong>




          <p style="margin:0 0 5px;">This license text includes a warranty disclaimer.</p>
        </div>




        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Indemnify Licensor</strong>




          <p style="margin:0 0 5px;">This license says that you agree to indemnify, hold harmless and defend the
licensor from and against any loss, damage, claims or lawsuits, including attorney&#39;s fees that arise or result
from your use or distribution of the licensed software.</p>
        </div>




        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Network Redistribution</strong>




          <p style="margin:0 0 5px;">This license has specific terms that apply when the software is used or
deployed over a network. Few licenses have such terms; examples include Affero GPL, OSL and the Common
Public Attribution License (CPAL 1.0).</p>
        </div>




        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Patent - Grant</strong>




          <p style="margin:0 0 5px;">This license states that the author conveys a grant of patent rights without
constraining the use of patents held by a recipient.</p>
```

```
<div>

    <div class="tag-False" style="display: none;">
        <i class="icon-circle-blank color-false icon-large"></i> 
        <strong>Patent - Warning</strong>

        <p style="margin:0 0 5px;">This license explicitly warns that the license does not convey a patent grant
and that such a grant and/or royalty payments are probably required.</p>
    </div>

    <div class="tag-True" >
        <i class="icon-ok-sign color-true icon-large"></i> 
        <strong>GPL Compatible</strong>

        <p style="margin:0 0 5px;">This license is compatible with the GPL; that is, software licensed under
this license can be combined with a program under the GPL without conflict, and the new combination would have
the GPL applied to the whole. The primary authority for compatibility is FSF.</p>
    </div>

    <div class="tag-False" style="display: none;">
        <i class="icon-circle-blank color-false icon-large"></i> 
        <strong>Exceptions</strong>

        <p style="margin:0 0 5px;">This license is based upon another license with specific exceptions.
Examples include exceptions to the GPL 2.0, such as the GCC Runtime Exception or the Classpath Exception.</p>
    </div>

</div>

</div>
```

```
          <div class="tab-pane" id="tab_urls">


<dl class="dl-horizontal">
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Homepage URL for the license.">
  Homepage URL
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="URLs to the text of the license (plain text or
HTML) on the main site of this license.">
  Text URLs
  </span>
</dt>
<dd>
  <pre><a target="_blank" href="http://www.bearcave.com/software/java/xml/xmlpull_license.html"
rel="nofollow">http://www.bearcave.com/software/java/xml/xmlpull_license.html</a> </pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="URL on the OSI website http://opensource.org
for OSI-approved licenses.">
  Osi URL
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="URL of a page with Frequently Asked
Questions about this license.">
  FAQ URL
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A URL to a page that documents your
organization&#39;s policies and procedures that relate to the obligations and restrictions associated with this license
or with similar licenses.">
  Guidance URL
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Other URLs that identify this license, such as
URLs to this license in different open-source projects. Obsolete links may be kept here, as they may be useful for
historical analysis purpose.">
  Other URLs
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
</dl>
```

```
    </div>
```

```
        <div class="tab-pane" id="tab_owner">



<dl class="dl-horizontal">
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="The unique user-maintained name of the author,
custodian, or provider of one or more software objects (licenses, components, products).">
  Name
  </span>
</dt>
<dd>
  <pre><a href="/owners/public/Indiana+University/">Indiana University</a></pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="The homepage URL of the owner.">
  Homepage URL
  </span>
</dt>
<dd>
  <pre><a target="_blank" href="http://www.extreme.indiana.edu/"
rel="nofollow">http://www.extreme.indiana.edu/</a></pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="An owner type differentiates individuals,
ongoing businesses, and dynamic organizations (such as software projects). An owner of any type can be associated
with a license, component, or product. An owner can also be the parent of any other owner.">
  Type
  </span>
</dt>
<dd>
  <pre>Organization</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Information, frequently a dedicated email
address, about contacting an owner for license clarifications and permissions.">
  Contact information
  </span>
</dt>
<dd>
  <pre><a target="_blank" href="http://www.extreme.indiana.edu/"
rel="nofollow">http://www.extreme.indiana.edu/</a></pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Alternative spellings of the name of the owner
as a comma-separated list.">
  Alias
  </span>
</dt>
<dd>
  <pre>Extreme Computing</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Extended notes about an owner.">
  Notes
  </span>
</dt>
<dd>
  <pre>Extreme! Computing
High Performance Distributed and Parallel Systems Research
Department of Computer Science
Indiana University
</pre>
</dd>
```

```
    </dl>



      </div>

  </div>

      </div>
      <div id="push"></div>
    </div>
    <div id="search-help-modal" class="modal hide fade">
<div class="modal-header">
 <button type="button" class="close" data-dismiss="modal" aria-hidden="true">&times;</button>
 <h3>Search help</h3>
</div>
<div class="modal-body" style="max-height: 550px;">
  <p>
    Note that the search value you enter is not case sensitive.<br>
    <code>apache</code> and <code>Apache</code> and <code>APACHE</code> are equivalent
    values for search purposes.
  </p>
  <p>
    The search starts with a simple case-insensitive containment search on the Name field
    of the application object (Component, License, Owner, Package, Product, "Global"),
    ordering the results by exact match first.<br>
    If the simple search returns nothing, a second step searches the application object by
    field ranking, using fields in the application object that help identify it.
  </p>
  <p>Search results are ordered by</p>
    <ol>
      <li>exact matches</li>
      <li>word matches</li>
      <li>text string matches</li>
    </ol>
  <p>alphabetically within each group.</p>
  <p>
You can also filter search results by various column headers, selecting one or more values
    for that purpose, optionally using "type ahead" to quickly find the value you want.
    DejaCode limits the values you can select for filtering by those that will actually
    return results. You can use the column filters with or without a value in the search
    field. You can clear any filter simply by clicking the "x" on the label that identifies
    an active filter.
  </p>
  <p>
    You can reorder the search results simply by clicking the up or down arrow next to a
    column header.
  </p>
```

```
        <p style="margin-bottom: 0;">
          Note that, unlike a Google search, DejaCode will not try to guess what you intended if
          your spelling of search text is not accurate - e.g. DejaCode will not not return
          results for a mis-spelled search value.
        </p>
    </div>
</div>



<div id="footer">
  <div class="container">
    <p class="muted credit">
      <a class="pull-right" href="#">Back to top</a>
      <a href="/">Home</a> -
      <a href="https://dejacode.zendesk.com/home" target="_blank">Support</a> -
      <a href="/contact/">Contact</a> -
      <a href="/about/">About</a> -
      <a href="/release_notes/">Release notes</a> -
      <a href="http://status.dejacode.com/" target="_blank">Status</a> -
      <a href="/terms_conditions/">Terms of Service</a> -
      <a href="http://twitter.com/dejacode" target="_blank">Twitter</a> -
      <a href="https://www.facebook.com/nexB.Inc" target="_blank">Facebook</a>
      <br>
      Copyright 2017 nexB Inc.  DejaCode is a trademark of nexB Inc.<br>
      No content on DejaCode should be considered or used as legal advice. Consult an Attorney for any legal
advice.
    </p>
  </div>
</div>

    <!-- Scripts: placed at the end of the document so the pages load faster -->
    <script src="/static/bootstrap/js/bootstrap.min.js"></script>
    <script src="/static/js/underscore-min.js"></script>
    <script src="/static/js/underscore.string.min.js"></script>
    <script>
      NEXB = {};
      NEXB.client_data = {"license_pk": 13295, "api_url": "/api/v2/", "annotation_pks": [28134]};
      $(document).ready(function() {
        // Search selection in the header
        $('#search-selector-list > li > a').click(function(event) {
          event.preventDefault();
          $('#search-form').attr('action', $(this).attr('href'));
          $('#search-selector-content').html($(this).html());
          $('#search-input').focus();
        });
        // Enables all popovers
        $('[data-toggle="popover"]').popover({
          html: true,
```

```
            container: 'body'
        });
        // Set the focus on the search bar when pressing the "s" key
        $(document).keydown(function(e) {
            // Do not trigger the navigation if an <input> or <textarea> currently has the focus
            var any_input_has_focus = (function() {return ($("input,textarea").is(":focus"))});
            if (e.keyCode == 83 && !any_input_has_focus()) {
                e.preventDefault();
                $('#search-input').focus();
            }
        });
    });
</script>


<script>
$(document).ready(function() {
    // Check if a hash is present in the url
    if (document.location.hash == "") {
        // If not set the tab to the first one
        $('#details_tab a:first').tab('show');
    } else {
        // Building a jQuery selector based on a combination of the hash and the 'tab_' prefix
        // This prefix is used to avoid auto scrolling when coming from an URL containing
        // a tab in the hash.
        var selector = 'a[href="#tab_' + document.location.hash.slice(1) + '"]';
        // If an object is return, set the active tab on it
        if ($(selector).length) $(selector).tab('show');
        else $('#details_tab a:first').tab('show');
    }
    // When changing the active tab, reflect the change in the url
    $('a[data-toggle="tab"]').on('shown', function (e) {
        /* Clean the 'tab_' prefix from the href before injecting it in the hash */
        document.location.hash = $(e.target).attr('href').replace('tab_', '');
    });

    // Left and Right keys navigation


    $('.help_text').tooltip({ container: 'body', placement: 'right'});
    $('.btn-toolbar a.btn').tooltip({container: 'body', placement: 'top'});
    /* Policy tooltip */
    $('[data-toggle="tooltip"]').tooltip({placement: 'bottom', container: 'body'});

    $('#toggle-details')
        .tooltip({container: 'body', placement: 'top'})
        .on('click', function() {
            $('.extra-details').toggle();
```

```
            });
        });
    </script>



        <script src="/static/js/annotator/annotator-full.1.2.10.min.js"></script>
        <script src="/static/js/annotator_plugins/TagsInSelect.js"></script>
        <script>
            (function ($) {
                $(document).ready(function () {
                    var annotator = $('#licensetext .row-fluid .span11').annotator({readOnly: true}).data('annotator');
                    annotator.addPlugin('Store', {
                        prefix: NEXB.client_data.api_url,
                        urls: {
                            search: 'license_annotations/?format=json'
                        },
                        loadFromSearch: {
                            license: NEXB.client_data.license_pk
                        }
                    });
                    annotator.addPlugin('TagsInSelect', {
                        // ``values`` is required, but since we are using
                        // read-only mode, an empty array is fine
                        values: []
                    });

                    Annotator.Plugin.AnonymousPlugin = (function () {
                        // This plugin exists so that we can use the annotationsLoaded event

                        function AnonymousPlugin(element, options) {
                            // Call the Annotator.Plugin constructor this sets up the .element and
                            // .options properties.
                            Annotator.Plugin.apply(this, arguments);
                        }

                        // Set the plugin prototype.  This gives us all of the Annotator.Plugin methods.
                        AnonymousPlugin.prototype = new Annotator.Plugin();

                        AnonymousPlugin.prototype.pluginInit = function () {
                            this.subscribe('annotationsLoaded', function (annotations) {
                                var position_anchors = function () {
                                    _.each(NEXB.client_data.annotation_pks, function (pk, index, list) {
                                        var top = $(_.string.sprintf('span.annotator-hl[data-annotation-id="%s"]', pk)).offset().top;
                                        var anchor = $(_.string.sprintf('.reverse_annotation_link[data-annotation-id="%s"]', pk));
                                        anchor.offset({top: top}).css('display', 'block').css('width', '100%').css('padding-left', '80%');
                                    });
```

```
                    };

                    _.each(NEXB.client_data.annotation_pks, function (pk, index, list) {
                        var anchor = $(_.string.sprintf('<a class="reverse_annotation_link" title="See license tag"
    data-annotation-id="%s"><i class="icon-tag"></i></a>', pk));
                        anchor.on('click', function () {
                            // Activate and show the license-conditions tab
                            $('#details_tab').find('a[href="#tab_license-conditions"]').tab('show');
                            // Locate the related annotation link
                            var annotation_link = $(_.string.sprintf('a.annotation_link[data-annotation-id="%s"]', pk));
                            var link_position = annotation_link.offset().top;
                            // Scroll the body position to the link
                            // "html" is for Firefox compatibility and "body" for webkit
                            $('html,body').scrollTop(link_position - 80);
                        });
                        $('#licensetext .row-fluid .span1').append(anchor);
                    });

                    // If the page is loaded on the license text tab, position the reverse annotation links
                    if (top.location.hash === '#license-text') {
                        position_anchors();
                    }

                    $('a[href="#tab_license-text"]').on('shown', function (e) {
                        position_anchors();
                    });
                });
            };

            return AnonymousPlugin;
        }());
        annotator.addPlugin('AnonymousPlugin');
    });
}(Annotator.$));


$(document).ready(function () {
    // Setup for the annotations links
    $('.annotation_link').on('click', function (e) {
        // Activate and show the license-text tab
        $('#details_tab').find('a[href="#tab_license-text"]').tab('show');
        // Locate the related annotation position
        var annotation_pk = $(this).attr('data-annotation-id');
        var annotator_span = $('span.annotator-hl[data-annotation-id=' + annotation_pk + ']');
        var span_position = annotator_span.offset().top;
        // Scroll the body position to the annotation
        // "html" is for Firefox compatibility and "body" for webkit
        $('html,body').scrollTop(span_position - 80);
    });
```

```
      });
    </script>


    <!-- Google analytics -->
      <script>
  var _gaq = _gaq || [];

  _gaq.push(['_setAccount', 'UA-48483931-1']);

  _gaq.push(['_setDomainName', 'dejacode.com']);

  _gaq.push(['_trackPageview']);


  (function() {
    var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
    ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
    var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
  })();
</script>

  </body>
</html>
```

                GNU LESSER GENERAL PUBLIC LICENSE
                    Version 2.1, February 1999

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
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of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better

strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of

this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above

specified materials from the same place.

   e) Verify that the user has already received a copy of these
   materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any other library
   facilities. This must be distributed under the terms of the
   Sections above.

   b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
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or rights, from you under this License will not have their licenses
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and the section as a whole is intended to apply in other circumstances.

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How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
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everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>GNU General Public License v2.0 - GNU Project - Free Software Foundation (FSF)</title>
<link rel="alternate" type="application/rdf+xml"
    href="http://www.gnu.org/licenses/old-licenses/gpl-2.0.rdf" />
</head>
<body>
<h3><a id="SEC1">GNU GENERAL PUBLIC LICENSE</a></h3>
<p>
Version 2, June 1991
</p>

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</pre>

<h3 id="preamble"><a id="SEC2">Preamble</a></h3>

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 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.
</p>

<p>
 When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.
</p>

<p>
```

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
</p>

<p>
For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.
</p>

<p>
We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
</p>

<p>
Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
</p>

<p>
Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.
</p>

<p>
The precise terms and conditions for copying, distribution and
modification follow.
</p>

<h3 id="terms">TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND
MODIFICATION</h3>

<p id="section0">

0.
This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".
</p>

<p>
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.
</p>

<p id="section1">
1.
You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.
</p>

<p>
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.
</p>

<p id="section2">
2.
You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
</p>

<dl>
 <dt></dt>
   <dd>

a)

You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.
</dd>
<dt></dt>
<dd>
b)

You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.
</dd>
<dt></dt>
<dd>
c)

If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)
</dd>
</dl>

<p>
These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.
</p>

<p>
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
</p>

<p>

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
</p>

<p id="section3">
3.
You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:
</p>

<!-- we use this doubled UL to get the sub-sections indented, -->
<!-- while making the bullets as unobvious as possible. -->

<dl>
 <dt></dt>
  <dd>
   a)
   Accompany it with the complete corresponding machine-readable
   source code, which must be distributed under the terms of Sections
   1 and 2 above on a medium customarily used for software interchange; or,
  </dd>
 <dt></dt>
  <dd>
   b)
   Accompany it with a written offer, valid for at least three
   years, to give any third party, for a charge no more than your
   cost of physically performing source distribution, a complete
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2.754 wildfly-core-galleon-pack 5.0.0.Final
2.754.1 Available under license :
```
<?xml version="1.0" ?>

<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.constant-permission-mapper.permissions">
  <annotation name="jboss-op">
```

```xml
      <elem name="name" value="list-add"/>
      <elem name="op-params" value="class-name,module,target-name,action"/>
      <elem name="complex-attribute" value="permissions"/>
      <elem name="addr-params" value="profile,host,subsystem,constant-permission-mapper"/>
    </annotation>
    <annotation name="feature-branch">
      <elem name="id" value="subsystem.elytron"/>
    </annotation>
    <refs>
      <ref feature="subsystem.elytron.constant-permission-mapper"/>
      <ref feature="profile" nillable="true"/>
      <ref feature="host" nillable="true"/>
    </refs>
    <params>
      <param name="module" nillable="true"/>
      <param name="profile" default="GLN_UNDEFINED"/>
      <param name="host" default="GLN_UNDEFINED"/>
      <param name="subsystem"/>
      <param name="action" nillable="true"/>
      <param name="target-name" nillable="true"/>
      <param name="constant-permission-mapper"/>
      <param name="class-name"/>
    </params>
</feature-spec>
<?xml version="1.0" ?>

<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.permission-set.permissions">
  <annotation name="jboss-op">
      <elem name="name" value="list-add"/>
      <elem name="op-params" value="class-name,module,target-name,action"/>
      <elem name="complex-attribute" value="permissions"/>
      <elem name="addr-params" value="profile,host,subsystem,permission-set"/>
    </annotation>
    <annotation name="feature-branch">
      <elem name="id" value="subsystem.elytron"/>
    </annotation>
    <refs>
      <ref feature="subsystem.elytron.permission-set"/>
      <ref feature="profile" nillable="true"/>
      <ref feature="host" nillable="true"/>
    </refs>
    <params>
      <param name="permission-set"/>
      <param name="module" nillable="true"/>
      <param name="profile" default="GLN_UNDEFINED"/>
      <param name="host" default="GLN_UNDEFINED"/>
      <param name="subsystem"/>
      <param name="action" nillable="true"/>
```

```xml
    <param name="target-name" nillable="true"/>
    <param name="class-name"/>
  </params>
</feature-spec>
<?xml version="1.0" ?>

<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.simple-permission-mapper.permission-mappings">
  <annotation name="jboss-op">
    <elem name="name" value="list-add"/>
    <elem name="op-params" value="match-all,principals,roles,permissions,permission-sets"/>
    <elem name="complex-attribute" value="permission-mappings"/>
    <elem name="addr-params" value="profile,host,subsystem,simple-permission-mapper"/>
  </annotation>
  <annotation name="feature-branch">
    <elem name="id" value="subsystem.elytron"/>
  </annotation>
  <refs>
    <ref feature="subsystem.elytron.simple-permission-mapper"/>
    <ref feature="profile" nillable="true"/>
    <ref feature="host" nillable="true"/>
  </refs>
  <params>
    <param name="simple-permission-mapper"/>
    <param name="permissions" nillable="true" type="List<String>"/>
    <param name="roles" nillable="true" type="List<String>"/>
    <param name="permission-sets" nillable="true" type="List<String>"/>
    <param name="profile" default="GLN_UNDEFINED"/>
    <param name="host" default="GLN_UNDEFINED"/>
    <param name="subsystem"/>
    <param name="principals" nillable="true" type="List<String>"/>
    <param name="match-all" nillable="true"/>
  </params>
</feature-spec>
<?xml version="1.0" ?>

<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.permission-set">
  <annotation name="jboss-op">
    <elem name="name" value="add"/>
    <elem name="op-params" value="permissions"/>
    <elem name="addr-params" value="profile,host,subsystem,permission-set"/>
  </annotation>
  <annotation name="feature-branch">
    <elem name="id" value="subsystem.elytron"/>
  </annotation>
  <provides>
    <capability name="$profile.org.wildfly.security.permission-set.$permission-set"/>
  </provides>
```

```xml
  <refs>
    <ref feature="subsystem.elytron"/>
    <ref feature="profile" nillable="true"/>
    <ref feature="host" nillable="true"/>
  </refs>
  <params>
    <param name="host" feature-id="true" default="GLN_UNDEFINED"/>
    <param name="subsystem" feature-id="true" default="elytron"/>
    <param name="permission-set" feature-id="true"/>
    <param name="permissions" nillable="true"/>
    <param name="profile" feature-id="true" default="GLN_UNDEFINED"/>
  </params>
</feature-spec>
<?xml version="1.0" ?>

<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.logical-permission-mapper">
  <annotation name="jboss-op">
    <elem name="name" value="add"/>
    <elem name="op-params" value="left,logical-operation,right"/>
    <elem name="addr-params" value="profile,host,subsystem,logical-permission-mapper"/>
  </annotation>
  <annotation name="feature-branch">
    <elem name="id" value="subsystem.elytron"/>
  </annotation>
  <provides>
    <capability name="$profile.org.wildfly.security.permission-mapper.$logical-permission-mapper"/>
  </provides>
  <requires>
    <capability name="$profile.org.wildfly.security.permission-mapper.$left"/>
    <capability name="$profile.org.wildfly.security.permission-mapper.$right"/>
  </requires>
  <refs>
    <ref feature="subsystem.elytron"/>
    <ref feature="profile" nillable="true"/>
    <ref feature="host" nillable="true"/>
  </refs>
  <params>
    <param name="logical-operation"/>
    <param name="left"/>
    <param name="profile" feature-id="true" default="GLN_UNDEFINED"/>
    <param name="host" feature-id="true" default="GLN_UNDEFINED"/>
    <param name="subsystem" feature-id="true" default="elytron"/>
    <param name="right"/>
    <param name="logical-permission-mapper" feature-id="true"/>
  </params>
</feature-spec>
<?xml version="1.0" ?>
```

```xml
<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.constant-permission-mapper">
  <annotation name="jboss-op">
    <elem name="name" value="add"/>
    <elem name="op-params" value="permission-sets,permissions"/>
    <elem name="addr-params" value="profile,host,subsystem,constant-permission-mapper"/>
  </annotation>
  <annotation name="feature-branch">
    <elem name="id" value="subsystem.elytron"/>
  </annotation>
  <provides>
    <capability name="$profile.org.wildfly.security.permission-mapper.$constant-permission-mapper"/>
  </provides>
  <refs>
    <ref feature="subsystem.elytron"/>
    <ref feature="profile" nillable="true"/>
    <ref feature="host" nillable="true"/>
  </refs>
  <params>
    <param name="host" feature-id="true" default="GLN_UNDEFINED"/>
    <param name="subsystem" feature-id="true" default="elytron"/>
    <param name="constant-permission-mapper" feature-id="true"/>
    <param name="permissions" nillable="true"/>
    <param name="permission-sets" nillable="true"/>
    <param name="profile" feature-id="true" default="GLN_UNDEFINED"/>
  </params>
</feature-spec>
<?xml version="1.0" ?>

<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.constant-permission-mapper.permission-sets">
  <annotation name="jboss-op">
    <elem name="name" value="list-add"/>
    <elem name="op-params" value="permission-set"/>
    <elem name="complex-attribute" value="permission-sets"/>
    <elem name="addr-params" value="profile,host,subsystem,constant-permission-mapper"/>
  </annotation>
  <annotation name="feature-branch">
    <elem name="id" value="subsystem.elytron"/>
  </annotation>
  <refs>
    <ref feature="subsystem.elytron.constant-permission-mapper"/>
    <ref feature="profile" nillable="true"/>
    <ref feature="host" nillable="true"/>
  </refs>
  <params>
    <param name="host" default="GLN_UNDEFINED"/>
    <param name="subsystem"/>
    <param name="permission-set"/>
```

```xml
    <param name="constant-permission-mapper"/>
    <param name="profile" default="GLN_UNDEFINED"/>
  </params>
</feature-spec>
<?xml version="1.0" ?>

<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.custom-permission-mapper">
  <annotation name="jboss-op">
    <elem name="name" value="add"/>
    <elem name="op-params" value="configuration,class-name,module"/>
    <elem name="addr-params" value="profile,host,subsystem,custom-permission-mapper"/>
  </annotation>
  <annotation name="feature-branch">
    <elem name="id" value="subsystem.elytron"/>
  </annotation>
  <provides>
    <capability name="$profile.org.wildfly.security.permission-mapper.$custom-permission-mapper"/>
  </provides>
  <refs>
    <ref feature="subsystem.elytron"/>
    <ref feature="profile" nillable="true"/>
    <ref feature="host" nillable="true"/>
  </refs>
  <params>
    <param name="configuration" nillable="true"/>
    <param name="module"/>
    <param name="profile" feature-id="true" default="GLN_UNDEFINED"/>
    <param name="host" feature-id="true" default="GLN_UNDEFINED"/>
    <param name="subsystem" feature-id="true" default="elytron"/>
    <param name="custom-permission-mapper" feature-id="true"/>
    <param name="class-name"/>
  </params>
</feature-spec>
<?xml version="1.0" ?>

<feature-spec xmlns="urn:jboss:galleon:feature-spec:1.0" name="subsystem.elytron.simple-permission-mapper">
  <annotation name="jboss-op">
    <elem name="name" value="add"/>
    <elem name="op-params" value="mapping-mode,permission-mappings"/>
    <elem name="addr-params" value="profile,host,subsystem,simple-permission-mapper"/>
  </annotation>
  <annotation name="feature-branch">
    <elem name="id" value="subsystem.elytron"/>
  </annotation>
  <provides>
    <capability name="$profile.org.wildfly.security.permission-mapper.$simple-permission-mapper"/>
  </provides>
  <refs>
```

```
      <ref feature="subsystem.elytron"/>
      <ref feature="profile" nillable="true"/>
      <ref feature="host" nillable="true"/>
    </refs>
    <params>
      <param name="simple-permission-mapper" feature-id="true"/>
      <param name="host" feature-id="true" default="GLN_UNDEFINED"/>
      <param name="subsystem" feature-id="true" default="elytron"/>
      <param name="permission-mappings" nillable="true"/>
      <param name="mapping-mode" nillable="true"/>
      <param name="profile" feature-id="true" default="GLN_UNDEFINED"/>
    </params>
</feature-spec>
```

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using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.
</p>
```

<p>

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.
</p>

<p>

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
</p>

<p>

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.
</p>

<p>

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
</p>

<p>

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
</p>

<p>

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.
</p>

```
<p>
 The precise terms and conditions for copying, distribution and
modification follow.
</p>


<h3 id="terms"><a id="SEC3">TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND
MODIFICATION</a></h3>


<p id="section0">
<strong>0.</strong>
This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".
</p>

<p>
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.
</p>

<p id="section1">
<strong>1.</strong>
You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.
</p>

<p>
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.
</p>
```

```
<p id="section2">
<strong>2.</strong>
You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
</p>

<dl>
 <dt></dt>
  <dd>
    <strong>a)</strong>
    You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.
  </dd>
 <dt></dt>
  <dd>
    <strong>b)</strong>
    You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.
  </dd>
 <dt></dt>
  <dd>
    <strong>c)</strong>
    If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)
  </dd>
</dl>

<p>
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
```

entire whole, and thus to each and every part regardless of who wrote it.
</p>

<p>
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
</p>

<p>
In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
</p>

<p id="section3">
3.
You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:
</p>

<!-- we use this doubled UL to get the sub-sections indented, -->
<!-- while making the bullets as unobvious as possible. -->

<dl>
 <dt></dt>
  <dd>
   a)
   Accompany it with the complete corresponding machine-readable
   source code, which must be distributed under the terms of Sections
   1 and 2 above on a medium customarily used for software interchange; or,
  </dd>
 <dt></dt>
  <dd>
   b)
   Accompany it with a written offer, valid for at least three
   years, to give any third party, for a charge no more than your
   cost of physically performing source distribution, a complete
   machine-readable copy of the corresponding source code, to be
   distributed under the terms of Sections 1 and 2 above on a medium
   customarily used for software interchange; or,
  </dd>
 <dt></dt>
  <dd>
   c)

Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
    </dd>
</dl>

<p>
The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.
</p>

<p>
If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.
</p>

<p id="section4">
4.
You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.
</p>

<p id="section5">
5.
You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying
the Program or works based on it.
</p>

<p id="section6">
6.
Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.
</p>

<p id="section7">
7.
If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.
</p>

<p>
If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.
</p>

<p>
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot

impose that choice.
</p>

<p>
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
</p>

<p id="section8">
8.
If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.
</p>

<p id="section9">
9.
The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.
</p>

<p>
Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.
</p>

<p id="section10">
10.
If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.
</p>

```
<p id="section11"><strong>NO WARRANTY</strong></p>

<p>
<strong>11.</strong>
BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.
</p>

<p id="section12">
<strong>12.</strong>
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
</p>

<h3>END OF TERMS AND CONDITIONS</h3>

<h3 id="howto"><a id="SEC4">How to Apply These Terms to Your New Programs</a></h3>

<p>
 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.
</p>

<p>
 To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.
</p>

<pre>
<var>one line to give the program's name and an idea of what it does.</var>
Copyright (C) <var>yyyy</var>  <var>name of author</var>
```

This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
as published by the Free Software Foundation; either version 2
of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
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GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
</pre>

<p>
Also add information on how to contact you by electronic and paper mail.
</p>

<p>
If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:
</p>

<pre>
Gnomovision version 69, Copyright (C) <var>year</var> <var>name of author</var>
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.
</pre>

<p>
The hypothetical commands <samp>`show w'</samp> and <samp>`show c'</samp> should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than <samp>`show w'</samp> and
<samp>`show c'</samp>; they could even be mouse-clicks or menu items--whatever
suits your program.
</p>

<p>
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:
</p>

```
<pre>
Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.

<var>signature of Ty Coon</var>, 1 April 1989
Ty Coon, President of Vice
</pre>

<p>
This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the
<a href="http://www.gnu.org/licenses/lgpl.html">GNU Lesser General Public License</a>
instead of this License.
</p>

</body></html>
```

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a

program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/568" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/BSD-3-Clause" />
<meta name="MobileOptimized" content="width" />
 <title>The 3-Clause BSD License | Open Source Initiative</title>
 <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_lPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?osycz7" media="all" />
<![endif]-->


 <!-- HTML5 element support for IE6-8 -->
 <!--[if lt IE 9]>
   <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
 <![endif]-->
 <script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
```

```
<script type="text/javascript">
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_V1ZuwJK9uzfm6fFffOcHHubfxnimoxnbgG58pvTQdpY.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
   if($(this).scrollTop() != 0) {
    $("#toTop").fadeIn();
   } else {
    $("#toTop").fadeOut();
   }
  });

  $("#toTop").click(function() {
   $("body,html").animate({scrollTop:0},800);
  });

  });
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFlN3f2BnQwnusF-
eI6tkX8wrKAk2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"s7XYIV1gEzjFq3j
7pIRvd8lmqoHC8QjmRiseucyPFrc","js":{"\/\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol
lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
```

```
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
business\/css\/ie8.css":1}},"urlIsAjaxTrusted":{"\/licenses\/BSD-3-
Clause":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast
\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_wi
dth"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"ti
tle":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidt
h":1}}}}});
//--><!]]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-568 node-type-page" >
 <div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
 </div>
  <div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>




<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

            <div class="col-md-8">
        <!-- #header-top-left -->
        <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
  <div id="block-menu-secondary-menu" class="block block-menu clearfix">


 <div class="content">
   <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul>  </div>
</div>
 </div>
        </div>
        <!-- EOF:#header-top-left -->
      </div>

            <div class="col-md-4">
        <!-- #header-top-right -->
        <div id="header-top-right" class="clearfix">
```

```html
        <div class="region region-header-top-right">
  <div id="block-search-form" class="block block-search clearfix">


 <div class="content">
   <form action="/licenses/BSD-3-Clause" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <h2 class="element-invisible">Search form</h2>
   <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
PYiZkMxKD8L5oLGZGYsyDdUJrIqE1jzWK9u3NdwXESI" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form>  </div>
 </div>
 </div>
        </div>
        <!-- EOF:#header-top-right -->
      </div>


      </div>
    </div>
    <!-- EOF: #header-top-inside -->

  </div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">

    <!-- #header-inside -->
    <div id="header-inside" class="clearfix">
      <div class="row">
        <div class="col-md-8">

             <div id="logo">
        <a href="/" title="Home" rel="home"> <img
src="https://opensource.org/files/osi_keyhole_300X300_90ppi_0.png" alt="Home" /> </a>
        </div>
```

```html
            <div id="site-name">
        <a href="/" title="Home">Open Source Initiative</a>
        </div>


            </div>

        <div class="col-md-4">


            </div>
        </div>
      </div>
      <!-- EOF: #header-inside -->

    </div>
  </header>
  <!-- EOF: #header -->

  <!-- #main-navigation -->
  <div id="main-navigation" class="clearfix">
    <div class="container">

      <!-- #main-navigation-inside -->
      <div id="main-navigation-inside" class="clearfix">
        <div class="row">
          <div class="col-md-12">
            <nav role="navigation">
                          <div class="region region-navigation">
    <div id="block-superfish-1" class="block block-superfish clearfix">


  <div class="content">
    <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-
3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-
children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of
Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a
```

href="/elections" class="sf-depth-3">Board Elections
<li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children">Bylaws
<li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children">Conflict of Interest
<li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Trademark & Logo
<li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Trademark Guidelines
<li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Logo Guidelines
<li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children">Terms of Service
<li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent">Licenses
<li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Open Source Definition
<li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">OSD - Annotated
<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category
<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name
<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process
<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation
<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board
<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards
<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement
<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance
<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale
<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions
<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership
<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals
<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join
<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates
<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/affiliates/about" class="sf-depth-

3">Become an Affiliate
<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates
<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria
<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support
<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community
<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists
<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct
<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct
<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums
<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives
<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers
<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki
<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store
<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources
<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ
<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog
<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help
<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography
<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business
<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups
<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education
<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events
<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters
<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events </div>
  </div>
 </div>
                              </nav>
                    </div>
                </div>
            </div>

```
            <!-- EOF: #main-navigation-inside -->

        </div>
    </div>
    <!-- EOF: #main-navigation -->



    <!-- #page -->
    <div id="page" class="clearfix">



        <!-- #main-content -->
        <div id="main-content">
            <div class="container">

                <!-- #messages-console -->
                        <!-- EOF: #messages-console -->

                <div class="row">



                    <section class="col-md-12">

                        <!-- #main -->
                        <div id="main" class="clearfix">



                            <!-- EOF:#content-wrapper -->
                            <div id="content-wrapper">


                                        <h1 class="page-title">The 3-Clause BSD License</h1>



                            <!-- #tabs -->
                                        <div class="tabs">
                                        </div>
                                    <!-- EOF: #tabs -->


                            <!-- #action links -->
                                        <!-- EOF: #action links -->


                            <div class="region region-content">
    <div id="block-system-main" class="block block-system clearfix">


    <div class="content">
```

```
<article id="node-568" class="node node-page clearfix">


 <div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: BSD-3-Clause
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>3-clause BSD license</b></button>

<p id="demo"></p>

<script>
<!--//--><![CDATA[// ><!--

function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/bsd-3-clause-license-%28revised%29 style='font-weight: bold;'>The 3-clause
BSD license on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License
List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><!]]>
</script></div>


    <p><em>Note: This license has also been called the "New BSD License" or "Modified BSD License". See also
the <a href="https://opensource.org/licenses/BSD-2-Clause">2-clause BSD License</a>.</em></p>


  <p>Copyright <YEAR> <COPYRIGHT HOLDER><br /></p>
```

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 </div></div></div> </div>

</article> </div>
</div>
 </div>

            </div>
            <!-- EOF:#content-wrapper -->

        </div>
        <!-- EOF:#main -->

      </section>

      </div>

    </div>
  </div>
  <!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

```
<footer id="subfooter" class="clearfix">
  <div class="container">


    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">



                      <div class="region region-footer">
  <div id="block-block-11" class="block block-block clearfix">



 <div class="content">
   <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"><img src="/files/twitterlogo.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/google.png" width="50" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;" /></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"><img src="/files/linkedin.png" width="50" style="margin: 0pt auto;
display: table-cell; text-align: center; vertical-align: middle;" /></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"><img src="/files/xwikilogo.png" width="50" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;" /></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/ccby.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![]]>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="../ToS">Terms of Service</a>
</p>
</div>
 </div>
</div>
<div id="block-block-7" class="block block-block clearfix">


 <div class="content">
  <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--//--><![CDATA[// ><!--


//--><!]]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--


_uacct = "UA-3916956-1";
urchinTracker();


//--><!]]>
</script>  </div>
</div>
 </div>


            </div>
            <!-- EOF: #subfooter-left -->
         </div>
       </div>
     </div>
     <!-- EOF: #subfooter-inside -->


   </div>
</footer>
<!-- EOF:#subfooter -->
 </body>
</html>


<!DOCTYPE html>
<html lang="en">
   <head>
```

```
<meta charset="utf-8">
<title>Licenses: Indiana Extreme License 1.1.1 (indiana-extreme)</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0">

<!-- Styles -->
<link href="/static/bootstrap/css/bootstrap.min.css" rel="stylesheet">
<link href="/static/fontawesome/css/font-awesome.min.css" rel="stylesheet">
<link href="/static/css/dejacode_bootstrap.css" rel="stylesheet">



<link href="/static/js/annotator/annotator.1.2.10.min.css" rel="stylesheet">



<script src="/static/js/jquery-1.12.4.min.js"></script>
<link rel="shortcut icon" href="/static/img/favicon.ico">
</head>

<body class="object-details">
<div id="wrap">
```

```
<div class="navbar navbar-fixed-top">
  <div class="navbar-inner">
    <div class="container">


        <ul class="nav">


  <li class="dropdown ">
    <a data-toggle="dropdown" class="brand dropdown-toggle" href="#" style="margin-left: 0;">
      DejaCode <b class="caret"></b>
    </a>
    <ul class="dropdown-menu">
      <li><a href="/home/">Home</a></li>
      <li><a href="https://dejacode.zendesk.com/home" target="_blank">Support</a></li>
      <li><a href="/contact/">Contact</a></li>
```

```
            <li class="divider"></li>
            <li><a href="/about/">About</a></li>
            <li><a href="/release_notes/">Release notes</a></li>
            <li><a href="http://status.dejacode.com/" target="_blank">Status</a></li>
            <li><a href="/terms_conditions/">Terms of Service</a></li>
          </ul>
        </li>




    <li class="">
      <a href="/products/">Products</a>
    </li>

<li class="">
  <a href="/components/">Components</a>
</li>
<li class="">
  <a href="/packages/">Packages</a>
</li>
<li class="active">
  <a href="/licenses/">Licenses</a>
</li>
<li class="">
  <a href="/owners/">Owners</a>
</li>



          </ul>
          <ul class="nav pull-right">
            <li>
              <form id="search-form" class="navbar-search form-search" action="/licenses/">
                <div class="input-prepend">
                  <button type="button" class="btn btn-warning" data-toggle="dropdown">
                    <span id="search-selector-content">

                        <i class="icon-book"></i> License

                    </span>
                    <span class="caret"></span>
                  </button>
```

```
<ul id="search-selector-list" class="dropdown-menu">
    <li><a href="/products/"><i class="icon-briefcase"></i> Product</a></li>
    <li><a href="/components/"><i class="icon-puzzle-piece"></i> Component</a></li>
    <li><a href="/packages/"><i class="icon-archive"></i> Package</a></li>
    <li><a href="/licenses/"><i class="icon-book"></i> License</a></li>
    <li><a href="/owners/"><i class="icon-group"></i> Owner</a></li>
    <li class="divider"></li>
    <li><a href="/global_search/"><i class="icon-globe"></i> Global</a></li>
</ul>
<input type="text" id="search-input" name="q" class="search-query span4"
placeholder="Search" autocomplete="off" value="">
    </div>
    <a id="search-help-link" href="#search-help-modal" data-toggle="modal"><i class="icon-
question-sign"></i></a>


            </form>
        </li>



            <li><a href="/account/register/"><i class="icon-user"></i> Sign Up</a></li>

            <li class="dropdown">

                <a id="user-menu" href="/login/"><i class="icon-signin"></i> Sign in</a>

            </li>


        </ul>

    </div>
  </div>
</div>

        <div class="container" id="main_content">




<ul class="breadcrumb">
  <li class="pull-right">

    <a href="/licenses/?q=indiana+extreme">Return to license list</a>
  </li>
  <li>
    <a href="/licenses/?q=indiana+extreme">Licenses</a>
    <span class="divider">/</span>
  </li>
```

```
        <li class="active">Indiana Extreme License 1.1.1 (indiana-extreme)</li>


    </ul>


  <div class="row-fluid">
      <div class="pull-right b-margin5">
          <div class="btn-toolbar no-margin">




              <div class="btn-group">


              </div>


          </div>
      </div>

      <ul class="nav nav-tabs pull-left" id="details_tab">

          <li>
              <a href="#tab_essentials" data-toggle="tab">

                  Essentials

              </a>
          </li>

          <li>
              <a href="#tab_license-text" data-toggle="tab">

                  License text

              </a>
          </li>

          <li>
              <a href="#tab_license-conditions" data-toggle="tab">

                  License conditions

              </a>
          </li>

          <li>
```

```
                     <a href="#tab_urls" data-toggle="tab">

                           URLs

                     </a>
              </li>


              <li>
                 <a href="#tab_owner" data-toggle="tab">

                           Owner

                     </a>
              </li>

        </ul>
    </div>


    <div class="tab-content">



        <div class="tab-pane" id="tab_essentials">



<dl class="dl-horizontal">
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Unique key name of the license.">
  Key
  </span>
</dt>
<dd>
  <pre>indiana-extreme</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="The full name of the license, as provided by the
original authors.">
  Name
  </span>
</dt>
<dd>
  <pre>Indiana University Extreme! Lab Software License Version 1.1.1</pre>
```

```
</dd>



<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Most commonly used name for the license,
often abbreviated.">
  Short name
  </span>
</dt>
<dd>
  <pre>Indiana Extreme License 1.1.1</pre>
</dd>
```



```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A license category, identified by a code,
provides a major grouping for licenses, generally describing the relationship between the licensor and licensee.">
  Category
  </span>
</dt>
<dd>
  <pre>Permissive</pre>
</dd>
```



```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A License Type identifies the high level nature
of a License Category: Open Source, Commercial, or Proprietary.">
  License type
  </span>
</dt>
<dd>
  <pre>Open Source</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="License Profile: a selection of license tags and
their values, identified by a numeric code, in order to provide a convenient way to assign a set of tag values to a
license. A "Tag" identifies a frequently encountered obligation, restriction, or other notable characteristic of license
terms. Note that individual tag value assignments may vary by license.">
  License profile
  </span>
</dt>
<dd>
  <pre>7: Apache1.1 Terms</pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A license style identifies a group of
miscellaneous characteristics about a license, which may include a combination of restrictions about software
modification and usage">
  License style
  </span>
</dt>
<dd>
  <pre>Apache 1.1-Style</pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="An owner is an entity that is the original author
or custodian  of one or more software licenses, and which is responsible for the text of that license.">
  Owner
  </span>
</dt>
<dd>
  <pre><a href="/owners/public/Indiana+University/">Indiana University</a></pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Short identifier of the license as stated on each
license detail page at https://spdx.org/licenses/">
  SPDX short identifier
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Year this license was first published, in four-
digits format.">
  Publication year
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Keywords to associate with a license to ensure
that the license will be found when a user searches on one or more of the keywords. Examples include alternative
names for the license, or file/product names that are commonly associated with the license.">
  Keywords
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="The standard notice text for this license if it
exists.">
  Standard Notice
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A concise description, maintained by an
administrator, of the obligations (or restrictions) mandated by the license which are not communicated by the
standard tag assignments of License Profile associated with this License.">
  Special obligations
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="URN is a globally unique and universal way to
reference data.">
  URN
  </span>
</dt>
<dd>
  <pre><a href="/urn/urn:dje:license:indiana-extreme/">urn:dje:license:indiana-extreme</a></pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A Dataspace is an independent, exclusive set of
DejaCode data, which can be either nexB master reference data or installation-specific data.">
  Dataspace
  </span>
</dt>
<dd>
  <pre>public</pre>
</dd>
</dl>




    </div>




    <div class="tab-pane" id="tab_license-text">




<div id="licensetext">
  <div class="row-fluid">
    <div class="span1"></div>
    <div class="span11">


  <p class="muted"><i>The full text of the license. Note that {{double curly braces}} are used to indicate text that
will vary with each actual usage of a license.</i></p>
  <pre>Indiana University Extreme! Lab Software License Version 1.1.1
```

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</pre>

    </div>
  </div>
</div>

      </div>

      <div class="tab-pane" id="tab_license-conditions">

    <div class="pull-right">
      <button type="button" class="btn btn-info" onclick="$('.tag-False').toggle()">Show/hide un-checked Tags</button>
    </div>

  <h2>Obligations</h2>
  <div class="well well-sm">

```
<div class="tag-True" >
  <i class="icon-ok-sign color-true icon-large"></i> 
  <strong>License Text in Source</strong>
```

```
  <p style="margin:0 0 5px;">This license requires a copy of the license text and all copyright notices to
be included in the source file(s). This obligation can also mean that a license or notice text file must be present in the
same directory as the associated code.</p>
  </div>
```

```
<div class="tag-True" >
  <i class="icon-ok-sign color-true icon-large"></i> 
  <strong>License Text in Documentation</strong>
```

```
  <p style="margin:0 0 5px;">This license requires a copy of the license text and all copyright notices to
be included in the product documentation.</p>
  </div>
```

```
<div class="tag-True" >
  <i class="icon-ok-sign color-true icon-large"></i> 
  <strong>Usage Notice in Documentation</strong>
```

```
  <p style="margin:0 0 5px;">This license requires a notice in the product documentation that the licensed
software is being used.</p>
  </div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>Usage Notice in Advertisement</strong>
```

```
  <p style="margin:0 0 5px;">This license requires a notice in all advertisements for the product (typically
those mentioning features of the licensed software) that the licensed software is being used.</p>
  </div>
```

```
<div class="tag-True" >
  <i class="icon-ok-sign color-true icon-large"></i> 
  <strong>No Use in Endorsements</strong>
```

```
<p style="margin:0 0 5px;">This license requires that neither the name of the organization that owns the
```
licensed software nor the names of its contributors nor the name of the licensed software may be used to endorse or
promote products derived from the licensed software without specific prior written permission.</p>
```
</div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>Source Redistribution</strong>
```

```
<p style="margin:0 0 5px;">This license requires the product documentation to include instructions
```
regarding how to obtain source code for the licensed software, including any modifications to it.</p>
```
</div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>Change Tracking in Source</strong>
```

```
<p style="margin:0 0 5px;">This license requires that any changes to the original source code of the
```
licensed software must be documented within the source code itself.</p>
```
</div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>Change Tracking in Documentation</strong>
```

```
<p style="margin:0 0 5px;">This license requires that any changes to the original source code of the
```
licensed software must be documented in the product documentation.</p>
```
</div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>Special Attribution Obligation</strong>



  <p style="margin:0 0 5px;">This license has one or more special attribution obligations that are
described in the text of the license.</p>
</div>



</div>



<h2>Restrictions</h2>
<div class="well well-sm">



  <div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Non-Commercial Use Only</strong>



    <p style="margin:0 0 5px;">This license prohibits commercial use (and typically redistribution) of the
licensed software.</p>
  </div>



  <div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Platform Deployment Restriction</strong>



    <p style="margin:0 0 5px;">This license restricts the deployment of the licensed software by operating
system, technology, technical field of use or type of device. Licenses with this restriction are not OSI
compliant.</p>
  </div>



  <div class="tag-True" >
    <i class="icon-ok-sign color-true icon-large"></i> 
    <strong>Name Restriction</strong>
```

```
<a data-annotation-id="28134" class="annotation_link" title="See annotation">
  <i class="icon-tag"></i>
</a>
```

```
<p style="margin:0 0 5px;">This license restricts and may specify how the name of the licensed
software may be used, including restrictions that may require a name change if the code is modified.</p>
</div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>Restricted Redistribution</strong>
```

```
<p style="margin:0 0 5px;">This license restricts which licensed software sub-components you can
redistribute.  The restriction may apply to source code, binary files or other sub-components. This restriction is
typically included only in proprietary or commercial licenses. Licenses with this restriction are not OSI
compliant.</p>
</div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>Restricted Modifications</strong>
```

```
<p style="margin:0 0 5px;">This license restricts how the software can be modified.  This restriction is
typically included in proprietary or commercial licenses (for example, Oracle and Microsoft proprietary licenses)
and in some licenses with restrictions on the creation of derivative works (for example,  the Creative Common "no
derivative" licenses).</p>
</div>
```

```
<div class="tag-False" style="display: none;">
  <i class="icon-circle-blank color-false icon-large"></i> 
  <strong>No License Change</strong>
```

```
<p style="margin:0 0 5px;">This license prohibits changing the license that applies to the original
```

licensed software or a derivative work of it. An example is the license for OpenSSL.</p>
        </div>

        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i>
          Specification Constraints

          <p style="margin:0 0 5px;">This license has constraints on how the licensed software can be used or
modified, in relation to some specification or standard. Few licenses have such constraints; examples include the
licenses for MPEG for IP; the Independent JPEG group; some Open Group; POSIX; and some early Sun Java
licenses. </p>
        </div>

        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i>
          DRM Not Allowed

          <p style="margin:0 0 5px;">This license does not allow the assertion of any digital rights management
on the licensed software or a derivative work of it with the intent of restricting the ability to exercise the rights
granted by this license. </p>
        </div>

        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i>
          Prohibited in Aircraft

          <p style="margin:0 0 5px;">This license prohibits use of the licensed software in aircraft-related
applications.</p>
        </div>

        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i>
          Prohibited in Medical

```
        <p style="margin:0 0 5px;">This license prohibits use of the licensed software in medical facilities
and/or life support equipment.</p>
        </div>



        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Prohibited in Nuclear</strong>



        <p style="margin:0 0 5px;">This license prohibits use of the licensed software in a nuclear-power
environment.</p>
        </div>



        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Export Controls</strong>



        <p style="margin:0 0 5px;">This license text includes export controls.</p>
        </div>


  </div>


  <h2>Policies</h2>
  <div class="well well-sm">



        <div class="tag-False" style="display: none;">
          <i class="icon-circle-blank color-false icon-large"></i> 
          <strong>Patent - Rights Impairment</strong>



        <p style="margin:0 0 5px;">This license has terms that may impair your patent rights if you redistribute
the licensed software, since the license terms may require you to convey your patent rights along with redistribution
of the licensed software, or otherwise constrain the enforcement ability of your patent rights.</p>
        </div>
```

```
<div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Patent - License Termination</strong>



    <p style="margin:0 0 5px;">This license may end automatically if you bring a patent claim against any
contributor over patents that you claim are infringed by the licensed software; your patent license from such
contributor to the licensed software may also end automatically. </p>
</div>


</div>


<h2>Information</h2>
<div class="well well-sm">


    <div class="tag-True" >
    <i class="icon-ok-sign color-true icon-large"></i> 
    <strong>Warranty Disclaimer</strong>



    <p style="margin:0 0 5px;">This license text includes a warranty disclaimer.</p>
</div>


    <div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Indemnify Licensor</strong>



    <p style="margin:0 0 5px;">This license says that you agree to indemnify, hold harmless and defend the
licensor from and against any loss, damage, claims or lawsuits, including attorney&#39;s fees that arise or result
from your use or distribution of the licensed software.</p>
</div>


    <div class="tag-False" style="display: none;">
    <i class="icon-circle-blank color-false icon-large"></i> 
    <strong>Network Redistribution</strong>
```

```
        <p style="margin:0 0 5px;">This license has specific terms that apply when the software is used or
deployed over a network. Few licenses have such terms; examples include Affero GPL, OSL and the Common
Public Attribution License (CPAL 1.0).</p>
        </div>




        <div class="tag-False" style="display: none;">
        <i class="icon-circle-blank color-false icon-large"></i> 
        <strong>Patent - Grant</strong>




        <p style="margin:0 0 5px;">This license states that the author conveys a grant of patent rights without
constraining the use of patents held by a recipient.</p>
        </div>




        <div class="tag-False" style="display: none;">
        <i class="icon-circle-blank color-false icon-large"></i> 
        <strong>Patent - Warning</strong>




        <p style="margin:0 0 5px;">This license explicitly warns that the license does not convey a patent grant
and that such a grant and/or royalty payments are probably required.</p>
        </div>




        <div class="tag-True" >
        <i class="icon-ok-sign color-true icon-large"></i> 
        <strong>GPL Compatible</strong>




        <p style="margin:0 0 5px;">This license is compatible with the GPL; that is, software licensed under
this license can be combined with a program under the GPL without conflict, and the new combination would have
the GPL applied to the whole. The primary authority for compatibility is FSF.</p>
        </div>




        <div class="tag-False" style="display: none;">
```

```
                    <i class="icon-circle-blank color-false icon-large"></i> 
                    <strong>Exceptions</strong>



                    <p style="margin:0 0 5px;">This license is based upon another license with specific exceptions.
Examples include exceptions to the GPL 2.0, such as the GCC Runtime Exception or the Classpath Exception.</p>
            </div>



    </div>



    <div class="tab-pane" id="tab_urls">



<dl class="dl-horizontal">
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Homepage URL for the license.">
  Homepage URL
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="URLs to the text of the license (plain text or
HTML) on the main site of this license.">
  Text URLs
  </span>
</dt>
<dd>
  <pre><a target="_blank" href="http://www.bearcave.com/software/java/xml/xmlpull_license.html"
rel="nofollow">http://www.bearcave.com/software/java/xml/xmlpull_license.html</a> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="URL on the OSI website http://opensource.org
for OSI-approved licenses.">
  Osi URL
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="URL of a page with Frequently Asked
Questions about this license.">
  FAQ URL
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="A URL to a page that documents your
organization&#39;s policies and procedures that relate to the obligations and restrictions associated with this license
or with similar licenses.">
  Guidance URL
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Other URLs that identify this license, such as
URLs to this license in different open-source projects. Obsolete links may be kept here, as they may be useful for
historical analysis purpose.">
  Other URLs
  </span>
</dt>
<dd>
  <pre> </pre>
</dd>
</dl>


  </div>


  <div class="tab-pane" id="tab_owner">


<dl class="dl-horizontal">
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="The unique user-maintained name of the author,
custodian, or provider of one or more software objects (licenses, components, products).">
  Name
  </span>
</dt>
<dd>
  <pre><a href="/owners/public/Indiana+University/">Indiana University</a></pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="The homepage URL of the owner.">
  Homepage URL
  </span>
</dt>
<dd>
  <pre><a target="_blank" href="http://www.extreme.indiana.edu/"
rel="nofollow">http://www.extreme.indiana.edu/</a></pre>
```

```
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="An owner type differentiates individuals,
ongoing businesses, and dynamic organizations (such as software projects). An owner of any type can be associated
with a license, component, or product. An owner can also be the parent of any other owner.">
  Type
  </span>
</dt>
<dd>
  <pre>Organization</pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Information, frequently a dedicated email
address, about contacting an owner for license clarifications and permissions.">
  Contact information
  </span>
</dt>
<dd>
  <pre><a target="_blank" href="http://www.extreme.indiana.edu/"
rel="nofollow">http://www.extreme.indiana.edu/</a></pre>
</dd>




<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Alternative spellings of the name of the owner
as a comma-separated list.">
  Alias
  </span>
</dt>
<dd>
  <pre>Extreme Computing</pre>
</dd>
```

```
<dt>
  <span class="help_text" data-toggle="tooltip" data-original-title="Extended notes about an owner.">
  Notes
  </span>
</dt>
<dd>
  <pre>Extreme! Computing
High Performance Distributed and Parallel Systems Research
Department of Computer Science
Indiana University
</pre>
</dd>
</dl>
```

```
      </div>

  </div>

      </div>
      <div id="push"></div>
    </div>
    <div id="search-help-modal" class="modal hide fade">
  <div class="modal-header">
   <button type="button" class="close" data-dismiss="modal" aria-hidden="true">&times;</button>
   <h3>Search help</h3>
  </div>
  <div class="modal-body" style="max-height: 550px;">
    <p>
      Note that the search value you enter is not case sensitive.<br>
      <code>apache</code> and <code>Apache</code> and <code>APACHE</code> are equivalent
      values for search purposes.
    </p>
    <p>
      The search starts with a simple case-insensitive containment search on the Name field
      of the application object (Component, License, Owner, Package, Product, "Global"),
      ordering the results by exact match first.<br>
      If the simple search returns nothing, a second step searches the application object by
      field ranking, using fields in the application object that help identify it.
    </p>
    <p>Search results are ordered by</p>
```

```
<ol>
    <li>exact matches</li>
    <li>word matches</li>
    <li>text string matches</li>
</ol>
<p>alphabetically within each group.</p>
<p>
You can also filter search results by various column headers, selecting one or more values
    for that purpose, optionally using "type ahead" to quickly find the value you want.
    DejaCode limits the values you can select for filtering by those that will actually
    return results. You can use the column filters with or without a value in the search
    field. You can clear any filter simply by clicking the "x" on the label that identifies
    an active filter.
</p>
<p>
    You can reorder the search results simply by clicking the up or down arrow next to a
    column header.
</p>
<p style="margin-bottom: 0;">
    Note that, unlike a Google search, DejaCode will not try to guess what you intended if
    your spelling of search text is not accurate - e.g. DejaCode will not not return
    results for a mis-spelled search value.
</p>
    </div>
</div>


<div id="footer">
  <div class="container">
    <p class="muted credit">
        <a class="pull-right" href="#">Back to top</a>
        <a href="/">Home</a> -
        <a href="https://dejacode.zendesk.com/home" target="_blank">Support</a> -
        <a href="/contact/">Contact</a> -
        <a href="/about/">About</a> -
        <a href="/release_notes/">Release notes</a> -
        <a href="http://status.dejacode.com/" target="_blank">Status</a> -
        <a href="/terms_conditions/">Terms of Service</a> -
        <a href="http://twitter.com/dejacode" target="_blank">Twitter</a> -
        <a href="https://www.facebook.com/nexB.Inc" target="_blank">Facebook</a>
        <br>
        Copyright 2017 nexB Inc.  DejaCode is a trademark of nexB Inc.<br>
        No content on DejaCode should be considered or used as legal advice. Consult an Attorney for any legal
advice.
    </p>
  </div>
</div>
```

```
<!-- Scripts: placed at the end of the document so the pages load faster -->
<script src="/static/bootstrap/js/bootstrap.min.js"></script>
<script src="/static/js/underscore-min.js"></script>
<script src="/static/js/underscore.string.min.js"></script>
<script>
    NEXB = {};
    NEXB.client_data = {"license_pk": 13295, "api_url": "/api/v2/", "annotation_pks": [28134]};
    $(document).ready(function() {
        // Search selection in the header
        $('#search-selector-list > li > a').click(function(event) {
            event.preventDefault();
            $('#search-form').attr('action', $(this).attr('href'));
            $('#search-selector-content').html($(this).html());
            $('#search-input').focus();
        });
        // Enables all popovers
        $('[data-toggle="popover"]').popover({
            html: true,
            container: 'body'
        });
        // Set the focus on the search bar when pressing the "s" key
        $(document).keydown(function(e) {
            // Do not trigger the navigation if an <input> or <textarea> currently has the focus
            var any_input_has_focus = (function() {return ($("input,textarea").is(":focus"))});
            if (e.keyCode == 83 && !any_input_has_focus()) {
                e.preventDefault();
                $('#search-input').focus();
            }
        });
    });
</script>


<script>
$(document).ready(function() {
    // Check if a hash is present in the url
    if (document.location.hash == "") {
        // If not set the tab to the first one
        $('#details_tab a:first').tab('show');
    } else {
        // Building a jQuery selector based on a combination of the hash and the 'tab_' prefix
        // This prefix is used to avoid auto scrolling when coming from an URL containing
        // a tab in the hash.
        var selector = 'a[href="#tab_' + document.location.hash.slice(1) + '"]';
        // If an object is return, set the active tab on it
        if ($(selector).length) $(selector).tab('show');
        else $('#details_tab a:first').tab('show');
    }
```

```
// When changing the active tab, reflect the change in the url
$('a[data-toggle="tab"]').on('shown', function (e) {
    /* Clean the 'tab_' prefix from the href before injecting it in the hash */
    document.location.hash = $(e.target).attr('href').replace('tab_', '');
});

// Left and Right keys navigation


$('.help_text').tooltip({ container: 'body', placement: 'right'});
$('.btn-toolbar a.btn').tooltip({container: 'body', placement: 'top'});
/* Policy tooltip */
$('[data-toggle="tooltip"]').tooltip({placement: 'bottom', container: 'body'});

$('#toggle-details')
    .tooltip({container: 'body', placement: 'top'})
    .on('click', function() {
        $('.extra-details').toggle();
    });
});
</script>




<script src="/static/js/annotator/annotator-full.1.2.10.min.js"></script>
<script src="/static/js/annotator_plugins/TagsInSelect.js"></script>
<script>
    (function ($) {
        $(document).ready(function () {
            var annotator = $('#licensetext .row-fluid .span11').annotator({readOnly: true}).data('annotator');
            annotator.addPlugin('Store', {
                prefix: NEXB.client_data.api_url,
                urls: {
                    search: 'license_annotations/?format=json'
                },
                loadFromSearch: {
                    license: NEXB.client_data.license_pk
                }
            });
            annotator.addPlugin('TagsInSelect', {
                // ``values`` is required, but since we are using
                // read-only mode, an empty array is fine
                values: []
            });

            Annotator.Plugin.AnonymousPlugin = (function () {
                // This plugin exists so that we can use the annotationsLoaded event
```

```
function AnonymousPlugin(element, options) {
    // Call the Annotator.Plugin constructor this sets up the .element and
    // .options properties.
    Annotator.Plugin.apply(this, arguments);
}

// Set the plugin prototype.  This gives us all of the Annotator.Plugin methods.
AnonymousPlugin.prototype = new Annotator.Plugin();

AnonymousPlugin.prototype.pluginInit = function () {
    this.subscribe('annotationsLoaded', function (annotations) {
        var position_anchors = function () {
            _.each(NEXB.client_data.annotation_pks, function (pk, index, list) {
                var top = $(_.string.sprintf('span.annotator-hl[data-annotation-id="%s"]', pk)).offset().top;
                var anchor = $(_.string.sprintf('.reverse_annotation_link[data-annotation-id="%s"]', pk));
                anchor.offset({top: top}).css('display', 'block').css('width', '100%').css('padding-left', '80%');
            });
        };

        _.each(NEXB.client_data.annotation_pks, function (pk, index, list) {
            var anchor = $(_.string.sprintf('<a class="reverse_annotation_link" title="See license tag"
data-annotation-id="%s"><i class="icon-tag"></i></a>', pk));
            anchor.on('click', function () {
                // Activate and show the license-conditions tab
                $('#details_tab').find('a[href="#tab_license-conditions"]').tab('show');
                // Locate the related annotation link
                var annotation_link = $(_.string.sprintf('a.annotation_link[data-annotation-id="%s"]', pk));
                var link_position = annotation_link.offset().top;
                // Scroll the body position to the link
                // "html" is for Firefox compatibility and "body" for webkit
                $('html,body').scrollTop(link_position - 80);
            });
            $('#licensetext .row-fluid .span1').append(anchor);
        });

        // If the page is loaded on the license text tab, position the reverse annotation links
        if (top.location.hash === '#license-text') {
            position_anchors();
        }

        $('a[href="#tab_license-text"]').on('shown', function (e) {
            position_anchors();
        });
    });
};

return AnonymousPlugin;
```

```
            }());
            annotator.addPlugin('AnonymousPlugin');
        });
    }(Annotator.$));


    $(document).ready(function () {
        // Setup for the annotations links
        $('.annotation_link').on('click', function (e) {
            // Activate and show the license-text tab
            $('#details_tab').find('a[href="#tab_license-text"]').tab('show');
            // Locate the related annotation position
            var annotation_pk = $(this).attr('data-annotation-id');
            var annotator_span = $('span.annotator-hl[data-annotation-id=' + annotation_pk + ']');
            var span_position = annotator_span.offset().top;
            // Scroll the body position to the annotation
            // "html" is for Firefox compatibility and "body" for webkit
            $('html,body').scrollTop(span_position - 80);
        });
    });
</script>



<!-- Google analytics -->
    <script>
var _gaq = _gaq || [];

_gaq.push(['_setAccount', 'UA-48483931-1']);

_gaq.push(['_setDomainName', 'dejacode.com']);

_gaq.push(['_trackPageview']);


(function() {
  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();
</script>

  </body>
</html>
```

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     <url>https://javaee.github.io/glassfish/LICENSE</url>
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    <licenses>
      <license>
        <name>GNU Lesser General Public License v2.1 or later</name>
        <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
        <distribution>repo</distribution>
      </license>
      <license>
        <name>Apache License 2.0</name>
        <url>http://www.apache.org/licenses/LICENSE-2.0</url>
        <distribution>repo</distribution>
      </license>
    </licenses>
  </dependency>
  <dependency>
    <groupId>org.wildfly.core</groupId>
    <artifactId>wildfly-platform-mbean</artifactId>
    <version>5.0.0.Final</version>
    <licenses>
      <license>
        <name>GNU Lesser General Public License v2.1 or later</name>
```

```
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
  </licenses>
 </dependency>
 <dependency>
  <groupId>org.wildfly.core</groupId>
  <artifactId>wildfly-process-controller</artifactId>
  <version>5.0.0.Final</version>
  <licenses>
   <license>
    <name>GNU Lesser General Public License v2.1 or later</name>
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
  </licenses>
 </dependency>
 <dependency>
  <groupId>org.wildfly.core</groupId>
  <artifactId>wildfly-protocol</artifactId>
  <version>5.0.0.Final</version>
  <licenses>
   <license>
    <name>GNU Lesser General Public License v2.1 or later</name>
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
  </licenses>
 </dependency>
 <dependency>
  <groupId>org.wildfly.core</groupId>
  <artifactId>wildfly-remoting</artifactId>
  <version>5.0.0.Final</version>
```

```
  <licenses>
   <license>
    <name>GNU Lesser General Public License v2.1 or later</name>
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
  </licenses>
 </dependency>
 <dependency>
  <groupId>org.wildfly.core</groupId>
  <artifactId>wildfly-request-controller</artifactId>
  <version>5.0.0.Final</version>
  <licenses>
   <license>
    <name>GNU Lesser General Public License v2.1 or later</name>
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
  </licenses>
 </dependency>
 <dependency>
  <groupId>org.wildfly.core</groupId>
  <artifactId>wildfly-security-manager</artifactId>
  <version>5.0.0.Final</version>
  <licenses>
   <license>
    <name>GNU Lesser General Public License v2.1 or later</name>
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
  </licenses>
 </dependency>
 <dependency>
```

```
  <groupId>org.wildfly.core</groupId>
  <artifactId>wildfly-server</artifactId>
  <version>5.0.0.Final</version>
  <licenses>
   <license>
    <name>GNU Lesser General Public License v2.1 or later</name>
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
  </licenses>
 </dependency>
 <dependency>
  <groupId>org.wildfly.core</groupId>
  <artifactId>wildfly-threads</artifactId>
  <version>5.0.0.Final</version>
  <licenses>
   <license>
    <name>GNU Lesser General Public License v2.1 or later</name>
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
  </licenses>
 </dependency>
 <dependency>
  <groupId>org.wildfly.core</groupId>
  <artifactId>wildfly-version</artifactId>
  <version>5.0.0.Final</version>
  <licenses>
   <license>
    <name>GNU Lesser General Public License v2.1 or later</name>
    <url>http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html</url>
    <distribution>repo</distribution>
   </license>
   <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
   </license>
```

```xml
    </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.discovery</groupId>
   <artifactId>wildfly-discovery-client</artifactId>
   <version>1.1.1.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.openssl</groupId>
   <artifactId>wildfly-openssl-java</artifactId>
   <version>1.0.6.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.openssl</groupId>
   <artifactId>wildfly-openssl-linux-i386</artifactId>
   <version>1.0.6.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.openssl</groupId>
   <artifactId>wildfly-openssl-linux-x86_64</artifactId>
   <version>1.0.6.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
```

```xml
    </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.openssl</groupId>
   <artifactId>wildfly-openssl-macosx-x86_64</artifactId>
   <version>1.0.6.Final</version>
   <licenses>
    <license>
     <name>Apache License Version 2.0</name>
     <url>http://repository.jboss.org/licenses/apache-2.0.txt</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.openssl</groupId>
   <artifactId>wildfly-openssl-solaris-x86_64</artifactId>
   <version>1.0.6.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.openssl</groupId>
   <artifactId>wildfly-openssl-windows-i386</artifactId>
   <version>1.0.6.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.openssl</groupId>
   <artifactId>wildfly-openssl-windows-x86_64</artifactId>
   <version>1.0.6.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
```

```
    </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.security</groupId>
   <artifactId>wildfly-elytron</artifactId>
   <version>1.3.3.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.security</groupId>
   <artifactId>wildfly-elytron-tool</artifactId>
   <version>1.2.2.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.security.elytron-web</groupId>
   <artifactId>undertow-server</artifactId>
   <version>1.1.0.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>xerces</groupId>
   <artifactId>xercesImpl</artifactId>
   <version>2.11.0.SP5</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
```

```
      </licenses>
    </dependency>
    <dependency>
     <groupId>xml-resolver</groupId>
     <artifactId>xml-resolver</artifactId>
     <version>1.2</version>
     <licenses>
      <license>
       <name>Apache License 2.0</name>
       <url>http://www.apache.org/licenses/LICENSE-2.0</url>
       <distribution>repo</distribution>
      </license>
     </licenses>
    </dependency>
  </dependencies>
</licenseSummary>
table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
          xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'" />

  <xsl:template match="/">
```

```
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
    <link rel="stylesheet" type="text/css" href="licenses.css"/>
  </head>
  <body>
    <h2>WildFly Core <xsl:value-of select="$version"/></h2>
    <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
    <!-- Read matching templates -->
    <table>
      <tr>
        <th>Package Group</th>
        <th>Package Artifact</th>
        <th>Package Version</th>
        <th>Remote Licenses</th>
        <th>Local Licenses</th>
      </tr>
      <xsl:for-each select="licenseSummary/dependencies/dependency">
      <xsl:sort select="concat(groupId, '.', artifactId)"/>
      <tr>
        <td><xsl:value-of select="groupId"/></td>
        <td><xsl:value-of select="artifactId"/></td>
        <td><xsl:value-of select="version"/></td>
        <td>
          <xsl:for-each select="licenses/license">
            <xsl:choose>
              <xsl:when test="name = 'Public Domain'">
                <xsl:value-of select="name"/><br/>
              </xsl:when>
              <xsl:otherwise>
                <a href="{./url}"><xsl:value-of select="name"/></a><br/>
              </xsl:otherwise>
            </xsl:choose>
          </xsl:for-each>
        </td>
        <td>
          <xsl:for-each select="licenses/license">
            <xsl:variable name="filename">
              <xsl:call-template name="remap-local-filename">
                <xsl:with-param name="name" select="name" />
              </xsl:call-template>
            </xsl:variable>
            <a href="{$filename}"><xsl:value-of select="$filename"/></a><br/>
          </xsl:for-each>
        </td>
      </tr>
      </xsl:for-each>
```

```xml
        </table>
      </body>
    </html>
  </xsl:template>


  <xsl:template name="remap-local-filename">
    <xsl:param name="name"/>
    <xsl:choose>
      <xsl:when test="$name = 'BSD 3-clause "New" or "Revised" License'">
        <xsl:text>bsd 3-clause new or revised license.html</xsl:text>
      </xsl:when>
      <xsl:when test="$name = 'BSD 3-Clause No Nuclear License'">
        <xsl:text>bsd 3-clause no nuclear license.html</xsl:text>
      </xsl:when>
      <xsl:when test="$name = 'Creative Commons Attribution 2.5'">
        <xsl:text>creative commons attribution 2.5.html</xsl:text>
      </xsl:when>
      <xsl:when test="$name = 'GNU Lesser General Public License v2.1 or later'">
        <xsl:text>gnu lesser general public license v2.1 or later.txt</xsl:text>
      </xsl:when>
      <xsl:when test="$name = 'GNU General Public License v2.0 only'">
        <xsl:text>gnu general public license v2.0 only.html</xsl:text>
      </xsl:when>
      <xsl:when test="$name = 'Indiana University Extreme! Lab Software License 1.1.1'">
        <xsl:text>indiana university extreme lab software license 1.1.1.html</xsl:text>
      </xsl:when>
      <xsl:when test="$name = 'Mozilla Public License 2.0'">
        <xsl:text>mozilla public license 2.0.html</xsl:text>
      </xsl:when>
      <xsl:when test="$name = 'Plexus Classworlds License'">
        <xsl:text>plexus classworlds license.html</xsl:text>
      </xsl:when>
      <xsl:when test="$name = 'The JSoup MIT License'">
        <xsl:text>the jsoup mit license.html</xsl:text>
      </xsl:when>
      <xsl:otherwise>
        <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
      </xsl:otherwise>
    </xsl:choose>
  </xsl:template>
</xsl:stylesheet>
<?xml version="1.0" ?>

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
  <copy-path src="docs/licenses/licenses.xsl" relative-to="content" target="docs/licenses/core-licenses.xsl"/>
  <transform stylesheet="docs/licenses/core-licenses.xsl" src="docs/licenses/core-feature-pack-licenses.xml"
output="docs/licenses/core-feature-pack-licenses.html"/>
  <delete path="docs/licenses/core-licenses.xsl"/>
```

```
</tasks>
<?xml version="1.0" ?>

<package-spec xmlns="urn:jboss:galleon:package:1.0" name="docs.licenses"/>
<?xml version="1.0" ?>

<package-spec xmlns="urn:jboss:galleon:package:1.0" name="LICENSE.txt"/>
<?xml version="1.0" ?>

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
  <xml-merge basedir="docs/licenses" output="docs/licenses/licenses.xml">
    <filter pattern="*-licenses.xml" include="true"/>
  </xml-merge>
  <transform stylesheet="docs/licenses/licenses.xsl" src="docs/licenses/licenses.xml"
output="docs/licenses/licenses.html" phase="FINALIZING"/>
</tasks>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" indent="yes"/>
  <xsl:param name="fileList"/>
  <xsl:param name="fileSeparator"/>

  <xsl:template match="/">
    <xsl:call-template name="startDocument"/>
    <xsl:call-template name="tokenizeString">
      <xsl:with-param name="list" select="$fileList"/>
      <xsl:with-param name="delimiter" select="','"/>
    </xsl:call-template>
    <xsl:call-template name="endDocument"/>
  </xsl:template>

  <xsl:template name="tokenizeString">
    <!--passed template parameter -->
    <xsl:param name="list"/>
    <xsl:param name="delimiter"/>
    <xsl:choose>
      <xsl:when test="contains($list, $delimiter)">
        <xsl:call-template name="processFile">
          <!-- get everything in front of the first delimiter -->
          <xsl:with-param name="fileName" select="substring-before($list,$delimiter)"/>
        </xsl:call-template>
        <xsl:call-template name="tokenizeString">
          <!-- store anything left in another variable -->
          <xsl:with-param name="list" select="substring-after($list,$delimiter)"/>
          <xsl:with-param name="delimiter" select="$delimiter"/>
        </xsl:call-template>
      </xsl:when>
      <xsl:otherwise>
        <xsl:choose>
```

```
                <xsl:when test="$list = ''">
                   <xsl:text/>
                </xsl:when>
                <xsl:otherwise>
                   <xsl:call-template name="processFile">
                      <!-- get everything in front of the first delimiter -->
                      <xsl:with-param name="fileName" select="$list"/>
                   </xsl:call-template>
                </xsl:otherwise>
             </xsl:choose>
          </xsl:otherwise>
       </xsl:choose>
    </xsl:template>

    <xsl:template name="substring-after-last">
       <xsl:param name="string" />
       <xsl:param name="delimiter" />
       <xsl:choose>
          <xsl:when test="contains($string, $delimiter)">
             <xsl:call-template name="substring-after-last">
                <xsl:with-param name="string" select="substring-after($string, $delimiter)" />
                <xsl:with-param name="delimiter" select="$delimiter" />
             </xsl:call-template>
          </xsl:when>
          <xsl:otherwise><xsl:value-of select="$string" /></xsl:otherwise>
       </xsl:choose>
    </xsl:template>

    <!-- FILE PROCESSING -->

    <xsl:template name="startDocument">
       <xsl:text disable-output-escaping="no">
</xsl:text>
       <xsl:text disable-output-escaping="yes"><licenseSummary></xsl:text>
       <xsl:text disable-output-escaping="no">
</xsl:text>
       <xsl:text disable-output-escaping="yes"><dependencies></xsl:text>
    </xsl:template>

    <xsl:template name="endDocument">
         <xsl:text disable-output-escaping="no">
</xsl:text>
       <xsl:text disable-output-escaping="yes"></dependencies></xsl:text>
       <xsl:text disable-output-escaping="no">
</xsl:text>
       <xsl:text disable-output-escaping="yes"></licenseSummary></xsl:text>
    </xsl:template>
```

```
<xsl:template name="processFile">
  <xsl:param name="fileName"/>
  <xsl:for-each select="document($fileName)/licenseSummary/dependencies/*">
    <xsl:text disable-output-escaping="no">
</xsl:text>
    <xsl:copy>
      <xsl:apply-templates select="@* | node()"/><xsl:text disable-output-escaping="no">
</xsl:text><source><xsl:call-template name="substring-after-last">
        <xsl:with-param name="string" select="$fileName"/>
        <xsl:with-param name="delimiter" select="$fileSeparator"/>
      </xsl:call-template></source><xsl:text disable-output-escaping="no">
</xsl:text>
    </xsl:copy>
  </xsl:for-each>
</xsl:template>

<xsl:template match="@* | node()">
  <xsl:copy>
    <xsl:apply-templates select="@* | node()"/>
  </xsl:copy>
</xsl:template>

</xsl:stylesheet>
<?xml version="1.0" ?>

<package-spec xmlns="urn:jboss:galleon:package:1.0" name="docs.licenses.merge"/>
```

2.755 wildfly-core-management-client 5.0.0.Final

2.756 wildfly-core-security 5.0.0.Final

2.757 wildfly-deployment-repository 5.0.0.Final

2.758 wildfly-discovery-client 1.1.1.Final

2.759 wildfly-dist 13.0.0.Final

2.759.1 Available under license :

GNU Lesser General Public License v2.1 or later

http://repository.jboss.org/licenses/lgpl-2.1.txt

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Version 2.1, February 1999

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2.760 wildfly-domain-http-interface 5.0.0.Final

2.761 wildfly-ee 13.0.0.Final

2.762 wildfly-ee-security 13.0.0.Final

2.763 wildfly-ejb3 13.0.0.Final

2.764 wildfly-elytron 1.3.3.Final

2.764.1 Available under license :

```
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*/

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
* The permission to run as another principal within some security domain.  Note that this permission is checked relative
* to the security domain that the user is authenticated to.  The principal name is the effective name after all rewrite
* operations have taken place.
*/
public final class RunAsPrincipalPermission extends AbstractNameOnlyPermission<RunAsPrincipalPermission> {

    private static final long serialVersionUID = -3361334389433669815L;
```

```
    /**
     * Construct a new instance.
     *
     * @param name the principal name, or {@code *} for global run-as permissions
     */
    public RunAsPrincipalPermission(final String name) {
        super(name);
    }

    /**
     * Construct a new instance.
     *
     * @param name the principal name, or {@code *} for global run-as permissions
     * @param ignored the permission actions (ignored)
     */
    public RunAsPrincipalPermission(final String name, @SuppressWarnings("unused") final String ignored) {
        this(name);
    }

    public RunAsPrincipalPermission withName(final String name) {
        return new RunAsPrincipalPermission(name);
    }
}
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 */

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractBooleanPermission;

/**
 * Establish whether the current identity has permission to complete an authentication ("log in").
 *
```

```java
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class LoginPermission extends AbstractBooleanPermission<LoginPermission> {

    private static final long serialVersionUID = - 5776174571770792690L;

    /**
     * Construct a new instance.
     */
    public LoginPermission() {
    }

    /**
     * Construct a new instance.
     *
     * @param name ignored
     */
    public LoginPermission(@SuppressWarnings("unused") final String name) {
    }

    /**
     * Construct a new instance.
     *
     * @param name ignored
     * @param actions ignored
     */
    public LoginPermission(@SuppressWarnings("unused") final String name, @SuppressWarnings("unused") final
String actions) {
    }

    private static final LoginPermission INSTANCE = new LoginPermission();

    /**
     * Get the instance of this class.
     *
     * @return the instance of this class
     */
    public static LoginPermission getInstance() {
        return INSTANCE;
    }
}
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```

```
package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
* The permission to change a role mapper category on a security identity.
*/
public final class ChangeRoleMapperPermission extends
AbstractNameOnlyPermission<ChangeRoleMapperPermission> {

  private static final long serialVersionUID = - 6742662884954321082L;

  /**
   * Construct a new instance.
   *
   * @param name the category name, or {@code *} for all categories
   */
  public ChangeRoleMapperPermission(final String name) {
    super(name);
  }

  /**
   * Construct a new instance.
   *
   * @param name the category name, or {@code *} for all categories
   * @param ignored the permission actions (ignored)
   */
  public ChangeRoleMapperPermission(final String name, @SuppressWarnings("unused") final String ignored) {
    this(name);
  }

  public ChangeRoleMapperPermission withName(final String name) {
    return new ChangeRoleMapperPermission(name);
  }
}
/*
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```

/**

* Permissions which pertain to authentication and authorization.

*/

package org.wildfly.security.auth.permission;

/*

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package org.wildfly.security.permission;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.security._private.ElytronMessages;

```java
final class UnionPermissionCollection extends PermissionCollection implements PermissionVerifier {
    private static final long serialVersionUID = 6731525842957764833L;

    private final PermissionCollection pc1;
    private final PermissionCollection pc2;

    UnionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
        this.pc1 = pc1;
        this.pc2 = pc2;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
    }

    public boolean implies(final Permission permission) {
        return pc1.implies(permission) || pc2.implies(permission);
    }

    public Enumeration<Permission> elements() {
        final Enumeration<Permission> e1 = pc1.elements();
        final Enumeration<Permission> e2 = pc2.elements();
        return new Enumeration<Permission>() {
            public boolean hasMoreElements() {
                return e1.hasMoreElements() || e2.hasMoreElements();
            }

            public Permission nextElement() {
                return e1.hasMoreElements() ? e1.nextElement() : e2.nextElement();
            }
        };
    }

    private void readObject(ObjectInputStream ois) throws IOException, ClassNotFoundException {
        ois.defaultReadObject();
        if (pc1 == null) {
            throw ElytronMessages.log.invalidObjectNull("pc1");
        }
        if (pc2 == null) {
            throw ElytronMessages.log.invalidObjectNull("pc2");
        }
    }
}
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```

```
package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicLong;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class LongNameSetPermissionCollection extends NameSetPermissionCollection {

    private final AtomicLong bitSet = new AtomicLong();

    LongNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission, nameEnumeration);
    }

    private Permission permissionFor(int id) {
        return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        long setBits = getBitsForName(permission);
        final AtomicLong bitSet = this.bitSet;
        long oldVal;
        do {
            oldVal = bitSet.get();
            if ((oldVal & setBits) == setBits) {
                return;
            }
        } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
    }
```

```java
public boolean implies(final Permission permission) {
    if (permission.getClass() != getSourcePermission().getClass()) {
        return false;
    }
    long testBits = getBitsForName(permission);
    return (bitSet.get() & testBits) == testBits;
}

public int size() {
    final int size = Long.bitCount(bitSet.get());
    return size == getNameEnumeration().size() ? 1 : size;
}

public EnumerationIterator<Permission> iterator() {
    return new Iter(bitSet.get());
}

public EnumerationIterator<Permission> elements() {
    return iterator();
}

private long getBitsForName(final Permission permission) {
    final long bits;
    final String name = permission.getName();
    final StringEnumeration nameEnumeration = getNameEnumeration();
    if ("*".equals(name)) {
        // add all names
        bits = (1L << nameEnumeration.size()) - 1;
    } else {
        bits = 1L << nameEnumeration.indexOf(name);
    }
    return bits;
}

private class Iter implements EnumerationIterator<Permission> {
    private long bits;

    Iter(final long bits) {
        this.bits = bits;
    }

    public boolean hasMoreElements() {
        return bits != 0;
    }

    public Permission nextElement() {
        final long bits = this.bits;
```

```
            if (bits == 0) throw new NoSuchElementException();
            if (Long.bitCount(bits) == getNameEnumeration().size()) {
               this.bits = 0;
               return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
            }
            long bit = Long.lowestOneBit(bits);
            this.bits = bits & ~bit;
            return permissionFor(Long.numberOfTrailingZeros(bit));
         }

      public boolean hasNext() {
            return hasMoreElements();
         }

      public Permission next() {
            return nextElement();
         }
      }

}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Policy;
import java.security.ProtectionDomain;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;
```

```java
/**
 * An interface for objects that can verify permissions.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
@FunctionalInterface
public interface PermissionVerifier {
    /**
     * Determine if the permission is verified by this object.
     *
     * @param permission the permission to verify (must not be {@code null})
     * @return {@code true} if the permission is implied by this verifier, {@code false} otherwise
     */
    boolean implies(Permission permission);

    /**
     * Return a new verifier which implies permissions which are implied both by this verifier and by the given
     * verifier.
     *
     * @param other the other verifier (must not be {@code null})
     * @return the new permission verifier (not {@code null})
     */
    default PermissionVerifier and(PermissionVerifier other) {
        Assert.checkNotNullParam("other", other);
        return permission -> implies(permission) && other.implies(permission);
    }

    /**
     * Return a new verifier which implies permissions which are implied either by this verifier or by the given
     * verifier.
     *
     * @param other the other verifier (must not be {@code null})
     * @return the new permission verifier (not {@code null})
     */
    default PermissionVerifier or(PermissionVerifier other) {
        Assert.checkNotNullParam("other", other);
        return permission -> implies(permission) || other.implies(permission);
    }

    /**
     * Return a new verifier which implies permissions which are implied by only one of this verifier or the given
     * verifier.
     *
     * @param other the other verifier (must not be {@code null})
     * @return the new permission verifier (not {@code null})
     */
    default PermissionVerifier xor(PermissionVerifier other) {
        Assert.checkNotNullParam("other", other);
```

```java
      return permission -> implies(permission) ^ other.implies(permission);
   }

   /**
    * Return a new verifier which implies the opposite of this verifier.
    *
    * @return the new permission verifier (not {@code null})
    */
   default PermissionVerifier not() {
      return permission -> ! implies(permission);
   }

   /**
    * Return a new verifier which implies permissions which are implied by this verifier but not the given verifier.
    *
    * @param other the other verifier (must not be {@code null})
    * @return the new permission verifier (not {@code null})
    */
   default PermissionVerifier unless(PermissionVerifier other) {
      Assert.checkNotNullParam("other", other);
      return permission -> implies(permission) && ! other.implies(permission);
   }

   /**
    * Check a permission, throwing an exception if the permission is not implied.
    *
    * @param permission the permission to check (must not be {@code null})
    * @throws SecurityException if the permission is not implied
    */
   default void checkPermission(Permission permission) throws SecurityException {
      Assert.checkNotNullParam("permission", permission);
      if (! implies(permission)) {
         throw ElytronMessages.log.permissionCheckFailed(permission, this);
      }
   }

   /**
    * Get a permission verifier for a single permission.
    *
    * @param permission the permission (must not be {@code null})
    * @return the verifier (not {@code null})
    */
   static PermissionVerifier from(Permission permission) {
      Assert.checkNotNullParam("permission", permission);
      return permission instanceof PermissionVerifier ? (PermissionVerifier) permission : permission::implies;
   }

   /**
```

```
 * Get a permission verifier for a permission collection.
 *
 * @param permissionCollection the permission collection (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(PermissionCollection permissionCollection) {
    Assert.checkNotNullParam("permissionCollection", permissionCollection);
    return permissionCollection instanceof PermissionVerifier ? (PermissionVerifier) permissionCollection :
permissionCollection::implies;
}

/**
 * Get a permission verifier for a protection domain.
 *
 * @param protectionDomain the protection domain (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(ProtectionDomain protectionDomain) {
    Assert.checkNotNullParam("protectionDomain", protectionDomain);
    return protectionDomain instanceof PermissionVerifier ? (PermissionVerifier) protectionDomain :
protectionDomain::implies;
}

/**
 * Get a permission verifier for a policy's view of a protection domain.
 *
 * @param policy the policy (must not be {@code null})
 * @param protectionDomain the protection domain (must not be {@code null})
 * @return the verifier (not {@code null})
 */
static PermissionVerifier from(Policy policy, ProtectionDomain protectionDomain) {
    Assert.checkNotNullParam("policy", policy);
    Assert.checkNotNullParam("protectionDomain", protectionDomain);
    return permission -> policy.implies(protectionDomain, permission);
}

/**
 * Convert this verifier a permission collection which implies everything this verifier implies.  If this instance
 * is already a {@code PermissionCollection} instance, then this instance may be cast and returned.  Otherwise,
 * this method may return a new, read-only collection, which cannot be iterated.
 *
 * @return the permission collection (not {@code null})
 */
default PermissionCollection toPermissionCollection() {
    if (this instanceof PermissionCollection) {
        return (PermissionCollection) this;
    } else {
        return new PermissionVerifierPermissionCollection(this);
```

```
        }
    }

    /**
     * A verifier which implies no permissions.
     */
    PermissionVerifier NONE = permission -> false;

    /**
     * A verifier which implies all permissions.
     */
    PermissionVerifier ALL = permission -> true;
}
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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;

/**
 * A permission collection for permissions with a finite set of names, which is based on a simple bit set.
 * In this type of collection, each bit represents a unique permission of a given name.  This type is not suitable for
 * permissions with actions.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class NameSetPermissionCollection extends AbstractPermissionCollection {
    private static final long serialVersionUID = - 9191397492173027470L;
    private final StringEnumeration nameEnumeration;

    /**
```

```
     * Construct a new instance.  The name enumeration is pulled from the source permission object.
     *
     * @param sourcePermission the source permission object (must not be {@code null})
     * @return the permission collection
     */
    public static AbstractPermissionCollection newInstance(final AbstractNameSetOnlyPermission<?>
sourcePermission) {
        return newInstance(sourcePermission, sourcePermission.getNameEnumeration());
    }

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission object (must not be {@code null})
     * @param nameEnumeration the name enumeration for this permission type (must not be {@code null})
     * @return the permission collection
     */
    public static AbstractPermissionCollection newInstance(final AbstractPermission<?> sourcePermission, final
StringEnumeration nameEnumeration) {
        Assert.checkNotNullParam("sourcePermission", sourcePermission);
        Assert.checkNotNullParam("nameEnumeration", nameEnumeration);
        final int size = nameEnumeration.size();
        if (size <= 32) {
            return new IntNameSetPermissionCollection(sourcePermission, nameEnumeration);
        } else if (size <= 64) {
            return new LongNameSetPermissionCollection(sourcePermission, nameEnumeration);
        } else {
            // TODO: add GiantNameSetPermissionCollection which uses AtomicIntegerArray
            throw Assert.unsupported();
        }
    }

    NameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission);
        this.nameEnumeration = nameEnumeration;
    }

    StringEnumeration getNameEnumeration() {
        return nameEnumeration;
    }
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
* The permission collection type for {@link NoPermission}.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
final class NoPermissionCollection extends AbstractPermissionCollection {
  private static final long serialVersionUID = - 8826282614161412469L;

  private static NoPermissionCollection INSTANCE = new NoPermissionCollection();

  NoPermissionCollection() {
    super(NoPermission.getInstance());
  }

  static NoPermissionCollection getInstance() {
    return INSTANCE;
  }

  protected void doAdd(final AbstractPermission<?> permission) {
    // no action
  }

  public boolean implies(final Permission permission) {
    return false;
  }

  public Enumeration<Permission> elements() {
    return Collections.emptyEnumeration();
  }
```

```java
  public Iterator<Permission> iterator() {
      return Collections.emptyIterator();
  }

  public int size() {
      return 0;
  }

  Object readResolve() {
      return INSTANCE;
  }

  public boolean equals(final Object obj) {
      return obj instanceof NoPermissionCollection;
  }

  public int hashCode() {
      return getClass().hashCode();
  }
}
```

package org.wildfly.security.permission;

import org.wildfly.security.util.StringEnumeration;

/**
* An abstract base class for permissions which use a bit set to represent actions.
*
* @author David M. Lloyd
*/

```java
public abstract class AbstractActionSetPermission<This extends AbstractActionSetPermission<This>> extends
AbstractActionPermission<This> {
  private static final long serialVersionUID = 897239118282921196L;

  private final StringEnumeration actionEnumeration;
  private final int actionBits;
  private String actions;

  /**
   * Construct a new instance.  The given bits are masked by {@link #actionsMask()} before being stored in the
object
   * instance.
   *
   * @param name the permission name
   * @param actionBits the permission action bits
   * @param actionEnumeration the permission actions enumeration
   */
  protected AbstractActionSetPermission(final String name, final int actionBits, final StringEnumeration
actionEnumeration) {
    super(name);
    this.actionEnumeration = actionEnumeration;
    this.actionBits = actionBits & actionsMask();
    if (actionBits == actionsMask()) actions = "*";
  }

  /**
   * Construct a new instance.
   *
   * @param name the permission name
   * @param actions the permission actions string
   * @param actionEnumeration the permission actions enumeration
   */
  protected AbstractActionSetPermission(final String name, final String actions, final StringEnumeration
actionEnumeration) {
    super(name);
    this.actionEnumeration = actionEnumeration;
    final int actionBits = parseActions(actions);
    this.actionBits = actionBits & actionsMask();
    if (actionBits == actionsMask()) this.actions = "*";
  }

  /**
   * Get the action bits of this permission.
   *
   * @return the action bits
   */
  public final int getActionBits() {
    return actionBits;
```

```java
    }

    public final boolean actionsEquals(final This permission) {
        return permission != null && actionBits == permission.getActionBits();
    }

    public final boolean impliesActions(final This permission) {
        return permission != null && isSet(actionBits, permission.getActionBits());
    }

    public final boolean impliesActions(final String actions) {
        return impliesActionBits(parseActions(actions));
    }

    /**
     * Determine whether this permission's actions value implies the given action bits.
     *
     * @param actionBits the actions bits to test
     * @return {@code true} if this permission implies the given action bits; {@code false} otherwise
     */
    public final boolean impliesActionBits(final int actionBits) {
        return isSet(this.actionBits, actionBits & actionsMask());
    }

    private int actionsMask() {
        return (1 << actionEnumeration.size()) - 1;
    }

    private int getActionBit(final String actionName) throws IllegalArgumentException {
        return 1 << actionEnumeration.indexOf(actionName);
    }

    private String getActionName(final int bit) throws IllegalArgumentException {
        return actionEnumeration.nameOf(Integer.numberOfTrailingZeros(bit));
    }

    protected final int actionsHashCode() {
        return actionBits;
    }

    /**
     * Get the actions string.  The string is computed the first time this method is called, and cached thereafter.
     *
     * @return the actions string (not {@code null})
     */
    public final String getActions() {
        final String actions = this.actions;
        if (actions != null) {
```

```
        return actions;
    }
    return this.actions = PermissionUtil.toActionsString(actionBits, this::getActionName);
}

/**
 * Parse the actions string into a bit set.
 *
 * @param actionsString the actions string
 * @return the bit set
 * @throws IllegalArgumentException if the actions string contained an invalid name or invalid syntax
 */
public final int parseActions(final String actionsString) throws IllegalArgumentException {
    return PermissionUtil.parseActions(actionsString, this::getActionBit);
}

public final This withActions(final String actionsString) {
    return withActionBits(parseActions(actionsString));
}

public final This withActionsFrom(final This permission) {
    return withActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the action bits from the given value.  The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param actionBits the action bits
 * @return the permission (not {@code null})
 */
public final This withActionBits(int actionBits) {
    return withNewActionBits(this.actionBits | actionBits & actionsMask());
}

public final This withoutActions(String actionsString) {
    return withoutActionBits(parseActions(actionsString));
}

public final This withoutActionsFrom(final This permission) {
    return withoutActionBits(permission.getActionBits());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the action bits from the given value.  The returned permission may or may not be a
```

new
```
     * instance, and may be equal to this instance.
     *
     * @param actionBits the action bits
     * @return the permission (not {@code null})
     */
    public final This withoutActionBits(int actionBits) {
        return withNewActionBits(this.actionBits & ~actionBits);
    }

    public final This withNewActions(String actionsString) {
        return withNewActionBits(parseActions(actionsString));
    }

    public final This withNewActionsFrom(final This permission) {
        return withNewActionBits(permission.getActionBits());
    }

    /**
     * Get a permission which is identical to this one, but with new action bits as given by {@code actionBits}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param actionBits the action bits
     * @return the permission (not {@code null})
     */
    @SuppressWarnings("unchecked")
    public final This withNewActionBits(int actionBits) {
        final int masked = actionBits & actionsMask();
        if (masked == this.actionBits) {
            return (This) this;
        } else {
            return constructWithActionBits(masked);
        }
    }

    /**
     * Construct or return a permission of this type with the same name as this one but with the given action bits.
     *
     * @param actionBits the action bits
     * @return the permission
     */
    protected abstract This constructWithActionBits(int actionBits);

    // private

    private static boolean isSet(final int bits, final int test) {
        return (bits & test) == test;
    }
```

```
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class PermissionVerifierPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 5119756048547471645L;

    private final PermissionVerifier verifier;

    PermissionVerifierPermissionCollection(final PermissionVerifier verifier) {
        this.verifier = verifier;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
    }

    public boolean implies(final Permission permission) {
        return verifier.implies(permission);
    }

    public Enumeration<Permission> elements() {
        throw Assert.unsupported();
```

```java
        }
    }
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import org.wildfly.security.util.StringEnumeration;

/**
 * An actionless permission with a finite, fixed set of possible names.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractNameSetOnlyPermission<This extends AbstractNameSetOnlyPermission<This>>
extends AbstractNameOnlyPermission<This> {

    private final StringEnumeration nameEnumeration;

    /**
     * Construct a new instance.
     *
     * @param name the name of this permission
     * @param nameEnumeration the set of valid names for this permission type
     */
    protected AbstractNameSetOnlyPermission(final String name, final StringEnumeration nameEnumeration) {
        super("*".equals(name) ? "*" : nameEnumeration.canonicalName(name));
        this.nameEnumeration = nameEnumeration;
    }

    StringEnumeration getNameEnumeration() {
        return nameEnumeration;
    }
```

```java
    public AbstractPermissionCollection newPermissionCollection() {
        return NameSetPermissionCollection.newInstance(this, nameEnumeration);
    }

    public final boolean nameEquals(final String name) {
        return super.nameEquals(name);
    }

    public final boolean impliesName(final String name) {
        return super.impliesName(name);
    }

    protected final int nameHashCode() {
        return nameEnumeration.indexOf(getName());
    }
}
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 */

package org.wildfly.security.permission;

/**
 * A permission which implies nothing, not even itself.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class NoPermission extends AbstractPermission<NoPermission> {
    private static final long serialVersionUID = 2339781690941885693L;

    private static final NoPermission INSTANCE = new NoPermission();

    /**
```

```
 * Construct a new instance.
 */
public NoPermission() {
    super("<no permissions>");
}

/**
 * Construct a new instance.  The name parameter is ignored.
 *
 * @param ignored ignored
 */
public NoPermission(final String ignored) {
    this();
}

/**
 * Construct a new instance.  The name and actions parameters are ignored.
 *
 * @param ignored1 ignored
 * @param ignored2 ignored
 */
public NoPermission(final String ignored1, final String ignored2) {
    this();
}

/**
 * Get the no-permission instance.
 *
 * @return the no-permission instance (not {@code null})
 */
public static NoPermission getInstance() {
    return INSTANCE;
}

/**
 * Always returns {@code false}.
 *
 * @param permission ignored
 * @return {@code false}
 */
public boolean implies(final NoPermission permission) {
    return false;
}

/**
 * Always returns {@code true} if the argument is not {@code null}.
 *
 * @param other the permission to compare to
```

```java
 * @return {@code true} if {@code other} is not {@code null}; {@code false} otherwise
 */
public boolean equals(final NoPermission other) {
    return other != null;
}

/**
 * Get the constant hash code.
 *
 * @return the constant hash code
 */
public int hashCode() {
    return getClass().hashCode();
}

public AbstractPermissionCollection newPermissionCollection() {
    return NoPermissionCollection.getInstance();
}
}
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 */

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;

final class SerializedPermission implements Serializable {
    private static final long serialVersionUID = 897239118282921196L;

    private final Class<? extends Permission> c;
    private final String n;
    private final String a;
```

```java
    SerializedPermission(final Class<? extends Permission> permissionClass, final String name, final String action) {
        this.c = permissionClass;
        this.n = name;
        this.a = action;
    }

    Object readResolve() {
        return PermissionUtil.createPermission(c, n, a);
    }
}
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 */

package org.wildfly.security.permission;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.AllPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Permissions;
import java.util.Arrays;
import java.util.Collection;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.function.BiConsumer;
import java.util.function.BiPredicate;
import java.util.function.Consumer;
import java.util.function.IntFunction;
import java.util.function.LongFunction;
import java.util.function.Predicate;
```

```java
import java.util.function.ToIntFunction;
import java.util.function.ToLongFunction;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
 * General permission utility methods and constants.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class PermissionUtil {

    private PermissionUtil() {
    }

    /**
     * A shared {@link AllPermission} instance.
     */
    public static final Permission ALL_PERMISSION = new AllPermission();

    /**
     * A read-only permission collection which implies {@link AllPermission}.
     */
    public static final PermissionCollection ALL_PERMISSIONS;

    /**
     * A permission collection which is empty.
     */
    public static final PermissionCollection EMPTY_PERMISSION_COLLECTION;

    /**
     * An array with no permissions in it.
     */
    public static final Permission[] NO_PERMISSIONS = new Permission[0];

    static {
        Permissions permissions = new Permissions();
        permissions.add(ALL_PERMISSION);
        permissions.setReadOnly();
        ALL_PERMISSIONS = permissions;
        permissions = new Permissions();
        permissions.setReadOnly();
        EMPTY_PERMISSION_COLLECTION = permissions;
    }

    /**
     * Parse an actions string, using the given function to map action strings to bits.
```

```
 *
 * @param actionsString the actions string (must not be {@code null})
 * @param function the mapping function (must not be {@code null})
 * @return the union of all the action bits
 * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
 */
public static int parseActions(String actionsString, ToIntFunction<String> function) throws
IllegalArgumentException {
    Assert.checkNotNullParam("actionsString", actionsString);
    Assert.checkNotNullParam("function", function);
    int actions = 0;
    int pos = 0;
    int idx = actionsString.indexOf(',');
    for (;;) {
        String str;
        if (idx == -1) {
            str = actionsString.substring(pos, actionsString.length()).trim();
            if (! str.isEmpty()) actions |= function.applyAsInt(str);
            return actions;
        } else {
            str = actionsString.substring(pos, idx).trim();
            pos = idx + 1;
            if (! str.isEmpty()) actions |= function.applyAsInt(str);
            idx = actionsString.indexOf(',', pos);
        }
    }
}

/**
 * Parse an actions string, using the given function to map action strings to bits.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @param function the mapping function (must not be {@code null})
 * @return the union of all the action bits
 * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
 */
public static long parseActions(String actionsString, ToLongFunction<String> function) throws
IllegalArgumentException {
    Assert.checkNotNullParam("actionsString", actionsString);
    Assert.checkNotNullParam("function", function);
    long actions = 0;
    int pos = 0;
    int idx = actionsString.indexOf(',');
    for (;;) {
        String str;
        if (idx == -1) {
```

```
                str = actionsString.substring(pos, actionsString.length()).trim();
                if (! str.isEmpty()) actions |= function.applyAsLong(str);
                return actions;
            } else {
                str = actionsString.substring(pos, idx).trim();
                pos = idx + 1;
                if (! str.isEmpty()) actions |= function.applyAsLong(str);
                idx = actionsString.indexOf(',', pos);
            }
        }
    }
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings.  If the bits are all clear,
 * the empty string {@code ""} is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be {@code null})
 * @return the actions string (not {@code null})
 */
public static String toActionsString(int actionBits, IntFunction<String> mappingFunction) {
    Assert.checkNotNullParam("mappingFunction", mappingFunction);
    final StringBuilder sb = new StringBuilder();
    if (actionBits == 0) return "";
    int lb = Integer.highestOneBit(actionBits);
    sb.append(mappingFunction.apply(lb));
    actionBits &= ~lb;
    while (actionBits != 0) {
        lb = Integer.highestOneBit(actionBits);
        sb.append(',').append(mappingFunction.apply(lb));
        actionBits &= ~lb;
    }
    return sb.toString();
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings.  If the bits are all clear,
 * the empty string {@code ""} is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be {@code null})
 * @return the actions string (not {@code null})
 */
public static String toActionsString(long actionBits, LongFunction<String> mappingFunction) {
    Assert.checkNotNullParam("mappingFunction", mappingFunction);
    final StringBuilder sb = new StringBuilder();
    if (actionBits == 0) return "";
    long lb = Long.highestOneBit(actionBits);
```

```java
            sb.append(mappingFunction.apply(lb));
            actionBits &= ~lb;
            while (actionBits != 0) {
                lb = Long.highestOneBit(actionBits);
                sb.append(',').append(mappingFunction.apply(lb));
                actionBits &= ~lb;
            }
            return sb.toString();
        }

        /**
         * Create an iterable view over a permission collection.
         *
         * @param pc the permission collection (must not be {@code null})
         * @return the iterable view (not {@code null})
         */
        public static Iterable<Permission> iterable(PermissionCollection pc) {
            return () -> {
                final Enumeration<Permission> elements = pc.elements();
                return new Iterator<Permission>() {
                    public boolean hasNext() {
                        return elements.hasMoreElements();
                    }

                    public Permission next() {
                        return elements.nextElement();
                    }
                };
            };
        }

        /**
         * Perform an action for each permission in the given collection.
         *
         * @param collection the collection (must not be {@code null})
         * @param consumer the consumer to which each permission should be passed (must not be {@code null})
         */
        public static void forEachIn(PermissionCollection collection, Consumer<Permission> consumer) {
            Assert.checkNotNullParam("collection", collection);
            Assert.checkNotNullParam("consumer", consumer);
            final Enumeration<Permission> elements = collection.elements();
            while (elements.hasMoreElements()) {
                consumer.accept(elements.nextElement());
            }
        }

        /**
         * Perform an action for each permission in the given collection.
```

```
 *
 * @param collection the collection (must not be {@code null})
 * @param parameter the parameter to pass to the consumer
 * @param consumer the consumer to which each permission should be passed (must not be {@code null})
 * @param <P> the type of the parameter
 * @return the {@code parameter} that was passed in
 */
public static <P> P forEachIn(PermissionCollection collection, BiConsumer<P, Permission> consumer, P
parameter) {
    Assert.checkNotNullParam("collection", collection);
    Assert.checkNotNullParam("consumer", consumer);
    final Enumeration<Permission> elements = collection.elements();
    while (elements.hasMoreElements()) {
        consumer.accept(parameter, elements.nextElement());
    }
    return parameter;
}

/**
 * Run a test for each permission in the given collection.  If the predicate returns {@code false} for any element,
 * {@code false} is returned; otherwise, {@code true} is returned.
 *
 * @param collection the collection (must not be {@code null})
 * @param predicate the predicate to apply to each element (must not be {@code null})
 * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
 */
public static boolean forEachIn(PermissionCollection collection, Predicate<Permission> predicate) {
    Assert.checkNotNullParam("collection", collection);
    Assert.checkNotNullParam("predicate", predicate);
    final Enumeration<Permission> elements = collection.elements();
    while (elements.hasMoreElements()) {
        if (! predicate.test(elements.nextElement())) {
            return false;
        }
    }
    return true;
}

/**
 * Run a test for each permission in the given collection.  If the predicate returns {@code false} for any element,
 * {@code false} is returned; otherwise, {@code true} is returned.
 *
 * @param collection the collection (must not be {@code null})
 * @param parameter the parameter to pass to the consumer
 * @param predicate the predicate to apply to each element (must not be {@code null})
 * @param <P> the type of the parameter
 * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
 */
```

```java
    public static <P> boolean forEachIn(PermissionCollection collection, BiPredicate<P, Permission> predicate, P
parameter) {
        Assert.checkNotNullParam("collection", collection);
        Assert.checkNotNullParam("predicate", predicate);
        final Enumeration<Permission> elements = collection.elements();
        while (elements.hasMoreElements()) {
            if (! predicate.test(parameter, elements.nextElement())) {
                return false;
            }
        }
        return true;
    }

    /**
     * Create a permission collection that is the union of two permission collections.  The permission
     * collections must be read-only.
     *
     * @param pc1 the first permission collection (must not be {@code null})
     * @param pc2 the second permission collection (must not be {@code null})
     * @return a new permission collection that is the union of the two collections (not {@code null})
     */
    public static PermissionCollection union(PermissionCollection pc1, PermissionCollection pc2) {
        Assert.checkNotNullParam("pc1", pc1);
        Assert.checkNotNullParam("pc2", pc2);
        if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
            throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
        }
        if (pc1.implies(ALL_PERMISSION) || pc2.implies(ALL_PERMISSION)) {
            return ALL_PERMISSIONS;
        } else {
            return new UnionPermissionCollection(pc1, pc2);
        }
    }

    /**
     * Create a permission collection that is the intersection of two permission collections.  The permission
     * collections must be read-only.
     *
     * @param pc1 the first permission collection (must not be {@code null})
     * @param pc2 the second permission collection (must not be {@code null})
     * @return a new permission collection that is the intersection of the two collections (not {@code null})
     */
    public static PermissionCollection intersection(PermissionCollection pc1, PermissionCollection pc2) {
        Assert.checkNotNullParam("pc1", pc1);
        Assert.checkNotNullParam("pc2", pc2);
        if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
            throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
        }
```

```
    if (pc1.implies(ALL_PERMISSION)) {
        return pc2;
    } else if (pc2.implies(ALL_PERMISSION)) {
        return pc1;
    } else {
        return new IntersectionPermissionCollection(pc1, pc2);
    }
}

/**
 * Determine if one collection implies all the permissions in the other collection.
 *
 * @param collection the collection to check against (must not be {@code null})
 * @param testCollection the collection whose permissions are to be tested (must not be {@code null})
 * @return {@code true} if {@code collection} implies all of the permissions in {@code testCollection}, {@code
false} otherwise
 */
public static boolean impliesAll(PermissionCollection collection, PermissionCollection testCollection) {
    return forEachIn(collection, PermissionCollection::implies, testCollection);
}

/**
 * Determine if two permission collections are equal, that is, each collection implies all of the permissions in the
 * other collection.
 *
 * @param pc1 the first collection (must not be {@code null})
 * @param pc2 the second collection (must not be {@code null})
 * @return {@code true} if the collections imply one another, {@code false} otherwise
 */
public static boolean equals(PermissionCollection pc1, PermissionCollection pc2) {
    return impliesAll(pc1, pc2) && impliesAll(pc2, pc1);
}

/**
 * Add all of the permissions from the source collection to the target collection.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the source collection (must not be {@code null})
 * @return the target collection (not {@code null})
 */
public static PermissionCollection addAll(PermissionCollection target, PermissionCollection source) {
    return forEachIn(source, PermissionCollection::add, target);
}

/**
 * Add all of the permissions from the source collection to the target collection.
 *
 * @param target the target collection (must not be {@code null})
```

```java
 * @param source the source collection (must not be {@code null})
 * @return the target collection (not {@code null})
 */
public static PermissionCollection addAll(PermissionCollection target, Collection<Permission> source) {
    source.forEach(target::add);
    return target;
}

/**
 * Add a permission to a collection, returning the target collection.  If the permission is {@code null}, it is
 * not added.
 *
 * @param target the target collection (must not be {@code null})
 * @param source the permission to add
 * @return the target collection (not {@code null})
 */
public static PermissionCollection add(PermissionCollection target, Permission source) {
    Assert.checkNotNullParam("target", target);
    if (source != null) target.add(source);
    return target;
}

/**
 * Instantiate a permission with the given class name, permission name, and actions.
 *
 * @param classLoader the class loader to search in ({@code null} indicates the system class loader)
 * @param className the name of the permission class to instantiate (must not be {@code null})
 * @param name the permission name (may be {@code null} if allowed by the permission class)
 * @param actions the permission actions (may be {@code null} if allowed by the permission class)
 * @return the permission object (not {@code null})
 * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
 * @throws ClassCastException if the class name does not refer to a subclass of {@link Permission}
 */
public static Permission createPermission(final ClassLoader classLoader, final String className, final String
name, final String actions) {
    Assert.checkNotNullParam("className", className);
    final Class<? extends Permission> permissionClass;
    try {
        permissionClass = Class.forName(className, true, classLoader).asSubclass(Permission.class);
    } catch (ClassNotFoundException e) {
        throw ElytronMessages.log.permissionClassMissing(className, e);
    }
    return createPermission(permissionClass, name, actions);
}

/**
 * Instantiate a permission with the given class, permission name, and actions.
 *
```

```
 * @param permissionClass the permission class to instantiate (must not be {@code null})
 * @param name the permission name (may be {@code null} if allowed by the permission class)
 * @param actions the permission actions (may be {@code null} if allowed by the permission class)
 * @return the permission object (not {@code null})
 * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
 */
public static Permission createPermission(final Class<? extends Permission> permissionClass, final String name,
final String actions) {
    Assert.checkNotNullParam("permissionClass", permissionClass);
    Constructor<? extends Permission> noArgs = null;
    Constructor<? extends Permission> oneArg = null;
    Constructor<? extends Permission> twoArg = null;
    for (Constructor<?> raw : permissionClass.getConstructors()) {
        @SuppressWarnings("unchecked")
        Constructor<? extends Permission> ctor = (Constructor<? extends Permission>) raw;
        final Class<?>[] parameterTypes = ctor.getParameterTypes();
        if (parameterTypes.length == 2 && parameterTypes[0] == String.class && parameterTypes[1] ==
String.class) {
            twoArg = ctor;
        } else if (parameterTypes.length == 1 && parameterTypes[0] == String.class) {
            oneArg = ctor;
        } else if (parameterTypes.length == 0) {
            noArgs = ctor;
        }
    }
    try {
        if (twoArg != null) {
            return twoArg.newInstance(name, actions);
        } else if (oneArg != null) {
            return oneArg.newInstance(name);
        } else if (noArgs != null) {
            return noArgs.newInstance();
        } else {
            throw ElytronMessages.log.noPermissionConstructor(permissionClass.getName());
        }
    } catch (IllegalAccessException e) {
        throw new IllegalAccessError(e.getMessage());
    } catch (InstantiationException e) {
        throw ElytronMessages.log.permissionInstantiation(permissionClass.getName(), e);
    } catch (InvocationTargetException e) {
        try {
            throw e.getCause();
        } catch (Error | RuntimeException cause) {
            throw cause;
        } catch (Throwable cause) {
            throw new UndeclaredThrowableException(cause);
        }
    }
```

```
        }

        /**
         * Get a read-only collection of the given permissions.
         *
         * @param permissions the permissions to assign
         * @return the read-only collection
         */
        public static PermissionCollection readOnlyCollectionOf(Permission... permissions) {
            final int length = permissions.length;
            if (length == 0) {
                return EMPTY_PERMISSION_COLLECTION;
            } else {
                Permissions collection = new Permissions();
                addAll(collection, Arrays.asList(permissions));
                collection.setReadOnly();
                return collection;
            }
        }
    }
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*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import java.security.Permission;

/**
* An abstract base class for named permissions with useful API and implementation methods.
* <p>
* Subclasses of this class are always serialized as a special serialized permission object, which captures the type
```

class,
* the permission name (if any), and the permission action (if any) as a string. Therefore, none of the fields of any
* subclass of this class are serialized unless they are included in the name or actions properties.
* <p>
* Concrete subclasses are expected to be immutable and final.
*
* @author David M. Lloyd
*/
public abstract class AbstractNamedPermission<This extends AbstractNamedPermission<This>> extends
AbstractPermission<This> {
  private static final long serialVersionUID = 5774685776540853292L;

  /**
   * Construct a new instance.
   *
   * @param name the permission name (must not be {@code null})
   */
  protected AbstractNamedPermission(final String name) {
    super(Assert.checkNotNullParam("name", name));
  }

  /**
   * Create a new permission which is identical to this one, except with a new {@code name}.
   *
   * @param name the name to use (must not be {@code null})
   * @return the new permission
   */
  public abstract This withName(String name);

  /**
   * Determine whether this permission has a name equal to the given name.
   *
   * @param name the name to check
   * @return {@code true} if this permission's name is equal to the given name, {@code false} otherwise
   */
  public boolean nameEquals(final String name) {
    return getName().equals(name);
  }

  /**
   * Determine whether this permission has a name equal to the name of the given permission. If the given
permission
   * is of a different type than this permission, {@code false} is returned.
   *
   * @param permission the permission whose name is to be checked
   * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
   */

```java
@SuppressWarnings("unchecked")
public final boolean nameEquals(final Permission permission) {
    return permission != null && permission.getClass() == getClass() && nameEquals((This) permission);
}

/**
 * Determine whether this permission has a name equal to the name of the given permission.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
 otherwise
 */
public final boolean nameEquals(final This permission) {
    return permission != null && nameEquals(permission.getName());
}

/**
 * Get the hash code of the name.  The default implementation returns {@code getName().hashCode()}.
 *
 * @return the hash code of the name
 */
protected int nameHashCode() {
    return getName().hashCode();
}

/**
 * Determine whether this permission implies the given name.
 *
 * @param name the name to check
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
public boolean impliesName(final String name) {
    return nameEquals("*") || nameEquals(name);
}

/**
 * Determine whether this permission implies the name of the given permission.  If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean impliesName(final Permission permission) {
    return permission != null && permission.getClass() == getClass() && impliesName((This) permission);
}

/**
```

```
 * Determine whether this permission implies the name of the given permission.
 *
 * @param permission the permission whose name is to be checked
 * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
 */
public boolean impliesName(final This permission) {
    return permission != null && impliesName(permission.getName());
}

public boolean implies(final This permission) {
    return permission != null && impliesName(permission);
}

public boolean equals(final This other) {
    return other != null && nameEquals(other);
}

public int hashCode() {
    return getClass().hashCode() * 71 + nameHashCode();
}
}
/*
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;
import java.util.Iterator;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;
```

```
/**
 * Base class for useful permission collections.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractPermissionCollection extends PermissionCollection implements Iterable<Permission>,
PermissionVerifier {
    private static final long serialVersionUID = - 7532778883140764647L;

    private final AbstractPermission<?> sourcePermission;

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission for this collection (must not be {@code null})
     */
    protected AbstractPermissionCollection(final AbstractPermission<?> sourcePermission) {
        Assert.checkNotNullParam("sourcePermission", sourcePermission);
        this.sourcePermission = sourcePermission;
    }

    /**
     * Get the size of this permission collection.
     *
     * @return the size of this permission collection
     */
    public abstract int size();

    /**
     * Iterate over this permission collection.
     *
     * @return the iterator (not {@code null})
     */
    public abstract Iterator<Permission> iterator();

    /**
     * Iterate over this permission collection.
     *
     * @return the iterator (not {@code null})
     */
    public abstract Enumeration<Permission> elements();

    /**
     * Add an item to this collection.  The permission class must be the same as the source permission's class.
     *
     * @param permission the permission to add (must not be {@code null})
     */
```

```java
    public final void add(final Permission permission) {
        Assert.checkNotNullParam("permission", permission);
        if (isReadOnly()) throw ElytronMessages.log.readOnlyPermissionCollection();
        @SuppressWarnings("rawtypes")
        Class<? extends AbstractPermission> expected =
sourcePermission.getClass().asSubclass(AbstractPermission.class);
        if (expected != permission.getClass()) {
            throw ElytronMessages.log.invalidPermissionType(expected, permission);
        }
        doAdd(expected.cast(permission));
    }

    /**
     * Perform the work of adding a permission.  The permission is guaranteed to be of the correct type and the collection
     * is guaranteed to have been writable at the time the {@link #add(Permission)} method was called.
     *
     * @param permission the non-{@code null} permission
     */
    protected abstract void doAdd(final AbstractPermission<?> permission);

    final AbstractPermission<?> getSourcePermission() {
        return sourcePermission;
    }

    final Object writeReplace() {
        return new SerializedPermissionCollection(this);
    }
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package org.wildfly.security.permission;
```

```java
import java.security.Permission;

import org.wildfly.common.Assert;

/**
 * An abstract base class for named permissions that have actions, with useful API and implementation methods.  All
 * the constraints described in {@link AbstractNamedPermission} apply.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractActionPermission<This extends AbstractActionPermission<This>> extends
AbstractNamedPermission<This> {
    private static final long serialVersionUID = - 1366777243917643233L;

    /**
     * Construct a new instance.
     *
     * @param name the permission name
     */
    protected AbstractActionPermission(final String name) {
        super(name);
    }

    /**
     * Determine whether this permission implies another permission.  Returns {@code true} if
     * both {@link #impliesActions(AbstractActionPermission)} and {@link
#impliesName(AbstractNamedPermission)}
     * return {@code true}.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public final boolean implies(final This permission) {
        return permission != null && impliesActions(permission) && impliesName(permission);
    }

    /**
     * Determine whether this permission is equal to another permission.  Returns {@code true} if
     * both {@link #actionsEquals(AbstractActionPermission)} and {@link
#nameEquals(AbstractNamedPermission)}
     * return {@code true}.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public final boolean equals(final This permission) {
        return super.equals(permission) && actionsEquals(permission);
```

```java
    }

    public final int hashCode() {
        return super.hashCode() * 53 + actionsHashCode();
    }

    /**
     * Determine whether the actions of this permission are equal to the given {@code actions}.
     *
     * @param actions the actions string (must not be {@code null})
     * @return {@code true} if the actions are equal, {@code false} otherwise
     */
    public abstract boolean actionsEquals(String actions);

    /**
     * Determine whether the actions of this permission are equal to the actions of given {@code permission}.  If
     * the permission is not of the same type as this permission, {@code false} is returned.
     *
     * @param permission the permission whose actions are to be compared
     * @return {@code true} if the actions are equal, {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean actionsEquals(Permission permission) {
        return permission != null && permission.getClass() == getClass() && actionsEquals((This) permission);
    }

    /**
     * Determine whether the actions of this permission are equal to the actions of given {@code permission}.
     *
     * @param permission the permission whose actions are to be compared
     * @return {@code true} if the actions are equal, {@code false} otherwise
     */
    public abstract boolean actionsEquals(This permission);

    /**
     * Get the actions hash code.
     *
     * @return the actions hash code
     */
    protected abstract int actionsHashCode();

    /**
     * Determine whether this permission's actions value implies the given actions value.
     *
     * @param actions the actions to test (must not be {@code null})
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public abstract boolean impliesActions(String actions);
```

```
/**
 * Determine whether this permission's actions value implies the actions of the given {@code permission}.  If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean impliesActions(Permission permission) {
    return permission != null && permission.getClass() == getClass() && impliesActions((This) permission);
}

/**
 * Determine whether this permission's actions value implies the actions of the given {@code permission}.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean impliesActions(This permission);

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the actions from the given string.  The returned permission may or may not be a new
 * instance, and may be equal to this instance.
 *
 * @param actionsString the actions string (must not be {@code null})
 * @return the permission (not {@code null})
 */
public abstract This withActions(String actionsString);

/**
 * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
 * from this permission and the actions from the given permission.  The returned permission may or may not be a
new
 * instance, and may be equal to this instance.
 *
 * @param permission the other permission (must not be {@code null})
 * @return the permission (not {@code null})
 */
public This withActionsFrom(This permission) {
    Assert.checkNotNullParam("permission", permission);
    return withActions(permission.getActions());
}

/**
 * Get a permission which is identical to this one, but with new actions which consist of the actions
 * from this permission without the actions from the given string.  The returned permission may or may not be a
```

new
```
     * instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withoutActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the actions from the given permission.  The returned permission may or may not
be a new
     * instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withoutActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withActions(permission.getActions());
    }

    /**
     * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withNewActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withNewActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withNewActions(permission.getActions());
    }
}
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*
```

```
package org.wildfly.security.permission;

/**
 * A base class for nameless and actionless permissions that are either granted or not granted.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractBooleanPermission<This extends AbstractBooleanPermission<This>> extends AbstractPermission<This> {
  /**
   * Construct a new instance.
   */
  protected AbstractBooleanPermission() {
    super("");
  }

  public boolean implies(final This permission) {
    return permission != null;
  }

  public boolean equals(final This other) {
    return other != null;
  }

  public int hashCode() {
    return getClass().hashCode();
  }

  public AbstractPermissionCollection newPermissionCollection() {
    return new BooleanPermissionCollection(this);
  }
}
/*
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```

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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;
import org.wildfly.security.util.StringMapping;

/**
 * A general Elytron permission.  The permission {@code name} must be one of the following:
 * <ul>
 *     <li>{@code authenticate}</li>
 *     <li>{@code createAuthenticator}</li>
 *     <li>{@code createAuthenticationContextConfigurationClient}</li>
 *     <li>{@code createSecurityDomain}</li>
 *     <li>{@code createSecurityRealm}</li>
 *     <li>{@code registerSecurityDomain}</li>
 *     <li>{@code getSecurityDomain}</li>
 *     <li>{@code unregisterSecurityDomain}</li>
 *     <li>{@code setRunAsPrincipal}</li>
 *     <li>{@code createServerAuthenticationContext}</li>
 *     <li>{@code getPrivateCredentials}</li>
 *     <li>{@code getIdentity}</li>
 *     <li>{@code getIdentityForUpdate}</li>
 *     <li>{@code createAdHocIdentity}</li>
 * </ul>
 * The {@code actions} are not used and should be empty or {@code null}.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class ElytronPermission extends AbstractNameSetOnlyPermission<ElytronPermission> {

    private static final long serialVersionUID = 6124294238228442419L;

    private static final StringEnumeration strings = StringEnumeration.of(
```

```
        "authenticate",
        "createAuthenticator",
        "createAuthenticationContextConfigurationClient",
        "createSecurityDomain",
        "createSecurityRealm",
        "registerSecurityDomain",
        "getSecurityDomain",
        "unregisterSecurityDomain",
        "setRunAsPrincipal",
        "createServerAuthenticationContext",
        "getPrivateCredentials",
        "getIdentity",
        "getIdentityForUpdate",
        "createAdHocIdentity"
    );

    static final StringMapping<ElytronPermission> mapping = new StringMapping<>(strings,
ElytronPermission::new);

    private static final ElytronPermission allPermission = new ElytronPermission("*");

    /**
     * Construct a new instance.
     *
     * @param name the name of the permission
     */
    public ElytronPermission(final String name) {
        this(name, null);
    }

    /**
     * Construct a new instance.
     *
     * @param name the name of the permission
     * @param actions the actions (should be empty)
     */
    public ElytronPermission(final String name, final String actions) {
        super(name, strings);
        requireEmptyActions(actions);
    }

    public ElytronPermission withName(final String name) {
        return forName(name);
    }

    /**
     * Get the permission with the given name.
     *
```

```
    * @param name the name (must not be {@code null})
    * @return the permission (not {@code null})
    * @throws IllegalArgumentException if the name is not valid
    */
   public static ElytronPermission forName(final String name) {
      Assert.checkNotNullParam("name", name);
      return name.equals("*") ? allPermission : mapping.getItemByString(name);
   }
}
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 * limitations under the License.
 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.Set;

/**
 * A permission collection type which either does or does not hold its instance.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class BooleanPermissionCollection extends AbstractPermissionCollection {
   private volatile boolean added;

   /**
    * Construct a new instance.
    *
    * @param sourcePermission the source permission for this collection (must not be {@code null})
    */
```

```java
  public BooleanPermissionCollection(final AbstractPermission<?> sourcePermission) {
    super(sourcePermission);
  }

  public int size() {
    return added ? 1 : 0;
  }

  public Iterator<Permission> iterator() {
    return added ? getSingletonCollection().iterator() : Collections.emptyIterator();
  }

  public Enumeration<Permission> elements() {
    return added ? Collections.enumeration(getSingletonCollection()) : Collections.emptyEnumeration();
  }

  private Set<Permission> getSingletonCollection() {
    return Collections.singleton(getSourcePermission());
  }

  protected void doAdd(final AbstractPermission<?> permission) {
    added = true;
  }

  public boolean implies(final Permission permission) {
    return added && permission.getClass() == getSourcePermission().getClass();
  }
}
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 */

package org.wildfly.security.permission;
```

```
import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;

final class SerializedPermissionCollection implements Serializable {
  private static final long serialVersionUID = - 8745428905589938281L;

  private final Permission s;
  private final Permission[] p;
  private final boolean r;

  SerializedPermissionCollection(final AbstractPermissionCollection collection) {
    s = collection.getSourcePermission();
    final ArrayList<Permission> list = new ArrayList<>(collection.size());
    collection.forEach(list::add);
    p = list.toArray(PermissionUtil.NO_PERMISSIONS);
    r = collection.isReadOnly();
  }

  Object readResolve() {
    final PermissionCollection collection = s.newPermissionCollection();
    for (Permission permission : p) {
      collection.add(permission);
    }
    if (r) collection.setReadOnly();
    return collection;
  }
}
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*/

package org.wildfly.security.permission;
```

```java
import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security._private.ElytronMessages;
import org.wildfly.security.util.ArrayIterator;

/**
 * A trivially simple permission collection, suitable as a default for most permission types (though probably not as efficient
 * as a specialized type in many cases).
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class SimpleActionBitsPermissionCollection extends AbstractPermissionCollection {

    private static final AbstractActionSetPermission<?>[] NO_PERMS = new AbstractActionSetPermission<?>[0];

    private final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = new AtomicReference<>(NO_PERMS);

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission for this collection (must not be {@code null})
     */
    public SimpleActionBitsPermissionCollection(final AbstractActionSetPermission<?> sourcePermission) {
        super(sourcePermission);
    }

    public int size() {
        return permissionsRef.get().length;
    }

    @Override
    protected void doAdd(final AbstractPermission<?> permission) {
        if (permission instanceof AbstractActionSetPermission<?>) {
            doAdd((AbstractActionSetPermission<?>) permission);
        }
        throw ElytronMessages.log.invalidPermissionType(AbstractActionSetPermission.class, permission);
    }

    /**
     * Adds a permission.
     *
     * @param permission the non-{@code null} permission
```

```
*/
protected void doAdd(final AbstractActionSetPermission<?> permission) {
   AbstractActionSetPermission<?>[] oldVal, readVal, newVal;
   int count;
   final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = this.permissionsRef;
   do {
      readVal = permissionsRef.get();
      count = 0;
      do {
         oldVal = readVal;
         AbstractActionSetPermission<?> merged = permission;
         retry: for (;;) {
            for (AbstractActionSetPermission<?> test : oldVal) {
               if (test.implies(merged)) {
                  // fail fast
                  return;
               }
               if (test.nameEquals(merged)) {
                  // combine
                  merged = merged.withActionBits(permission.getActionBits());
                  // test again with merged permission
                  count = 0;
                  continue retry;
               }
               if (! merged.implies(test)) {
                  // prepare to skip any permissions that are obviated by this one
                  count ++;
               }
            }
            break;
         }
         // see if it's still what we expect before we commit to the possibly expensive update...
         readVal = permissionsRef.get();
      } while (readVal != oldVal);
      newVal = new AbstractActionSetPermission<?>[count + 1];
      int i = 0;
      for (AbstractActionSetPermission<?> test : oldVal) {
         if (! permission.implies(test)) {
            newVal[i++] = test;
         }
      }
      newVal[i] = permission;
   } while (! permissionsRef.compareAndSet(oldVal, newVal));
}

public boolean implies(final Permission permission) {
   for (Permission test : permissionsRef.get()) {
      if (test.implies(permission)) {
```

```
            return true;
        }
    }
    return false;
}

    public Iterator<Permission> iterator() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }

    public Enumeration<Permission> elements() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.ConcurrentHashMap;

/**
 * A permission collection for actionless permissions which are organized by name.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public final class ByNamePermissionCollection extends AbstractPermissionCollection {
```

```java
private final ConcurrentHashMap<String, Permission> byName = new ConcurrentHashMap<>();
private volatile Permission all;

/**
 * The source permission used to construct this collection.
 *
 * @param sourcePermission the source permission (must not be {@code null})
 */
public ByNamePermissionCollection(final AbstractPermission<?> sourcePermission) {
    super(sourcePermission);
}

public int size() {
    return all != null ? 1 : byName.size();
}

public Iterator<Permission> iterator() {
    return getIterablePermissions().iterator();
}

public Enumeration<Permission> elements() {
    return Collections.enumeration(getIterablePermissions());
}

private Collection<Permission> getIterablePermissions() {
    return all != null ? Collections.singleton(all) :
Arrays.asList(byName.values().toArray(PermissionUtil.NO_PERMISSIONS));
}

protected void doAdd(final AbstractPermission<?> permission) {
    if (permission.getName().equals("*")) {
        all = permission;
        byName.clear();
    } else {
        byName.putIfAbsent(permission.getName(), permission);
    }
}

public boolean implies(final Permission permission) {
    if (permission == null || getSourcePermission().getClass() != permission.getClass()) {
        return false;
    }
    final Permission all = this.all;
    if (all != null) {
        return all.implies(permission);
    }
    final Permission ourPermission = byName.get(permission.getName());
    return ourPermission != null && ourPermission.implies(permission);
```

```
    }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security.util.ArrayIterator;

/**
* A trivially simple permission collection, suitable as a default for most permission types (though probably not as
efficient
* as a specialized type in many cases).
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class SimplePermissionCollection extends AbstractPermissionCollection {

    private static final long serialVersionUID = - 9157630531211570679L;

    private final AtomicReference<Permission[]> permissionsRef = new
AtomicReference<>(PermissionUtil.NO_PERMISSIONS);

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission for this collection (must not be {@code null})
     */
```

```java
public SimplePermissionCollection(final AbstractPermission<?> sourcePermission) {
   super(sourcePermission);
}

public int size() {
   return permissionsRef.get().length;
}

protected void doAdd(final AbstractPermission<?> permission) {
   Permission[] oldVal, readVal, newVal;
   int count;
   final AtomicReference<Permission[]> permissionsRef = this.permissionsRef;
   do {
      readVal = permissionsRef.get();
      do {
         count = 0;
         oldVal = readVal;
         for (Permission test : oldVal) {
            if (test.implies(permission)) {
               return;
            }
            if (! permission.implies(test)) {
               // prepare to skip any permissions that are obviated by this one
               count ++;
            }
         }
         // see if it's still what we expect before we commit to the possibly expensive update...
         readVal = permissionsRef.get();
      } while (readVal != oldVal);
      newVal = new Permission[count + 1];
      int i = 0;
      for (Permission test : oldVal) {
         if (! permission.implies(test)) {
            newVal[i++] = test;
         }
      }
      newVal[i] = permission;
   } while (! permissionsRef.compareAndSet(oldVal, newVal));
}

public boolean implies(final Permission permission) {
   for (Permission test : permissionsRef.get()) {
      if (test.implies(permission)) {
         return true;
      }
   }
   return false;
}
```

```java
    public Iterator<Permission> iterator() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }

    public Enumeration<Permission> elements() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }
}
```

```
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 */

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import static org.wildfly.security.manager._private.SecurityMessages.permission;

import java.util.Arrays;
import java.util.EnumSet;
import java.util.Iterator;

/**
 * A helper class for defining permissions which use a finite list of actions.  Define custom permissions using
 * an {@code enum} of actions, where the string representation (via {@code toString()}) of each enum is one possible
 * action name.  Typically the {@code enum} should be non-public, and the constant names should be lowercase.  If
 * an action name contains a character which is not a valid Java identifier, then the {@code toString()} method of
 * such constants should be overridden to report the correct string.  The actions may be stored on the permission as
 * an {@code EnumSet}, an {@code int}, or a {@code long}.  The field should be marked {@code transient}, and
 * the actions represented by a (possibly synthetic) field of type {@code String} which uses the canonical representation
 * of the actions.
```

```
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 *
 * @deprecated Use one of the abstract permission classes like {@link AbstractActionSetPermission} instead.
 */
@Deprecated
public final class PermissionActions {

    private PermissionActions() {
    }

    static final class TrieNode<E> {
        private static final char[] C_EMPTY = new char[0];
        private static final TrieNode[] T_EMPTY = new TrieNode[0];

        private E result;
        private char[] matches = C_EMPTY;
        @SuppressWarnings("unchecked")
        private TrieNode<E>[] children = T_EMPTY;

        void put(String s, int idx, E value) {
            if (idx == s.length()) {
                result = value;
                return;
            }
            char c = s.charAt(idx);
            final int i = Arrays.binarySearch(matches, c);
            if (i < 0) {
                // copy and add
                final int oldLength = matches.length;
                final char[] newMatches = Arrays.copyOf(matches, oldLength + 1);
                final TrieNode<E>[] newChildren = Arrays.copyOf(children, oldLength + 1);
                // i is the negated insertion index
                final int insertIndex = -i - 1;
                System.arraycopy(newMatches, insertIndex, newMatches, insertIndex + 1, oldLength - insertIndex);
                System.arraycopy(newChildren, insertIndex, newChildren, insertIndex + 1, oldLength - insertIndex);
                newMatches[insertIndex] = c;
                final TrieNode<E> newNode = new TrieNode<>();
                newChildren[insertIndex] = newNode;
                matches = newMatches;
                children = newChildren;
                newNode.put(s, idx + 1, value);
            } else {
                children[i].put(s, idx + 1, value);
            }
        }

        E get(String s, int idx, int end) {
```

```
      if (idx == end) {
        return result;
      }
      final char c = s.charAt(idx);
      final int i = Arrays.binarySearch(matches, c);
      if (i < 0) {
        return null;
      }
      return children[i].get(s, idx + 1, end);
    }
  }

  static final class Info<E> {
    final TrieNode<E> root;
    final E[] constants;

    Info(final TrieNode<E> root, final E[] constants) {
      this.root = root;
      this.constants = constants;
    }
  }

  private static final ClassValue<Info<?>> storedInfo = new ClassValue<Info<?>>() {
    protected Info<?> computeValue(final Class<?> type) {
      return computeReal(type);
    }

    private <E> Info<E> computeReal(final Class<E> type) {
      final TrieNode<E> root = new TrieNode<>();
      final E[] enumConstants = type.getEnumConstants();
      for (E e : enumConstants) {
        root.put(e.toString(), 0, e);
      }
      return new Info<>(root, type.getEnumConstants());
    }
  };

  interface MatchAction<E extends Enum<E>> {
    void matched(E item);

    void matchedAll(Class<E> type);
  }

  static class SetMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private EnumSet<E> set;

    SetMatchAction(final EnumSet<E> set) {
      this.set = set;
```

```java
    }

    public void matched(final E item) {
        set.add(item);
    }

    public void matchedAll(final Class<E> type) {
        set = EnumSet.allOf(type);
    }

    public EnumSet<E> getSet() {
        return set;
    }
}

static class IntMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private int result;

    IntMatchAction() {
    }

    public void matched(final E item) {
        result |= 1 << item.ordinal();
    }

    public void matchedAll(final Class<E> type) {
        result |= (1 << storedInfo.get(type).constants.length) - 1;
    }

    public int getResult() {
        return result;
    }
}

static class LongMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private long result;

    LongMatchAction() {
    }

    public void matched(final E item) {
        result |= 1L << item.ordinal();
    }

    public void matchedAll(final Class<E> type) {
        result |= (1L << storedInfo.get(type).constants.length) - 1;
    }
```

```java
    public long getResult() {
        return result;
    }

}

/**
 * Parse an action string using the given action type to an {@code EnumSet}.
 *
 * @param actionType the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type
 *
 * @return the set of actions from the string
 *
 * @throws IllegalArgumentException if the string contained an invalid action
 */
public static <E extends Enum<E>> EnumSet<E> parseActionStringToSet(Class<E> actionType, String
actionString) throws IllegalArgumentException {
    Assert.checkNotNullParam("actionType", actionType);
    Assert.checkNotNullParam("actionString", actionString);
    final SetMatchAction<E> matchAction = new SetMatchAction<>(EnumSet.noneOf(actionType));
    doParse(actionType, actionString, matchAction);
    return matchAction.getSet();
}

/**
 * Parse an action string using the given action type to an {@code int}.  The given {@code enum} type must have
 * 32 or fewer constant values.
 *
 * @param actionType the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type
 *
 * @return the set of actions from the string
 *
 * @throws IllegalArgumentException if the string contained an invalid action
 */
public static <E extends Enum<E>> int parseActionStringToInt(Class<E> actionType, String actionString) throws
IllegalArgumentException {
    Assert.checkNotNullParam("actionType", actionType);
    Assert.checkNotNullParam("actionString", actionString);
    final IntMatchAction<E> matchAction = new IntMatchAction<>();
    doParse(actionType, actionString, matchAction);
    return matchAction.getResult();
}

/**
 * Parse an action string using the given action type to a {@code long}.  The given {@code enum} type must have
```

```
 * 64 or fewer constant values.
 *
 * @param actionType the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type
 *
 * @return the set of actions from the string
 *
 * @throws IllegalArgumentException if the string contained an invalid action
 */
public static <E extends Enum<E>> long parseActionStringToLong(Class<E> actionType, String actionString)
throws IllegalArgumentException {
    Assert.checkNotNullParam("actionType", actionType);
    Assert.checkNotNullParam("actionString", actionString);
    final LongMatchAction<E> matchAction = new LongMatchAction<>();
    doParse(actionType, actionString, matchAction);
    return matchAction.getResult();
}

private static <E extends Enum<E>> void doParse(final Class<E> actionType, final String actionString, final
MatchAction<E> matchAction) {
    @SuppressWarnings("unchecked")
    final Info<E> info = (Info<E>) storedInfo.get(actionType);
    final TrieNode<E> rootNode = info.root;
    // begin parse
    char c;
    final int length = actionString.length();
    int i = 0;
    L0: for (;;) {
        if (i == length) {
            // OK
            break L0;
        }
        c = actionString.charAt(i);
        if (Character.isWhitespace(c)) {
            i ++;
            continue L0;
        }
        if (c == ',') {
            // hmm, empty segment; ignore it
            i ++;
            continue L0;
        }
        if (c == '*') {
            // potential star
            matchAction.matchedAll(actionType);
            for (;;) {
                i ++;
```

```
      if (i == length) {
        // done
        break L0;
      }
      c = actionString.charAt(i);
      if (c == ',') {
        // pointless, but go on
        i ++;
        continue L0;
      }
      if (! Character.isWhitespace(c)) {
        throw permission.unexpectedActionCharacter(c, i, actionString);
      }
    }
    // not reachable
  }
  // else it's a potentially valid character
  int start = i;
  for (;;) {
    i++;
    c = i < length ? actionString.charAt(i) : 0;
    if (i == length || Character.isWhitespace(c) || c == ',') {
      // action string ends here
      final E action = rootNode.get(actionString, start, i);
      if (action == null) {
        throw permission.invalidAction(actionString.substring(start, i), start, actionString);
      }
      matchAction.matched(action);
      if (i == length) {
        // done
        break L0;
      }
      while (Character.isWhitespace(c)) {
        i++;
        if (i == length) {
          // done
          break L0;
        }
        c = actionString.charAt(i);
      }
      if (c != ',') {
        throw permission.unexpectedActionCharacter(c, i, actionString);
      }
      i ++;
      continue L0;
    }
  }
  // not reachable
```

```java
        }
    }

    /**
     * Get the canonical action string representation for the given action set.
     *
     * @param set the action set
     * @param <E> the action type
     * @return the canonical representation
     */
    public static <E extends Enum<E>> String getCanonicalActionString(EnumSet<E> set) {
        if (set == null || set.isEmpty()) return "";
        final StringBuilder b = new StringBuilder();
        getCanonicalActionString(set, b);
        return b.toString();
    }

    /**
     * Get the canonical action string representation for the given action set, appending it to the given string builder.
     *
     * @param set the action set
     * @param b the string builder
     * @param <E> the action type
     */
    public static <E extends Enum<E>> void getCanonicalActionString(EnumSet<E> set, StringBuilder b) {
        if (set == null || set.isEmpty()) return;
        final Iterator<E> iterator = set.iterator();
        if (iterator.hasNext()) {
            E e = iterator.next();
            b.append(e.toString());
            while (iterator.hasNext()) {
                e = iterator.next();
                b.append(',');
                b.append(e.toString());
            }
        }
    }

    /**
     * Get the canonical action string representation for the given action set.
     *
     * @param type the action {@code enum} type class
     * @param set the action set
     * @param <E> the action type
     * @return the canonical representation
     */
    public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, int set) {
        if (set == 0) return "";
```

```java
        final StringBuilder b = new StringBuilder();
        getCanonicalActionString(type, set, b);
        return b.toString();
    }

    /**
     * Get the canonical action string representation for the given action set, appending it to the given string builder.
     *
     * @param type the action {@code enum} type class
     * @param set the action set
     * @param b the string builder
     * @param <E> the action type
     */
    public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, int set, StringBuilder b) {
        if (set == 0) return;
        @SuppressWarnings("unchecked")
        final E[] constants = (E[]) storedInfo.get(type).constants;
        int bit = Integer.lowestOneBit(set);
        E e = constants[Integer.numberOfTrailingZeros(bit)];
        b.append(e.toString());
        set &= ~bit;
        while (set != 0) {
            bit = Integer.lowestOneBit(set);
            e = constants[Integer.numberOfTrailingZeros(bit)];
            b.append(',').append(e.toString());
            set &= ~bit;
        }
    }

    /**
     * Get the canonical action string representation for the given action set.
     *
     * @param type the action {@code enum} type class
     * @param set the action set
     * @param <E> the action type
     * @return the canonical representation
     */
    public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, long set) {
        if (set == 0) return "";
        final StringBuilder b = new StringBuilder();
        getCanonicalActionString(type, set, b);
        return b.toString();
    }

    /**
     * Get the canonical action string representation for the given action set, appending it to the given string builder.
     *
     * @param type the action {@code enum} type class
```

```
   * @param set the action set
   * @param b the string builder
   * @param <E> the action type
   */
  public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, long set, StringBuilder b) {
    if (set == 0) return;
    @SuppressWarnings("unchecked")
    final E[] constants = (E[]) storedInfo.get(type).constants;
    long bit = Long.lowestOneBit(set);
    E e = constants[Long.numberOfTrailingZeros(bit)];
    b.append(e.toString());
    set &= ~bit;
    while (set != 0) {
      bit = Long.lowestOneBit(set);
      e = constants[Long.numberOfTrailingZeros(bit)];
      b.append(',').append(e.toString());
      set &= ~bit;
    }
  }
}
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 */

package org.wildfly.security.permission;

/**
 * An exception which is thrown when an invalid permission class is instantiated.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public class InvalidPermissionClassException extends IllegalArgumentException {
  private static final long serialVersionUID = 7910334218992625018L;
```

```
  /**
   * Constructs a new {@code InvalidPermissionClassException} instance.  The message is left blank ({@code
null}), and
   * no
   * cause is specified.
   */
  public InvalidPermissionClassException() {
  }

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance with an initial message.  No
   * cause is specified.
   *
   * @param msg the message
   */
  public InvalidPermissionClassException(final String msg) {
     super(msg);
  }

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance with an initial cause.  If
   * a non-{@code null} cause is specified, its message is used to initialize the message of this
   * {@code InvalidPermissionClassException}; otherwise the message is left blank ({@code null}).
   *
   * @param cause the cause
   */
  public InvalidPermissionClassException(final Throwable cause) {
     super(cause);
  }

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance with an initial message and cause.
   *
   * @param msg the message
   * @param cause the cause
   */
  public InvalidPermissionClassException(final String msg, final Throwable cause) {
     super(msg, cause);
  }
}
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```

```
package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicInteger;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class IntNameSetPermissionCollection extends NameSetPermissionCollection {

    private final AtomicInteger bitSet = new AtomicInteger();

    IntNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission, nameEnumeration);
    }

    private Permission permissionFor(int id) {
        return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        int setBits= getBitsForName(permission);
        final AtomicInteger bitSet = this.bitSet;
        int oldVal;
        do {
            oldVal = bitSet.get();
            if ((oldVal & setBits) == setBits) {
                return;
            }
        } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
    }

    public boolean implies(final Permission permission) {
        if (permission.getClass() != getSourcePermission().getClass()) {
            return false;
```

```java
        }
        long testBits = getBitsForName(permission);
        return (bitSet.get() & testBits) == testBits;
    }

    public int size() {
        final int size = Integer.bitCount(bitSet.get());
        return size == getNameEnumeration().size() ? 1 : size;
    }

    public EnumerationIterator<Permission> iterator() {
        return new Iter(bitSet.get());
    }

    public EnumerationIterator<Permission> elements() {
        return iterator();
    }

    private int getBitsForName(final Permission permission) {
        final int bits;
        final String name = permission.getName();
        final StringEnumeration nameEnumeration = getNameEnumeration();
        if ("*".equals(name)) {
            // add all names
            bits = (1 << nameEnumeration.size()) - 1;
        } else {
            bits = 1 << nameEnumeration.indexOf(name);
        }
        return bits;
    }

    private class Iter implements EnumerationIterator<Permission> {
        private int bits;

        Iter(final int bits) {
            this.bits = bits;
        }

        public boolean hasMoreElements() {
            return bits != 0;
        }

        public Permission nextElement() {
            final int bits = this.bits;
            if (bits == 0) throw new NoSuchElementException();
            if (Integer.bitCount(bits) == getNameEnumeration().size()) {
                this.bits = 0;
                return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
```

```
        }
        int bit = Integer.lowestOneBit(bits);
        this.bits = bits & ~bit;
        return permissionFor(Integer.numberOfTrailingZeros(bit));
    }

    public boolean hasNext() {
        return hasMoreElements();
    }

    public Permission next() {
        return nextElement();
    }
  }

}
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*/

package org.wildfly.security.permission;

/**
* A permission which has a name only, and no actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractNameOnlyPermission<This extends AbstractNameOnlyPermission<This>> extends
AbstractNamedPermission<This> {
   /**
    * Construct a new instance.
    *
    * @param name the permission name (must not be {@code null})
    */
```

```java
    protected AbstractNameOnlyPermission(final String name) {
        super(name);
    }

    public AbstractPermissionCollection newPermissionCollection() {
        return new ByNamePermissionCollection(this);
    }
}
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 */

package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.security._private.ElytronMessages;

/**
 * An abstract base class for any permission.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
public abstract class AbstractPermission<This extends AbstractPermission<This>> extends Permission implements
PermissionVerifier {
    /**
     * Construct a new instance.
     *
     * @param name the permission name
     */
    protected AbstractPermission(final String name) {
        super(name);
    }
```

```
/**
 * Determine whether this permission implies another permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean implies(Permission permission) {
    return permission != null && getClass() == permission.getClass() && implies((This) permission);
}

/**
 * Determine whether this permission implies another permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean implies(This permission);

/**
 * Determine whether this permission object is equal to another object.
 *
 * @param obj the object to compare to
 * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean equals(final Object obj) {
    return obj != null && obj.getClass() == getClass() && equals((This) obj);
}

/**
 * Determine whether this permission object is equal to another object of this permission type.
 *
 * @param other the permission to compare to
 * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
 */
public abstract boolean equals(This other);

/**
 * Get the hash code of this permission.  The result must be consistent with the defined {@link
#equals(AbstractPermission)}
 * result.
 *
 * @return the hash code of this permission
 */
public abstract int hashCode();

/**
```

```
   * Get the actions string.  The default implementation always returns an empty string.
   *
   * @return the actions string (not {@code null})
   */
  public String getActions() {
     return "";
  }

  /**
   * Get an empty permission collection which is capable of holding instances of this permission type.
   * <p>
   * The default implementation returns a {@link SimplePermissionCollection}.
   *
   * @return the permission collection to use
   */
  public AbstractPermissionCollection newPermissionCollection() {
     return new SimplePermissionCollection(this);
  }

  /**
   * Check to ensure that the given action string is empty or {@code null}; otherwise, throw an exception.
   *
   * @param actions the actions string
   * @throws IllegalArgumentException if the actions string is not empty
   */
  protected static void requireEmptyActions(final String actions) throws IllegalArgumentException {
     if (actions != null && ! actions.isEmpty()) {
        throw ElytronMessages.log.expectedEmptyActions(actions);
     }
  }

  final Object writeReplace() {
     return new SerializedPermission(getClass(), getName(), getActions());
  }
}
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```

```
package org.wildfly.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class IntersectionPermissionCollection extends PermissionCollection implements PermissionVerifier {
    private static final long serialVersionUID = 8045087406778847303L;

    private final PermissionCollection pc1;
    private final PermissionCollection pc2;

    IntersectionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
        this.pc1 = pc1;
        this.pc2 = pc2;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
    }

    public boolean implies(final Permission permission) {
        return pc1.implies(permission) && pc2.implies(permission);
    }

    public Enumeration<Permission> elements() {
        // TODO: this is theoretically possible to implement using an IntersectionCollectionPermission;
        // however the primary use case is going to be in protection domains and verification scenarios so we may
        // not ever actually need this
        throw Assert.unsupported();
    }
}
```

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 */

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringMapping;

/**
 * Stub class for the unlikely event that a serialized instance is lying around somewhere.
 *
 * @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
 */
@Deprecated
final class ElytronPermissionCollection extends PermissionCollection implements Serializable {

    private static final long serialVersionUID = 1L;

    private final int p1;

    ElytronPermissionCollection(final int p1) {
        this.p1 = p1;
    }

    public void add(final Permission permission) {
        throw Assert.unsupported();
    }

    public boolean implies(final Permission permission) {
        throw Assert.unsupported();
    }

    public Enumeration<Permission> elements() {
        throw Assert.unsupported();
    }
```

```
Object readResolve() {
    final AbstractPermissionCollection collection = new ElytronPermission("*").newPermissionCollection();
    final StringMapping<ElytronPermission> mapping = ElytronPermission.mapping;
    int bits = p1;
    int test;
    while (bits != 0) {
        collection.add(mapping.getItemById(Integer.numberOfTrailingZeros(test = Integer.lowestOneBit(bits))));
        bits &= ~test;
    }
    if (isReadOnly()) {
        collection.setReadOnly();
    }
    return collection;
  }
}
```

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2.765 wildfly-feature-pack 13.0.0.Final

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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Creative Commons Legal Code</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
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<link rel="stylesheet" type="text/css" href="//creativecommons.org/includes/deed3.css" media="screen" />
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media="screen" /><![endif]-->
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</script>
</head>
<body>
<p align="center" id="header"><a href="//creativecommons.org/">Creative Commons</a></p>
<div id="deed" class="green">
```

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<div id="deed-head">
<div id="cc-logo">
<img src="//creativecommons.org/images/deed/cc-logo.jpg" alt="" />
</div>
<h1><span>Creative Commons Legal Code</span></h1>
<div id="deed-license">
<h2>CC0 1.0 Universal</h2>
</div>
</div>
<div id="deed-main">
<div id="deed-main-content">
<img src="//creativecommons.org/images/international/unported.png" alt="" />
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ANTLR 1989-2006 Developed by Terence Parr
Partially supported by University of San Francisco & jGuru.com

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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN" "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:dc="http://purl.org/dc/terms/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:spdx="http://spdx.org/rdf/terms#">

 <head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />

  <title>GNU Lesser General Public License v3.0 or later | Software Package Data Exchange (SPDX)</title>

  <link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />
  <link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/style.css" />
  <link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/colors.css" />
  <link href="//netdna.bootstrapcdn.com/font-awesome/4.0.3/css/font-awesome.css" rel="stylesheet" />
  <!-- GOOGLE FONTS -->
  <link
href='//fonts.googleapis.com/css?family=Roboto:400,400italic,300,300italic,100italic,100,500,500italic,700,700italic,900,900italic' rel='stylesheet' type='text/css' />
```

```css
<style type="text/css">

.page {
  color: #58595b;
}

#header {
  border-bottom: 3px solid #4597cb;
  padding-bottom: 50px;
}

.breadcrumb {
  margin-top: 25px;
}

#content-header h1 {
  color: #58595b;
}

.page h2, h3, h4, h5 {
  color: #4597cb;
}

.page h1 {
font-size: 2em;
}

.page h2 {
font-size: 1.5em;
}

.page p {
  color: #58595b;
}

.page th {
  color: #58595b;
}

a, a:visited, a:hover {
  color: #4597cb;
}

#footer-copyright {
  margin-top: 25px;
}
```

```
.replacable-license-text {
color: #CC0000;
}

.replacable-license-text p var {
color: #CC0000;
}

.optional-license-text {
color: #0000cc;
}

.optional-license-text p var {
color: #0000cc;
}
ul, ol, li {
margin: 10px 0 10px 0;
}
</style>

<script type="text/javascript">

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-3676394-2']);
_gaq.push(['_trackPageview']);

(function() {
  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();

</script>

</head>

<body typeof="spdx:License">

<div id="lf-header" class="collaborative-projects">
  <div class="gray-diagonal">
    <div class="container">
      <a id="collaborative-projects-logo" href="http://collabprojects.linuxfoundation.org">Linux Foundation
Collaborative Projects</a>
    </div>
  </div>
</div>

<div id="header">
```

```html
<div id="header-inner">
  <a href="/" title="Home" rel="home" id="logo">
    <img src="https://spdx.linuxfound.info/sites/cpstandard/files/logo_spdx_250.png" alt="Home" />
  </a>

  <div id="name-and-slogan">
    <div id="site-name">
      <h1><a href="/" title="Home" rel="home">Software Package Data Exchange (SPDX)</a></h1>
    </div>
  </div>

</div>
</div> <!-- /header -->

<div id="highlighted">
  <div class="region region-highlighted">
  </div>
</div>

<div id="page" class="page">

<div class="breadcrumb"><a href="/">Home</a>  <a href="/licenses">Licenses</a></div>

<h1 property="dc:title">GNU Lesser General Public License v3.0 or later</h1>
<h1 style="color:red">Deprecated</h1>
<div style="color:red">This license has been deprecated since 2.0rc2.</div>
<div style="display:none;"><code property="spdx:deprecated">true</code></div>
<h2>Full name</h2>
   <p style="margin-left: 20px;"><code property="spdx:name">GNU Lesser General Public License v3.0 or later</code></p>

<h2>Short identifier</h2>
   <p style="margin-left: 20px;"><code property="spdx:licenseId">LGPL-3.0+</code></p>

<h2>Other web pages for this license</h2>
   <div style="margin-left: 20px;">
    <ul>
     <li><a href="http://www.gnu.org/licenses/lgpl-3.0-standalone.html" rel="rdfs:seeAlso">http://www.gnu.org/licenses/lgpl-3.0-standalone.html</a></li>
       <li><a href="http://www.opensource.org/licenses/LGPL-3.0" rel="rdfs:seeAlso">http://www.opensource.org/licenses/LGPL-3.0</a></li>
    </ul>
   </div>

<div property="spdx:isOsiApproved" style="display: none;">true</div>

<h2 id="notes">Notes</h2>
   <p style="margin-left: 20px;">DEPRECATED: Use the license identifier LGPL-3.0-or-later</p>
```

<h2 id="licenseText">Text</h2>

<div property="spdx:licenseText" class="license-text">

<div class="optional-license-text">
  <p>GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007
  </p>

</div>
  <p>Copyright (C) 2007 Free Software Foundation, Inc. <http<var class="optional-license-text">s</var>://fsf.org/></p>

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<ul style="list-style:none">

<var class="replacable-license-text">0.</var>
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<ul style="list-style:none">

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        License, and the "GNU GPL" refers to version 3 of the GNU General Public
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       <p>An "Application" is any work that makes use of an interface provided by the Library,
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        Library is deemed a mode of using an interface provided by the Library.</p>

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 <p>The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.</p>

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<ul style="list-style:none">

<var class="replacable-license-text">a)</var>
        under this License, provided that you make a good faith effort to ensure that, in the event
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         performs whatever part of its purpose remains meaningful, or

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<ul style="list-style:none">

<var class="replacable-license-text">a)</var>
Give prominent notice with each copy of the object code that the Library is used in it and
that the Library and its use are covered by this License.

<var class="replacable-license-text">b)</var>
Accompany the object code with a copy of the GNU GPL and this license document.

<var class="replacable-license-text">4.</var>
Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively
do not restrict modification of the portions of the Library contained in the Combined
Work and reverse engineering for debugging such modifications, if you also do each of
the following:

<ul style="list-style:none">

<var class="replacable-license-text">a)</var>
Give prominent notice with each copy of the Combined Work that the Library is used in it and
that the Library and its use are covered by this License.

```
        </li>
<li>

<var class="replacable-license-text">b)</var>
        Accompany the Combined Work with a copy of the GNU GPL and this license document.
        </li>
<li>

<var class="replacable-license-text">c)</var>
        For a Combined Work that displays copyright notices during execution, include the copyright
            notice for the Library among these notices, as well as a reference directing the user to
            the copies of the GNU GPL and this license document.
        </li>
<li>

<var class="replacable-license-text">d)</var>
        Do one of the following:

<ul style="list-style:none">
<li>

<var class="replacable-license-text">0)</var>
            Convey the Minimal Corresponding Source under the terms of this License, and the
                Corresponding Application Code in a form suitable for, and under terms that permit,
                the user to recombine or relink the Application with a modified version of the Linked
                Version to produce a modified Combined Work, in the manner specified by section 6 of
                the GNU GPL for conveying Corresponding Source.
            </li>
<li>

<var class="replacable-license-text">1)</var>
            Use a suitable shared library mechanism for linking with the Library. A suitable
                mechanism is one that (a) uses at run time a copy of the Library already present on
                the user's computer system, and (b) will operate properly with a modified version
                of the Library that is interface-compatible with the Linked Version.
            </li>
</ul>
        </li>
<li>

<var class="replacable-license-text">e)</var>
        Provide Installation Information, but only if you would otherwise be required to provide such
            information under section 6 of the GNU GPL, and only to the extent that such information
            is necessary to install and execute a modified version of the Combined Work produced by
            recombining or relinking the Application with a modified version of the Linked Version.
            (If you use option 4d0, the Installation Information must accompany the Minimal
            Corresponding Source and Corresponding Application Code. If you use option 4d1, you must
            provide the Installation Information in the manner specified by section 6 of the GNU GPL
```

for conveying Corresponding Source.)

<var class="replacable-license-text">5.</var>
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is permanent authorization for you to choose that version for the Library.
    </p>

    </div>

    <h2 id="licenseHeader">Standard License Header</h2>
    <div property="spdx:standardLicenseHeader" class="license-text">
     <p style="font-style: italic">There is no standard license header for the license</p>

    </div>
    <div property="spdx:standardLicenseTemplate" style="display: none;">
    <<beginOptional>> GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June
2007<<endOptional>>
Copyright (C) 2007 Free Software Foundation, Inc. <http<<beginOptional>>
s<<endOptional>> ://fsf.org/>
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This version of the GNU Lesser General Public License incorporates
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the Combined Work was made is also called the "Linked Version".

     The "Minimal
Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding
any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and
not on the Linked Version.

     The "Corresponding Application Code" for a Combined Work means
the object code and/or source code for the Application, including any data and utility programs needed for
reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined
Work.
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section 3 of the GNU GPL.
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invoked), then you may convey a copy of the modified version:

<<var;name="bullet";original="a)";match=".{0,20}">> under this License, provided that you make a good faith
effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and
performs whatever part of its purpose remains meaningful, or

<<var;name="bullet";original="b)";match=".{0,20}">> under the GNU GPL, with none of the additional
permissions of this License applicable to that copy.
   <<var;name="bullet";original="3.";match=".{0,20}">>
Object Code Incorporating Material from Library Header Files.
   The object code form of an Application may
incorporate material from a header file that is part of the Library. You may convey such object code under terms of
your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts

and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:
    <<var;name="bullet";original="a)";match=".{0,20}">> Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
 <<var;name="bullet";original="b)";match=".{0,20}">> Accompany the object code with a copy of the GNU GPL and this license document.
  <<var;name="bullet";original="4.";match=".{0,20}">> Combined Works.
 You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

<<var;name="bullet";original="a)";match=".{0,20}">> Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.
 <<var;name="bullet";original="b)";match=".{0,20}">> Accompany the Combined Work with a copy of the GNU GPL and this license document.
    <<var;name="bullet";original="c)";match=".{0,20}">> For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.
 <<var;name="bullet";original="d)";match=".{0,20}">> Do one of the following:
 <<var;name="bullet";original="0)";match=".{0,20}">> Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
    <<var;name="bullet";original="1)";match=".{0,20}">> Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.
    <<var;name="bullet";original="e)";match=".{0,20}">> Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)
 <<var;name="bullet";original="5.";match=".{0,20}">> Combined Libraries.
  You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:
    <<var;name="bullet";original="a)";match=".{0,20}">> Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
    <<var;name="bullet";original="b)";match=".{0,20}">> Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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  If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that

version for the Library.
    </div>

  </div> <!-- /page -->

  <div class="collaborative-projects">
   <div class="gray-diagonal">
    <div class="container">
     <div id="footer-copyright">
      <p>(c) 2016   SPDX Workgroup a Linux Foundation Collaborative Project. All Rights Reserved.
</p>
      <p>Linux Foundation is a registered trademark of The Linux Foundation. Linux is a registered <a
href="http://www.linuxfoundation.org/programs/legal/trademark" title="Linux Mark Institute">trademark of
Linus Torvalds.</p>
      <p>Please see our privacy policy and <a
href="http://www.linuxfoundation.org/terms">terms of use.</p>
     </div>
    </div>
   </div>
  </div>

  <div id="top-page-link">
   <i class="fa fa-arrow-circle-up"></i>top of page
  </div>

 </body>
</html>
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN" "http://www.w3.org/MarkUp/DTD/xhtml-
rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:dc="http://purl.org/dc/terms/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:spdx="http://spdx.org/rdf/terms#">

 <head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />

  <title>BSD 3-Clause No Nuclear License | Software Package Data Exchange (SPDX)</title>

  <link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />
  <link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/style.css" />
  <link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/colors.css" />
  <link href="//netdna.bootstrapcdn.com/font-awesome/4.0.3/css/font-awesome.css" rel="stylesheet" />

```html
<!-- GOOGLE FONTS -->
<link
href='//fonts.googleapis.com/css?family=Roboto:400,400italic,300,300italic,100italic,100,500,500italic,700,700italic,900,900italic' rel='stylesheet' type='text/css' />

<style type="text/css">

#page {
  color: #58595b;
}

#header {
  border-bottom: 3px solid #4597cb;
  padding-bottom: 50px;
}

.breadcrumb {
  margin-top: 25px;
}

#content-header h1 {
  color: #58595b;
}

#page h2, h3, h4, h5 {
  color: #4597cb;
}

#page h1 {
font-size: 2em;
}

#page h2 {
font-size: 1.5em;
}

#page p {
  color: #58595b;
}

#page th {
  color: #58595b;
}

a, a:visited, a:hover {
  color: #4597cb;
}
```

```
#footer-copyright {
  margin-top: 25px;
}
.replacable-license-text {
color: #CC0000;
}

.optional-license-text {
color: #0000cc;
}

</style>

<script type="text/javascript">

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-3676394-2']);
_gaq.push(['_trackPageview']);

(function() {
  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();

</script>

</head>

<body typeof="spdx:License">

<div id="lf-header" class="collaborative-projects">
  <div class="gray-diagonal">
    <div class="container">
      <a id="collaborative-projects-logo" href="http://collabprojects.linuxfoundation.org">Linux Foundation
Collaborative Projects</a>
    </div>
  </div>
</div>

<div id="header">
  <div id="header-inner">
    <a href="/" title="Home" rel="home" id="logo">
      <img src="https://spdx.linuxfound.info/sites/cpstandard/files/logo_spdx_250.png" alt="Home" />
    </a>

    <div id="name-and-slogan">
      <div id="site-name">
```

```
        <h1><a href="/" title="Home" rel="home">Software Package Data Exchange (SPDX)</a></h1>
      </div>
    </div>

  </div>
</div> <!-- /header -->

<div id="highlighted">
  <div class="region region-highlighted">
  </div>
</div>

  <div id="page" class="page">

    <div class="breadcrumb"><a href="/">Home</a> <a href="/licenses">Licenses</a></div>

    <h1 property="dc:title">BSD 3-Clause No Nuclear License</h1>
    <div style="display:none;"><code property="spdx:deprecated">false</code></div>
    <h2>Full name</h2>
      <p style="margin-left: 20px;"><code property="spdx:name">BSD 3-Clause No Nuclear License</code></p>

    <h2>Short identifier</h2>
      <p style="margin-left: 20px;"><code property="spdx:licenseId">BSD-3-Clause-No-Nuclear-
License</code></p>

    <h2>Other web pages for this license</h2>
      <div style="margin-left: 20px;">
       <ul>
        <li><a href="http://download.oracle.com/otn-
pub/java/licenses/bsd.txt?AuthParam=1467140197_43d516ce1776bd08a58235a7785be1cc"
rel="rdfs:seeAlso">http://download.oracle.com/otn-
pub/java/licenses/bsd.txt?AuthParam=1467140197_43d516ce1776bd08a58235a7785be1cc</a></li>
       </ul>
      </div>

    <div property="spdx:isOsiApproved" style="display: none;">false</div>

    <h2 id="notes">Notes</h2>
      <p style="margin-left: 20px;">This license has an older Sun copyright notice and is the same license as BSD-
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opposed to a disclaimer for such use.</p>

    <h2 id="licenseText">Text</h2>

    <div property="spdx:licenseText" class="license-text">

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```

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    </div>

    <h2 id="licenseHeader">Standard License Header</h2>
    <div property="spdx:standardLicenseHeader" class="license-text">
     <p style="font-style: italic">There is no standard license header for the license</p>

    </div>

  </div> <!-- /page -->

  <div class="collaborative-projects">
   <div class="gray-diagonal">
    <div class="container">
     <div id="footer-copyright">
      <p>(c) 2016   SPDX Workgroup a Linux Foundation Collaborative Project. All Rights Reserved.
</p>
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      <p>Please see our privacy policy and terms of use.</p>
     </div>
     </div>

```
      </div>
    </div>

  <div id="top-page-link">
    <a href="#"><i class="fa fa-arrow-circle-up"></i><span>top of page</span></a>
  </div>

 </body>
</html>
```

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Version 2.1, February 1999

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in new free programs; and that you know you can do these things.

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anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

 For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards

changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

 Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

  GNU LIBRARY GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's

complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

 You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

  d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

  (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

  a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any

attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
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 9. You are not required to accept this License, since you have not
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You are not responsible for enforcing compliance by third parties to
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing

to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Library General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
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conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

    NO WARRANTY

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WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Library General Public
    License as published by the Free Software Foundation; either
    version 2 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Library General Public License for more details.

    You should have received a copy of the GNU Library General Public
    License along with this library; if not, write to the Free
    Software Foundation, Inc., 59 Temple Place - Suite 330, Boston,
    MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

```
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<link rel="shortcut icon" href="/favicon.ico" />
<link rel="search" type="application/opensearchdescription+xml" href="/w/opensearch_desc.php"
title="FedoraProject (en)" />
<link rel="EditURI" type="application/rsd+xml" href="https://fedoraproject.org/w/api.php?action=rsd" />
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href="/w/index.php?title=Special:RecentChanges&feed=atom" /> <title>Licensing/Plexus Classworlds License -
FedoraProject</title>
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decoration:none}a.new,#quickbar a.new{color:#ba0000}

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/*]]>*/</style>
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  <link rel="stylesheet" type="text/css" media="handheld" href="/w/skins/fedora/handheld.css?273" />
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  <!--[if IE 6]><style type="text/css">@import "/w/skins/fedora/IE60Fixes.css?273";</style><![endif]-->
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mw.config.set({"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"wgPageName":"Licensing/Plexus_Classworlds_License","wgTitle":"Licensing/Plexus Classworlds License","wgCurRevisionId":101686,"wgArticleId":26521,"wgIsArticle":true,"wgAction":"view","wgUserName":null,"wgUserGroups":["*"],"wgCategories":[],"wgBreakFrames":false,"wgPageContentLanguage":"en","wgSeparatorTransformTable":["",""],"wgDigitTransformTable":["",""],"wgRelevantPageName":"Licensing/Plexus_Classworlds_License","wgRestrictionEdit":[],"wgRestrictionMove":[]});

}</script>
 <!-- Head Scripts -->
<script
src="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=startup&only=scripts&skin=fedora&*"
></script>
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/* cache key: fpo-mediawiki-en_:resourceloader:filter:minify-js:7:2e839801c875f3062717112bdc5ea3e0 */
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<div id="p-personal">
<h5>Personal tools</h5>
<ul>
<li id="pt-login"><a
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encouraged to log in; however, it is not mandatory [o]" accesskey="o" >Log in</a></li>
</ul>
</div>

<!-- Top actions bar -->
<div id="p-cactions">
<h5>Views</h5>
<ul>
<li id="ca-nstab-main" class="selected"><a href="/wiki/Licensing/Plexus_Classworlds_License" title="View the
content page [c]" accesskey="c" >Page</a></li>
<li id="ca-talk" class="new"><a
href="/w/index.php?title=Talk:Licensing/Plexus_Classworlds_License&action=edit&redlink=1" title="Discussion
about the content page [t]" accesskey="t" >Discussion</a></li>
<li id="ca-viewsource"><a href="/w/index.php?title=Licensing/Plexus_Classworlds_License&action=edit"
title="This page is protected.
You can view its source [e]" accesskey="e" >View source</a></li>
<li id="ca-history"><a href="/w/index.php?title=Licensing/Plexus_Classworlds_License&action=history"
title="Past revisions of this page [h]" accesskey="h" >History</a></li>
</ul>
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<li id="n-mainpage"><a href="/wiki/Fedora_Project_Wiki" title="Visit the main page [z]" accesskey="z" >Fedora
Project Wiki</a></li>
<li id="n-News"><a href="/wiki/FWN" >News</a></li>
<li id="n-Events"><a href="/wiki/FedoraEvents" >Events</a></li>
<li id="n-Features"><a href="/wiki/Features" >Features</a></li>
<li id="n-recentchanges"><a href="/wiki/Special:RecentChanges" title="A list of recent changes in the wiki [r]"
accesskey="r" >Recent changes</a></li>
<li id="n-randompage"><a href="/wiki/Special:Random" title="Load a random page [x]" accesskey="x" >Random
page</a></li>
<li id="n-Help"><a href="/wiki/Help" title="The place to find out" >Help</a></li>
</ul>
</div>
<div id='p-navigation'>
<h2>Navigation</h2>
```

```
 <ul>
  <li id="n-Home"><a href="http://fedoraproject.org/" >Home</a></li>
  <li id="n-Get-Fedora"><a href="http://get.fedoraproject.org/" >Get Fedora</a></li>
  <li id="n-Join-Fedora"><a href="http://join.fedoraproject.org/" >Join Fedora</a></li>
  </ul>
 </div>
 <div id='p-sub-projects'>
 <h2>sub-projects</h2>
 <ul>
  <li id="n-Ambassadors"><a href="/wiki/Ambassadors" >Ambassadors</a></li>
  <li id="n-Community-Operations"><a href="/wiki/CommOps" >Community Operations</a></li>
  <li id="n-Design"><a href="/wiki/Design" >Design</a></li>
  <li id="n-Documentation"><a href="/wiki/DocsProject" >Documentation</a></li>
  <li id="n-EPEL"><a href="/wiki/EPEL" >EPEL</a></li>
  <li id="n-Infrastructure"><a href="/wiki/Infrastructure" >Infrastructure</a></li>
  <li id="n-Internationalization"><a href="/wiki/I18N" >Internationalization</a></li>
  <li id="n-Localization"><a href="/wiki/L10N" >Localization</a></li>
  <li id="n-Marketing"><a href="/wiki/Marketing" >Marketing</a></li>
  <li id="n-Magazine"><a href="/wiki/FWN" >Magazine</a></li>
  <li id="n-Package-Maintainers"><a href="/wiki/PackageMaintainers" >Package Maintainers</a></li>
  <li id="n-Quality-Assurance"><a href="/wiki/QA" >Quality Assurance</a></li>
  <li id="n-Websites"><a href="/wiki/Websites" >Websites</a></li>
  <li id="n-All-projects"><a href="/wiki/Projects" >All projects</a></li>
  </ul>
 </div>
 <div id="p-search">
 <h2><label for="searchInput">Search</label></h2>
  <form action="/wiki/Special:Search" id="searchform"><div>
  <input id="searchInput" name="search" type="text" title="Search FedoraProject [f]" accesskey="f"  value="" /><br
/>
  <input type='submit' name="go" class="searchButton" id="searchGoButton" value="Go" /> 
  <input type='submit' name="fulltext" class="searchButton" id="mw-searchButton" value="Search" />
  </div></form>
 </div>
 <div id="p-tb">
 <h2>Tools</h2>
 <ul>
  <li id="t-whatlinkshere"><a href="/wiki/Special:WhatLinksHere/Licensing/Plexus_Classworlds_License" title="A
list of all wiki pages that link here [j]" accesskey="j" >What links here</a></li>
  <li id="t-recentchangeslinked"><a
href="/wiki/Special:RecentChangesLinked/Licensing/Plexus_Classworlds_License" title="Recent changes in pages
linked from this page [k]" accesskey="k" >Related changes</a></li>
 <li id="t-specialpages"><a href="/wiki/Special:SpecialPages" title="A list of all special pages [q]" accesskey="q"
>Special pages</a></li>
  <li id="t-print"><a
href="/w/index.php?title=Licensing/Plexus_Classworlds_License&printable=yes"title="Printable version of this
page [p]" accesskey="p" >Printable version</a></li>    <li id="t-permalink"><a
href="/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686"title="Permanent link to this
```

revision of the page" >Permanent link
 </div>
</div>
</div><!-- end of the left (by default at least) column -->

 <div id="content">
  <div id="siteNotice"><div id="localNotice" lang="en" dir="ltr"></div></div> <h2>Licensing/Plexus Classworlds
License</h2>
   <h3 id="siteSub">From FedoraProject</h3>
   <div id="contentSub">< <a href="/wiki/Licensing"
title="Licensing">Licensing</div>
      <div id="jump-to-nav">Jump to: navigation, <a
href="#searchInput">search</div> <!-- start content -->
   <div id="mw-content-text" lang="en" dir="ltr" class="mw-content-ltr"><h2> <span class="mw-headline"
id="Fedora_Notes"> Fedora Notes </h2>
<p>This is an Apache 1.1 derived license. Unfortunately, clause 4 is too broad, making it Free but GPL-
incompatible.
</p>
<h2> License Text </h2>
<pre>
/*
$Id: LICENSE.txt 3117 2006-04-07 15:49:12Z jvanzyl $

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*/
</pre>

<!--
NewPP limit report
Preprocessor node count: 9/1000000
Postexpand include size: 0/2097152 bytes
Template argument size: 0/2097152 bytes
Expensive parser function count: 0/100
-->

<!-- Saved in parser cache with key fpo-mediawiki-en_:pcache:idhash:26521-0!*!*!!*!*!* and timestamp
20170914231553 -->
</div><div class="printfooter">
Retrieved from "<a
href="https://fedoraproject.org/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686">https://f
edoraproject.org/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686"</div>
   <div id="catlinks"><div id='catlinks' class='catlinks catlinks-allhidden'></div></div>   <!-- end content -->
 </div>

<!-- Top login, etc. bar -->
<!-- #p-personal moved to inside #content so the text color says the same -->
 <script type="text/javascript"> if (window.isMSIE55) fixalpha(); </script>
</div>
  <div id="bottom">
  <div id="footer">
   <div id="f-poweredbyico"><img
src="/w/skins/common/images/poweredby_mediawiki_88x31.png" height="31" width="88" alt="Powered by
MediaWiki" /></div>
   <p class="copy">
   Copyright © 2017 Red Hat, Inc. and others. For comments or queries, <a
href="/wiki/Communicating_and_getting_help">please contact us.

```
            </p>
            <p class="disclaimer">
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            Red Hat, Inc. or its subsidiaries in the United States and other countries.<br />
            Linux&reg; is the registered trademark of Linus Torvalds in the U.S. and other countries.<br />
            The Fedora Project is maintained and driven by the community and sponsored by Red Hat. This is a community
            maintained site. Red Hat is not responsible for content.
            </p>
        <ul>
        <li class="first" id="lastmod"> This page was last modified on 14 May 2009, at 19:22.</li>
        <li id="copyright">Content is available under <a href="/wiki/Legal:Main" title="Legal:Main">Attribution-Share
Alike 3.0 Unported</a> unless otherwise noted.</li>
        </ul>
        <ul>
        <li class="first" id="privacy"><a href="/wiki/FedoraProject:Privacy_policy" title="FedoraProject:Privacy
policy">Privacy policy</a></li>
        <li id="about"><a href="/wiki/FedoraProject:About" title="FedoraProject:About">About FedoraProject</a></li>
        <li id="disclaimer"><a href="/wiki/FedoraProject:General_disclaimer" title="FedoraProject:General
disclaimer">Disclaimers</a></li>
            <li><a href="http://fedoraproject.org/en/sponsors">Sponsors</a></li>
            <li><a href="http://fedoraproject.org/wiki/Legal:Main">Legal</a></li>
            <li><a href="http://fedoraproject.org/wiki/Legal:Trademark_guidelines">Trademark Guidelines</a></li>
        </ul>
    </div>
    </div>

 <script>if(window.mw){
mw.loader.load(["mediawiki.user","mediawiki.page.ready"], null, true);
}</script>
<script
src="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=site&only=scripts&skin=fedora&*"></
script>

 <!-- <script src="https://apps.fedoraproject.org/fedmenu/js/jquery-1.11.2.min.js"></script> -->
 <script src="https://apps.fedoraproject.org/fedmenu/js/fedora-libravatar.js"></script>
 <script src="https://apps.fedoraproject.org/fedmenu/js/fedmenu.js"></script>
 <script>
  fedmenu({
    'url': 'https://apps.fedoraproject.org/js/data.js',
    'mimeType': 'application/javascript',
    'position': 'bottom-right',
        });
 </script>

<!-- Served in 0.440 secs. --></body></html>
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/568" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/BSD-3-Clause" />
<meta name="MobileOptimized" content="width" />
<title>The 3-Clause BSD License | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_lPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />


<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ovik2y" media="all" />
<![endif]-->


<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
  <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_V1ZuwJK9uzfm6fFffOcHHubfxnimoxnbgG58pvTQdpY.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
```

```
$(window).scroll(function() {
 if($(this).scrollTop() != 0) {
  $("#toTop").fadeIn();
 } else {
  $("#toTop").fadeOut();
 }
});


 $("#toTop").click(function() {
  $("body,html").animate({scrollTop:0},800);
 });


});
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFlN3f2BnQwnusF-
eI6tkX8wrKAk2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"RTPZ5j_JjXkzUsl
Xoha-0PZHuMxuJqVW-YTVUGpyd9k","js":{"\/\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol
lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
business\/css\/ie8.css":1}},"urlIsAjaxTrusted":{"\/licenses\/BSD-3-
Clause":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast
\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_wi
dth"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"ti
tle":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidt
h":1}}}}});
//--><!]]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-568 node-type-page" >
 <div id="skip-link">
```

```
          <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
  </div>
    <div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>




  <!-- #header-top -->
  <div id="header-top" class="clearfix">
    <div class="container">

        <!-- #header-top-inside -->
        <div id="header-top-inside" class="clearfix">
          <div class="row">


                <div class="col-md-8">
            <!-- #header-top-left -->
            <div id="header-top-left" class="clearfix">
                <div class="region region-header-top-left">
    <div id="block-menu-secondary-menu" class="block block-menu clearfix">



  <div class="content">
    <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul>  </div>
</div>
  </div>
            </div>
            <!-- EOF:#header-top-left -->
          </div>


                <div class="col-md-4">
            <!-- #header-top-right -->
            <div id="header-top-right" class="clearfix">
                <div class="region region-header-top-right">
    <div id="block-search-form" class="block block-search clearfix">



  <div class="content">
    <form action="/licenses/BSD-3-Clause" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
      <h2 class="element-invisible">Search form</h2>
    <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
```

```
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
60qz0NT1ILjLHdyR92OnuBPjsCJ16vQNtQwwtC1vu-c" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
 </div>
        </div>
        <!-- EOF:#header-top-right -->
      </div>


        </div>
      </div>
      <!-- EOF: #header-top-inside -->


   </div>
</div>
<!-- EOF: #header-top -->


<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">


    <!-- #header-inside -->
    <div id="header-inside" class="clearfix">
      <div class="row">
        <div class="col-md-8">


              <div id="logo">
        <a href="/" title="Home" rel="home"> <img
src="https://opensource.org/files/osi_keyhole_300X300_90ppi_0.png" alt="Home" /> </a>
        </div>


              <div id="site-name">
        <a href="/" title="Home">Open Source Initiative</a>
        </div>



        </div>


        <div class="col-md-4">



        </div>
      </div>
```

```
        </div>
        <!-- EOF: #header-inside -->


    </div>
</header>
<!-- EOF: #header -->


<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
  <div class="container">


      <!-- #main-navigation-inside -->
      <div id="main-navigation-inside" class="clearfix">
        <div class="row">
          <div class="col-md-12">
            <nav role="navigation">
                        <div class="region region-navigation">
  <div id="block-superfish-1" class="block block-superfish clearfix">


 <div class="content">
   <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-
3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-
children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of
Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a
href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-
depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-
3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a
href="/conflict_of_interest_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-
1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2
menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li
id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines"
title="OSI&#039;s Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1"
class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for
appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1"
class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/ToS" title="Rules for posting content on this site"
class="sf-depth-2">Terms of Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-
```

1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent">Licenses
<li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Open Source Definition
<li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">OSD - Annotated
<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category
<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name
<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process
<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation
<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board
<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards
<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement
<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance
<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale
<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions
<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership
<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals
<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join
<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates
<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate
<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates
<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria
<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support
<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community
<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists
<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct
<li id="menu-1072-1" class="middle

even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct
<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums
<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives
<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers
<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki
<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store
<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources
<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ
<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog
<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help
<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography
<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business
<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups
<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education
<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events
<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters
<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events </div>
  </div>
 </div>
                              </nav>
            </div>
          </div>
        </div>
        <!-- EOF: #main-navigation-inside -->

     </div>
  </div>
  <!-- EOF: #main-navigation -->

  <!-- #page -->
  <div id="page" class="clearfix">

    <!-- #main-content -->

```html
<div id="main-content">
    <div class="container">

        <!-- #messages-console -->
                <!-- EOF: #messages-console -->

        <div class="row">



            <section class="col-md-12">

                <!-- #main -->
                <div id="main" class="clearfix">



                    <!-- EOF:#content-wrapper -->
                    <div id="content-wrapper">


                                                <h1 class="page-title">The 3-Clause BSD License</h1>


                    <!-- #tabs -->
                                        <div class="tabs">
                                        </div>
                                    <!-- EOF: #tabs -->

                    <!-- #action links -->
                                        <!-- EOF: #action links -->

                    <div class="region region-content">
  <div id="block-system-main" class="block block-system clearfix">


 <div class="content">
  <article id="node-568" class="node node-page clearfix">



 <div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: BSD-3-Clause
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>3-clause BSD license</b></button>
```

```
<p id="demo"></p>

<script>
<!--//--><![CDATA[// ><!--

function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/bsd-3-clause-license-%28revised%29 style='font-weight: bold;'>The 3-clause
BSD license on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License
List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><!]]>
</script></div>


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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p>
 </div></div></div> </div>

</article> </div>
</div>
 </div>

            </div>
            <!-- EOF:#content-wrapper -->

        </div>
        <!-- EOF:#main -->

      </section>

      </div>

    </div>
  </div>
  <!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

```
<div class="region region-footer">
  <div id="block-block-11" class="block block-block clearfix">


 <div class="content">
   <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"><img src="/files/twitterlogo.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/google.png" width="50" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;" /></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"><img src="/files/linkedin.png" width="50" style="margin: 0pt auto;
display: table-cell; text-align: center; vertical-align: middle;" /></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"><img src="/files/xwikilogo.png" width="50" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;" /></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/ccby.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![]]>
</script></p>
</div>

<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
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href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="../ToS">Terms of Service</a>
</p>
</div>
 </div>
</div>
```

```
<div id="block-block-7" class="block block-block clearfix">


 <div class="content">
   <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--//--><![CDATA[// ><!--



//--><!]]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--



_uacct = "UA-3916956-1";
urchinTracker();



//--><!]]>
</script>  </div>
</div>
 </div>


              </div>
              <!-- EOF: #subfooter-left -->
            </div>
          </div>
        </div>
        <!-- EOF: #subfooter-inside -->


    </div>
</footer>
<!-- EOF:#subfooter -->
 </body>
</html>
<!DOCTYPE html>
<html>
<head>
 <meta charset="utf-8" />
 <meta name="generator" content="pandoc" />
 <title>Mozilla Public License, version 2.0</title>
 <!--[if lt IE 9]>
   <script src="/media/js/libs/html5shiv.d580a4cd1cb4.js"></script>
 <![endif]-->


   <link href="/media/css/mpl-2-0-bundle.e529fc4408b6.css" rel="stylesheet" type="text/css" />

</head>
<body>
<h1 id="mozilla-public-license-version-2.0">Mozilla Public License<br>Version 2.0</h1>
```

```html
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</dd>
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</ol>
</dd>
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</dd>
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</dd>
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</dd>
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</dd>
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<ol type="a">
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</ol>
```

</dd>

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</dd>

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</dd>

</dl>

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<h2>WildFly  - Feature Pack</h2>
<p>The following material has been provided for informational purposes only, and should not be relied upon or
construed as a legal opinion or legal advice.</p>
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table, th, td {
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th {
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}

th, td {
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tr:nth-child(even) {
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<style type="text/css">

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li {
margin-bottom:12px;
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height="79" vspace="14" border="0" /></div>
<p align="center">Attribution 2.5</p>
<div class="text">
<div class="fineprint" style="background:none;">
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        <url>http://www.apache.org/licenses/LICENSE-2.0</url>
        <distribution>repo</distribution>
      </license>
```

```
    </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.discovery</groupId>
   <artifactId>wildfly-discovery-client</artifactId>
   <version>1.1.1.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.transaction</groupId>
   <artifactId>wildfly-transaction-client</artifactId>
   <version>1.1.2.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.wildfly-http-client</groupId>
   <artifactId>wildfly-http-client-common</artifactId>
   <version>1.0.12.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
   </licenses>
  </dependency>
  <dependency>
   <groupId>org.wildfly.wildfly-http-client</groupId>
   <artifactId>wildfly-http-ejb-client</artifactId>
   <version>1.0.12.Final</version>
   <licenses>
    <license>
     <name>Apache License 2.0</name>
     <url>http://www.apache.org/licenses/LICENSE-2.0</url>
     <distribution>repo</distribution>
    </license>
```

```
      </licenses>
    </dependency>
    <dependency>
     <groupId>org.wildfly.wildfly-http-client</groupId>
     <artifactId>wildfly-http-naming-client</artifactId>
     <version>1.0.12.Final</version>
     <licenses>
      <license>
       <name>Apache License 2.0</name>
       <url>http://www.apache.org/licenses/LICENSE-2.0</url>
       <distribution>repo</distribution>
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     </licenses>
    </dependency>
    <dependency>
     <groupId>org.wildfly.wildfly-http-client</groupId>
     <artifactId>wildfly-http-transaction-client</artifactId>
     <version>1.0.12.Final</version>
     <licenses>
      <license>
       <name>Apache License 2.0</name>
       <url>http://www.apache.org/licenses/LICENSE-2.0</url>
       <distribution>repo</distribution>
      </license>
     </licenses>
    </dependency>
    <dependency>
     <groupId>org.yaml</groupId>
     <artifactId>snakeyaml</artifactId>
     <version>1.17</version>
     <licenses>
      <license>
       <name>Apache License 2.0</name>
       <url>http://www.apache.org/licenses/LICENSE-2.0</url>
       <distribution>repo</distribution>
      </license>
     </licenses>
    </dependency>
    <dependency>
     <groupId>wsdl4j</groupId>
     <artifactId>wsdl4j</artifactId>
     <version>1.6.3</version>
     <licenses>
      <license>
       <name>Common Public License 1.0</name>
       <url>http://www.eclipse.org/legal/cpl-v10.html</url>
       <distribution>repo</distribution>
      </license>
```

```
            </licenses>
         </dependency>
      </dependencies>
</licenseSummary>
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
           xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

   <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
   <xsl:param name="version"/>
   <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
   <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'" />

   <xsl:template match="/">
      <html>
         <head>
            <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
            <link rel="stylesheet" type="text/css" href="licenses.css"/>
         </head>
         <body>
            <h2>WildFly <xsl:value-of select="substring-before($version, '-')"/> - Feature Pack</h2>
            <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
            <!-- Read matching templates -->
            <table>
               <tr>
                  <th>Package Group</th>
                  <th>Package Artifact</th>
                  <th>Package Version</th>
                  <th>Remote Licenses</th>
                  <th>Local Licenses</th>
               </tr>
               <xsl:for-each select="licenseSummary/dependencies/dependency">
               <xsl:sort select="concat(groupId, '.', artifactId)"/>
               <tr>
                  <td><xsl:value-of select="groupId"/></td>
                  <td><xsl:value-of select="artifactId"/></td>
                  <td><xsl:value-of select="version"/></td>
                  <td>
                     <xsl:for-each select="licenses/license">
                        <xsl:choose>
                           <xsl:when test="name = 'Public Domain'">
                              <xsl:value-of select="name"/><br/>
                           </xsl:when>
                           <xsl:otherwise>
                              <a href="{./url}"><xsl:value-of select="name"/></a><br/>
                           </xsl:otherwise>
                        </xsl:choose>
```

```
                            </xsl:for-each>
                        </td>
                        <td>
                            <xsl:for-each select="licenses/license">
                                <xsl:variable name="filename">
                                    <xsl:call-template name="remap-local-filename">
                                        <xsl:with-param name="name" select="name" />
                                    </xsl:call-template>
                                </xsl:variable>
                                <a href="{$filename}"><xsl:value-of select="$filename"/></a><br/>
                            </xsl:for-each>
                        </td>
                    </tr>
                </xsl:for-each>
            </table>
        </body>
    </html>
</xsl:template>

<xsl:template name="remap-local-filename">
    <xsl:param name="name"/>
    <xsl:choose>
        <xsl:when test="$name = 'BSD 3-clause "New" or "Revised" License'">
            <xsl:text>bsd 3-clause new or revised license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'BSD 3-Clause No Nuclear License'">
            <xsl:text>bsd 3-clause no nuclear license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Creative Commons Attribution 2.5'">
            <xsl:text>creative commons attribution 2.5.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Creative Commons Zero v1.0 Universal'">
            <xsl:text>creative commons zero v1.0 universal.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'GNU Lesser General Public License v3.0 or later'">
            <xsl:text>gnu lesser general public license v3.0 or later.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Mozilla Public License 2.0'">
            <xsl:text>mozilla public license 2.0.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Plexus Classworlds License'">
            <xsl:text>plexus classworlds license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'The JSoup MIT License'">
            <xsl:text>the jsoup mit license.html</xsl:text>
        </xsl:when>
        <xsl:otherwise>
            <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
```

```
    </xsl:otherwise>
  </xsl:choose>
</xsl:template>
</xsl:stylesheet>
```

2.766 wildfly-galleon-pack 13.0.0.Final

2.766.1 Available under license :

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Creative Commons Legal Code</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<link rel="stylesheet" type="text/css" href="//creativecommons.org/includes/deed3.css" media="screen" />
<link rel="stylesheet" type="text/css" href="//creativecommons.org/includes/deed3-print.css" media="print" />
<!--[if lt IE 7]><link rel="stylesheet" type="text/css" href="https://creativecommons.org/includes/deed3-ie.css"
media="screen" /><![endif]-->
<script type="text/javascript" src="https://creativecommons.org/includes/errata.js">
</script>
</head>
<body>
<p align="center" id="header"><a href="//creativecommons.org/">Creative Commons</a></p>
<div id="deed" class="green">
<div id="deed-head">
<div id="cc-logo">
<img src="//creativecommons.org/images/deed/cc-logo.jpg" alt="" />
</div>
<h1><span>Creative Commons Legal Code</span></h1>
<div id="deed-license">
<h2>CC0 1.0 Universal</h2>
</div>
</div>
<div id="deed-main">
<div id="deed-main-content">
<img src="//creativecommons.org/images/international/unported.png" alt="" />
<div id="deed-disclaimer">
<div class="summary">
Official translations of this legal tool are available <a href="#languages">in other languages</a>.
</div>
</div>
<blockquote>
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</p>
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image or likeness depicted in a Work;
rights protecting against unfair competition in regards
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<blockquote>Additional languages available: <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.fr">franais, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.it">italiano, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.lv">latviski, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.nl">Nederlands, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.pl">polski, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.fi">suomeksi, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.sv">svenska, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.zh-Hans">, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.ja">, <a
href="//creativecommons.org/publicdomain/zero/1.0/legalcode.zh-Hant">. Please read the <a
href="//wiki.creativecommons.org/FAQ#officialtranslations">FAQ for more information about official
translations.</blockquote>

```
</div>
</div>
<div id="deed-foot">
<p id="footer"><a href="./"> Back to Commons Deed</a></p>
</div>
</div>
</body>
</html>
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/568" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/BSD-3-Clause" />
<meta name="MobileOptimized" content="width" />
 <title>The 3-Clause BSD License | Open Source Initiative</title>
 <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_lPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
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href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ovik2y" media="all" />
<![endif]-->


 <!-- HTML5 element support for IE6-8 -->
 <!--[if lt IE 9]>
   <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
 <![endif]-->
 <script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
```

```
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_V1ZuwJK9uzfm6fFffOcHHubfxnimoxnbgG58pvTQdpY.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
  if($(this).scrollTop() != 0) {
   $("#toTop").fadeIn();
  } else {
   $("#toTop").fadeOut();
  }
 });

 $("#toTop").click(function() {
  $("body,html").animate({scrollTop:0},800);
 });

 });
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFlN3f2BnQwnusF-
eI6tkX8wrKAk2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"RTPZ5j_JjXkzUsl
Xoha-0PZHuMxuJqVW-YTVUGpyd9k"},"js":{"\/\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
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lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
```

business\/css\/ie8.css":1}},"urlIsAjaxTrusted":{"\/licenses\/BSD-3-
Clause":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast
\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_wi
dth"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"ti
tle":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidt
h":1}}}}});
//--><!]]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-568 node-type-page" >
 <div id="skip-link">
  Skip to main content
 </div>
  <div id="toTop"></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

            <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
              <div class="region region-header-top-left">
  <div id="block-menu-secondary-menu" class="block block-menu clearfix">

 <div class="content">
  <ul class="menu"><li class="first leaf">Home
<li class="leaf">From the Board
<li class="leaf">Contact
<li class="last leaf">Donate
 </div>
</div>
 </div>
        </div>
        <!-- EOF:#header-top-left -->
      </div>

            <div class="col-md-4">
          <!-- #header-top-right -->
          <div id="header-top-right" class="clearfix">
              <div class="region region-header-top-right">

```
<div id="block-search-form" class="block block-search clearfix">


 <div class="content">
   <form action="/licenses/BSD-3-Clause" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
     <h2 class="element-invisible">Search form</h2>
   <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
60qz0NT1ILjLHdyR92OnuBPjsCJ16vQNtQwwtC1vu-c" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
 </div>
         </div>
         <!-- EOF:#header-top-right -->
       </div>


         </div>
       </div>
       <!-- EOF: #header-top-inside -->

   </div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">

     <!-- #header-inside -->
     <div id="header-inside" class="clearfix">
       <div class="row">
         <div class="col-md-8">

                 <div id="logo">
         <a href="/" title="Home" rel="home"> <img
src="https://opensource.org/files/osi_keyhole_300X300_90ppi_0.png" alt="Home" /> </a>
         </div>

                 <div id="site-name">
```

```
                <a href="/" title="Home">Open Source Initiative</a>
                </div>


                </div>

                <div class="col-md-4">


                </div>
              </div>
            </div>
            <!-- EOF: #header-inside -->


        </div>
    </header>
    <!-- EOF: #header -->


    <!-- #main-navigation -->
    <div id="main-navigation" class="clearfix">
      <div class="container">


        <!-- #main-navigation-inside -->
        <div id="main-navigation-inside" class="clearfix">
          <div class="row">
            <div class="col-md-12">
              <nav role="navigation">
                              <div class="region region-navigation">
      <div id="block-superfish-1" class="block block-superfish clearfix">


  <div class="content">
    <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-
3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-
children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of
Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a
href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-
```

depth-3 sf-no-children">Bylaws
<li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children">Conflict of Interest
<li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Trademark & Logo
<li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Trademark Guidelines
<li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Logo Guidelines
<li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children">Terms of Service
<li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent">Licenses
<li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Open Source Definition
<li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">OSD - Annotated
<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category
<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name
<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process
<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation
<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board
<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards
<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement
<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance
<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale
<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions
<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership
<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals
<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join
<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates
<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate
<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a

href="/affiliates/list" title="Full list of non-profits and not-for-profits affiliated to OSI" class="sf-depth-3">List of Affiliates
<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria
<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support
<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community
<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists
<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct
<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct
<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums
<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives
<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers
<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki
<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store
<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources
<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ
<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog
<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help
<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography
<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business
<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups
<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education
<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events
<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters
<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events </div>
</div>
 </div>
                              </nav>
            </div>
          </div>
        </div>
        <!-- EOF: #main-navigation-inside -->

```html
        </div>
    </div>
    <!-- EOF: #main-navigation -->


    <!-- #page -->
    <div id="page" class="clearfix">


        <!-- #main-content -->
        <div id="main-content">
            <div class="container">

                <!-- #messages-console -->
                        <!-- EOF: #messages-console -->

                <div class="row">


                    <section class="col-md-12">

                        <!-- #main -->
                        <div id="main" class="clearfix">



                            <!-- EOF:#content-wrapper -->
                            <div id="content-wrapper">


                                                    <h1 class="page-title">The 3-Clause BSD License</h1>



                                <!-- #tabs -->
                                        <div class="tabs">
                                        </div>
                                    <!-- EOF: #tabs -->


                                <!-- #action links -->
                                        <!-- EOF: #action links -->


                                    <div class="region region-content">
            <div id="block-system-main" class="block block-system clearfix">


        <div class="content">
            <article id="node-568" class="node node-page clearfix">
```

```
 <div class="content">
   <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: BSD-3-Clause
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>3-clause BSD license</b></button>

<p id="demo"></p>

<script>
<!--//--><![CDATA[// ><!--

function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/bsd-3-clause-license-%28revised%29 style='font-weight: bold;'>The 3-clause
BSD license on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License
List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><!]]>
</script></div>


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the <a href="https://opensource.org/licenses/BSD-2-Clause">2-clause BSD License</a>.</em></p>


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```

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 </div></div></div> </div>

</article> </div>
</div>
 </div>

                </div>
                <!-- EOF:#content-wrapper -->

            </div>
            <!-- EOF:#main -->

         </section>

      </div>

    </div>
  </div>
  <!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

```
<footer id="subfooter" class="clearfix">
  <div class="container">


    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">



                    <div class="region region-footer">
  <div id="block-block-11" class="block block-block clearfix">



 <div class="content">
   <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"><img src="/files/twitterlogo.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/google.png" width="50" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;" /></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"><img src="/files/linkedin.png" width="50" style="margin: 0pt auto;
display: table-cell; text-align: center; vertical-align: middle;" /></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"><img src="/files/xwikilogo.png" width="50" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;" /></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/ccby.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![]]>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="../ToS">Terms of Service</a>
</p>
</div>
 </div>
</div>
<div id="block-block-7" class="block block-block clearfix">


 <div class="content">
   <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--//--><![CDATA[// ><!--


//--><!]]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();


//--><!]]>
</script>  </div>
</div>
 </div>


            </div>
             <!-- EOF: #subfooter-left -->
          </div>
        </div>
     </div>
     <!-- EOF: #subfooter-inside -->

   </div>
</footer>
<!-- EOF:#subfooter -->
 </body>
</html>
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
         xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

   <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
```

```
<xsl:param name="version"/>
<xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
<xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'" />


<xsl:template match="/">
  <html>
    <head>
      <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
      <link rel="stylesheet" type="text/css" href="licenses.css"/>
    </head>
    <body>
      <h2>WildFly <xsl:value-of select="substring-before($version, '-')"/> - Feature Pack</h2>
      <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
      <!-- Read matching templates -->
      <table>
        <tr>
          <th>Package Group</th>
          <th>Package Artifact</th>
          <th>Package Version</th>
          <th>Remote Licenses</th>
          <th>Local Licenses</th>
        </tr>
        <xsl:for-each select="licenseSummary/dependencies/dependency">
          <xsl:sort select="concat(groupId, '.', artifactId)"/>
          <tr>
            <td><xsl:value-of select="groupId"/></td>
            <td><xsl:value-of select="artifactId"/></td>
            <td><xsl:value-of select="version"/></td>
            <td>
              <xsl:for-each select="licenses/license">
                <xsl:choose>
                  <xsl:when test="name = 'Public Domain'">
                    <xsl:value-of select="name"/><br/>
                  </xsl:when>
                  <xsl:otherwise>
                    <a href="{./url}"><xsl:value-of select="name"/></a><br/>
                  </xsl:otherwise>
                </xsl:choose>
              </xsl:for-each>
            </td>
            <td>
              <xsl:for-each select="licenses/license">
                <xsl:variable name="filename">
                  <xsl:call-template name="remap-local-filename">
                    <xsl:with-param name="name" select="name" />
                  </xsl:call-template>
                </xsl:variable>
```

```
                    <a href="{$filename}"><xsl:value-of select="$filename"/></a><br/>
                </xsl:for-each>
            </td>
        </tr>
    </xsl:for-each>
</table>
</body>
</html>
</xsl:template>


<xsl:template name="remap-local-filename">
    <xsl:param name="name"/>
    <xsl:choose>
        <xsl:when test="$name = 'BSD 3-clause "New" or "Revised" License'">
            <xsl:text>bsd 3-clause new or revised license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'BSD 3-Clause No Nuclear License'">
            <xsl:text>bsd 3-clause no nuclear license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Creative Commons Attribution 2.5'">
            <xsl:text>creative commons attribution 2.5.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Creative Commons Zero v1.0 Universal'">
            <xsl:text>creative commons zero v1.0 universal.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'GNU Lesser General Public License v3.0 or later'">
            <xsl:text>gnu lesser general public license v3.0 or later.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Mozilla Public License 2.0'">
            <xsl:text>mozilla public license 2.0.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'Plexus Classworlds License'">
            <xsl:text>plexus classworlds license.html</xsl:text>
        </xsl:when>
        <xsl:when test="$name = 'The JSoup MIT License'">
            <xsl:text>the jsoup mit license.html</xsl:text>
        </xsl:when>
        <xsl:otherwise>
            <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
        </xsl:otherwise>
    </xsl:choose>
</xsl:template>
</xsl:stylesheet>
```

MOZILLA PUBLIC LICENSE

Version 1.1

----

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<?xml version="1.0" encoding="utf-8"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN" "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">

<html xmlns="http://www.w3.org/1999/xhtml"

   xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

   xmlns:owl="http://www.w3.org/2002/07/owl#"

   xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"

   xmlns:dc="http://purl.org/dc/terms/"

   xmlns:xsd="http://www.w3.org/2001/XMLSchema"

   xmlns:spdx="http://spdx.org/rdf/terms#">

 <head>

  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />

  <title>BSD 3-Clause No Nuclear License | Software Package Data Exchange (SPDX)</title>

```html
<link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />
<link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/style.css" />
<link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/colors.css" />
<link href="//netdna.bootstrapcdn.com/font-awesome/4.0.3/css/font-awesome.css" rel="stylesheet" />
<!-- GOOGLE FONTS -->
<link
href='//fonts.googleapis.com/css?family=Roboto:400,400italic,300,300italic,100italic,100,500,500italic,700,700italic,900,900italic' rel='stylesheet' type='text/css' />

<style type="text/css">

#page {
  color: #58595b;
}

#header {
  border-bottom: 3px solid #4597cb;
  padding-bottom: 50px;
}

.breadcrumb {
  margin-top: 25px;
}

#content-header h1 {
  color: #58595b;
}

#page h2, h3, h4, h5 {
  color: #4597cb;
}

#page h1 {
font-size: 2em;
}

#page h2 {
font-size: 1.5em;
}

#page p {
  color: #58595b;
}

#page th {
  color: #58595b;
}
```

```css
    a, a:visited, a:hover {
      color: #4597cb;
    }

    #footer-copyright {
      margin-top: 25px;
    }
    .replacable-license-text {
    color: #CC0000;
    }

    .optional-license-text {
    color: #0000cc;
    }

  </style>
```

```html
<script type="text/javascript">

 var _gaq = _gaq || [];
 _gaq.push(['_setAccount', 'UA-3676394-2']);
 _gaq.push(['_trackPageview']);

 (function() {
   var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
   ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
   var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
 })();

</script>

</head>

<body typeof="spdx:License">

<div id="lf-header" class="collaborative-projects">
  <div class="gray-diagonal">
    <div class="container">
      <a id="collaborative-projects-logo" href="http://collabprojects.linuxfoundation.org">Linux Foundation
Collaborative Projects</a>
    </div>
  </div>
</div>

<div id="header">
  <div id="header-inner">
    <a href="/" title="Home" rel="home" id="logo">
```

```
      <img src="https://spdx.linuxfound.info/sites/cpstandard/files/logo_spdx_250.png" alt="Home" />
    </a>

    <div id="name-and-slogan">
      <div id="site-name">
        <h1><a href="/" title="Home" rel="home">Software Package Data Exchange (SPDX)</a></h1>
      </div>
    </div>

  </div>
</div> <!-- /header -->

<div id="highlighted">
  <div class="region region-highlighted">
  </div>
</div>

  <div id="page" class="page">

  <div class="breadcrumb"><a href="/">Home</a>  <a href="/licenses">Licenses</a></div>

  <h1 property="dc:title">BSD 3-Clause No Nuclear License</h1>
  <div style="display:none;"><code property="spdx:deprecated">false</code></div>
  <h2>Full name</h2>
    <p style="margin-left: 20px;"><code property="spdx:name">BSD 3-Clause No Nuclear License</code></p>

  <h2>Short identifier</h2>
    <p style="margin-left: 20px;"><code property="spdx:licenseId">BSD-3-Clause-No-Nuclear-
License</code></p>

  <h2>Other web pages for this license</h2>
    <div style="margin-left: 20px;">
     <ul>
       <li><a href="http://download.oracle.com/otn-
pub/java/licenses/bsd.txt?AuthParam=1467140197_43d516ce1776bd08a58235a7785be1cc"
rel="rdfs:seeAlso">http://download.oracle.com/otn-
pub/java/licenses/bsd.txt?AuthParam=1467140197_43d516ce1776bd08a58235a7785be1cc</a></li>
     </ul>
    </div>

  <div property="spdx:isOsiApproved" style="display: none;">false</div>

  <h2 id="notes">Notes</h2>
    <p style="margin-left: 20px;">This license has an older Sun copyright notice and is the same license as BSD-
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opposed to a disclaimer for such use.</p>

  <h2 id="licenseText">Text</h2>
```

```
    <div property="spdx:licenseText" class="license-text">
```


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```
    </div>

    <h2  id="licenseHeader">Standard License Header</h2>
    <div property="spdx:standardLicenseHeader" class="license-text">
     <p style="font-style: italic">There is no standard license header for the license</p>

    </div>

  </div> <!-- /page -->

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   <div class="gray-diagonal">
    <div class="container">
     <div id="footer-copyright">
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</p>
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href="http://www.linuxfoundation.org/programs/legal/trademark" title="Linux Mark Institute">trademark</a> of
```

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　　　　<p>Please see our privacy policy and terms of use.</p>
　　　</div>
　　　</div>
　　</div>
　</div>

　<div id="top-page-link">
　　<i class="fa fa-arrow-circle-up"></i>top of page
　</div>

　</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "DTD/xhtml1-transitional.dtd">
<html>
<head>
<title>Creative Commons Legal Code</title>
<link rel="stylesheet" type="text/css" href="/includes/deeds.css" />
<style type="text/css">

li {
margin-bottom:12px;
}

</style>
</head>
<body>
<p align="center">Creative Commons</p>
<div id="deed">
<div align="center"></div>
<p align="center">Attribution 2.5</p>
<div class="text">
<div class="fineprint" style="background:none;">
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```
<!doctype html>
<html>
<head>
 <title>jsoup License</title>
 <meta name="keywords" content="license, open source, mit">
 <meta name="description" content="jsoup is licensed under the MIT open source license">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link type="text/css" rel="stylesheet" href="/rez/style.css">
 <script>
 (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
 (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
 m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
 })(window,document,'script','//www.google-analytics.com/analytics.js','ga');

 ga('create', 'UA-89734-10', 'auto');
 ga('send', 'pageview');

 </script>
</head>
```

```html
<body class="n1-">
 <div class="wrap">
  <div class="header">
   <div class="nav-sections">
    <ul>
     <li class="n1-home"><h4><a href="/">jsoup</a></h4></li>
     <li class="n1-news"><a href="/news/">News</a></li>
     <li class="n1-bugs"><a href="/bugs">Bugs</a></li>
     <li class="n1-discussion"><a href="/discussion">Discussion</a></li>
     <li class="n1-download"><a href="/download">Download</a></li>
     <li class="n1-api"><a href="/apidocs/">API Reference</a></li>
     <li class="n1-cookbook"><a href="/cookbook/">Cookbook</a></li>
     <li class="n1-try"><a href="//try.jsoup.org/">Try jsoup</a></li>
    </ul>
   </div>
  </div>
  <div class="breadcrumb">
   <a href="/">jsoup</a>
   <span class="seperator">&raquo;</span> jsoup License
  </div>
  <div class="content">
   <div class="col1">
    <h1>jsoup License</h1>
    <p>The jsoup code-base (include source and compiled packages) are distributed under the open source MIT
license as described below.</p>
    <h3>The MIT License</h3>
    <p>Copyright &copy; 2009 - 2016 <a href="http://jonathanhedley.com">Jonathan Hedley</a> (<a
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COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>
   </div>
   <!-- /col1 -->
   <div class="col2">
   </div>
   <!-- /col2 -->
  </div>
  <!-- /content-->
  <div class="footer">
```

```
   <b>jsoup HTML parser</b> &copy; 2009 - 2016
   <a href="//jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
  </div>
 </div>
 <!-- /wrap -->
 <script src="/rez/prettify.js"></script>
 <script>prettyPrint();</script>
</body>
</html>
table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
}

th {
  text-align: left;
  background-color: #BCC6CC;


}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}
```

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```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN" "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:dc="http://purl.org/dc/terms/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:spdx="http://spdx.org/rdf/terms#">

 <head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />

  <title>GNU Lesser General Public License v3.0 or later | Software Package Data Exchange (SPDX)</title>
```

```
<link rel="shortcut icon" href="sites/all/themes/cpstandard/favicon.ico" type="image/vnd.microsoft.icon" />
<link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/style.css" />
<link type="text/css" rel="stylesheet" media="all" href="sites/all/themes/cpstandard/css/colors.css" />
<link href="//netdna.bootstrapcdn.com/font-awesome/4.0.3/css/font-awesome.css" rel="stylesheet" />
<!-- GOOGLE FONTS -->
<link
href='//fonts.googleapis.com/css?family=Roboto:400,400italic,300,300italic,100italic,100,500,500italic,700,700itali
c,900,900italic' rel='stylesheet' type='text/css' />

<style type="text/css">

.page {
 color: #58595b;
}

#header {
 border-bottom: 3px solid #4597cb;
 padding-bottom: 50px;
}

.breadcrumb {
 margin-top: 25px;
}

#content-header h1 {
 color: #58595b;
}

.page h2, h3, h4, h5 {
 color: #4597cb;
}

.page h1 {
font-size: 2em;
}

.page h2 {
font-size: 1.5em;
}

.page p {
 color: #58595b;
}

.page th {
 color: #58595b;
}
```

```
a, a:visited, a:hover {
  color: #4597cb;
}

#footer-copyright {
  margin-top: 25px;
}

.replacable-license-text {
color: #CC0000;
}

.replacable-license-text p var {
color: #CC0000;
}

.optional-license-text {
color: #0000cc;
}

.optional-license-text p var {
color: #0000cc;
}
ul, ol, li {
margin: 10px 0 10px 0;
}
</style>

<script type="text/javascript">

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-3676394-2']);
_gaq.push(['_trackPageview']);

(function() {
  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();

</script>

</head>

<body typeof="spdx:License">

<div id="lf-header" class="collaborative-projects">
  <div class="gray-diagonal">
```

```html
<div class="container">
  <a id="collaborative-projects-logo" href="http://collabprojects.linuxfoundation.org">Linux Foundation Collaborative Projects</a>
</div>
</div>
</div>

<div id="header">
  <div id="header-inner">
    <a href="/" title="Home" rel="home" id="logo">
      <img src="https://spdx.linuxfound.info/sites/cpstandard/files/logo_spdx_250.png" alt="Home" />
    </a>

    <div id="name-and-slogan">
      <div id="site-name">
        <h1><a href="/" title="Home" rel="home">Software Package Data Exchange (SPDX)</a></h1>
      </div>
    </div>

  </div>
</div> <!-- /header -->

<div id="highlighted">
  <div class="region region-highlighted">
  </div>
</div>

  <div id="page" class="page">

  <div class="breadcrumb"><a href="/">Home</a>  <a href="/licenses">Licenses</a></div>

  <h1 property="dc:title">GNU Lesser General Public License v3.0 or later</h1>
  <h1 style="color:red">Deprecated</h1>
  <div style="color:red">This license has been deprecated since 2.0rc2.</div>
  <div style="display:none;"><code property="spdx:deprecated">true</code></div>
  <h2>Full name</h2>
    <p style="margin-left: 20px;"><code property="spdx:name">GNU Lesser General Public License v3.0 or later</code></p>

  <h2>Short identifier</h2>
    <p style="margin-left: 20px;"><code property="spdx:licenseId">LGPL-3.0+</code></p>

  <h2>Other web pages for this license</h2>
    <div style="margin-left: 20px;">
      <ul>
       <li><a href="http://www.gnu.org/licenses/lgpl-3.0-standalone.html"
rel="rdfs:seeAlso">http://www.gnu.org/licenses/lgpl-3.0-standalone.html</a></li>
        <li><a href="http://www.opensource.org/licenses/LGPL-3.0"
```

rel="rdfs:seeAlso">http://www.opensource.org/licenses/LGPL-3.0

      </div>

   <div property="spdx:isOsiApproved" style="display: none;">true</div>

   <h2 id="notes">Notes</h2>
      <p style="margin-left: 20px;">DEPRECATED: Use the license identifier LGPL-3.0-or-later</p>

   <h2 id="licenseText">Text</h2>

   <div property="spdx:licenseText" class="license-text">

   <div class="optional-license-text">
    <p>GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007
   </p>

   </div>
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text">s</var>://fsf.org/></p>

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<ul style="list-style:none">

<var class="replacable-license-text">0.</var>
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         Application or a Combined Work as defined below.</p>


```
<li>
        <p>An "Application" is any work that makes use of an interface provided by the Library,
        but which is not otherwise based on the Library. Defining a subclass of a class defined by the
        Library is deemed a mode of using an interface provided by the Library.</p>

    </li>
<li>
        <p>A "Combined Work" is a work produced by combining or linking an Application with the
        Library. The particular version of the Library with which the Combined Work was made is also
        called the "Linked Version".</p>

    </li>
<li>
        <p>The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source
        for the Combined Work, excluding any source code for portions of the Combined Work that,
        considered in isolation, are based on the Application, and not on the Linked Version.</p>

    </li>
<li>
        <p>The "Corresponding Application Code" for a Combined Work means the object code and/or
        source code for the Application, including any data and utility programs needed for
        reproducing the Combined Work from the Application, but excluding the System Libraries of the
        Combined Work.</p>

    </li>
</ul>
    </li>
<li>

<var class="replacable-license-text">1.</var>
     Exception to Section 3 of the GNU GPL.
        <br />
 You may convey a covered work under sections 3 and 4 of this License without being bound by
        section 3 of the GNU GPL.
    </li>
<li>

<var class="replacable-license-text">2.</var>
     Conveying Modified Versions.
        <br />
 If you modify a copy of the Library, and, in your modifications, a facility refers to a
        function or data to be supplied by an Application that uses the facility (other than
        as an argument passed when the facility is invoked), then you may convey a copy of the
        modified version:


<ul style="list-style:none">
<li>
```

<var class="replacable-license-text">a)</var>
under this License, provided that you make a good faith effort to ensure that, in the event
an Application does not supply the function or data, the facility still operates, and
performs whatever part of its purpose remains meaningful, or

<var class="replacable-license-text">b)</var>
under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

<var class="replacable-license-text">3.</var>
Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is
part of the Library. You may convey such object code under terms of your choice,
provided that, if the incorporated material is not limited to numerical parameters,
data structure layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

<ul style="list-style:none">

<var class="replacable-license-text">a)</var>
Give prominent notice with each copy of the object code that the Library is used in it and
that the Library and its use are covered by this License.

<var class="replacable-license-text">b)</var>
Accompany the object code with a copy of the GNU GPL and this license document.

<var class="replacable-license-text">4.</var>
Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively
do not restrict modification of the portions of the Library contained in the Combined
Work and reverse engineering for debugging such modifications, if you also do each of
the following:

```
<ul style="list-style:none">
<li>

<var class="replacable-license-text">a)</var>
        Give prominent notice with each copy of the Combined Work that the Library is used in it and
            that the Library and its use are covered by this License.
        </li>
<li>

<var class="replacable-license-text">b)</var>
        Accompany the Combined Work with a copy of the GNU GPL and this license document.
        </li>
<li>

<var class="replacable-license-text">c)</var>
        For a Combined Work that displays copyright notices during execution, include the copyright
            notice for the Library among these notices, as well as a reference directing the user to
            the copies of the GNU GPL and this license document.
        </li>
<li>

<var class="replacable-license-text">d)</var>
        Do one of the following:

<ul style="list-style:none">
<li>

<var class="replacable-license-text">0)</var>
            Convey the Minimal Corresponding Source under the terms of this License, and the
                Corresponding Application Code in a form suitable for, and under terms that permit,
                the user to recombine or relink the Application with a modified version of the Linked
                Version to produce a modified Combined Work, in the manner specified by section 6 of
                the GNU GPL for conveying Corresponding Source.
            </li>
<li>

<var class="replacable-license-text">1)</var>
            Use a suitable shared library mechanism for linking with the Library. A suitable
                mechanism is one that (a) uses at run time a copy of the Library already present on
                the user's computer system, and (b) will operate properly with a modified version
                of the Library that is interface-compatible with the Linked Version.
            </li>
</ul>
        </li>
<li>
```

<var class="replacable-license-text">e)</var>
Provide Installation Information, but only if you would otherwise be required to provide such
information under section 6 of the GNU GPL, and only to the extent that such information
is necessary to install and execute a modified version of the Combined Work produced by
recombining or relinking the Application with a modified version of the Linked Version.
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Corresponding Source and Corresponding Application Code. If you use option 4d1, you must
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for conveying Corresponding Source.)

<var class="replacable-license-text">5.</var>
Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a
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<ul style="list-style:none">

<var class="replacable-license-text">a)</var>
Accompany the combined library with a copy of the same work based on the Library, uncombined
with any other library facilities, conveyed under the terms of this License.

<var class="replacable-license-text">b)</var>
Give prominent notice with the combined library that part of it is a work based on the
Library, and explaining where to find the accompanying uncombined form of the same
work.

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    A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

    The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

    The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.
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  If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

<<var;name="bullet";original="a)";match=".{0,20}">> under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

<<var;name="bullet";original="b)";match=".{0,20}">> under the GNU GPL, with none of the additional permissions of this License applicable to that copy.
   <<var;name="bullet";original="3.";match=".{0,20}">> Object Code Incorporating Material from Library Header Files.
   The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:
     <<var;name="bullet";original="a)";match=".{0,20}">> Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

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 You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

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<<var;name="bullet";original="b)";match=".{0,20}">> Accompany the Combined Work with a copy of the GNU GPL and this license document.
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<<var;name="bullet";original="d)";match=".{0,20}">> Do one of the following:

<<var;name="bullet";original="0)";match=".{0,20}">> Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

<<var;name="bullet";original="1)";match=".{0,20}">> Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.
     <<var;name="bullet";original="e)";match=".{0,20}">> Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

<<var;name="bullet";original="5.";match=".{0,20}">> Combined Libraries.
   You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:
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     <<var;name="bullet";original="b)";match=".{0,20}">> Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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 The licenses for most software are designed to take away your
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 To protect your rights, we need to make restrictions that forbid
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complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
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 Our method of protecting your rights has two steps: (1) copyright
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 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free

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we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

  Most GNU software, including some libraries, is covered by the ordinary
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license, the GNU Library General Public License, applies to certain
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one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

  The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

  Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

  However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

  The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

  Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
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In addition, mere aggregation of another work not based on the Library
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 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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  a) Accompany the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  c) If distribution of the work is made by offering access to copy
  from a designated place, offer equivalent access to copy the above
  specified materials from the same place.

  d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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  Appendix: How to Apply These Terms to Your New Libraries

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possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

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    Software Foundation, Inc., 59 Temple Place - Suite 330, Boston,
    MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en" dir="ltr">
 <head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  <meta name="generator" content="MediaWiki 1.19.24" />

```
<link rel="shortcut icon" href="/favicon.ico" />
<link rel="search" type="application/opensearchdescription+xml" href="/w/opensearch_desc.php"
title="FedoraProject (en)" />
<link rel="EditURI" type="application/rsd+xml" href="https://fedoraproject.org/w/api.php?action=rsd" />
<link rel="copyright" href="/wiki/Legal:Main" />
<link rel="alternate" type="application/atom+xml" title="FedoraProject Atom feed"
href="/w/index.php?title=Special:RecentChanges&feed=atom" /> <title>Licensing/Plexus Classworlds License -
FedoraProject</title>
  <link rel="stylesheet"
href="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=mediawiki.legacy.commonPrint%2Csh
ared&only=styles&skin=fedora&*" />
<meta name="ResourceLoaderDynamicStyles" content="" />
<link rel="stylesheet"
href="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=site&only=styles&skin=fedora&*" />
<style>a:lang(ar),a:lang(ckb),a:lang(fa),a:lang(kk-arab),a:lang(mzn),a:lang(ps),a:lang(ur){text-
decoration:none}a.new,#quickbar a.new{color:#ba0000}

/* cache key: fpo-mediawiki-en_:resourceloader:filter:minify-css:7:c88e2bcd56513749bec09a7e29cb3ffa */</style>

 <link rel="stylesheet" type="text/css" media="all" href="/static/css/fedora.css" />
 <link rel="stylesheet" type="text/css" media="print" href="/static/css/print.css" />

 <style type="text/css" media="screen,projection">/*<![CDATA[*/ @import "/w/skins/fedora/main.css?273";
/*]]>*/</style>
 <link rel="stylesheet" type="text/css" media="print" href="/w/skins/common/commonPrint.css?273" />
 <link rel="stylesheet" type="text/css" media="handheld" href="/w/skins/fedora/handheld.css?273" />
 <!--[if lt IE 5.5000]><style type="text/css">@import "/w/skins/fedora/IE50Fixes.css?273";</style><![endif]-->
 <!--[if IE 5.5000]><style type="text/css">@import "/w/skins/fedora/IE55Fixes.css?273";</style><![endif]-->
 <!--[if IE 6]><style type="text/css">@import "/w/skins/fedora/IE60Fixes.css?273";</style><![endif]-->
 <!--[if IE 7]><style type="text/css">@import "/w/skins/fedora/IE70Fixes.css?273";</style><![endif]-->
 <!--[if lt IE 7]><script type="text/javascript" src="/w/skins/common/IEFixes.js?273"></script>
 <meta http-equiv="imagetoolbar" content="no" /><![endif]-->

 <script>if(window.mw){
mw.config.set({"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"w
gPageName":"Licensing/Plexus_Classworlds_License","wgTitle":"Licensing/Plexus Classworlds
License","wgCurRevisionId":101686,"wgArticleId":26521,"wgIsArticle":true,"wgAction":"view","wgUserName":n
ull,"wgUserGroups":["*"],"wgCategories":[],"wgBreakFrames":false,"wgPageContentLanguage":"en","wgSeparato
rTransformTable":["",""],"wgDigitTransformTable":["",""],"wgRelevantPageName":"Licensing/Plexus_Classworld
s_License","wgRestrictionEdit":[],"wgRestrictionMove":[]});
}</script>
 <!-- Head Scripts -->
 <script
src="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=startup&only=scripts&skin=fedora&*"
></script>
 <script>if(window.mw){
mw.config.set({"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"w
gPageName":"Licensing/Plexus_Classworlds_License","wgTitle":"Licensing/Plexus Classworlds
```

License","wgCurRevisionId":101686,"wgArticleId":26521,"wgIsArticle":true,"wgAction":"view","wgUserName":null,"wgUserGroups":["*"],"wgCategories":[],"wgBreakFrames":false,"wgPageContentLanguage":"en","wgSeparatorTransformTable":["",""],"wgDigitTransformTable":["",""],"wgRelevantPageName":"Licensing/Plexus_Classworlds_License","wgRestrictionEdit":[],"wgRestrictionMove":[]});
}</script><script>if(window.mw){
mw.loader.implement("user.options",function($){mw.user.options.set({"ccmeonemails":0,"cols":80,"date":"default","diffonly":0,"disablemail":0,"disablesuggest":0,"editfont":"default","editondblclick":0,"editsection":1,"editsectiononrightclick":0,"enotifminoredits":0,"enotifrevealaddr":0,"enotifusertalkpages":1,"enotifwatchlistpages":0,"extendwatchlist":0,"externaldiff":0,"externaleditor":0,"fancysig":0,"forceeditsummary":0,"gender":"unknown","hideminor":0,"hidepatrolled":0,"highlightbroken":1,"imagesize":2,"justify":0,"math":1,"minordefault":0,"newpageshidepatrolled":0,"nocache":0,"noconvertlink":0,"norollbackdiff":0,"numberheadings":0,"previewonfirst":0,"previewontop":1,"quickbar":5,"rcdays":7,"rclimit":50,"rememberpassword":0,"rows":25,"searchlimit":20,"showhiddencats":0,"showjumplinks":1,"shownumberswatching":1,"showtoc":1,"showtoolbar":1,"skin":"fedora","stubthreshold":0,"thumbsize":2,"underline":2,"uselivepreview":0,"usenewrc":0,"watchcreations":0,"watchdefault":0,"watchdeletion":0,"watchlistdays":3,"watchlisthideanons":0,"watchlisthidebots":0,"watchlisthideliu":0,"watchlisthideminor":0,"watchlisthideown":0,"watchlisthidepatrolled":0,"watchmoves":0,"wllimit":250,"variant":"en","language":"en","searchNs0":true,"searchNs1":false,"searchNs2":false,"searchNs3":false,"searchNs4":true,"searchNs5":false,"searchNs6":true,"searchNs7":false,"searchNs8":false,"searchNs9":false,"searchNs10":false,"searchNs11":false,"searchNs12":true,"searchNs13":false,"searchNs14":true,"searchNs15":false,"searchNs100":false,"searchNs101":false,"searchNs102":false,"searchNs103":false,"searchNs104":false,"searchNs105":false,"searchNs106":true,"searchNs107":false,"searchNs108":true,"searchNs109":false,"searchNs110":true,"searchNs111":false,"searchNs112":true,"searchNs113":false,"searchNs114":true,"searchNs115":false,"searchNs116":true,"searchNs117":false});;},{},{});mw.loader.implement("user.tokens",function($){mw.user.tokens.set({"editToken":"+\\","watchToken":false});;},{},{});

/* cache key: fpo-mediawiki-en_:resourceloader:filter:minify-js:7:2e839801c875f3062717112bdc5ea3e0 */
}</script>
<script>if(window.mw){
mw.loader.load(["mediawiki.page.startup","mediawiki.legacy.wikibits","mediawiki.legacy.ajax"]);
}</script> <script type="text/javascript" src="/w/skins/common/wikibits.js?273"><!-- wikibits js --></script>
</head>
<body class="mediawiki ltr ns-0 ns-subject page-Licensing_Plexus_Classworlds_License">
<div id="wrapper">
    <div id="head">
    <h1>Fedora</h1>
<div id="p-personal">
 <h5>Personal tools</h5>

  <li id="pt-login"><a
href="/w/index.php?title=Special:UserLogin&returnto=Licensing%2FPlexus+Classworlds+License" title="You are
encouraged to log in; however, it is not mandatory [o]" accesskey="o" >Log in

 </div>

<!-- Top actions bar -->
 <div id="p-cactions">
 <h5>Views</h5>

    <li id="ca-nstab-main" class="selected"><a href="/wiki/Licensing/Plexus_Classworlds_License" title="View the

content page [c]" accesskey="c" >Page
    <li id="ca-talk" class="new"><a
href="/w/index.php?title=Talk:Licensing/Plexus_Classworlds_License&action=edit&redlink=1" title="Discussion
about the content page [t]" accesskey="t" >Discussion
    <li id="ca-viewsource"><a href="/w/index.php?title=Licensing/Plexus_Classworlds_License&action=edit"
title="This page is protected.
You can view its source [e]" accesskey="e" >View source
    <li id="ca-history"><a href="/w/index.php?title=Licensing/Plexus_Classworlds_License&action=history"
title="Past revisions of this page [h]" accesskey="h" >History

 </div>

    </div>
<div id="sidebar">
<div id="nav">
<!-- Sidebar -->
 <div id='p-wiki'>
 <h2>wiki</h2>

   <li id="n-mainpage">Fedora
Project Wiki
   <li id="n-News">News
   <li id="n-Events">Events
   <li id="n-Features">Features
   <li id="n-recentchanges"><a href="/wiki/Special:RecentChanges" title="A list of recent changes in the wiki [r]"
accesskey="r" >Recent changes
   <li id="n-randompage">Random
page
   <li id="n-Help">Help

 </div>
  <div id='p-navigation'>
  <h2>Navigation</h2>

   <li id="n-Home">Home
   <li id="n-Get-Fedora">Get Fedora
   <li id="n-Join-Fedora">Join Fedora

 </div>
  <div id='p-sub-projects'>
  <h2>sub-projects</h2>

   <li id="n-Ambassadors">Ambassadors
   <li id="n-Community-Operations">Community Operations
   <li id="n-Design">Design
   <li id="n-Documentation">Documentation
   <li id="n-EPEL">EPEL
   <li id="n-Infrastructure">Infrastructure

```
 <li id="n-Internationalization"><a href="/wiki/I18N" >Internationalization</a></li>
 <li id="n-Localization"><a href="/wiki/L10N" >Localization</a></li>
 <li id="n-Marketing"><a href="/wiki/Marketing" >Marketing</a></li>
 <li id="n-Magazine"><a href="/wiki/FWN" >Magazine</a></li>
 <li id="n-Package-Maintainers"><a href="/wiki/PackageMaintainers" >Package Maintainers</a></li>
 <li id="n-Quality-Assurance"><a href="/wiki/QA" >Quality Assurance</a></li>
 <li id="n-Websites"><a href="/wiki/Websites" >Websites</a></li>
 <li id="n-All-projects"><a href="/wiki/Projects" >All projects</a></li>
 </ul>
 </div>
 <div id="p-search">
 <h2><label for="searchInput">Search</label></h2>
 <form action="/wiki/Special:Search" id="searchform"><div>
 <input id="searchInput" name="search" type="text" title="Search FedoraProject [f]" accesskey="f"  value="" /><br
/>
 <input type='submit' name="go" class="searchButton" id="searchGoButton" value="Go" /> 
 <input type='submit' name="fulltext" class="searchButton" id="mw-searchButton" value="Search" />
 </div></form>
 </div>
 <div id="p-tb">
 <h2>Tools</h2>
 <ul>
 <li id="t-whatlinkshere"><a href="/wiki/Special:WhatLinksHere/Licensing/Plexus_Classworlds_License" title="A
list of all wiki pages that link here [j]" accesskey="j" >What links here</a></li>
 <li id="t-recentchangeslinked"><a
href="/wiki/Special:RecentChangesLinked/Licensing/Plexus_Classworlds_License" title="Recent changes in pages
linked from this page [k]" accesskey="k" >Related changes</a></li>
<li id="t-specialpages"><a href="/wiki/Special:SpecialPages" title="A list of all special pages [q]" accesskey="q"
>Special pages</a></li>
 <li id="t-print"><a
href="/w/index.php?title=Licensing/Plexus_Classworlds_License&printable=yes"title="Printable version of this
page [p]" accesskey="p" >Printable version</a></li>    <li id="t-permalink"><a
href="/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686"title="Permanent link to this
revision of the page" >Permanent link</a></li>    </ul>
 </div>
 </div>
 </div><!-- end of the left (by default at least) column -->

 <div id="content">
 <div id="siteNotice"><div id="localNotice" lang="en" dir="ltr"></div></div>  <h2>Licensing/Plexus Classworlds
License</h2>
 <h3 id="siteSub">From FedoraProject</h3>
 <div id="contentSub"><span class="subpages">< <a href="/wiki/Licensing"
title="Licensing">Licensing</a></span></div>
     <div id="jump-to-nav">Jump to: <a href="#column-one">navigation</a>, <a
href="#searchInput">search</a></div>  <!-- start content -->
 <div id="mw-content-text" lang="en" dir="ltr" class="mw-content-ltr"><h2> <span class="mw-headline"
id="Fedora_Notes"> Fedora Notes </span></h2>
```

<p>This is an Apache 1.1 derived license. Unfortunately, clause 4 is too broad, making it Free but GPL-incompatible.
</p>
<h2> License Text </h2>
<pre>
/*
$Id: LICENSE.txt 3117 2006-04-07 15:49:12Z jvanzyl $

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*/
</pre>

<!--
NewPP limit report
Preprocessor node count: 9/1000000
Postexpand include size: 0/2097152 bytes
Template argument size: 0/2097152 bytes
Expensive parser function count: 0/100
-->

<!-- Saved in parser cache with key fpo-mediawiki-en_:pcache:idhash:26521-0!*!*!!*!*!* and timestamp
20170914231553 -->
</div><div class="printfooter">
Retrieved from "<a
href="https://fedoraproject.org/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686">https://f
edoraproject.org/w/index.php?title=Licensing/Plexus_Classworlds_License&oldid=101686"</div>
  <div id="catlinks"><div id='catlinks' class='catlinks catlinks-allhidden'></div></div>   <!-- end content -->
 </div>

<!-- Top login, etc. bar -->
<!-- #p-personal moved to inside #content so the text color says the same -->
 <script type="text/javascript"> if (window.isMSIE55) fixalpha(); </script>
</div>
  <div id="bottom">
  <div id="footer">
  <div id="f-poweredbyico"><img
src="/w/skins/common/images/poweredby_mediawiki_88x31.png" height="31" width="88" alt="Powered by
MediaWiki" /></div>
  <p class="copy">
  Copyright © 2017 Red Hat, Inc. and others. For comments or queries, <a
href="/wiki/Communicating_and_getting_help">please contact us.
  </p>
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  maintained site. Red Hat is not responsible for content.
  </p>

  <li class="first" id="lastmod"> This page was last modified on 14 May 2009, at 19:22.
  <li id="copyright">Content is available under Attribution-Share
Alike 3.0 Unported unless otherwise noted.

  <li class="first" id="privacy"><a href="/wiki/FedoraProject:Privacy_policy" title="FedoraProject:Privacy

policy">Privacy policy
    <li id="about">About FedoraProject
    <li id="disclaimer">Disclaimers
      Sponsors
      Legal
      Trademark Guidelines

  </div>
  </div>

 <script>if(window.mw){
mw.loader.load(["mediawiki.user","mediawiki.page.ready"], null, true);
}</script>
<script
src="https://fedoraproject.org/w/load.php?debug=false&lang=en&modules=site&only=scripts&skin=fedora&*"></script>

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 <script src="https://apps.fedoraproject.org/fedmenu/js/fedora-libravatar.js"></script>
 <script src="https://apps.fedoraproject.org/fedmenu/js/fedmenu.js"></script>
 <script>
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    'position': 'bottom-right',
      });
 </script>

<!-- Served in 0.440 secs. --></body></html>
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License, supplemented by the additional permissions listed below.

 0. Additional Definitions.

 As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object

code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

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the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

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Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

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whether future versions of the GNU Lesser General Public License shall

apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

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      <url>https://spdx.org/licenses/LGPL-3.0+.html</url>
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   <artifactId>relaxngDatatype</artifactId>
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          <url>https://javaee.github.io/glassfish/LICENSE</url>
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<h2>WildFly 13 - Feature Pack - Addendum</h2>

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for

the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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Ty Coon, President of Vice
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ANTLR 1989-2006 Developed by Terence Parr
Partially supported by University of San Francisco & jGuru.com

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The primary ANTLR guy:

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parrt@cs.usfca.edu
parrt@antlr.org

```xml
<?xml version="1.0" ?>

<package-spec xmlns="urn:jboss:galleon:package:1.0" name="docs.licenses">
  <dependencies>
    <origin name="org.wildfly:wildfly-servlet-galleon-pack">
      <package name="docs.licenses"/>
    </origin>
    <origin name="org.wildfly.core:wildfly-core-galleon-pack">
      <package name="docs.licenses"/>
    </origin>
  </dependencies>
</package-spec>
```

```xml
<?xml version="1.0" ?>

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
  <copy-path src="docs/licenses/licenses.xsl" relative-to="content" target="docs/licenses/full-licenses.xsl"/>
  <transform stylesheet="docs/licenses/full-licenses.xsl" src="docs/licenses/full-feature-pack-licenses.xml"
output="docs/licenses/full-feature-pack-licenses.html"/>
  <delete path="docs/licenses/full-licenses.xsl"/>
</tasks>
```

```xml
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
        xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'" />

  <xsl:template match="/">
    <html>
      <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
```

```
</head>
<body>
    <h2>Red Hat JBoss Enterprise Application Platform <xsl:value-of select="substring-before($version, '-
')"/></h2>
    <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
    <!-- Read matching templates -->
    <table>
      <tr>
          <th>Package Group</th>
          <th>Package Artifact</th>
          <th>Package Version</th>
          <th>Remote Licenses</th>
          <th>Local Licenses</th>
      </tr>
      <xsl:for-each select="licenseSummary/dependencies/dependency">
        <xsl:sort select="concat(groupId, '.', artifactId)"/>
        <xsl:variable name="GAV" select="concat(groupId, ':', artifactId, ':', version)"/>
        <xsl:variable name="countOfPrevious" select="count(preceding-sibling::*[(concat(groupId, ':',
artifactId, ':', version) = $GAV)])"/>
            <xsl:if test="$countOfPrevious = 0">
            <tr>
              <td><xsl:value-of select="groupId"/></td>
              <td><xsl:value-of select="artifactId"/></td>
              <td><xsl:value-of select="version"/></td>
              <td>
                <xsl:for-each select="licenses/license">
                  <xsl:choose>
                    <xsl:when test="name = 'Public Domain'">
                       <xsl:value-of select="name"/><br/>
                    </xsl:when>
                    <xsl:otherwise>
                       <a href="{./url}"><xsl:value-of select="name"/></a><br/>
                    </xsl:otherwise>
                  </xsl:choose>
                </xsl:for-each>
              </td>
              <td>
                <xsl:for-each select="licenses/license">
                  <xsl:variable name="filename">
                    <xsl:call-template name="remap-local-filename">
                      <xsl:with-param name="name" select="name" />
                    </xsl:call-template>
                  </xsl:variable>
                  <a href="{$filename}"><xsl:value-of select="$filename"/></a><br/>
                </xsl:for-each>
              </td>
            </tr>
```

```
        </xsl:if>
      </xsl:for-each>
    </table>
  </body>
</html>
</xsl:template>

<xsl:template name="remap-local-filename">
  <xsl:param name="name"/>
  <xsl:choose>
    <xsl:when test="$name = 'BSD 3-clause "New" or "Revised" License'">
      <xsl:text>bsd 3-clause new or revised license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'BSD 3-clause Clear License'">
      <xsl:text>bsd 3-clause clear license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'BSD 3-Clause No Nuclear License'">
      <xsl:text>bsd 3-clause no nuclear license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Creative Commons Attribution 2.5'">
      <xsl:text>creative commons attribution 2.5.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'GNU General Public License v2.0 only'">
      <xsl:text>gnu general public license v2.0 only.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'ICU License'">
      <xsl:text>icu license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Indiana University Extreme! Lab Software License 1.1.1'">
      <xsl:text>indiana university extreme lab software license 1.1.1.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Mozilla Public License 2.0'">
      <xsl:text>mozilla public license 2.0.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Plexus Classworlds License'">
      <xsl:text>plexus classworlds license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Sax Public Domain Notice'">
      <xsl:text>sax public domain notice.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'The JSoup MIT License'">
      <xsl:text>the jsoup mit license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'W3C Document License'">
      <xsl:text>w3c document license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'W3C Software Notice and Document License (2002-12-31)'">
      <xsl:text>w3c software notice and document license (2002-12-31).html</xsl:text>
```

```
          </xsl:when>
          <xsl:otherwise>
              <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
          </xsl:otherwise>
        </xsl:choose>
    </xsl:template>
</xsl:stylesheet>
<?xml version="1.0" ?>

<package-spec xmlns="urn:jboss:galleon:package:1.0" name="docs.licenses.merge">
    <dependencies>
    <!--
        <origin name="org.wildfly.core:wildfly-core-galleon-pack">
            <package name="docs.licenses.merge"/>
        </origin>
    -->
        <package name="docs.licenses"/>
    </dependencies>
</package-spec>
<?xml version="1.0" ?>

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
    <delete path="docs/licenses/licenses.html"/>
    <transform stylesheet="docs/licenses/licenses.xsl" src="docs/licenses/licenses.xml"
output="docs/licenses/licenses.html" phase="FINALIZING"/>
</tasks>
<?xml version="1.0" ?>

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
    <xml-merge basedir="docs/licenses" output="docs/licenses/licenses.xml">
        <filter pattern="*-licenses.xml" include="true"/>
    </xml-merge>
    <transform stylesheet="docs/licenses/licenses.xsl" src="docs/licenses/licenses.xml"
output="docs/licenses/licenses.html" phase="FINALIZING"/>
</tasks>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="xml" indent="yes"/>
    <xsl:param name="fileList"/>
    <xsl:param name="fileSeparator"/>

    <xsl:template match="/">
        <xsl:call-template name="startDocument"/>
        <xsl:call-template name="tokenizeString">
            <xsl:with-param name="list" select="$fileList"/>
            <xsl:with-param name="delimiter" select="','"/>
        </xsl:call-template>
        <xsl:call-template name="endDocument"/>
    </xsl:template>
```

```xml
<xsl:template name="tokenizeString">
    <!--passed template parameter -->
    <xsl:param name="list"/>
    <xsl:param name="delimiter"/>
    <xsl:choose>
        <xsl:when test="contains($list, $delimiter)">
            <xsl:call-template name="processFile">
                <!-- get everything in front of the first delimiter -->
                <xsl:with-param name="fileName" select="substring-before($list,$delimiter)"/>
            </xsl:call-template>
            <xsl:call-template name="tokenizeString">
                <!-- store anything left in another variable -->
                <xsl:with-param name="list" select="substring-after($list,$delimiter)"/>
                <xsl:with-param name="delimiter" select="$delimiter"/>
            </xsl:call-template>
        </xsl:when>
        <xsl:otherwise>
            <xsl:choose>
                <xsl:when test="$list = ''">
                    <xsl:text/>
                </xsl:when>
                <xsl:otherwise>
                    <xsl:call-template name="processFile">
                        <!-- get everything in front of the first delimiter -->
                        <xsl:with-param name="fileName" select="$list"/>
                    </xsl:call-template>
                </xsl:otherwise>
            </xsl:choose>
        </xsl:otherwise>
    </xsl:choose>
</xsl:template>

<xsl:template name="substring-after-last">
    <xsl:param name="string" />
    <xsl:param name="delimiter" />
    <xsl:choose>
        <xsl:when test="contains($string, $delimiter)">
            <xsl:call-template name="substring-after-last">
                <xsl:with-param name="string" select="substring-after($string, $delimiter)" />
                <xsl:with-param name="delimiter" select="$delimiter" />
            </xsl:call-template>
        </xsl:when>
        <xsl:otherwise><xsl:value-of select="$string" /></xsl:otherwise>
    </xsl:choose>
</xsl:template>

<!-- FILE PROCESSING -->
```

```
<xsl:template name="startDocument">
    <xsl:text disable-output-escaping="no">
</xsl:text>
    <xsl:text disable-output-escaping="yes"><licenseSummary></xsl:text>
    <xsl:text disable-output-escaping="no">
 </xsl:text>
    <xsl:text disable-output-escaping="yes"><dependencies></xsl:text>
  </xsl:template>

  <xsl:template name="endDocument">
       <xsl:text disable-output-escaping="no">
 </xsl:text>
    <xsl:text disable-output-escaping="yes"></dependencies></xsl:text>
    <xsl:text disable-output-escaping="no">
</xsl:text>
    <xsl:text disable-output-escaping="yes"></licenseSummary></xsl:text>
  </xsl:template>

  <xsl:template name="processFile">
    <xsl:param name="fileName"/>
    <xsl:for-each select="document($fileName)/licenseSummary/dependencies/*">
       <xsl:text disable-output-escaping="no">
  </xsl:text>
       <xsl:copy>
         <xsl:apply-templates select="@* | node()"/><xsl:text disable-output-escaping="no">
</xsl:text><source><xsl:call-template name="substring-after-last">
           <xsl:with-param name="string" select="$fileName"/>
           <xsl:with-param name="delimiter" select="$fileSeparator"/>
         </xsl:call-template></source><xsl:text disable-output-escaping="no">
  </xsl:text>
       </xsl:copy>
    </xsl:for-each>
  </xsl:template>

  <xsl:template match="@* | node()">
    <xsl:copy>
       <xsl:apply-templates select="@* | node()"/>
    </xsl:copy>
  </xsl:template>

</xsl:stylesheet>
```

2.767 wildfly-http-client-common 1.0.12.Final

2.768 wildfly-http-ejb-client 1.0.12.Final

2.769 wildfly-http-naming-client 1.0.12.Final

2.770 wildfly-http-transaction-client 1.0.12.Final

2.771 wildfly-iiop-openjdk 13.0.0.Final

2.772 wildfly-jacorb 13.0.0.Final

2.773 wildfly-jaxr 13.0.0.Final

2.774 wildfly-jaxrs 13.0.0.Final

2.775 wildfly-jdr 13.0.0.Final

2.776 wildfly-jpa 13.0.0.Final

2.777 wildfly-jsf 13.0.0.Final

2.778 wildfly-jsf-injection 13.0.0.Final

2.779 wildfly-jsr77 13.0.0.Final

2.780 wildfly-mail 13.0.0.Final

2.781 wildfly-messaging 13.0.0.Final

2.782 wildfly-messaging-activemq 13.0.0.Final

2.783 wildfly-mod_cluster-extension 13.0.0.Final

2.784 wildfly-mod_cluster-undertow 13.0.0.Final

2.785 wildfly-naming 13.0.0.Final

2.785.1 Available under license :

```
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 * Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
 * 02110-1301 USA, or see the FSF site: http://www.fsf.org.
 */

package org.wildfly.naming.java.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Iterator;

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.Assert;

/**
 * Permission to access an object within the "java:" JNDI namespace.
 * <p>
 * This permission does not span into bound nested contexts; such contexts may be governed by their own
 * permission scheme.
 * <p>
 * The {@code name} segment of the permission is a JNDI path whose segments are separated by {@code /}
 * characters.  The
 * name may be preceded with the string {@code java:} for compatibility with previous schemes.  A name of
 * {@code <<ALL BINDINGS>>} is translated to {@code -} for compatibility reasons.
 */
public final class JndiPermission extends Permission {
    private static final long serialVersionUID = 1272655825146515997L;
```

```java
private final int actionBits;
private String actionString;

/**
 * The bitwise encoding of the {@code bind} action.
 */
public static final int ACTION_BIND              = 0b000000001;
/**
 * The bitwise encoding of the {@code rebind} action.
 */
public static final int ACTION_REBIND            = 0b000000010;
/**
 * The bitwise encoding of the {@code unbind} action.
 */
public static final int ACTION_UNBIND            = 0b000000100;
/**
 * The bitwise encoding of the {@code lookup} action.
 */
public static final int ACTION_LOOKUP            = 0b000001000;
/**
 * The bitwise encoding of the {@code list} action.
 */
public static final int ACTION_LIST              = 0b000010000;
/**
 * The bitwise encoding of the {@code listBindings} action.
 */
public static final int ACTION_LIST_BINDINGS     = 0b000100000;
/**
 * The bitwise encoding of the {@code createSubcontext} action.
 */
public static final int ACTION_CREATE_SUBCONTEXT   = 0b001000000;
/**
 * The bitwise encoding of the {@code destroySubcontext} action.
 */
public static final int ACTION_DESTROY_SUBCONTEXT   = 0b010000000;
/**
 * The bitwise encoding of the {@code addNamingListener} action.
 */
public static final int ACTION_ADD_NAMING_LISTENER = 0b100000000;
/**
 * The bitwise encoding of the {@code *} action.  This value is the bitwise-OR of all of the other action bits.
 */
public static final int ACTION_ALL               = 0b111111111;

/**
 * Construct a new instance.
 *
```

```
 * @param name the path name (must not be {@code null})
 * @param actions the actions (must not be {@code null})
 */
public JndiPermission(final String name, final String actions) {
    this(name, parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Construct a new instance using an action bitmask.  If a bit in the mask falls outside of {@link
#ACTION_ALL}, it
 * is stripped.
 *
 * @param name the path name (must not be {@code null})
 * @param actionBits the action bits
 */
public JndiPermission(final String name, final int actionBits) {
    super(canonicalize1(Assert.checkNotNullParam("name", name)));
    this.actionBits = actionBits & ACTION_ALL;
}

/**
 * Determine if this permission implies the other permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other, {@code false} if it does not or {@code permission}
is {@code null}
 */
public boolean implies(final Permission permission) {
    return permission instanceof JndiPermission && implies((JndiPermission) permission);
}

/**
 * Determine if this permission implies the other permission.
 *
 * @param permission the other permission
 * @return {@code true} if this permission implies the other, {@code false} if it does not or {@code permission}
is {@code null}
 */
public boolean implies(final JndiPermission permission) {
    return permission != null && ((actionBits & permission.actionBits) == permission.actionBits) &&
impliesPath(permission.getName());
}

/**
 * Determine if this permission implies the given {@code actions} on the given {@code name}.
 *
 * @param name the name (must not be {@code null})
 * @param actions the actions (must not be {@code null})
```

```
     * @return {@code true} if this permission implies the {@code actions} on the {@code name}, {@code false}
otherwise
     */
    public boolean implies(final String name, final String actions) {
        return implies(name, parseActions(actions));
    }

    /**
     * Determine if this permission implies the given {@code actionsBits} on the given {@code name}.
     *
     * @param name the name (must not be {@code null})
     * @param actionBits the action bits
     * @return {@code true} if this permission implies the {@code actionBits} on the {@code name}, {@code false}
otherwise
     */
    public boolean implies(final String name, final int actionBits) {
        Assert.checkNotNullParam("name", name);
        final int maskedBits = actionBits & ACTION_ALL;
        return (this.actionBits & maskedBits) == maskedBits && impliesPath(name);
    }

    /**
     * Determine whether this object is equal to another.
     *
     * @param other the other object
     * @return {@code true} if they are equal, {@code false} otherwise
     */
    public boolean equals(Object other) {
        return other instanceof JndiPermission && equals((JndiPermission)other);
    }

    /**
     * Determine whether this object is equal to another.
     *
     * @param other the other object
     * @return {@code true} if they are equal, {@code false} otherwise
     */
    public boolean equals(JndiPermission other) {
        return this == other || other != null && getName().equals(other.getName()) && actionBits == other.actionBits;
    }

    /**
     * Get the hash code of this permission.
     *
     * @return the hash code of this permission
     */
    public int hashCode() {
        return actionBits * 23 + getName().hashCode();
    }
```

```
        }

        /**
         * Get the actions string.  The actions string will be a canonical version of the one passed in at construction.
         *
         * @return the actions string (not {@code null})
         */
        public String getActions() {
            final String actionString = this.actionString;
            if (actionString != null) {
                return actionString;
            }
            int actionBits = this.actionBits;
            if (actionBits == ACTION_ALL) {
                return this.actionString = "*";
            }
            int m = Integer.lowestOneBit(actionBits);
            if (m != 0) {
                StringBuilder b = new StringBuilder();
                b.append(getAction(m));
                actionBits &= ~m;
                while (actionBits != 0) {
                    m = Integer.lowestOneBit(actionBits);
                    b.append(',').append(getAction(m));
                    actionBits &= ~m;
                }
                return this.actionString = b.toString();
            } else {
                return this.actionString = "";
            }
        }

        /**
         * Get the action bits.
         *
         * @return the action bits
         */
        public int getActionBits() {
            return actionBits;
        }

        /**
         * Return a permission which is equal to this one except with its actions reset to {@code actionBits}.  If the given
         * {@code actionBits} equals the current bits of this permission, then this permission instance is returned;
otherwise
         * a new permission is constructed. Any action bits which fall outside of {@link #ACTION_ALL} are silently
ignored.
         *
```

```java
 * @param actionBits the action bits to use
 * @return a permission with only the given action bits (not {@code null})
 */
public JndiPermission withNewActions(int actionBits) {
    actionBits &= ACTION_ALL;
    if (actionBits == this.actionBits) {
        return this;
    } else {
        return new JndiPermission(getName(), actionBits);
    }
}

/**
 * Return a permission which is equal to this one except with its actions reset to {@code actions}.  If the given
 * {@code actions} equals the current actions of this permission, then this permission instance is returned;
otherwise
 * a new permission is constructed.
 *
 * @param actions the actions to use (must not be {@code null})
 * @return a permission with only the given action bits (not {@code null})
 */
public JndiPermission withNewActions(String actions) {
    return withNewActions(parseActions(Assert.checkNotNullParam("actions", actions)));
}

/**
 * Return a permission which is equal to this one except with additional action bits.  If the given {@code
actionBits}
 * do not add any new actions, then this permission instance is returned; otherwise a new permission is
constructed.
 * Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
 *
 * @param actionBits the action bits to add
 * @return a permission with the union of permissions from this instance and the given bits (not {@code null})
 */
public JndiPermission withActions(int actionBits) {
    return withNewActions(actionBits & ACTION_ALL | this.actionBits);
}

/**
 * Return a permission which is equal to this one except with additional actions.  If the given {@code actionBits}
 * do not add any new actions, then this permission instance is returned; otherwise a new permission is
constructed.
 *
 * @param actions the actions to add (must not be {@code null})
 * @return a permission with the union of permissions from this instance and the given bits (not {@code null})
 */
public JndiPermission withActions(String actions) {
```

```java
        return withActions(parseActions(Assert.checkNotNullParam("actions", actions)));
    }

    /**
     * Return a permission which is equal to this one except without some action bits.  If the given {@code
actionBits}
     * do not remove any actions, then this permission instance is returned; otherwise a new permission is constructed.
     * Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
     *
     * @param actionBits the action bits to remove
     * @return a permission with the given bits subtracted from this instance (not {@code null})
     */
    public JndiPermission withoutActions(int actionBits) {
        return withNewActions(this.actionBits & ~(actionBits & ACTION_ALL));
    }

    /**
     * Return a permission which is equal to this one except without some actions.  If the given {@code actions}
     * do not remove any actions, then this permission instance is returned; otherwise a new permission is constructed.
     *
     * @param actions the actions to remove (must not be {@code null})
     * @return a permission with the given bits subtracted from this instance (not {@code null})
     */
    public JndiPermission withoutActions(String actions) {
        return withoutActions(parseActions(Assert.checkNotNullParam("actions", actions)));
    }

    /**
     * Construct a new type-specific permission collection.
     *
     * @return the new permission collection instance (not {@code null})
     */
    public PermissionCollection newPermissionCollection() {
        return new JndiPermissionCollection();
    }

    // semi-private

    Object writeReplace() {
        return new SerializedJndiPermission(getName(), getActions());
    }

    boolean impliesPath(final String yourName) {
        return yourName.startsWith("java:") ? impliesPath0(yourName.substring(5)) : impliesPath0(yourName);
    }

    // private
```

```java
private boolean impliesPath0(final String yourName) {
    // segment-by-segment comparison
    final String myName = getName();
    final Iterator<String> myIter = JndiPermissionNameParser.nameIterator(myName);
    final Iterator<String> yourIter = JndiPermissionNameParser.nameIterator(yourName);
    // even if it's just "", there is always a first element
    assert myIter.hasNext() && yourIter.hasNext();
    String myNext;
    String yourNext;
    for (;;) {
        myNext = myIter.next();
        yourNext = yourIter.next();
        if (myNext.equals("-")) {
            // "-" implies everything including ""
            return true;
        }
        if (! myNext.equals("*") && ! myNext.equals(yourNext)) {
            // "foo/bar" does not imply "foo/baz"
            return false;
        }
        if (myIter.hasNext()) {
            if (! yourIter.hasNext()) {
                // "foo/bar" does not imply "foo"
                return false;
            }
        } else {
            // if neither has next, "foo/bar" implies "foo/bar", else "foo" does not imply "foo/bar"
            return ! yourIter.hasNext();
        }
    }
}

private static String canonicalize1(String name) {
    Assert.checkNotNullParam("name", name);
    return name.equalsIgnoreCase("<<ALL BINDINGS>>") ? "-" : canonicalize2(name);
}

private static String canonicalize2(String name) {
    return name.startsWith("java:") ? name.substring(5) : name;
}

private static int parseActions(final String actionsString) {
    // TODO: switch to Elytron utility methods to do this
    int actions = 0;
    int pos = 0;
    int idx = actionsString.indexOf(',');
    for (;;) {
        String str;
```

```java
        if (idx == -1) {
            str = actionsString.substring(pos, actionsString.length()).trim();
            if (! str.isEmpty()) actions |= parseAction(str);
            return actions;
        } else {
            str = actionsString.substring(pos, idx).trim();
            pos = idx + 1;
            if (! str.isEmpty()) actions |= parseAction(str);
            idx = actionsString.indexOf(',', pos);
        }
    }
}

private static int parseAction(final String str) {
    switch (str) {
        case "*":
        case "all": return ACTION_ALL;
        case "bind": return ACTION_BIND;
        case "rebind": return ACTION_REBIND;
        case "unbind": return ACTION_UNBIND;
        case "lookup": return ACTION_LOOKUP;
        case "list": return ACTION_LIST;
        case "listBindings": return ACTION_LIST_BINDINGS;
        case "createSubcontext": return ACTION_CREATE_SUBCONTEXT;
        case "destroySubcontext": return ACTION_DESTROY_SUBCONTEXT;
        case "addNamingListener": return ACTION_ADD_NAMING_LISTENER;
        default: {
            throw NamingLogger.ROOT_LOGGER.invalidPermissionAction(str);
        }
    }
}

private String getAction(final int bit) {
    switch (bit) {
        case ACTION_BIND: return "bind";
        case ACTION_REBIND: return "rebind";
        case ACTION_UNBIND: return "unbind";
        case ACTION_LOOKUP: return "lookup";
        case ACTION_LIST: return "list";
        case ACTION_LIST_BINDINGS: return "listBindings";
        case ACTION_CREATE_SUBCONTEXT: return "createSubcontext";
        case ACTION_DESTROY_SUBCONTEXT: return "destroySubcontext";
        case ACTION_ADD_NAMING_LISTENER: return "addNamingListener";
        default: throw Assert.impossibleSwitchCase(bit);
    }
}
}
```

```
package org.wildfly.naming.java.permission;

import java.io.Serializable;

final class SerializedJndiPermission implements Serializable {
    private static final long serialVersionUID = - 7602123815143424767L;

    private final String name;
    private final String actions;

    SerializedJndiPermission(final String name, final String actions) {
        this.name = name;
        this.actions = actions;
    }

    Object readResolve() {
        return new JndiPermission(name, actions);
    }
}
```

```
package org.wildfly.naming.java.permission;

import java.io.Serializable;

class SerializedJndiPermissionCollection implements Serializable {

    private static final long serialVersionUID = 315106751231586701L;

    private final boolean readOnly;
    private final JndiPermission[] permissions;

    SerializedJndiPermissionCollection(final boolean readOnly, final JndiPermission[] permissions) {
        this.readOnly = readOnly;
        this.permissions = permissions;
    }

    Object readResolve() {
        final JndiPermissionCollection collection = new JndiPermissionCollection(permissions);
        if (readOnly) collection.setReadOnly();
        return collection;
    }
}
```

```
package org.wildfly.naming.java.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.concurrent.atomic.AtomicReference;

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.Assert;

final class JndiPermissionCollection extends PermissionCollection {

    private static final long serialVersionUID = - 769684900128311150L;
    private static final JndiPermission[] NO_PERMISSIONS = new JndiPermission[0];

    private final AtomicReference<JndiPermission[]> permissions;

    JndiPermissionCollection() {
        permissions = new AtomicReference<>(NO_PERMISSIONS);
    }

    JndiPermissionCollection(JndiPermission[] permissions) {
        Assert.checkNotNullParam("permissions", permissions);
        this.permissions = new AtomicReference<>(permissions);
    }

    public void add(final Permission permission) {
        if (isReadOnly()) {
            throw NamingLogger.ROOT_LOGGER.cannotAddToReadOnlyPermissionCollection();
        }
        if (! (permission instanceof JndiPermission)) {
            throw NamingLogger.ROOT_LOGGER.invalidPermission(permission);
        }
        final AtomicReference<JndiPermission[]> permissions = this.permissions;
        JndiPermission jndiPermission = (JndiPermission) permission;
        if (jndiPermission.getActionBits() == 0) {
```

```java
            // no operation
            return;
        }
        JndiPermission[] oldVal;
        ArrayList<JndiPermission> newVal;
        boolean added = false;
        do {
            oldVal = permissions.get();
            newVal = new ArrayList<>(oldVal.length + 1);
            // first, test if it's in the set, or combine with any other permission with the same actions
            for (final JndiPermission testPerm : oldVal) {
                if (testPerm.implies(jndiPermission)) {
                    // already in the set
                    return;
                } else if (jndiPermission.implies(testPerm)) {
                    // otherwise skip all other matches
                } else if (jndiPermission.getName().equals(testPerm.getName())) {
                    // the two .implies() would have caught this condition
                    assert jndiPermission.getActionBits() != testPerm.getActionBits();
                    jndiPermission = jndiPermission.withActions(testPerm.getActionBits());
                    // and skip it
                }
            }
            for (final JndiPermission testPerm : oldVal) {
                if (! jndiPermission.implies(testPerm)) {
                    newVal.add(testPerm);
                }
            }
            newVal.add(jndiPermission);
        } while (! permissions.compareAndSet(oldVal, newVal.toArray(NO_PERMISSIONS)));
    }

    public boolean implies(final Permission permission) {
        final JndiPermission[] jndiPermissions = permissions.get();
        for (JndiPermission jndiPermission : jndiPermissions) {
            if (jndiPermission.implies(permission)) {
                return true;
            }
        }
        return false;
    }

    public Enumeration<Permission> elements() {
        final JndiPermission[] jndiPermissions = permissions.get();
        return new Enumeration<Permission>() {
            int i;
            public boolean hasMoreElements() {
                return i < jndiPermissions.length;
```

```
            }

            public Permission nextElement() {
                return jndiPermissions[i++];
            }
        };
    }

    Object writeReplace() {
        return new SerializedJndiPermissionCollection(isReadOnly(), permissions.get());
    }
}
/*
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 * 02110-1301 USA, or see the FSF site: http://www.fsf.org.
 */

package org.wildfly.naming.java.permission;

import java.util.Iterator;
import java.util.NoSuchElementException;

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.iteration.CodePointIterator;

final class JndiPermissionNameParser {
    private JndiPermissionNameParser() {
    }

    static Iterator<String> nameIterator(final String string) {
        return new ParsingIterator(string);
```

```java
    }

    static Iterator<String> segmentsIterator(String[] segments) {
        return new SegmentsIterator(segments);
    }

    static String[] toArray(Iterator<String> iter) {
        return toArray(iter, 0);
    }

    private static String[] toArray(final Iterator<String> iter, final int size) {
        if (iter.hasNext()) {
            String next = iter.next();
            String[] array = toArray(iter, size + 1);
            array[size] = next;
            return array;
        } else {
            return new String[size];
        }
    }

    static class SegmentsIterator implements Iterator<String> {
        private final String[] segments;
        private int idx;

        SegmentsIterator(final String[] segments) {
            this.segments = segments;
        }

        public boolean hasNext() {
            return idx < segments.length;
        }

        public String next() {
            return segments[idx ++];
        }

        String[] getSegments() {
            return segments;
        }
    }

    static class ParsingIterator implements Iterator<String> {
        private final CodePointIterator cpi;
        private final StringBuilder b;
        private final String string;
        private boolean hasNext = true;
```

```
ParsingIterator(final String string) {
    this.string = string;
    cpi = CodePointIterator.ofString(string);
    b = new StringBuilder();
}

public boolean hasNext() {
    return hasNext;
}

public String next() {
    if (! hasNext()) throw new NoSuchElementException();
    final StringBuilder b = this.b;
    final CodePointIterator cpi = this.cpi;
    int cp;
    while (cpi.hasNext()) {
        cp = cpi.next();
        if (cp == '\\') {
            // skip the next code point always
            if (! cpi.hasNext()) {
                throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
            }
            b.appendCodePoint(cpi.next());
        } else if (cp == '"' || cp == '\'') {
            int q = cp;
            if (! cpi.hasNext()) {
                throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
            }
            for (;;) {
                cp = cpi.next();
                if (cp == '\\') {
                    // skip the next code point always
                    if (! cpi.hasNext()) {
                        throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                    }
                    b.appendCodePoint(cpi.next());
                } else if (cp == q) {
                    break;
                } else {
                    b.appendCodePoint(cp);
                }
                if (! cpi.hasNext()) {
                    throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                }
            }
        } else if (cp == '/') {
            final String s = b.toString();
            b.setLength(0);
```

```
            return s;
        } else {
            b.appendCodePoint(cp);
        }
    }
    final String s = b.toString();
    b.setLength(0);
    hasNext = false;
    return s;
    }
  }
}
```

2.786 wildfly-naming-client 1.0.9.Final

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Version 2.1, February 1999

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   distributed under the terms of Sections 1 and 2 above on a medium
   customarily used for software interchange; or,
  </dd>
 <dt></dt>
  <dd>
   <strong>c)</strong>
   Accompany it with the information you received as to the offer
   to distribute corresponding source code.  (This alternative is
   allowed only for noncommercial distribution and only if you
   received the program in object code or executable form with such
   an offer, in accord with Subsection b above.)
  </dd>
</dl>


<p>
The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.
</p>


<p>
If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.
```

</p>

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

```
<h3>END OF TERMS AND CONDITIONS</h3>

<h3 id="howto"><a id="SEC4">How to Apply These Terms to Your New Programs</a></h3>

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</p>

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</p>

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</pre>

<p>
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</p>

<p>
If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:
</p>

<pre>
Gnomovision version 69, Copyright (C) <var>year</var> <var>name of author</var>
```

```
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for details.
</pre>


<p>
The hypothetical commands <samp>`show w'</samp> and <samp>`show c'</samp> should show
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</p>


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</p>



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Version 2.1, February 1999

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</head>
<body>
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</td><td><a href="common development and distribution license 1.1.txt">common development and distribution
license 1.1.txt</a>
<br>
<a href="gnu general public license v2.0 only, with classpath exception.txt">gnu general public license v2.0 only,
with classpath exception.txt</a>
<br>
</td>
</tr>
<tr>
<td>org.picketbox</td><td>picketbox</td><td>5.0.2.Final</td><td><a href="http://www.gnu.org/licenses/old-
licenses/lgpl-2.1-standalone.html">GNU Lesser General Public License v2.1 only</a>
<br>
</td><td><a href="gnu lesser general public license v2.1 only.txt">gnu lesser general public license v2.1
only.txt</a>
<br>
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</tr>
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```
<td>org.picketbox</td><td>picketbox-commons</td><td>1.0.0.final</td><td><a
href="http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html">GNU Lesser General Public License v2.1
only</a>
<br>
</td><td><a href="gnu lesser general public license v2.1 only.txt">gnu lesser general public license v2.1
only.txt</a>
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</td>
</tr>
<tr>
<td>org.picketbox</td><td>picketbox-infinispan</td><td>5.0.2.Final</td><td><a
href="http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html">GNU Lesser General Public License v2.1
only</a>
<br>
</td><td><a href="gnu lesser general public license v2.1 only.txt">gnu lesser general public license v2.1
only.txt</a>
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</tr>
<tr>
<td>org.wildfly.bridge</td><td>servlet-api-bridge</td><td>1.0.1.Final</td><td><a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0</a>
<br>
</td><td><a href="apache license 2.0.txt">apache license 2.0.txt</a>
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</tr>
<tr>
<td>org.wildfly.core</td><td>wildfly-core-feature-pack</td><td>5.0.0.Final</td><td><a
href="http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html">GNU Lesser General Public License v2.1
or later</a>
<br>
<a href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0</a>
<br>
</td><td><a href="gnu lesser general public license v2.1 or later.txt">gnu lesser general public license v2.1 or
later.txt</a>
<br>
<a href="apache license 2.0.txt">apache license 2.0.txt</a>
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</tr>
<tr>
<td>org.wildfly.core</td><td>wildfly-elytron-integration</td><td>5.0.0.Final</td><td><a
href="http://www.gnu.org/licenses/old-licenses/lgpl-2.1-standalone.html">GNU Lesser General Public License v2.1
or later</a>
<br>
<a href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0</a>
<br>
```

</td><td>gnu lesser general public license v2.1 or later.txt

apache license 2.0.txt

</td>

</tr>

<tr>

<td>org.wildfly</td><td>wildfly-clustering-common</td><td>13.0.0.Final</td><td><a

href="http://repository.jboss.org/licenses/lgpl-2.1.txt">GNU Lesser General Public License v2.1 or later

</td><td>gnu lesser general public license v2.1 or later.txt

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<tr>

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href="http://repository.jboss.org/licenses/lgpl-2.1.txt">GNU Lesser General Public License v2.1 or later

</td><td>gnu lesser general public license v2.1 or later.txt

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</tr>

<tr>

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</td><td>gnu lesser general public license v2.1 or later.txt

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<tr>

<td>org.wildfly.wildfly-http-client</td><td>wildfly-http-client-common</td><td>1.0.12.Final</td><td><a

href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0

</td><td>apache license 2.0.txt

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<td>org.wildfly.wildfly-http-client</td><td>wildfly-http-naming-client</td><td>1.0.12.Final</td><td><a

href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0

</td><td>apache license 2.0.txt


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</tr>
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</td><td><a href="gnu lesser general public license v2.1 or later.txt">gnu lesser general public license v2.1 or
later.txt</a>
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</td>
</tr>
<tr>
<td>org.wildfly</td><td>wildfly-naming-client</td><td>1.0.9.Final</td><td><a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0</a>
<br>
</td><td><a href="apache license 2.0.txt">apache license 2.0.txt</a>
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</td>
</tr>
<tr>
<td>org.wildfly</td><td>wildfly-security</td><td>13.0.0.Final</td><td><a
href="http://repository.jboss.org/licenses/lgpl-2.1.txt">GNU Lesser General Public License v2.1 or later</a>
<br>
</td><td><a href="gnu lesser general public license v2.1 or later.txt">gnu lesser general public license v2.1 or
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</td>
</tr>
<tr>
<td>org.wildfly</td><td>wildfly-undertow</td><td>13.0.0.Final</td><td><a
href="http://repository.jboss.org/licenses/lgpl-2.1.txt">GNU Lesser General Public License v2.1 or later</a>
<br>
</td><td><a href="gnu lesser general public license v2.1 or later.txt">gnu lesser general public license v2.1 or
later.txt</a>
<br>
</td>
</tr>
<tr>
<td>org.wildfly</td><td>wildfly-web-common</td><td>13.0.0.Final</td><td><a
href="http://repository.jboss.org/licenses/lgpl-2.1.txt">GNU Lesser General Public License v2.1 or later</a>
<br>
</td><td><a href="gnu lesser general public license v2.1 or later.txt">gnu lesser general public license v2.1 or
later.txt</a>
<br>
</td>
</tr>
<tr>
<td>xalan</td><td>serializer</td><td>2.7.1.jbossorg-4</td><td><a
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href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0

</td><td>apache license 2.0.txt

</td>

</tr>

<tr>

<td>xalan</td><td>xalan</td><td>2.7.1.jbossorg-4</td><td>Apache License 2.0

</td><td>apache license 2.0.txt

</td>

</tr>

</table>

</body>

</html>

table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}

th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
        xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
  <xsl:param name="version"/>
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'" />

```xml
<xsl:template match="/">
  <html>
    <head>
      <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
      <link rel="stylesheet" type="text/css" href="licenses.css"/>
    </head>
    <body>
      <h2>WildFly <xsl:value-of select="substring-before($version, '-')"/> - Servlet Feature Pack</h2>
      <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
      <!-- Read matching templates -->
      <table>
        <tr>
          <th>Package Group</th>
          <th>Package Artifact</th>
          <th>Package Version</th>
          <th>Remote Licenses</th>
          <th>Local Licenses</th>
        </tr>
        <xsl:for-each select="licenseSummary/dependencies/dependency">
          <xsl:sort select="concat(groupId, '.', artifactId)"/>
          <tr>
            <td><xsl:value-of select="groupId"/></td>
            <td><xsl:value-of select="artifactId"/></td>
            <td><xsl:value-of select="version"/></td>
            <td>
              <xsl:for-each select="licenses/license">
                <a href="{./url}"><xsl:value-of select="name"/></a><br/>
              </xsl:for-each>
            </td>
            <td>
              <xsl:for-each select="licenses/license">
                <xsl:variable name="filename">
                  <xsl:call-template name="remap-local-filename">
                    <xsl:with-param name="name" select="name" />
                  </xsl:call-template>
                </xsl:variable>
                <a href="{$filename}"><xsl:value-of select="$filename"/></a><br/>
              </xsl:for-each>
            </td>
          </tr>
        </xsl:for-each>
      </table>
    </body>
  </html>
</xsl:template>

<xsl:template name="remap-local-filename">
```

```
<xsl:param name="name"/>
<xsl:choose>
    <xsl:when test="$name = 'GNU General Public License v2.0 only'">
        <xsl:text>gnu general public license v2.0 only.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = ''">
        <xsl:text>.html</xsl:text>
    </xsl:when>
    <xsl:otherwise>
        <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
    </xsl:otherwise>
</xsl:choose>
    </xsl:template>
</xsl:stylesheet>
```

2.800 wildfly-servlet-galleon-pack 13.0.0.Final

2.800.1 Available under license :

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Vladimir Dosoudil <dosoudil@redhat.com>

Weston Price <wmprice@redhat.com>

```xml
<?xml version="1.0" ?>

<package-spec xmlns="urn:jboss:galleon:package:1.0" name="copyright.txt">
  <dependencies>
    <origin name="org.wildfly.core:wildfly-core-galleon-pack">
      <package name="copyright.txt"/>
    </origin>
  </dependencies>
</package-spec>
```

```xml
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
        xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
```

```
<xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
<xsl:param name="version"/>
<xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
<xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'" />

<xsl:template match="/">
  <html>
    <head>
      <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
      <link rel="stylesheet" type="text/css" href="licenses.css"/>
    </head>
    <body>
      <h2>WildFly <xsl:value-of select="substring-before($version, '-')"/> - Servlet Feature Pack</h2>
      <p>The following material has been provided for informational purposes only, and should not be relied
upon or construed as a legal opinion or legal advice.</p>
        <!-- Read matching templates -->
        <table>
          <tr>
            <th>Package Group</th>
            <th>Package Artifact</th>
            <th>Package Version</th>
            <th>Remote Licenses</th>
            <th>Local Licenses</th>
          </tr>
          <xsl:for-each select="licenseSummary/dependencies/dependency">
            <xsl:sort select="concat(groupId, '.', artifactId)"/>
            <tr>
              <td><xsl:value-of select="groupId"/></td>
              <td><xsl:value-of select="artifactId"/></td>
              <td><xsl:value-of select="version"/></td>
              <td>
                <xsl:for-each select="licenses/license">
                  <a href="{./url}"><xsl:value-of select="name"/></a><br/>
                </xsl:for-each>
              </td>
              <td>
                <xsl:for-each select="licenses/license">
                  <xsl:variable name="filename">
                    <xsl:call-template name="remap-local-filename">
                      <xsl:with-param name="name" select="name" />
                    </xsl:call-template>
                  </xsl:variable>
                  <a href="{$filename}"><xsl:value-of select="$filename"/></a><br/>
                </xsl:for-each>
              </td>
            </tr>
          </xsl:for-each>
        </table>
```

```
          </body>
        </html>
    </xsl:template>

    <xsl:template name="remap-local-filename">
        <xsl:param name="name"/>
        <xsl:choose>
            <xsl:when test="$name = 'GNU General Public License v2.0 only'">
                <xsl:text>gnu general public license v2.0 only.html</xsl:text>
            </xsl:when>
            <xsl:when test="$name = ''">
                <xsl:text>.html</xsl:text>
            </xsl:when>
            <xsl:otherwise>
                <xsl:value-of select="concat(translate($name, $uppercase, $lowercase), '.txt')"/>
            </xsl:otherwise>
        </xsl:choose>
    </xsl:template>
</xsl:stylesheet>
<!--
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-->
<!--
javax.enterprise:cdi-api:1.2
javax.validation:validation-api:1.1.0.Final
org.glassfish:javax.json:1.0.4
-->
<html>
<head>
  <META http-equiv="Content-Type" content="text/html; charset=utf-8">
```

```html
    <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
    <link rel="stylesheet" type="text/css" href="licenses.css">
</head>
<body>
<h2>WildFly 13 - Servlet Feature Pack - Addendum</h2>
<p>The following material has been provided for informational purposes only, and should not be relied upon or
construed as a legal opinion or legal advice.</p>
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Licenses</th><th>Local Licenses</th>
  </tr>

  <tr>
     <td>javax.enterprise</td><td>cdi-api</td><td>1.2</td><td><a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0</a>
     <br>
  </td><td><a href="apache license 2.0.txt">apache license 2.0.txt</a>
     <br>
  </td>
  </tr>
  <tr>
     <td>javax.validation</td><td>validation-api</td><td>1.1.0.Final</td><td><a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License 2.0</a>
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  </td><td><a href="apache license 2.0.txt">apache license 2.0.txt</a>
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  </td>
  </tr>
  <tr>
     <td>org.glassfish</td><td>javax.json</td><td>1.0.4</td><td><a
href="https://javaee.github.io/glassfish/LICENSE">Common Development and Distribution License 1.1</a>
     <br>
     <a href="http://www.gnu.org/licenses/old-licenses/gpl-2.0-standalone.html">GNU General Public License v2.0
only</a>
     <br>
  </td><td><a href="common development and distribution license 1.1.txt">common development and distribution
license 1.1.txt</a>
     <br>
     <a href="gnu general public license v2.0 only.html">gnu general public license v2.0 only.html</a>
     <br>
  </td>
  </tr>
</table>
</body>
</html>
```
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                   Version 2, June 1991

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```
table {
  border-collapse: collapse;
}

table, th, td {
  border: 1px solid navy;
}

th {
  text-align: left;
  background-color: #BCC6CC;

}
```

```
th, td {
  padding: 2px;
  text-align: left;
}

tr:nth-child(even) {
  background-color: #f2f2f2;
}
```
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<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
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</head>
<body>
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<p>
Version 2, June 1991
</p>

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</p>

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</p>

<dl>
 <dt></dt>
  <dd>
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  </dd>
 <dt></dt>
  <dd>
   b)
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  </dd>
 <dt></dt>
  <dd>
   c)
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    </dd>
</dl>

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<!-- we use this doubled UL to get the sub-sections indented, -->
<!-- while making the bullets as unobvious as possible. -->

<dl>
 <dt></dt>
  <dd>
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   source code, which must be distributed under the terms of Sections
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  </dd>

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<dt></dt>
  <dd>
    <strong>b)</strong>
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    machine-readable copy of the corresponding source code, to be
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    customarily used for software interchange; or,
  </dd>
<dt></dt>
  <dd>
    <strong>c)</strong>
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  </dd>
</dl>

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```

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</p>

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</p>

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</p>

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Version 1.1

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Version 2.1, February 1999

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the library's name and an idea of what it does.
Copyright (C) year name of author

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in
the library `Frob' (a library for tweaking knobs) written
by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
```
<?xml version="1.0" ?>

<package-spec xmlns="urn:jboss:galleon:package:1.0" name="docs.licenses">
  <dependencies>
    <origin name="org.wildfly.core:wildfly-core-galleon-pack">
      <package name="docs.licenses"/>
    </origin>
  </dependencies>
</package-spec>
<?xml version="1.0" ?>

<tasks xmlns="urn:wildfly:wildfly-feature-pack-tasks:2.0">
  <copy-path src="docs/licenses/licenses.xsl" relative-to="content" target="docs/licenses/servlet-licenses.xsl"/>
  <transform stylesheet="docs/licenses/servlet-licenses.xsl" src="docs/licenses/servlet-feature-pack-licenses.xml"
output="docs/licenses/servlet-feature-pack-licenses.html"/>
```

```
        <delete path="docs/licenses/servlet-licenses.xsl"/>
    </tasks>
    <?xml version="1.0" ?>

    <package-spec xmlns="urn:jboss:galleon:package:1.0" name="LICENSE.txt">
      <dependencies>
        <origin name="org.wildfly.core:wildfly-core-galleon-pack">
          <package name="LICENSE.txt"/>
        </origin>
      </dependencies>
    </package-spec>
```

2.801 wildfly-system-jmx 13.0.0.Final

2.802 wildfly-transaction-client 1.1.2.Final

2.803 wildfly-transactions 13.0.0.Final

2.804 wildfly-version 5.0.0.Final

2.805 wildfly-web 13.0.0.Final

2.806 wildfly-web-common 13.0.0.Final

2.807 wildfly-webservices-server-integration 13.0.0.Final

2.808 wildfly-weld 13.0.0.Final

2.808.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
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for this service if you wish); that you receive source code or can get
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it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
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instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate properly with a modified version of the library, if
  the user installs one, as long as the modified version is
  interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
  from a designated place, offer equivalent access to copy the above
  specified materials from the same place.

  e) Verify that the user has already received a copy of these
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 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
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  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
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        How to Apply These Terms to Your New Libraries

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everyone can redistribute and change. You can do so by permitting
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ordinary General Public License).

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safest to attach them to the start of each source file to most effectively
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"copyright" line and a pointer to where the full notice is found.

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modify it under the terms of the GNU Lesser General Public
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You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

2.809 wildfly-weld-bean-validation 13.0.0.Final
2.809.1 Available under license :

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Version 2.1, February 1999

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Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

  a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if

the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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specified in Subsection 6a, above, for a charge no more
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from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
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which the executable runs, unless that component itself accompanies
the executable.

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That's all there is to it!

2.810 wildfly-weld-common 13.0.0.Final

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software only, so we use the Lesser General Public License.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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 This option is useful when you wish to copy part of the code of
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 4. You may copy and distribute the Library (or a portion or

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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
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file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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 Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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  b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate properly with a modified version of the library, if
  the user installs one, as long as the modified version is
  interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
  from a designated place, offer equivalent access to copy the above
  specified materials from the same place.

  e) Verify that the user has already received a copy of these
  materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on

which the executable runs, unless that component itself accompanies
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 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
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Library, but is designed to work with the Library by being compiled or
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2.812 wildfly-weld-jpa 13.0.0.Final

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non-free programs enables many more people to use the whole GNU
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 "Source code" for a work means the preferred form of the work for
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all the source code for all modules it contains, plus any associated
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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application-supplied function or table used by this function must
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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 You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

  d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

  (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

 a) Accompany the work with the complete corresponding

machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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That's all there is to it!

2.814 wildfly-weld-transactions 13.0.0.Final

2.814.1 Available under license :

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 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
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Public License permits more lax criteria for linking other code with
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 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
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special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
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allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
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linked with the Library has the freedom and the wherewithal to run
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 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
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 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
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 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
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you conspicuously and appropriately publish on each copy an
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 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1
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  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
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  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
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 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
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therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
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  a) Accompany the work with the complete corresponding
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  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
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  will operate properly with a modified version of the library, if
  the user installs one, as long as the modified version is
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materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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  its purpose remains meaningful.

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Apache XML Security for Java

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2.830 xnio-api 3.3.8.Final

2.831 xom 1.2.10

2.832 xsom 2.3.0

2.833 xsom 20140925

2.834 xstream 1.4.9
2.834.1 Available under license :
BSD style

http://x-stream.github.io/license.html

2.835 yasson 1.0.1