

Install Metadata File on the ADFS

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Introduction

This document describes how to install metadata file on the Microsoft Active Directory Federation Services (ADFS).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- ADFS
- Security Assertion Markup Language (SAML) integration with Security Management Appliance

Components Used

The information in this document is based on these software and hardware versions:

- SMA 11.x.x
- SMA 12.x.x

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

Before the Metadata file is installed in the ADFS, ensure that these requirements are addressed:

- SAML enabled in the SMA
- Verify whether the identity provider used by your organization is supported by Cisco Content

Security Management Appliance. These are the supported identity providers: Microsoft Active Directory Federation Services (ADFS) 2.0 Ping Identity PingFederate 7.2 Cisco Web Security Appliance 9.1

- Obtain these certificates that are required to secure the communication between your appliance and the identity provider: If you want your appliance to sign SAML authentication requests or if you want your identity provider to encrypt SAML assertions, obtain a self-signed certificate or a certificate from a trusted Certificate Authority (CA) and the associated private key. If you want the identity provider to sign SAML assertions, obtain the identity provider's certificate. Your appliance uses this certificate to verify the signed SAML assertions

Configure

Step 1. Navigate to your SMA and select **System Administration > SAML > Download Metadata**, as shown in the image.

The screenshot shows the SMA web interface. At the top, there are tabs for 'Management Appliance', 'Email', and 'Web'. Below these are 'Centralized Services', 'Network', and 'System Administration'. The 'System Administration' tab is selected, and the 'SAML' section is active. A table lists a Service Provider profile named 'MyLab_SAML' with a 'Download Metadata' button highlighted in yellow. A red arrow points from this button to a Firefox dialog box that has opened, showing the file 'MyLab_SAML_metadata.xml' and offering the option to 'Save File'.

SP Profile Name	Entity ID	Assertion Consumer URL	Metadata	Delete
MyLab_SAML	sma.mexesa.com	https://sma.mexesa.com:83/	Download Metadata	

Step 2. The Identity Provider Profile fills out automatically when the Customer uploads his ADFS Metadata file. Microsoft has a default URL: **https://<ADFS-host>/FederationMetadata/2007-06/FederationMetadata.xml**.

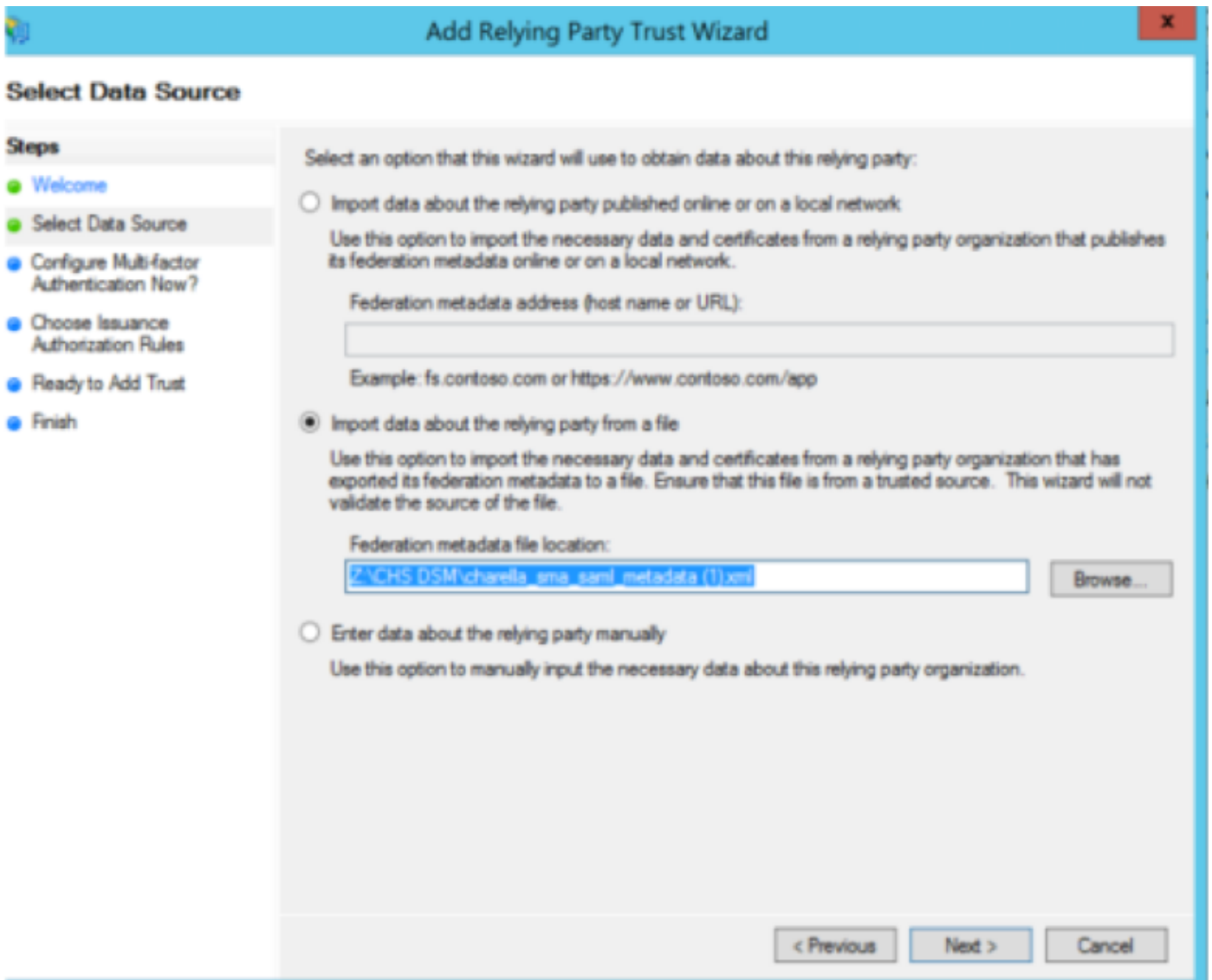
Step 3. Once both profiles are setup, the SP Profile Metadata must be edited, as per bug [CSCvh30183](#). Metadata file looks as shown in the image.

```

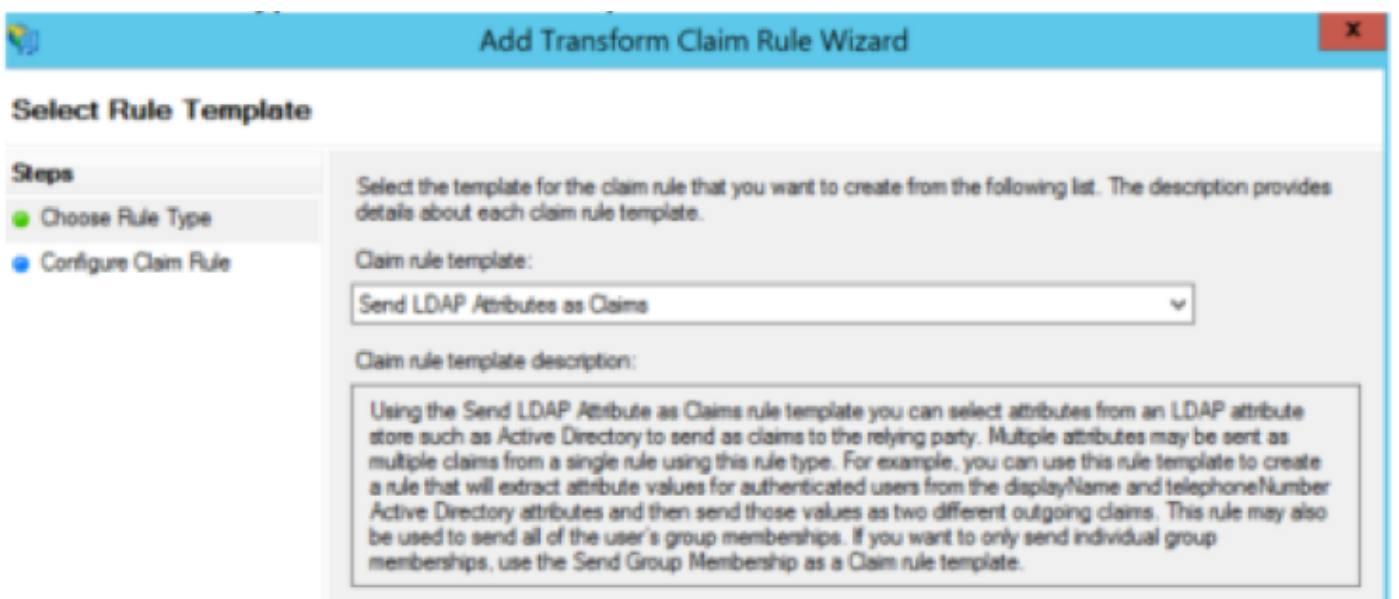
1  <?xml version="1.0"?>
2  <EntityDescriptor xmlns="urn:oasis:names:tc:SAML:2.0:metadata"
3      xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion"
4      xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
5      entityID="sma.mexesa.com">
6      <SPSSODescriptor
7          AuthnRequestsSigned="false" WantAssertionsSigned="true"
8          protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
9          <KeyDescriptor use="signing">
10             <ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
11                 <ds:X509Data>
12                     <ds:X509Certificate>Bag Attributes
13                         localKeyID: D5 4F B4 DA BC 91 71 5C 53 94 4A 78 E0 4A C3 EF C4 BD 4C 8D
14                         friendlyName: sma.mexesa.com
15                         subject=/C=MX/CN=sma.mexesa.com/L=CDMX/O=Tizoncito Inc/ST=CDMX/OU=IT Security
16                         issuer=/C=MX/CN=sma.mexesa.com/L=CDMX/O=Tizoncito Inc/ST=CDMX/OU=IT Security
17                         -----BEGIN CERTIFICATE-----
18                         MIIDZTCCAk2gAwIBAwIJA0jXJ35sNw2bMA0GCSqGSIb3DQEBCwUAMHlxZAJBgNV
19                         BAYTAK1YMRcwFQYDVQQDDA5zbWEubWV4ZXXNhLmNvbTENCAsGA1UEBwwEQ0RNWDEW
20                         MBQGA1UECgwNVG16b25jaXRvIEluYzENMAsGA1UECAwEQ0RNWDEUMBIGA1UECwwL
21                         SVQGU2VjdXJpdHkwHhcNMjkwNjA0MjEwMjEwMjEwMjEwMjEwMjEwMjEwMjEwMjEw
22                         CQYDVQQGEwJNWDEwMjEwMjEwMjEwMjEwMjEwMjEwMjEwMjEwMjEwMjEwMjEwMjEw
23                         TVGxZjAUBGNVBAoMDVRpem9uY210byBJbmMxDTALBgNVBAGMBENETVgxFDASBgNV
24                         BAsMC0lUIFNlY3VyaXR5MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA
25                         g7kzRmL114q9TlklcTJzo8cmscu5nRXFWlohFPcJgn/oHXEUKvUnWe+9cTJQ41X4
26                         ojbGCP75UjD8GdPczkuBxqAZgkrfgNLR8mopsxTFVWb5x68tVsTBGFNyv8Wtd+Io
27                         MVowJ9h9Kju7kSXuYHU1BYoxfPOLyzHHcbAVYKuPM4Fi7y4jwj6rn04jtvPZp7B
28                         cpWjawLlxAfUHVyvrC661Tblo0exG+hZ+AlS3B01+61mTNjF3IcGcGS/TE0chETx
29                         glScUk0iMipnPEtAZey/ebyh18EpH/WViNwZkMUjINvmIFq3+LkF8As8B1Pm6YHi
30                         L6K8W4vOEj1njtmnC/EQIQIDAQABMA0GCSqGSIb3DQEBCwUAA4IBAQB3vxNL7jb
31                         emMTKSRP4hycUld69z2xGQC5e2EeyhnRgHUz7F/TEv0NkORotFii2oOJ6yGEOdWD
32                         6+Bvj6wSBp7UoLyBdCxglyi+vK4Y/R2+iCv13pyaXkbf0QsJvYpzOg7xSjKxZm79
33                         +ZiJQkekyCAM5N0of1ZRrJ9oGD5qoYlZjhuD7NHmRbj7LKHrKsFVqpKet/tTXCH7
34                         7EuB+ogT7pvrTDJ/QoIKcvYkbXuZ30JNVPxxKacjAVj/ZclXnPBGSMxexo277ECJq
35                         ix5aXRSxOMRRtD/72FVRAsGT3x1mBYqu/HTyOBZongM+isJHBhRZxSOMBL+45jFY
36                         PO1jBG5MZuWE
37                         -----END CERTIFICATE-----
38                 </ds:X509Certificate>
39             </ds:X509Data>

```

Step 4. Remove the highlighted information, at the end Metadata file must be as shown in the image.



Step 6. After you successfully import the Metadata File, configure the Claim Rules for the newly created Relying Party Trust, select **Claim rule template > Send LDAP Attributes**, as shown in the image.



Step 7. Name the Claim rule name, and select **Attribute Store > Active Directory**.

Step 8. Map LDAP Attributes, as shown in the image.

- LDAP Attribute > E-Mail-Addresses
- Outgoing Claim Type > E-Mail-Address

Add Transform Claim Rule Wizard

Configure Rule

Steps

- Choose Rule Type
- Configure Claim Rule

You can configure this rule to send the values of LDAP attributes as claims. Select an attribute store from which to extract LDAP attributes. Specify how the attributes will map to the outgoing claim types that will be issued from the rule.

Claim rule name: charella_sma

Rule template: Send LDAP Attributes as Claims

Attribute store: Active Directory

Mapping of LDAP attributes to outgoing claim types:

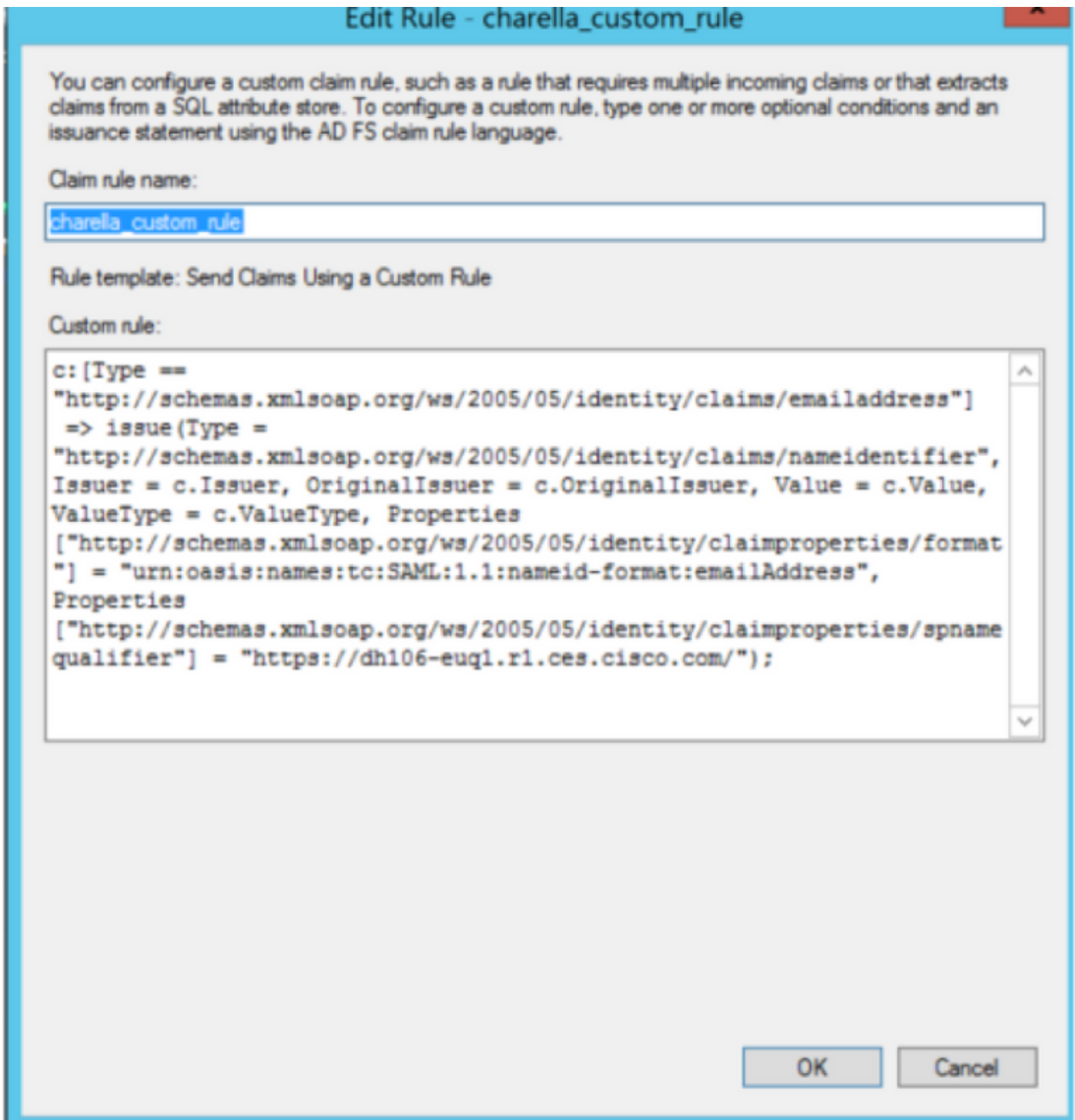
	LDAP Attribute (Select or type to add more)	Outgoing Claim Type (Select or type to add more)
▶	E-Mail-Addresses	E-Mail Address
*		

< Previous Finish Cancel

Step 9. Create a new Custom Claim rule with this information, as shown in the image.

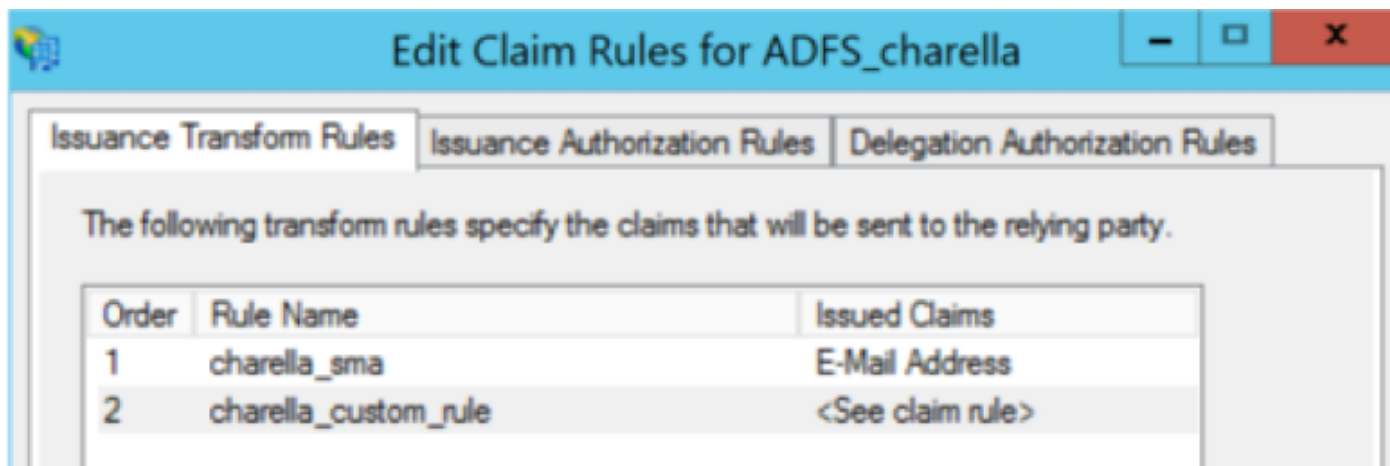
This is the custom rule that needs to be added to the Custom Claim rule:

```
c:[Type == "http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress"] =>
issue(Type = "http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nameidentifier", Issuer =
c.Issuer, OriginalIssuer = c.OriginalIssuer, Value = c.Value, ValueType = c.ValueType,
Properties["http://schemas.xmlsoap.org/ws/2005/05/identity/claimproperties/format"] =
"urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress",
Properties["http://schemas.xmlsoap.org/ws/2005/05/identity/claimproperties/spnamequalifier"] =
"https://<smahostname>:83");
```



- Modify the highlighted URL with the SMA hostname and port (if you are on a CES environment, a port is not required but it must point to euq1.<allocation>.iphmx.com)

Step 10. Ensure that the Claim rule order is: LDAP claim rule first and Custom Claim rule second, as shown in the image.



Step 11. Log in to the EUQ, it must redirect to the ADFS host.

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

Related Information

- [CSCvh30183](#)
- [Technical Support & Documentation - Cisco Systems](#)