



# ACL: Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics

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This feature allows both IPv4 and IPv6 ACLs on the Cisco Catalyst 6500 platform to update the ACL entry statistics with a platform entry count.

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## Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

# Information About ACL: Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics

## ACL--Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics

Each IPv6 and IPv4 ACL entry maintains a global counter per entry for the number of matches applied to the ACL entry. The counters reflect all matches applied to the ACL, regardless of where the match was applied (such as on the platform or in the software feature path). This feature allows both IPv4 and IPv6 ACLs on the Cisco Catalyst 6500 platform to update the ACL entry statistics with a platform entry count.

## How to Configure ACL: Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics

### Configuring ACL Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics

#### SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `ipv6 access-list access-list-name`
4. `hardware statistics`

#### DETAILED STEPS

	Command or Action	Purpose
Step 1	<code>enable</code>  <b>Example:</b> Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> <li>• Enter your password if prompted.</li> </ul>
Step 2	<code>configure terminal</code>  <b>Example:</b> Router# configure terminal	Enters global configuration mode.

	Command or Action	Purpose
<b>Step 3</b>	<b>ipv6 access-list</b> <i>access-list-name</i>  <b>Example:</b> Router(config)# ipv6 access-list outbound	Defines an IPv6 ACL and enters IPv6 access list configuration mode.
<b>Step 4</b>	<b>hardware statistics</b>  <b>Example:</b> Router(config-ipv6-acl)# hardware statistics	Enables the collection of hardware statistics.

## Configuration Examples for ACL: Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics

### Example: Configuring ACL Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics

```
Router# show ipv6 access-list
IPv6 access list name
  permit ipv6 any any sequence 10 (30 matches) (50 hardware)
```

## Additional References

### Related Documents

Related Topic	Document Title
IPv6 addressing and connectivity	<i>IPv6 Configuration Guide</i>
Cisco IOS commands	<a href="#">Cisco IOS Master Commands List, All Releases</a>
IPv6 commands	<i>Cisco IOS IPv6 Command Reference</i>
Cisco IOS IPv6 features	<a href="#">Cisco IOS IPv6 Feature Mapping</a>

**Standards and RFCs**

Standard/RFC	Title
RFCs for IPv6	<i>IPv6 RFCs</i>

**MIBs**

MIB	MIBs Link
	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL:  <a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a>

**Technical Assistance**

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	<a href="http://www.cisco.com/cisco/web/support/index.html">http://www.cisco.com/cisco/web/support/index.html</a>

## Feature Information for ACL: Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

**Table 1: Feature Information for ACL: Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics**

Feature Name	Releases	Feature Information
ACL: Hardware and Software Counters Granularity for IPv4 and IPv6 ACL Statistics	12.2(50)SY	<p>This feature allows both IPv4 and IPv6 ACLs on the Cisco Catalyst 6500 platform to update the ACL entry statistics with a platform entry count.</p> <p>The following commands were introduced or modified: <b>hardware statistics</b>, <b>show ipv6 access-list</b>.</p>

