



IPv6 PACL Support

The IPv6 PACL feature permits or denies the movement of traffic between Layer 3 subnets and VLANs, or within a VLAN.

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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 at the end of this module.

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. An account on Cisco.com is not required.

Prerequisites for IPv6 PACL Support

In order to use the IPv6 port-based access control list (PACL) feature, you must know how to configure IPv6 access lists.

Information About IPv6 PACL Support

IPv6 Port-Based Access Control List Support

The IPv6 PACL feature provides the ability to provide access control (permit or deny) on Layer 2 switch ports for IPv6 traffic. IPv6 PACLs are similar to IPv4 PACLs, which provide access control on Layer 2 switch ports for IPv4 traffic. They are supported only in the ingress direction and in hardware.

A PACL can filter ingress traffic on Layer 2 interfaces based on Layer 3 and Layer 4 header information or non-IP Layer 2 information.

How to Configure IPv6 PACL Support

Configuring PACL Mode and Applying IPv6 PACL on an Interface

Before You Begin

Before you configure the IPv6 PACL feature, you must configure an IPv6 access list. Once you have configured the IPv6 access list, you must configure the port-based access control list (PACL) mode on the specified IPv6 Layer 2 interface.

SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `ipv6 access-list access-list-name`
4. `exit`
5. `interface type number`
6. `ipv6 traffic-filter access-list-name {in | out}`
7. `end`

DETAILED STEPS

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

	Command or Action	Purpose
Step 3	ipv6 access-list <i>access-list-name</i> Example: Device(config)# ipv6 access-list list1	Defines an IPv6 ACL and enters IPv6 access list configuration mode.
Step 4	exit Example: Device(config-ipv6-acl)# exit	Exits IPv6 access list configuration mode and enters global configuration mode.
Step 5	interface <i>type number</i> Example: Device(config)# interface fastethernet 0/0	Specifies an interface type and number and enters interface configuration mode.
Step 6	ipv6 traffic-filter <i>access-list-name</i> { in out } Example: Device(config-if)# ipv6 traffic-filter list1 in	Filters incoming and outgoing IPv6 traffic on an interface.
Step 7	end Example: Device(config-if)# end	Exits interface configuration mode and enters privileged EXEC mode.

Configuration Examples for IPv6 PACL Support

Example: Configuring PACL Mode and Applying IPv6 PACL on an Interface

```
Device# configure terminal
Device(config)# ipv6 access-list list1
Device(config-ipv6-acl)# exit
Device(config)# interface fastethernet 0/0
Device(config-if)# ipv6 traffic-filter list1 in
```

Additional References for IPv6 PACL Support

Related Documents

Related Topic	Document Title
IPv6 addressing and connectivity	<i>IPv6 Configuration Guide</i>

Related Topic	Document Title
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
IPv6 commands	<i>Cisco IOS IPv6 Command Reference</i>
Cisco IOS IPv6 features	Cisco IOS IPv6 Feature Mapping

Standards and RFCs

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

MIBs

MIB	MIBs Link
No new or modified MIBs are supported by this feature, and support for existing MIBs has not been modified by this feature.	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

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.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for IPv6 PACL Support

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. An account on Cisco.com is not required.

Table 1: Feature Information for IPv6 PACL Support

Feature Name	Releases	Feature Information
IPv6 PACL Support		The IPv6 PACL feature permits or denies the movement of traffic between port-based interface, Layer 3 subnets, wireless or wired clients, and VLANs, or within a VLAN. The following command was introduced or modified: ipv6 traffic-filter .

