



# Configuring Switchport Blocking

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This chapter describes how to configure switchport blocking on the Cisco NX-OS device.

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## About Switchport Blocking

Occasionally, unknown multicast or unicast traffic is flooded to a switch port because a MAC address has timed out or has not been learned by the switch. Security issues could arise if unknown multicast and unicast traffic is forwarded to a switch port. You can enable switchport blocking to guarantee that no multicast or unicast traffic is flooded to the port.

## Guidelines and Limitations for Switchport Blocking

Switchport blocking has the following configuration guidelines and limitations:

- Switchport blocking applies only to egress ports while traffic storm control applies only to ingress ports.
- Switchport blocking is supported on all switched ports (including PVLAN ports) and is applied to all VLANs on which the port is forwarding.
- Switchport blocking is not supported for FEX ports.
- When you block unknown multicast or unicast traffic for a port channel, it is blocked on all ports in the port-channel group.
- Switchport blocking does not offer levels of control. It prevents the flooding of all unknown egress multicast or unicast packets on the specified port.
- Switchport blocking drops control packets that originate from the CPU on Cisco Nexus 9500 Series switches. It does not drop packets on Cisco Nexus 9300 Series switches.

# Default Settings for Switchport Blocking

This table lists the default settings for switchport blocking parameters.

**Table 1: Default Switchport Blocking Parameters**

Parameters	Default
Switchport blocking	Disabled

## Configuring Switchport Blocking

By default, the switch floods packets with unknown destination MAC addresses to all ports. To prevent the forwarding of such traffic, you can configure a port to block unknown multicast or unicast packets.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> switch# configure terminal switch(config)#	Enters global configuration mode.
<b>Step 2</b>	<b>interface {ethernet slot/port   port-channel number}</b>  <b>Example:</b> switch# interface ethernet 1/1 switch(config-if)#	Enters interface configuration mode.
<b>Step 3</b>	<b>[no] switchport block {multicast   unicast}</b>  <b>Example:</b> switch(config-if)# switchport block unicast	Prevents the flooding of unknown multicast or unicast packets on the specified interface.  Use the <b>no</b> form of this command to resume normal forwarding on the port.
<b>Step 4</b>	(Optional) <b>show interface [ethernet slot/port   port-channel number] switchport</b>  <b>Example:</b> switch(config-if)# show interface ethernet 1/1 switchport	Displays the switchport blocking configuration.
<b>Step 5</b>	(Optional) <b>copy running-config startup-config</b>  <b>Example:</b> switch(config-if)# copy running-config startup-config	Copies the running configuration to the startup configuration.

## Verifying the Switchport Blocking Configuration

To display switchport blocking configuration information, perform one of the following tasks:

Command	Purpose
<b>show interface switchport</b>	Displays the switchport blocking configuration for all interfaces.
<b>show interface</b> {ethernet <i>slot/port</i>   port-channel <i>number</i> } <b>switchport</b>	Displays the switchport blocking configuration for the specified interface.
<b>show running-config interface</b> [ethernet <i>slot/port</i>   port-channel <i>number</i> ]	Displays the switchport blocking configuration in the running configuration.

## Configuration Example for Switchport Blocking

The following example shows how to block multicast and unicast flooding on Ethernet interface 1/2 and how to verify the configuration:

```
switch# configure terminal
switch(config)# interface ethernet 1/2
switch(config-if)# switchport block multicast
switch(config-if)# switchport block unicast
switch(config-if)# show running-config interface ethernet 1/2
!Command: show running-config interface Ethernet1/2
!Time: Wed Apr 15 16:25:48 2015

version 79.2(1)

interface Ethernet1/2
switchport
switchport block multicast
switchport block unicast
```

