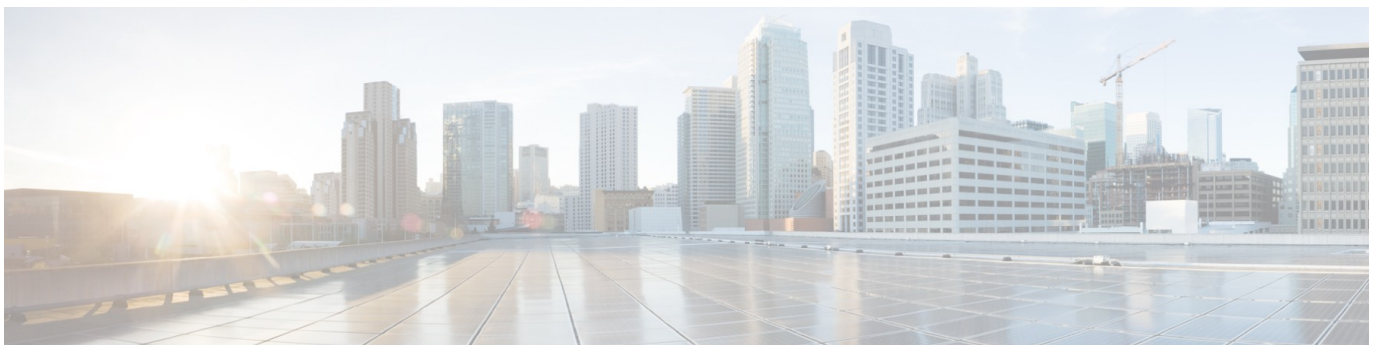


# CISCO Unknown Unicast Flooding Supperssion Software User Guide

[Home](#) » [Cisco](#) » CISCO Unknown Unicast Flooding Supperssion Software User Guide 



## Contents

- [1 Unknown Unicast Flooding Supperssion](#)
- [2 Verifying the Unknown Unicast Flooding Suppression](#)
- [3 Feature Information for Unknown Unicast Flooding Suppression](#)
- [4 Documents / Resources](#)
  - [4.1 References](#)

## Unknown Unicast Flooding Supperssion

This chapter describes how to configure unknown unicast flooding supperssion on the Cisco ASR 1000 Series Routers. This chapter contains these topics:

- About Unknown Unicast Flooding on Bridge Domain, on page 1
- Limitations for Unknown Unicast Suppression, on page 1
- Enabling Unknown Unicast Flooding on Bridge Domain, on page 1
- Feature Information for Unknown Unicast Flooding Suppression, on page 3

### About Unknown Unicast Flooding on Bridge Domain

Occasionally, unknown unicast traffic is flooded to all the provider edge device because the device does not know the destination MAC address of a received packet. By default the unknown unicast traffic will be flooded to all the devices. To prevent forwarding such traffic, you can configure unknown-unicast-suppress Suppress unknown unicast flooding command.

### Limitations for Unknown Unicast Suppression

If the Unknown Unicast Flooding Suppression is on, the unicast traffic towards an unknown host will be dropped. A host becomes unknown or silent when its MAC address ages out from the MAC address table on the PE. The PE might rely on the Unknown Unicast Flooding to re-learn the MAC address.

### Enabling Unknown Unicast Flooding on Bridge Domain

To enable unknown unicast flooding suppression, perform the following steps.



#### Note

By default, the unknown unicast flooding is disabled.

### SUMMARY STEPS

1. configure terminal
2. bridge-domain {interface number}
3. flooding-suppression unknown-unicast
4. end

### DETAILED STEPS

|        | Command or Action                                                                                                | Purpose                                                                |
|--------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Step 1 | configure terminal<br>Example:<br>Router# configure terminal                                                     | Enters global configuration mode.                                      |
| Step 2 | bridge-domain {interface number;<br>Example:<br>Router(config)# bridge-domain 10                                 | 10<br>Configures the bridge domain on the interface.                   |
| Step 3 | flooding-suppression unknown-unicast Example:<br>Router(config-bdmain)# flooding-suppression u<br>nknown-unicast | Enables unknown unicast flooding suppression o<br>n the bridge domain. |
| Step 4 | end Example:<br>Router(config-bdmain)# end                                                                       | (Optional) Returns to privileged EXEC mode.                            |

### Verifying the Unknown Unicast Flooding Suppression

Verify that you have enabled the unknown unicast flooding suppression by entering the following command:  
 Device(config-bdomain)#do show run | sec bridge bridge-domain 10 flooding-suppression unknown-unicast  
 This examples shows the packets that are suppressed and dropped.  
 Device# show pla hard qfp ac fe bridge-domain datapath 1  
 QFP L2BD Bridge Domain information  
 BD id: 1  
 State enabled: Yes  
 Aging timeout (sec) : 300  
 Aging active entry: Yes  
 Max mac limit: 65536  
 Unkwn mac limit flood : Yes  
 mac\_learn\_enabled: Yes  
 mac\_learn\_controlled : Yes  
 Unknown unicast olist : Yes  
 otv\_aed\_enabled : No  
 otv\_enabled : No  
 mcast\_snooping\_enabled : No  
 Feature : evpn, uuf-suppression  
 SISF snoop protocols : arp, ndp, dhcpv4, dhcpv6  
 Mac learned: 0  
 BDI outer vtag: 00000000  
 BDI inner vtag: 00000000  
 Replication tree info:  
 Global replication : depth encode 0X2000001, (head 0X29D3D000)  
 Split-horizon-group 0 : depth encode 00000000, (head 00000000)  
 Split-horizon-group 1 : depth encode 00000000, (head 00000000)

### Bridge Domain statistics

|                              |          |          |
|------------------------------|----------|----------|
| Total bridged                | pkts : 0 | bytes: 0 |
| Total unknown unicast        | pkts : 0 | bytes: 0 |
| Total broadcasted            | pkts : 0 | bytes: 0 |
| Total to BDI                 | pkts : 0 | bytes: 0 |
| Total injected               | pkts : 0 | bytes: 0 |
| Total mac-sec violation drop | pkts : 0 | bytes: 0 |
| Total mac-sec move drop      | pkts : 0 | bytes: 0 |
| Total mac-sec unknown drop   | pkts : 0 | bytes: 0 |
| Total source filter drop     | pkts : 0 | bytes: 0 |
| Total bfib policy drop       | pkts : 0 | bytes: 0 |
| Total replication start drop | pkts : 0 | bytes: 0 |
| Total recycle tail drop      | pkts : 0 | bytes: 0 |
| Total static MAC move drop   | pkts : 0 | bytes: 0 |
| Total BD disabled drop       | pkts : 0 | bytes: 0 |
| Total STP state drop         | pkts : 0 | bytes: 0 |
| Total UUF suppression drop   | pkts : 0 | bytes: 0 |

# Feature Information for Unknown Unicast Flooding Suppression

Table 1: Feature Information for Unknown Unicast Flooding Suppression

| Feature Name                         | Releases                    | Feature Information          |
|--------------------------------------|-----------------------------|------------------------------|
| Unknown Unicast Flooding Suppression | Cisco IOS XE Bengaluru 17.4 | This feature was introduced. |

## Unknown Unicast Flooding Supperssion

### Documents / Resources

|                                                                                   |                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><a href="#">CISCO Unknown Unicast Flooding Supperssion Software</a> [pdf] User Guide</p> <p>Unknown Unicast Flooding Supperssion Software, Unicast Flooding Supperssion Software, Flooding Supperssion Software, Supperssion Software, Software</p> |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### References

- [User Manual](#)