# 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

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**<br>**Example:**<br>`Router(config-bdomain)# flooding-suppression unknown-unicast` | Enables unknown unicast flooding suppression on the bridge domain. |
| **Step 4** | **end**<br>**Example:**<br>`Router(config-bdomain)# end` | (Optional) Returns to privileged EXEC mode. |

# Verifying the Unknown Unicast Flooding Suppression

Verify that you have enabled the unknown unicst 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_controled    : 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. |