Blocking Unknown Unicast Flooding

This chapter contains the following sections:

Information About UUFB

Unknown unicast packet flooding (UUFB) limits unknown unicast flooding in the forwarding path to prevent the security risk of unwanted traffic reaching the Virtual Machines (VMs). UUFB prevents packets received on both vEthernet and Ethernet interfaces destined to unknown unicast addresses from flooding the VLAN. When UUFB is applied, Virtual Ethernet Modules (VEMs) drop unknown unicast packets received on uplink ports, while unknown unicast packets received on vEthernet interfaces are sent out only on uplink ports.

Guidelines and Limitations for UUFB

- Before configuring UUFB, make sure that the VSM HA pair and all VEMs have been upgraded to the latest release by entering the **show module** command.
- You must explicitly disable UUFB on the ports of an application or VM by using MAC addresses other than the one given by .
- Unknown unicast packets are dropped by Cisco UCS fabric interconnects when Cisco UCS is running in end-host-mode.
- On Microsoft Network Load Balancing (MS-NLB) enabled vEthernet interfaces (by entering the **no mac auto-static-learn** command), UUFB does not block MS-NLB related packets. In these scenarios, UUFB can be used to limit flooding of MS-NLB packets to non-MS-NLB ports within a VLAN.

Default Settings for UUFB

Parameters	Default
uufb enable	Disabled
switchport uufb disable	Disabled

Configuring UUFB

Blocking Unknown Unicast Flooding Globally on the Switch

You can globally block unknown unicast packets from flooding the forwarding path for the switch.

Before You Begin

Log in to the CLI in EXEC mode.

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# [**no**] **uufb enable**
3. (Optional) switch(config)# **show uufb status**
4. (Optional) switch(config)# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# **configure terminal**	Enables global configuration mode.
Step 2	switch(config)# [**no**] **uufb enable**	Configures UUFB globally for the VSM.
Step 3	switch(config)# **show uufb status**	(Optional) Displays the UUFB global setting for the VSM.
Step 4	switch(config)# **copy running-config startup-config**	(Optional) Copies the running configuration to the startup configuration.

This example shows how to block unknown unicast flooding globally:

```
switch# configure terminal
switch(config)# uufb enable
switch(config)# show uufb status
```

```
UUFB Status: Enabled
switch(config)# copy running-config startup-config
[########################################] 100%
```

Verifying the UUFB Configuration

Use one of the following commands to verify the configuration:

Command	Purpose
show uufb status	Displays the UUFB global setting for the VSM.
show running-config port-profile *profile-name*	Displays the running configuration for a specific port profile.
show running-config interface *vethernet interface-number*	Displays the running configuration for a specific interface.
vemcmd show port uufb-override	Displays UUFB disable state for each port.

Configuration Example for Blocking Unknown Unicast Packets

This example shows how to block unknown unicast packets from flooding the forwarding path globally for the VSM:

```
n1000v# config terminal
n1000v(config)# uufb enable
n1000v(config)# show uufb status
UUFB Status: Enabled
n1000v(config)# copy running-config startup-config
[########################################] 100%
```

Feature History for UUFB

This table only includes updates for those releases that have resulted in additions to the feature.

Feature Name	Releases	Feature Information
UUFB	5.2(1)SK3(2.1)	This feature was introduced.