



Configuring Multicast VRF-Lite Route Leaking

This chapter describes how to configure Multicast VRF-Lite Route leaking on Cisco NX-OS switches.

This chapter includes the following sections:

- [About Multicast VRF-Lite Route Leaking, on page 1](#)
- [Guidelines and Limitations for VRF-Lite Route Leaking, on page 1](#)
- [Configuring Multicast VRF-Lite Route Leaking, on page 2](#)
- [Verifying the Multicast VRF-Lite Route Leaking Configuration, on page 2](#)
- [Configuration Examples for Multicast VRF-Lite Route Leaking, on page 3](#)
- [Related Documents, on page 3](#)
- [Standards, on page 3](#)
- [Feature History for Multicast VRF-Lite Route Leaking, on page 4](#)

About Multicast VRF-Lite Route Leaking

Beginning with Cisco NX-OS Release 7.0(3)I7(1), multicast receivers can forward IPv4 traffic across VRFs. In the previous releases, multicast traffic could flow within the same VRF.

With multicast VRF-lit route leaking, Reverse Path Forwarding (RPF) lookup for multicast routes in the receiver VRF can be performed in the source VRF. Therefore, traffic originating from the source VRF can be forwarded to the receiver VRF.

When a route processor reloads, multicast traffic across VRFs behaves the same as traffic forwarded within the same VRF.

To support RPF selection in a different VRF, use the **ip multicast rpf select vrf** command.

Guidelines and Limitations for VRF-Lite Route Leaking

VRF-Lite Route Leaking has the following guidelines and limitations:

- VRF-Lite Route Leaking is not supported on the Cisco Nexus 34180YC platform switch.

Configuring Multicast VRF-Lite Route Leaking

Beginning with Cisco NX-OS Release 7.0(3)I7(1), you can configure multicast VRF-lite route leaking, which allows IPv4 multicast traffic across VRFs.

Before you begin

Ensure that you have installed the Enterprises Services license and enable the PIM or PIM6 feature.

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: <pre>switch# configure terminal switch(config)#</pre>	Enters global configuration mode.
Step 2	ip multicast rpf select vrf src-vrf-name group-list Example: <pre>sswitch(config)# ip multicast rpf select vrf red group-list 224.1.1.0/24</pre>	Specifies which VRF to use for RPF lookup for a particular multicast group. To disable the support, use the no form of this command. <i>src-vrf-name</i> is the source VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive. <i>group-list</i> is the group range for the RPF select. The format is A.B.C.D/LEN with a maximum length of 32.
Step 3	(Optional) show ip mroute Example: <pre>switch(config)# show ip mroute</pre>	Shows the running-configuration information for IPv4 multicast routes.
Step 4	(Optional) copy running-config startup-config Example: <pre>switch(config)# copy running-config startup-config</pre>	Saves configuration changes.

Verifying the Multicast VRF-Lite Route Leaking Configuration

To display the multicast extranet configuration information, perform the following task:

Command	Purpose
show ip mroute	Displays the running-configuration information for IPv4 multicast routes.

Configuration Examples for Multicast VRF-Lite Route Leaking

This example shows how to display information about running-configuration for IPv4 multicast routes:

```
switch(config)# show ip mroute
IP Multicast Routing Table for VRF "default"

(*, 225.1.1.207/32), uptime: 00:13:33, ip pim
Incoming interface: Vlan147, RPF nbr: 147.147.147.2, uptime: 00:13:33
Outgoing interface list: (count: 0)

Extranet receiver in vrf blue:
(*, 225.1.1.207/32) OIF count: 1

(40.1.1.2/32, 225.1.1.207/32), uptime: 00:00:06, mrib ip pim
Incoming interface: Vlan147, RPF nbr: 147.147.147.2, uptime: 00:00:06
Outgoing interface list: (count: 0)

Extranet receiver in vrf blue:
(40.1.1.2/32, 225.1.1.207/32) OIF count: 1

switch(config)#
```

For detailed information about the fields in the output from these commands, see the [Cisco Nexus 3000 Series Command Reference](#).

Related Documents

Related Topic	Document Title
CLI commands	Cisco Nexus 3000 Series Command Reference .

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	-

Feature History for Multicast VRF-Lite Route Leaking

Table below lists the release history for this feature.

Table 1: Feature History for Multicast Extranet

Feature Name	Releases	Feature Information
Multicast VRF-lite route leaking	7.0(3)I7(1)	This feature was introduced.