Determining Why a PIM Interface Was Not Created

A PIM interface (pim:if) is created for L3Out interfaces (note that L3Out SVI interfaces are not supported), multicast tunnel interfaces (per VRF), SVI interfaces corresponding to PIM-enabled pervasive BDs, and loopback interfaces on border leafs (each per VRF).

This chapter contains troubleshooting information for situations where the pim:if is not being created. For more information on PIM, see the *Cisco ACI and Layer 3 Multicast with Cisco ACI* and the *Cisco Application Centric Infrastructure Fundamentals* guides.

This chapter contains the following sections:

A PIM Interface Was Not Created For an L3Out Interface

If a PIM interface (pim:If) is not being created for an L3Out interface, confirm the following:

1. PIM is enabled on the L3Out. If PIM is disabled, enable it.
2. If PIM is enabled on the container L3Out, confirm that a multicast l3ext:InstP has been created with "__int_" as a prefixed name. This multicast l3ext:InstP is used to deploy L3Out PIM policies to the switches. There should be one multicast l3ext:InstP per L3Out.

Note

- If a multicast l3ext:InstP exists on the IFC, we can check whether a corresponding fv:RtdEpP is created and deployed on each switch where there is an interface in that L3Out.
- We do not support an L3Out SVI interface for PIM.

A PIM Interface Was Not Created For a Multicast Tunnel Interface

If a PIM interface (pim:if) is not created for a multicast tunnel interface (tunnel:If), confirm the following:

1. The corresponding tunnel:If has been created.

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> **Note**　The tunnel:If should have type "underlay-mcast."

2. Each mcast-enabled VRF has created an mcast tunnel.
3. The destination IP field of the tunnel:If is populated with a valid GIPO address.
4. If the tunnel:If is not populated with a valid GIPO address, check the pim:CtxP on the IFC and the pim:CtxDef on the switches to make sure GIPO is allocated correctly.
5. The source IP of the tunnel:If has the loopback address of an L3Out for BL and "127.0.0.100" for NBL.

A PIM Interface Was Not Created For a Multicast-Enabled Bridge Domain

If a PIM interface (pim:if) is not created for a multicast-enabled bridge domain (BD), confirm the following:

1. The corresponding BD or corresponding Ctx has PIM enabled.
2. The corresponding BD is pervasive.
3. The pervasive BD-based pim:If takes default parameters.

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> **Note**　For interaction with igmp snooping, when PIM is enabled on a pervasive BD, the routing bit should be automatically enabled for the corresponding igmpsnoop:If.