Supporting Third-Party Nodes for Cisco NIR Application

This chapter contains the following sections:

About Third-Party Nodes Support for Cisco NIR Application

The Cisco Network Insights for Resources app in Cisco DCNM provides a way to gather data from third-party nodes through Cisco NIR application. The data is acquired through the third-party collector service using REST based EAPI method calls provided by the collector service.

The following telemetry information is collected from third-party nodes in the fabric:

- Environmental Statistics—This includes monitoring environmental statistics such as CPU, memory, fan, temperature, and power usage, and storage details of the fabric nodes.
- Interface Statistics—This includes monitoring of nodes, interfaces, and protocol statistics on Cisco DCNM and fabric nodes using LLDP and LACP.
- Resource Statistics—This includes monitoring software and hardware resources of fabric nodes on Cisco DCNM using IPv4 unicast, IPv4 multicast, and MAC.

Third-Party Hardware Support for Cisco DCNM

The Cisco NIR app in Cisco DCNM supports Arista 7050SX and 7280SR Series switches.

Third-Party Nodes Limitations for Cisco NIR Application

The following are limitations for third-party nodes for Cisco NIR application.

- The Interface Statistics for LLDP and LACP do not support *Flap Count*, *Entries Aged Count*, and *PDU Timeout Count*.
- The Interface Statistics for MAC do not support local and static endpoints.
- Third-party nodes are supported only on Monitored mode.

Enabling Third-Party Nodes for Data Collection

Adding or removing the third-party nodes from the fabric will generate a control message, which triggers the third-party collector service present in the UTR pipeline to start or stop collecting data from the specific node.

To discover and enable third-party nodes to Cisco DCNM fabric:

- Create an external fabric to discover the third-party nodes, refer to Creating an External Fabric for details.
- To discover the third-party nodes, refer to Discovering New Switches for details.
- Add the third-party nodes to the external fabric, see Adding non-Nexus Devices to External Fabrics for details.

Configuring Third-Party Nodes in Cisco DCNM

Before you begin

Before you begin adding the third-party nodes to the fabric on Cisco DCNM, make sure the following requirement is met:

- You must have administrator credentials for doing the third-party node discovery.

Most of the Interface Statistics data is obtained with out any specific configuration for the third-party nodes. The following configuration is required for collecting port channel and storage statistics.

Step 1 Setup the port channel for LACP. See Port Channel Configuration Procedures for details.

Step 2 Execute the CLI command to collect storage statistics.

```
aaa authorization exec default local
```