



# Cisco Network Insights for Resources Application for Cisco DCNM Release Notes, Release 2.1.2

Cisco Network Insights for Resources (NIR) application consist of a pair of monitoring utilities that can be added to the Cisco Data Center Network Manager (DCNM).

This document describes the features, issues, and limitations for Cisco NIR on the Cisco DCNM.

For more information, see [Related Content](#).

Date	Description
May 7, 2020	Compatibility information for Cisco NIR.
Apr 8, 2020	Compatibility information for Software Telemetry.
Mar 27, 2020	Compatibility information for Cisco NIR.
Mar 16, 2020	Added CSCvr98827 to resolved issues.
Mar 9, 2020	Usage guidelines and limitations.
Feb 18, 2020	Usage guidelines and limitations.
Jan 23, 2020	Release 2.1.2 became available.

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## New Software Features

Feature	Description
UI enhancements	The UI enhancements in this release include cross launch navigation, the addition of top nodes in the dashboard, a fabric overview, and viewing of node details.
Cisco DCNM	Support for Cisco DCNM 11.3(1) release.
PC or vPC interface types	Support for PC or vPC interface types in the Interface Statistics tab.
BGP Statistics Telemetry	Support for BGP operational and statistical data in the Protocol Statistics tab.
Flow Analytics	Flow analytics allows to view flows and flow characteristics in each fabric.
Flow Telemetry	Flow telemetry supports Cisco Nexus EX, FX, and FX2 Series switches.
Third-party switch support	Support for third-party (Arista) nodes to collect data.

## Open Issues

Bug ID	Description	Exists In
<a href="#">CSCvr74947</a>	VPC member links are incorrectly shown if 2 VPC switch pairs have same domain ID and port channel.	2.1.2
<a href="#">CSCvs28382</a>	Flow path may not be able to display all the drops when there is continuous link flaps causing packet loss at more than one node. But the Anomalies section will capture the errors.	2.1.2
<a href="#">CSCvs18720</a>	Endpoint movement Detected anomaly will not have node and interface details in few cases.	2.1.2

## Resolved Issues

Bug ID	Description	Fixed In
<a href="#">CSCvr98827</a>	QoS anomaly is generated for some ports on a spine switch.	2.1.2
<a href="#">CSCvs32122</a>	Port-channel's tx or rx stats will be 0, but the details page will have member interface utilization.	2.1.2
<a href="#">CSCvs33849</a>	Longer IPv6 address breaks legend and top nodes.	2.1.2

## Hardware Requirements

The Cisco NIR application supports Cisco DCNM 11.3(1) release. It is recommended to use the latest Cisco DCNM release.

### Hardware Requirements for Deployments up to 80 Switches and 2000 Flows

Node	Deployment Mode	CPU	Memory	Storage	Network
DCNM	OVA/ISO	16 vCPUs	32G	500G HDD	3xNIC
Computes (x3)	OVA/ISO	32 vCPUs	64G	500G HDD	3xNIC

### Hardware Requirements for Deployments from 81 to 250 Switches and 10000 Flows

Node	Deployment Mode	CPU	Memory	Storage	Network
DCNM	OVA/ISO	16 vCPUs	32G	500G HDD	3xNIC
Computes (x3)	ISO	40 vCPUs	256G	2.4TB HDD	3xNIC*

\* Network card: Quad-port 10/25G

## Compatibility Information

For Cisco NIR on Cisco DCNM compatibility with Day-2 Operations apps, see the [Cisco Day-2 Operations Apps Support Matrix](#).

Software/Hardware	Release
Minimum Cisco NXOS version required for Software Telemetry	7.0(3)I7(6), 7.0(3)I7(7)
Minimum Cisco NXOS version required for Software and Hardware Telemetry	9.3(2), 9.3(3)
Cisco Device supported for Flow Telemetry	Cisco Nexus 9300-EX, -FX, and -FX2 platform switches
Cisco Device supported for Software Telemetry	Cisco Cloud Scale ASIC devices
Cisco Device not supported for Software Telemetry	<ul style="list-style-type: none"> <li>■ Cisco Nexus 9300-GX, 9300-FX3, 9700-GX, and 9700-FX3 platform switches</li> <li>■ Cisco N3K-C3408-S, N3K-C3432D-S, N3K-C34200YC-SM, N3K-34180YC, and N3K-3464C switches</li> </ul>

Arista EOS	4.21
Arista Device Supported	Arista 7050SX and 7280SR Series switches

Note: Flow Telemetry data will consume 6MB for 10K IPv4 flows per node.

Note: Flow Telemetry data will consume 12MB for 10K IPv6 flows per node.

## Verified Scalability Limits

Software/Hardware	Number
Number of nodes supported for Hardware and Software Telemetry	250
Number of flows supported for Hardware Telemetry	10000

## Usage Guidelines and Limitations

This section lists the usage guidelines and limitations for Cisco NIR:

- The Cisco NIR application requires that physical servers hosting Cisco DCNM computes as VMs are atleast Cisco C220-M4 category. It is also required that a compute be hosted on a data store with a dedicated hard disk of atleast 500GB. See [Hardware Requirements](#).
- If Strict Config Compliance (SCC) is enabled in a fabric, you can not deploy Cisco NIR on Cisco DCNM.
- Telemetry for hardware TCAM utilization, such as forwarding TCAM and ACL TCAM are not supported on Cisco Nexus C9504, C9508, and C9516 Series platforms.
- Upgrade from Cisco NIR 2.0.x to Cisco NIR 2.1.1, Cisco NIR 2.1.2 App on Cisco DCNM 11.3(1) is not supported.
- Upgrade from Cisco NIR 2.1.1 to Cisco NIR 2.1.2 App on Cisco DCNM 11.3(1) is not supported.

## Related Content

The Cisco NIR documentation can be accessed from the following website:

<https://www.cisco.com/c/en/us/support/data-center-analytics/network-insights-resources/model.html>

The documentation includes installation, upgrade, configuration, programming, and troubleshooting guides, technical references, and release notes, as well as other documentation.

Document	Description
Cisco NIR Application for the Cisco DCNM Release Notes	This document.
Cisco NIR Application for the Cisco DCNM User Guide	Describes how to download, install, and set up Cisco NIR in Cisco DCNM.

## Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, send your comments to [cisconetworkinsights-docfeedback@cisco.com](mailto:cisconetworkinsights-docfeedback@cisco.com).

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