



Cisco Network Insights for Resources Application for Cisco Data Center Network Manager Release Notes, Release 2.0.2

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
Apr 8, 2020	Compatibility information for Software Telemetry.
Mar 27, 2020	Compatibility information for Cisco NIR.
Aug 13, 2019	Release 2.0.2 became available.

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New Software Features

Feature	Description
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Bug Fixes	The feature set is unchanged for this release.
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Open Issues

Bug ID	Description	Exists In
CSCvq54362	NIR graphs in dashboard pages display no data at end of the time slot for the selected time range.	2.0.2

Resolved Issues

Bug ID	Description	Fixed In
CSCvn42171	After deleting an app in APIC GUI, installing a new version and enabling it, the About window continues to show the older version of the app, even if browser window is refreshed. The correct version is displayed upon clearing the browser cache (or using a different browser).	2.0.2

Cisco Network Insights for Resources

The Network Insights for Resources (NIR) application provides a way to gather resource information through data collection to get an overview of available resources and their active processes and configurations across the entire Cisco DCNM.

The Cisco NIR application consists of the following components:

- **Data Collection**—The streaming of telemetry data is done by using software or hardware agents in the fabric devices. As each data source is different and the format in which data is streamed is different, there are corresponding "collectors" running Analytics that translate the telemetry events from the devices into data records to be stored in the data lake. The data stored in the data lake is a format that the analytics pipeline can understand and work upon. (The 2.0.1 release supports only software streaming telemetry.)
- **Resource and Environmental Utilization**—Resource analytics supports configuration, operational and hardware resources. Environmental covers CPU, memory, temperature, and fan speed, storage, power, and DOM levels related to the leaf switches. System analytics also covers, Anomalies, and trending information of each resource and graphing of parameters which help Network operators to debug over periods of time.
- **Predictive Analytics and Correlation**—The value-add of this platform is predicting failures in the fabric and correlating internal fabric failures to the user-visible/interested failures.

Hardware Requirements

This section describes the Cisco DCNM LAN deployment requirements for Cisco NIR software telemetry. A DCNM-native HA deployment is recommended.

Hardware Requirements for Deployments up to 80 Switches

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

Hardware Requirements for Deployments from 81 to 250 Switches

Node	Deployment Mode	CPU	Memory	Storage	Network
DCNM	OVA/ISO	16 vCPUs	32G	500G HDD	3xNIC
Computes (x3)	ISO	32 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	9.2(2)
Cisco Device supported for Software Telemetry	Cisco Cloud Scale ASIC devices

Verified Scalability Limits

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

Usage Guidelines and Limitations

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

- Telemetry for hardware TCAM utilization, such as forwarding TCAM and ACL TCAM are not supported on Cisco Nexus C9504, C9508, and C9516 Series platforms.

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.

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