



Cisco Network Insights for Resources Application for Cisco Data Center Network Manager Release Notes, Release 2.1.1

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.
Mar 16, 2020	Added CSCvr98827 to open issues.
Mar 9, 2020	Usage guidelines and limitations.
Jan 30, 2020	Added compatibility support for Cisco DCNM 11.3(1).
Dec 13, 2019	Added support for Cisco NXOS and Cisco device.
Dec 10, 2019	Flow Telemetry does not support Cisco Nexus X9732C-EX line card.
Dec 4, 2019	Release 2.1.1 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
CSCvr74947	VPC member links are incorrectly shown if 2 VPC switch pairs have same domain ID and port channel.	2.1.1
CSCvr98827	QoS anomaly is generated for some ports on a spine switch.	2.1.1
CSCvs28382	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.	2.1.1
CSCvs18720	Endpoint movement Detected anomaly will not have node and interface details in few cases.	2.1.1
CSCvs32122	Port-channel's tx or rx stats will be 0, but the details page will have member interface utilization.	2.1.1
CSCvs33849	Longer IPv6 address breaks legend and top nodes.	2.1.1

Resolved Issues

Bug ID	Description	Fixed In
CSCvg54362	NIR graphs in dashboard pages display no data at end of the time slot for the selected time range.	2.1.1

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

Hardware Requirements for Cisco NIR on Cisco DCNM

Feature	Hardware
Flow Telemetry	The following series switches are supported: <ul style="list-style-type: none">■ Cisco Nexus 9300-EX, -FX, and -FX2 platform switches

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 Software Telemetry	Cisco Cloud Scale ASIC devices
Arista EOS	4.21

Arista Device Supported	Arista 7050SX and 7280SR Series switches
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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 at least Cisco C220-M4 category. It is also required that a compute be hosted on a data store with a dedicated hard disk of at least 500GB. See [Hardware Requirements](#).
- 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 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.

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