



Cisco Network Insights for Resources Application for Cisco APIC Release Notes, Release 2.1.2

Cisco Network Insights for Resources (NIR) application consist of a monitoring utility that can be added to the Cisco Application Policy Infrastructure Controller (APIC).

This document describes the features, issues, and limitations for Cisco NIR on Cisco Application Services Engine with Cisco APIC.

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

Date	Description
June 4, 2020	Recommended scale for Cisco NIR installed on Cisco Application Services Engine.
Mar 27, 2020	Compatibility information for Cisco NIR.
Mar 16, 2020	Added CSCvr98827 to resolved issues.
Mar 5, 2020	Cisco APIC cluster usage guidelines.
Feb 26, 2020	Hardware requirements for Cisco Network Insights Resources.
Feb 20, 2020	Usage guidelines and limitations.
Jan 23, 2020	Release 2.1.2 became available.

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New Software Features

Feature	Description
Endpoint Analytics	<p>The Endpoint Analytics provides detailed analytics of endpoints learnt in the fabric. The anomalies detected as part of endpoint analytics include duplicate IP address, rapid endpoint moves across nodes, interface, and endpoint groups, and endpoints that do not get learnt back after a reboot.</p> <p>Note: In this release, Endpoint Analytics feature is in Early Access Mode. This feature is supported in Cisco APIC 4.2(3n) onwards. See the User Guide on how to enable the Early Access Mode.</p>
Anomaly Details enhancement	Support for Diagnostics, Recommendation, and Impact for Interface Anomalies.
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.
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 Telemetry enhancements	Support for Cisco Nexus FX, FX2, and EX switches.

Open Issues

This section lists the open issues in this release. Click the bug ID to access the Bug Search tool and see additional information about the caveat. The “Exists In” column of the table specifies the releases in which the issue exists.

Bug ID	Description	Exists In
CSCvq67327	A reboot of Cisco Application Services Engine could result in 10 to 15 minutes of telemetry data loss.	2.1.2
CSCvs24988	Workloads affected due interface errors or flaps are not reported.	2.1.2
CSCvs29589	After cluster contract and expansion kafka fails to start.	2.1.2
CSCvr99110	Collection status reports health incorrectly even though one of the pipeline has failed.	2.1.2
CSCvs44367	Flow analytics does not work as expected after modifying BD, VRF for EPG.	2.1.2

CSCvs44043	BD label is zero in leaf switch after policy upgrade to release 3.2(8d).	2.1.2
CSCvs44224	Flow analytics does not work as expected after changing the fabric in-band ip address.	2.1.2

Resolved Issues

This section lists the resolved issues in this release. Click the bug ID to access the Bug Search tool and see additional information about the caveat. The "Fixed In" column of the table specifies whether the issue was resolved in the base release or a patch release.

Bug ID	Description	Fixed In
CSCvr98827	QoS anomaly is generated for some ports on a spine switch.	2.1.2
CSCvs22578	Controller or Spine or Leafs tiles are displaying all nodes in dashboard top Nodes section.	2.1.2

Known Issues

Bug ID	Description	Exists In
CSCvs10785	Cisco NIR app will not distinguish read only user when NIR app installed with APIC on FMR7.	2.1.2

Hardware Requirements

This table describes the Cisco APIC LAN deployment requirements for Cisco NIR software telemetry. Cisco NIR installed in Cisco APIC cluster does not support flow telemetry.

Hardware	Cisco NIR installed in Cisco Application Services Engine cluster connected to Cisco ACI fabric	Cisco NIR installed in Cisco APIC cluster
APIC-CLUSTER-M1	Yes	No
APIC-CLUSTER-M2	Yes	No
APIC-CLUSTER-M3	Yes	Yes (Maximum 30 ACI fabric nodes)
APIC-CLUSTER-L1	Yes	No
APIC-CLUSTER-L2	Yes	No
APIC-CLUSTER-L3	Yes	Yes (Maximum 30 ACI fabric nodes)

In the Lab environment you can install Cisco NIR app on APIC-CLUSTER-M1/M2 or APIC-CLUSTER-L1/L2. We do not recommend installing Cisco NIR app on APIC-CLUSTER-M1/M2 or APIC-CLUSTER-L1/L2 in the production environment.

Compatibility Information

For Cisco NIR on Cisco APIC and Cisco NIR on Cisco Application Services Engine compatibility with Day-2 Operations apps, see the [Cisco Day-2 Operations Apps Support Matrix](#).

Software	PID
Cisco Device supported for Software Telemetry	Cisco Nexus 9000 Series switches
Cisco Application Services Engine cluster	SE-CL-L3
Cisco Device supported for Flow Telemetry	<p>The following series switches and line cards are supported:</p> <ul style="list-style-type: none"> ■ Cisco Nexus 9300-EX, -FX, -FX2, and 9500 platform switches ■ Cisco Nexus X9732C-EX line card

Recommended Scale for Cisco NIR Installed on Cisco Application Services Engine

Software/Hardware	Number
Number of ACI nodes (includes ACI switches and APIC)	100
Number of flows supported in Flow Analytics	10000

Usage Guidelines and Limitations

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

- A Cisco APIC cluster must have a minimum of 3 APICs. Cisco NIR is not supported on single APIC.
- You have to configure telemetry in the Cisco NIR app to configure for fabric node control.
- Upgrade from Cisco NIR 2.0.x to Cisco NIR 2.1.2 App is not supported for Cisco NIR installed on Cisco APIC.
- Upgrade from Cisco NIR 2.1.1 to Cisco NIR 2.1.2 App is supported for Cisco NIR installed on Cisco APIC.
- Upgrade from Cisco NIR 2.1.1 to Cisco NIR 2.1.2 App is not supported for Cisco NIR installed on Cisco Application Services Engine.

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 Network Insights for Resources Application for the Cisco APIC Release Notes	This document.
Cisco Network Insights for Resources Application for the Cisco APIC User Guide	Describes how to download, install, and set up Cisco NIR in Cisco APIC.

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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