Cisco Network Insights for Resources Application for Cisco Application Policy Infrastructure Controller Release Notes, Release 2.1.1

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
Mar 27, 2020	Compatibility information for Cisco NIR.
Mar 16, 2020	Added CSCvr98827 to open issues.
Mar 5, 2020	Cisco APIC cluster usage guidelines.
Feb 26, 2020	Hardware requirements for Cisco Network Insights Resources.
Dec 18, 2020	Added CSCvs44367, CSCvs44043, and CSCvs44224 caveats to Open Caveats.
Dec 4, 2019	Release 2.1.1 became available.

Contents

- [Documentation Feedback](#)
- [Legal Information](#)

New Software Features

Feature	Description
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.
Endpoint Analytics	The Endpoint Analytics for Cisco NIR App available as beta in release 2.0.2 is not available in this release.

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.	2.1.1
[CSCvs24988](#)	Workloads affected due interface errors or flaps are not reported.	2.1.1
[CSCvs29589](#)	After cluster contract and expansion kafka fails to start.	2.1.1
[CSCvs22578](#)	Controller or Spine or Leafs tiles are displaying all nodes in dashboard top Nodes section.	2.1.1
[CSCvr98827](#)	QoS anomaly is generated for some ports on a spine switch.	2.1.1
[CSCvr99110](#)	Collection status reports health incorrectly even though one of the pipeline has failed.	2.1.1
[CSCvs44367](#)	Flow analytics does not work as expected after modifying BD, VRF for EPG.	2.1.1
[CSCvs44043](#)	BD label is zero in leaf switch after policy upgrade to release 3.2(8d).	2.1.1

CSCvs44224	Flow analytics does not work as expected after changing the fabric in-band ip address.	2.1.1

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
CSCvq54362	NIR graphs in dashboard pages display no data at end of the time slot for the selected time range.	2.1.1
CSCvq65904	When multiple flow paths are reported in NIR Flow Analytics, NIR will capture flow path data before, during, and after node reload.	2.1.1
CSCvq80846	No telemetry data displayed in NIR app after Cisco Application Services Engine nodes upgrade.	2.1.1

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.	2.1.1

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
Device supported for Flow Telemetry	The following series switches and line cards are supported: ■ Cisco Nexus 9300-EX, -FX, -FX2, and 9500 platform switches ■ Cisco Nexus X9732C-EX line card

Verified Scalability Limits

Software/Hardware	Number
Number of nodes supported for Cisco NIR for Hardware and Software Telemetry	100
Number of flows supported for Software Telemetry	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.

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.

Legal Information

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.