Cisco Nexus Insights Release Notes, Release 5.0.1 – for ACI

Contents

Cisco Nexus Insights (NI) application consist of a monitoring utility that can be added to the Cisco Application Centric Infrastructure (ACI).

This document describes the features, issues, and limitations for Cisco Nexus Insights (NI) on Cisco Nexus Dashboard.

For more information, see Related Content

Note: The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Date	Description
January 14, 2021	Updated the scale limits in the Verified Scalability Limits section.
December 22, 2020	Release 5.0(1) became available.

New Software Features

Feature	Description
Cisco Nexus Dashboard support	Cisco Nexus Insights app can be deployed as a service on Cisco Nexus Dashboard.
Multi-Site	Monitor multiple sites with single instance of Cisco Nexus Insights.
UI enhancements	Improved design with a streamlined tabbed layout, enhanced options for selecting a time range, centralized summary of sites with All Sites Dashboard, detect and indicate when features are not supported by a node.
Cisco Nexus Insights app unification	Integrating Cisco NIR and Cisco NIA apps into Cisco NI app to get anomalies, advisories, and functionalities such as scheduling log collection jobs, scheduling bug scan and compliance jobs, firmware upgrade paths, and recommendations for upgrade versions. It also includes in-depth analysis work flows for advisories and anomalies.
Topology View	Visualize logical constructs such as Tenant, VRF, EPG and more on top of physical topology. Perform rapid troubleshooting using filters to focus on problematics nodes.
Cisco Nexus Insights Independence	Cisco NI app collects the node capabilities to determine and display the features supported and features not supported for each node on the site.
Micro-Burst detection	Expose and locate invisible microbursts. Know the congestion hot spots and protect application performance.
Cisco ACI 3-Tier support	Monitor Cisco ACI multi-tier topology with Cisco Nexus Insights features and functions.
Flow Telemetry Events	Use flow table events to minimize troubleshooting time through automated root-cause analysis of data plane anomalies, such as routing issues, ACL drops, buffer drops and more.
Kafka messaging support	Share Cisco Nexus Insights enriched value-added output with application ecosystem. Build synergetic workflows with third party IT applications.

Feature	Description
Email notification support	Get offline alerts about network health using email notification facility. Pick and choose which issues you need to be alerted about.
PSIRT notification and Defect notification	Detect vulnerability exposure with PSIRT scan. Detect exposure to known defects with defect scan.
Resources	Monitor capacity utilization changes and threshold violations with resource anomalies.
Statistics	View control plane, data plane statistics, detect control plane and data plane anomalies.
Support for Cisco Nexus 9300-GX series switches	Monitor your high performance, scalable data center with support for Cisco Nexus 9300-GX series 400 GE platform 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
CSCvr32097	LLDP transmit receive packets statistics graph displays the same values regardless of the selected time range.	5.0(1)
CSCvu84352	Bug scan borg partial failure in a resource intensive scale environment.	5.0(1)
CSCvv77014	Cisco NIA allows onboarding of third party sites without any devices being discovered.	5.0(1)
CSCvv75183	Flow resource type anomalies are not exported to external kafka server.	5.0(1)
CSCvv92188	In the Flow analytics details page, path information might not display spine node in the traffic path.	5.0(1)
CSCvv31284	External EPG name is not reported in Cisco Nexus Insights app even though the subnet is specified.	5.0(1)
CSCvv98126	Endpoint is reported as aged-out with the older BD information.	5.0(1)
CSCvw03719	Rogue IP anomaly is not raised for every leaf switch.	5.0(1)
CSCvw03821	Rogue IP anomaly is not cleared.	5.0(1)
CSCvw11059	The EX tier-1 leaf switch is not stitched in the flowpath.	5.0(1)
CSCvw18729	Navigating from an interface down anomaly might sometimes take you to the interface details with the wrong time range so it will show the reported anomaly on the interface detail.	5.0(1)
CSCvv92188	In the Flow analytics details page, path information might not display spine node in the traffic path.	5.0(1)
CSCvv24554	Microburst Anomaly's description field does not contain class and type of traffic information.	5.0(1)

Bug ID	Description	Exists In
CSCvv31282	If there is single chip spine in the flow path then it is not reported in the flow path summary.	5.0(1)
CSCvw03887	In flow analytics the health score on the flow records is displayed as healthy even when ingress flow records are not available.	5.0(1)
CSCvw05400	After reaching the 500 flows limit, any extra flows will not be reported. These un-programmed extra flows will not be reported even when we delete few of the programmed flows.	5.0(1)
CSCvw24739	In flow analytics page, PC and vPC interface ID are displayed instead of port name.	5.0(1)
CSCvw33541	The creation time for the 'Leaf Inactive' Fault is incorrect in the Cisco NI app GUI.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.1, 15.1.2
CSCvw64159	Multiple operational anomalies are reported for same resource.	5.0(1)
CSCvw34999	When we enable and disable multicast (PIM) on a BD, the IGMP IFstats MO is not cleared and is displayed as a blank entry in Cisco NI.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.1
CSCvw36415	Spine switches s are not reported in flow analytics after VRF, BD, EPG change.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.1
CSCvw26969	Flow Telemetry is not exported for IPv6 rules for tier-1 leaf switches.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.1
CSCvw62454	After you disable and enable the Cisco NI App, spine switches does not export flows.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.1, 15.1.2
CSCvw61611	Spine switches does not report the flows to NI collector.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.1, 15.1.2

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
CSCvv09818	Cisco NIR software telemetry statistics are not populated in GUI when cisco APIC cluster time is off by hours.	5.0(1)
CSCvu99008	L3 endpoints behind vPC port channel may be not visible in the Endpoint Analytics Browse page when the vPC port channel is down.	5.0(1)
CSCvu98645	L3 endpoints are not visible in NIR app's Endpoint Analytics Browse page.	5.0(1)

Bug ID	Description	Fixed In
CSCvu43471	Shared services flow records are not exported in -FX, -FX2 -GX spine switches.	5.0(1)
CSCvu86618	LLDP neighbor information is not displayed in the Protocols Detail page.	5.0(1)
CSCvu00248	Latency information is not displayed in the Flow Analytics Browse page.	Cisco Nexus 9000 ACI-Mode Switches Release 14.2(4o)
CSCvu83542	The operational status of a few interfaces is not reported correctly in NIR app Interface Browse page after upgrading Cisco APIC.	5.0(1)
CSCvu56914	**pimIfStats** and **igmpIfSats** are not deleted after **pimIf** interfaces are deleted.	Cisco APIC Release 5.0(1l), 4.2(40)
CSCvu76397	Protocol data mismatch between switch and NIR app.	Cisco APIC Release 5.0(1l), 4.2(40), 5.0(2e)
CSCvu60561	Few nodes in the fabric are not displayed on System Configuration Resource page.	Cisco APIC Release 5.0(1l)
CSCvu56537	Precision Time Protocol (PTP) process crash anomaly is not displayed in NIR app.	Cisco APIC Release 5.0(1l)
CSCvu23105	Some endpoints may not be visible in Endpoint Analytics Dashboard in Cisco NIR after the policy upgrade of Cisco Application Services Engine nodes is completed.	Cisco APIC Release 5.0(1l)
CSCvu10552	Endpoint rogue anomaly is raised for one instance while it is reoccurring every 30 minutes.	Cisco APIC Release 5.0(1l)
CSCvu72947	Few PIM Doms multicast protocols are displayed as disabled in the NIR app while they are enabled.	Cisco APIC Release 5.0(1l)
CSCvu62256	Endpoint status is displayed as active after rebooting a leaf switch.	Cisco APIC Release 5.0(1l)
CSCvu11543	NIR shows very high number of MAC Endpoints on nodes that are part of Endpoint move.	Cisco Nexus 9000 ACI-Mode Switches Release 14.2(4o) and 15.0(1l)
CSCvu07676	Interface observer statistics query fails to return data in Cisco Nexus 9300-FX2 platform switches and Cisco Nexus 9700-FX2 line cards.	All releases of Cisco Nexus 9000 ACI-Mode Switches
CSCvs95691	Some fixed bugs may appear under the advisory details section of the Call TAC advisory.	5.0(1)
CSCvv09818	Cisco NIR software telemetry stats are not populated in UI when Cisco APIC cluster time is off by hours.	5.0(1)

Compatibility Information

For Cisco NI on Cisco ACI and Cisco NI on Cisco Nexus Dashboard compatibility with Day-2 Operations apps see the Cisco Data Center Networking Applications Compatibility Matrix.

Software	Release/PID
Cisco Device supported for Software Telemetry	Cisco Nexus 9000 Series switches
Cisco Nexus Dashboard cluster	SE-CL-L3
Minimum Intersight Device Connector version on Cisco Nexus Dashboard	1.0.9-461
Cisco Device supported for Flow Telemetry	Cisco Nexus 9300-EX, -FX, -FX2, -GX, and 9500 platform switches with EX, FX line cards
AppDynamics APM	4.5

Verified Scalability Limits

Software/Hardware	Scale Limits
Number of ACI fabrics	8
Number of ACI nodes (includes ACI switches)	500
Number of flows supported in Flow Analytics	20000
Maximum support for a 3-node Cisco Nexus Dashboard cluster	Fabric with 50 nodes, 60000 Endpoints, and 10000 Flows
Maximum support for a 4-node Cisco Nexus Dashboard cluster	Fabric with 100 nodes, 60000 Endpoints, and 10000 Flows
Maximum support for a 6-node Cisco Nexus Dashboard cluster	Fabric with 500 nodes, 60000 Endpoints, and 20000 Flows

Usage Guidelines and Limitations

This section lists the usage guidelines and limitations for Cisco NI app:

- Cisco NI 5.0(1) app supports Cisco ACI 3-Tier architecture for Software Telemetry and Flow Telemetry.
- Cisco NI 5.0(1) app downgrade is not supported.
- When the Device Connector is unclaimed from the on-premise GUI application, the Device Connector must be unclaimed from Intersight for TAC Assit's connected TAC functionality to work.
- You have to configure telemetry in the Cisco NI app to configure for fabric node control.
- After modifying a bridge domain or VRF instance for an EPG, the flows show errors and flow analytics does not work as expected.

Related Content

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

https://www.cisco.com/c/en/us/support/data-center-analytics/nexus-insights/series.html

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

Document	Description
Cisco Nexus Insights Release Notes for Cisco ACI	This document.
Cisco Nexus Insights User Guide for Cisco ACI	Describes how to download, install, and set up Cisco NI app.

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, send your comments to ciscodcnapps-docfeedback@cisco.com.

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