



Cisco Nexus Insights Release Notes, Release 5.1.0 – For Cisco ACI

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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
June 10, 2021	Release 5.1(0) patch (5.1.0.135) became available.
April 27, 2021	Release 5.1(0) (5.1.0.131) 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 problematic 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. Microburst is supported on APIC release 5.1(1) and later.
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.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvv75183	Flow resource type anomalies are not exported to external kafka server.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvv98126	Endpoint is reported as aged-out with the older BD information.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvw03719	Rogue IP anomaly is not raised for every leaf switch.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvw03821	Rogue IP anomaly is not cleared.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
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.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvv24554	Microburst Anomaly's description field does not contain class and type of traffic information.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvv31282	If there is single chip spine in the flow path then it is not reported in the flow path summary.	5.1(0) and 5.1(0) patch (5.1.0.131 and

Bug ID	Description	Exists In
		5.1.0.135)
<u>CSCvww03887</u>	In flow analytics the health score on the flow records is displayed as healthy even when ingress flow records are not available.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvww05400</u>	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.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvww24739</u>	In flow analytics page, PC and vPC interface ID are displayed instead of port name.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvww64159</u>	Multiple operational anomalies are reported for same resource.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvww33541</u>	The creation time for the 'Leaf Inactive' Fault is incorrect in the Cisco NI app GUI.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.2
<u>CSCvwx67265</u>	Bug scan fails resulting in BORG error.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvwx52514</u>	When the Infrastructure is down, the job termination action cannot be completed and results in some Bug Scan jobs to be in the "in-progress" state.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvwx56156</u>	In the Nexus Insights setup page, clicking the Prerequisites checkbox resets the Early Access Mode toggle.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvwx58005</u>	When you start a bug Scan, the History table is not updated and the Scan Now button is not disabled.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvt68195</u>	L3 Multicast control plane data is not supported for Remote Leaf in Cisco NIR.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvwx69166</u>	Some IPv6 traffic will not be reported to telemetry collectors.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.3, 15.1.4
<u>CSCvwx79653</u>	Metadata update task is not scheduled on app startup if the fabric is not enabled.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
<u>CSCvwx80000</u>	When you onboard a new site to Nexus Dashboard, the site does not appear in Nexus Insights UI.	5.1(0) and 5.1(0) patch (5.1.0.131 and

Bug ID	Description	Exists In
		5.1.0.135)
CSCvx91483	ACI FN-72145 is displayed for switch running standalone NX-OS in DCNM fabric.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvy09409	Internal database system experienced out of memory . Streaming data will not be retrieved or saved after and during the time internal database component recovers completely and becomes stable.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)

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
CSCvu84352	Bug scan borg partial failure in a resource intensive scale environment.	5.1(0) (5.1.0.131)
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 15.1.2
CSCvw36415	Spine switches s are not reported in flow analytics after VRF, BD, EPG change.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.2
CSCvw26969	Flow Telemetry is not exported for IPv6 rules for tier-1 leaf switches.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.2
CSCvw62454	After you disable and enable the Cisco NI App, spine switches does not export flows.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.2
CSCvw61611	Spine switches does not report the flows to NI collector.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.2
CSCvx44548	Collection Status for flows and endpoints is reported as "Feature not supported" in the GUI.	5.1(0) patch (5.1.0.135)
CSCvy12530	When leaf switch becomes inactive because of unreachability both node reload and node inactive anomaly are raised though only node inactive anomaly is expected.	5.1(0) patch (5.1.0.135)
CSCvy21148	In the System Status page, when you use the filter, some options do not display the results accurately.	5.1(0) patch (5.1.0.135)
CSCvy28882	AppD stdout / stderr logs are copied to /opt/telegraf/log/ in the telegraf container. and are not log rotated. As a result, over a period, storage space may run out in telegraf and AppD data collection process potentially gets stuck.	5.1(0) patch (5.1.0.135)

Bug ID	Description	Fixed In
CSCvv22244	Even when the switches are streaming flow information, flows are not processed and no flows are visible in the UI.	5.1(0) patch (5.1.0.135)
CSCvv13665	Time Window sets incorrect date when the user modifies the date and time.	5.1(0) patch (5.1.0.135)

Known Issues

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

Bug ID	Description	Exists In
CSCvv77014	Cisco NIA allows onboarding of third party sites without any devices being discovered.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvv31284	External EPG name is not reported in Cisco Nexus Insights app even though the subnet is specified.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvv11059	The EX tier-1 leaf switch is not stitched in the flowpath.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)
CSCvv92188	In the Flow analytics details page, path information might not display spine node in the traffic path.	5.1(0) and 5.1(0) patch (5.1.0.131 and 5.1.0.135)

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	1.0.9-737
Cisco Device supported for Flow Telemetry	Cisco Nexus 9300-EX, -FX, -FX2, -GX, and 9500 platform switches with EX, FX line cards
Minimum Cisco APIC version required for FTE and Micro-Burst	5.1(1h)

Software	Release/PID
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 5.1(0) 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.
- For virtual Nexus Dashboard (vND), you must provision the underlying HOST with Distributed Virtual Switch and not with a Standard Virtual Switch.
- If you are deploying Multi-Site Orchestrator, Nexus Insights, and Network Assurance Engine in the same cluster, you must ensure that Nexus Insights and Network Assurance Engine are installed and enabled first before enabling the Multi-Site Orchestrator application.

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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