Cisco Nexus Dashboard Insights Release Notes, Release 6.4.1- for Cisco ACI

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Cisco Nexus Dashboard Insights (Nexus Dashboard Insights) service provides assurance, advisory, troubleshooting capabilities to address the operational needs of networks in a data center.

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

For more information, see the “Related Content” section of this document.

Date	Description
March 7, 2024	Release 6.4.1.45 became available.

New Software Features

Product Impact	Feature	Description
Base Functionality	Panduit integration	Panduit Power Distribution Unit (PDU) Integration in Nexus Dashboard Insights enables you to monitor energy usage and unlock sustainability insights for sites and individual devices connected to a Panduit PDU.
	Multi-cluster view	You can consolidate multiple Nexus Dashboard clusters into a single Global View.
	Time range selection	You can now select a time range in the Site View.
	LACP/PIM/IGMP/IGMP-Snooping, and OSFP protocol support	LACP, PIM, IGMP, IGMP-Snooping, and OSPF protocols for switches are now supported.
	New Bug Scan in Analysis Hub	You can now view the active and susceptible bugs affecting your network after the Bug Scan is completed in Analysis Hub.
	Real-time telemetry (interfaces, hardware stats and more)	Real Time Visualization (RTEV) feature facilitates real-time event rendering within a user interface (UI) environment.
Ease of Use	Compliance rule description and custom recommendations	You to now add a custom description when a compliance rule is created.
	Health resource enhancements in Delta Analysis	Delta Analysis now performs an object delta rather than a count delta. So along with the count, you can now view how many anomalies were cleared, how many are unchanged and how many are new anomalies.
	Compliance report new UI	A new user experience for easier visibility of communication and configuration compliance.
Performance and Scalability	Connectivity Analysis improved job times	The time taken by the connectivity analysis jobs in Nexus Dashboard Insights has been reduced.
	Large file support for Bug Scan	Support for large files for Bug Scan.
	1-node Nexus Dashboard support for Insights	This release supports 1-node physical Nexus Dashboard cluster for Insights.
	Increased scalability for NDI co-hosted with NDFC in a 3 node pND	NDI co-hosted with NDFC in a 3 node physical Nexus Dashboard cluster now supports 250 switches.

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Product Impact	Feature	Description
	cluster (250 switches)	

Changes in Behavior

- Beginning with Nexus Dashboard release 3.1(1), all services have been unified into a single deployment image. You no longer need to download, install, and enable each service individually. Instead, you can simply choose which services to enable during the Nexus Dashboard platform deployment process. As a result, we recommend deploying Nexus Dashboard release 3.1(1) with unified install for all new installations. Upgrading to this release will also automatically upgrade all services in your existing cluster. See Nexus Dashboard Deployment Guide.
- The left navigation menu options **Operate** and **Configure** are now merged into **Manage** menu option.
- For Panduit PDU integration, you must configure a persistent IP address for PDU collector to stream telemetry information for one or multiple PDUs in your site in Nexus Dashboard.

  In Nexus Dashboard, navigate to **Admin** > System Settings > **General** > **External Service Pools** > **Add Data Service IP Address** to configure the persistent IP address.

  For more information on persistent IP address requirements, see Cisco Nexus Dashboard and Services Deployment and Upgrade Guide.

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
CSCvz52746	Tenant, VRF and EPG details will not be reported in Flow Browse or Details page if Q-in-Q flow is monitored using Netflow in Nexus Dashboard Insights.	6.4.1
CSCwb28067	If same EPG name is used across tenants in ACI sites, then flow path stitching and its details could be incorrect. This could impact forward, and reverse path stitch shown in flow pages of Nexus Dashboard Insights.	6.4.1
CSCwd83293	A switch reloads with a core dump of dcgrpc, dc_nae, dc, or any combination of these processes.	6.4.1
CSCwh22018	Connectivity Analysis is supported on Cisco APIC release 6.0.(3e) and NICC release 3.0.0.546.	6.4.1
CSCwh45345	Anomalies in workflow such as NDO assurance, Delta Analysis, and Compliance may not be present in the main anomalies table due to the total number of anomalies generated hitting the maximum threshold.	6.4.1
CSCwh50022	Existing syslog export with SSL may be broken after Nexus Dashboard Insights (NDI) upgrade.	6.4.1
CSCwi24757	When running " show environment power" there is no power consumption reported for the FAN for 1 rack unit and 2 rack units switches.	6.4.1

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Bug ID	Description	Exists In
CSCwi77034	When you enable flow telemetry, the status for the site will not be changed to " Enabling" immediately.	6.4.1
CSCwi98040	Duplicate BGP Peer connection down anomaly is raised for same peer.	6.4.1
CSCwj01630	Super Spine is not counted under objects in Topology view.	6.4.1
CSCwj14111	In the Policy CAM Anomalies table, when you click on the gear icon and select Category it does not get added to the Anomalies table.	6.4.1
CSCwj20680	While creating a compliance rule, the following error message is displayed: " The Assurance Group ID <id> is invalid."	6.4.1

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 “Exists In” column of the table specifies the releases in which the issue exists.

Bug ID	Description	Fixed In
CSCwh35751	Newly discovered nodes are not visible in the Operate > Topology page.	6.4.1
CSCwh42737	The status of few devices are marked failure with reason as " ABORTED" . Of these failed devices, some of them could have failed due to Log collection failure and some of them could have succeeded.	6.4.1
CSCwh55396	Configuration import for DNS configuration with mappings file is stuck in initialize state.	6.4.1
CSCwh55844	Cohosting of NDI and NDO on 3-node physical Nexus Dashboard cluster is not supported.	6.4.1
CSCwh91968	In Delta Analysis Report, resource filters added to the Grouped view of the Anomalies Table do not get carried over to the pop-up drawer containing the individual anomaly details.	6.4.1
CSCwh96080	The Compliance Rules tab is visible if you have at least one ACI site.	6.4.1
CSCwi01308	Journey Map displays blank slider after returning from Site Details.	6.4.1

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
CSCvv31284	External EPG name is not reported in Cisco Nexus Insights app even though the subnet is specified.	6.4.1
CSCvw11059	The EX tier-1 leaf switch is not stitched in the flow path.	6.4.1

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Bug ID	Description	Exists In
CSCwb59463	In ACI platforms, with fast-link-fail over feature enabled, path summary will not have north bound or spine facing information in the flow path summary for FX2 based platforms.	6.4.1
CSCwb92508	When you click on Pre-Change Analysis rows in the table, if you navigate through them a bit faster without waiting for the sidebar to completely load, you may sometimes notice duplicated changes added in the form.	6.4.1
CSCvr32097	LLDP transmit receive packets statistics graph displays the same values regardless of the selected time range.	6.4.1
CSCwa86961	When L4-L7 intra VRF traffic is going through spine switches, Nexus Dashboard Insights flow path summary might not show spine switch information like spine name and interface names.	6.4.1
CSCwb02805	In Nexus Dashboard Insights, flow path information for L4-L7 traffic does not show the L3Out service leaf switch information.	6.4.1
CSCwb66891	For L3Out to EPG intra-VRF L4-L7 traffic, some of leaf switches and spine switches might not exporting flow information. Flow path will not include those nodes in the path information.	6.4.1
CSCvz67522	Nexus Dashboard Insights does not model Endpoint Security Groups and related rules. Stale Policy CAM rules and Enforced VRF policy violation anomaly will be displayed in Nexus Dashboard Insights	6.4.1
CSCwb39004	Nexus Dashboard Orchestrator job schedule and Inter-Site view in the anomaly table usability issues	6.4.1
CSCwb43792	vCenter anomalies are not exported as part of email export, when basic or advanced option is selected.	6.4.1
CSCwb87579	Since Explore is designed to support max fabric wide rules of 150k, nae-policy-explorer pod would go OOM when Explore " Connectivity analysis " is run for completed epoch having a large policy scale.	6.4.1
CSCwh37988	Bug Scan status will be shown as Failed with reason " CPU/Memory metrics not available for the device" .	6.4.1
CSCwh29141	There will be an error thrown by config service if the exporters are created if the POST API is called using deprecated categories as input.	6.4.1
CSCvw03887	In flow analytics the health score on the flow records is displayed as healthy even when ingress flow records are not available.	6.4.1
CSCvw24739	In flow analytics page, PC and vPC interface ID are displayed instead of port name.	6.4.1
CSCwh42672	Once the online site is onboarded to NDI, you cannot edit the username or password from the NDI UI.	6.4.1
CSCwf98815	There is no option for enabling and disabling the NDO assurance for online sites.	6.4.1

Compatibility Information

For Nexus Dashboard Insights compatibility information see the Services Compatibility Matrix.

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Software	Release/PID
Cisco Device supported for Software Telemetry	Cisco Nexus 9300-EX, -FX, -FX2, -GX, and 9500 platform switches with EX, FX line cards Cisco Nexus 9000 FX3 and 9336C-FX2-E platform switches Cisco Nexus 9300-GX2 Platform Switches NOTE: Cisco Nexus 9300-GX2 platform switches support Flow Telemetry for the Cisco Nexus 9000 ACI-Mode Switches release 16.0(3) and later. FTE is not supported.
Cisco Nexus Dashboard cluster	SE-CL-L3, ND-CLUSTER-L4
Minimum Intersight Device Connector version on Cisco Nexus Dashboard	1.0.9-828
Cisco Device supported for Flow Telemetry	Cisco Nexus 9300-EX, -FX, -FX2, -GX, and 9500 platform switches with EX, FX line cards Cisco Nexus 9000 FX3 and 9336C-FX2-E platform switches Cisco Nexus 9300-GX2 Platform Switches NOTE: Cisco Nexus 9300-GX2 platform switches support Flow Telemetry for the Cisco Nexus 9000 ACI-Mode Switches release 16.0(3) and later. FTE is not supported.
Minimum Cisco APIC version required for FTE and Micro-Burst	5.1(1h)
AppDynamics APM	4.5

Verified Scalability Limits

For Nexus Dashboard Insights verified scalability limits see Nexus Dashboard Capacity Planning.

Rollup and Retention Numbers for Nexus Dashboard Insights Telemetry

Nexus Dashboard Insights implements a multi-level roll-up strategy for the telemetry streamed that enables better management of the data. The following table provides information about roll-up and retention policy in Nexus Dashboard Insights.

Statistics Name	Granularity (Time difference between sample points)	Retention proposed for Nexus Dashboard Insights
Interfaces and Protocols Statistics and Error Counters	1 minute	3 days
	5 minutes	7 days
	3 hours	30 days

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Statistics Name	Granularity (Time difference between sample points)	Retention proposed for Nexus Dashboard Insights
Resources and Environmental Statistics	5 minutes	7 days
	3 hours	30 days
Integrations Statistics (AppDynamics)	5 minutes	7 days
	3 hours	30 days
Anomalies and Advisories	On-event*	30 days
Microburst	On-event*	7 days
Endpoints History**	On-event*	7 days
Events	On-event*	15 days
Flows and Flow Telemetry Events	-	7 days
Delta Analysis	-	30 days

*On-event: The data is sent from the switch or stored in the database only if the state of the object has changed.

** Endpoint History tracks the moves and modifications of an endpoint for last 7 days.

Usage Guidelines and Limitations

This section lists the usage guidelines and limitations for Cisco Nexus Dashboard Insights:

- Nexus Dashboard Insights downgrade is not supported.
- After modifying a bridge domain or VRF instance for an EPG, the flow analytics does not work as expected momentarily.
- In Multi-cluster setup, remote cluster system anomalies are not displayed in the local cluster. You must log in to the remote cluster to view the system anomalies.
- Nexus Dashboard Insights creates a user in APIC called *cisco_SN_NI*. This user is used when Nexus Dashboard Insights needs to make any changes or query any information from APIC. In APIC navigate to **System** > **History** > **Audit Logs tab**. *Cisco_SN_NI* user is displayed in the user column.

Related Content

The Cisco Nexus Dashboard Insights 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 Dashboard Insights	This document.

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Document	Description
Release Notes for Cisco ACI	
Cisco Nexus Dashboard Insights User Content for Cisco ACI	Describes the various Nexus Dashboard Insights features and use cases.

Documentation Feedback

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