



Cisco Nexus Dashboard Insights Release Notes, Release 6.3.1 – 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
January 19, 2024	Release 6.3.1.45 became available.
October 31, 2023	Release 6.3.1.40 became available.
September 13, 2023	Release 6.3.1.15 became available.

New Software Features

Release 6.3.1.45

Product Impact	Feature	Description
Base Functionality	Multiple sites association for Nexus Dashboard Insights Integrations	In this release, multiple Integrations per site are supported.

Note: Nexus Dashboard Insights release 6.3.1.45 is only supported on Nexus Dashboard release 3.0.(1i). It is not supported on Nexus Dashboard release 3.0.1(f).

Release 6.3.1.40

Product Impact	Feature	Description
Base Functionality	Support for 6 node virtual Nexus Dashboard and 9 node virtual Nexus Dashboard deployment	In this release, 6 node virtual Nexus Dashboard and 9 node virtual Nexus Dashboard deployment is supported.
	Upgrade support for 6 node virtual Nexus Dashboard and 9 node virtual Nexus Dashboard	In this release, 6 node virtual Nexus Dashboard and 9 node virtual Nexus Dashboard upgrade is supported.
Performance and Scalability	Increased scale for 3 node physical Nexus Dashboard	3 node physical Nexus Dashboard now supports 100 nodes and 10,000 flows

Note: Nexus Dashboard Insights release 6.3.1.40 is only supported on Nexus Dashboard release 3.0.(1i). It is not supported on Nexus Dashboard release 3.0.1(f).

Release 6.3.1.15

Product Impact	Feature	Description
Base Functionality	Sustainability	Sustainability report helps you monitor, predict, and improve your network’s energy usage, its related carbon emissions, and its total energy cost.

Product Impact	Feature	Description
	Scale Conformance	In the Conformance report, you can now view the scale conformance status for sites.
	Export Flow Records to Network Attached Storage	You can export flow records captured by Nexus Dashboard Insights on a remote Network Attached Storage (NAS) with NFS.
	Support for -GX2 platforms	Cisco Nexus 9300-GX2 platform switches support Software Telemetry.
	Anomaly Search	You can perform a search for affected objects such as interface, VRF, EPG, BD and view the associated anomalies.
	Support for pure IPv6 and dual stack IPv4/IPv6 configurations	This release adds support for pure IPv6 or dual stack IPv4/IPv6 configurations for the cluster nodes and services.
Ease of Use	UI look-and-feel improvements	This release adds product GUI improvements, including Journey Map, Global View, Analysis Hub, Custom Dashboard and more.
Performance and Scalability	Connectivity Analysis	Improved performance in Connectivity Analysis jobs.

Note: Nexus Dashboard Insights release 6.3.1.15 is only supported on Nexus Dashboard release 3.0.(1i). It is not supported on Nexus Dashboard release 3.0.1(f).

Changes in Behavior

Release 6.3.1.40

- In this release the following features are not available:
 - Time series selection for Interfaces, Endpoints, Multicast, and L3 neighbors.
 - A graphical view of top resources.
- After upgrading to this release, some anomaly rules may be updated or deleted. You can manually add these rules after the upgrade based on the new categories and severity.
- After upgrading to this release, Export Data configuration will contain newer anomaly and advisory categories replacing older ones.

Release 6.3.1.15

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 - Time series selection for Interfaces, Endpoints, Multicast, and L3 neighbors.
 - A graphical view of top resources.
- After upgrading to this release, some anomaly rules may be updated or deleted. You can manually add these rules after the upgrade based on the new categories and severity.

- After upgrading to this release, Export Data configuration will contain newer anomaly and advisory categories replacing older ones.
- Virtual Nexus Dashboard deployment for NDI release 6.3.1 requires a greenfield installation of Nexus Dashboard cluster. Upgrade of virtual Nexus Dashboard cluster to run NDI release 6.3.1 is not supported.
- Virtual Nexus Dashboard deployment for NDI release 6.3.1 now requires reduced resources of 3 virtual nodes instead of 6 virtual nodes with lower CPU, memory, and storage needs. See [Nexus Dashboard Capacity Planning](#) for detailed support information.
- This release supports a higher number of switches on 3 node and 6 node Nexus Dashboard clusters.
 - A 6 node Nexus Dashboard cluster with switch scale up to 500 switches for ACI and up to 350 for NDFC, supports 20,000 flows. For higher switch scale, 2,000 flows are supported.
 - Customers having 3-5 node Nexus Dashboard cluster with up to 100 switches for ACI and up to 100 switches for NDFC needing 10,000 flow support should not upgrade to NDI release 6.3.1.
 - See [Nexus Dashboard Capacity Planning](#) to verify the scale numbers.

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
CSCvw03887	In flow analytics the health score on the flow records is displayed as healthy even when ingress flow records are not available.	6.3.1
CSCvw24739	In flow analytics page, PC and vPC interface ID are displayed instead of port name.	6.3.1
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.	6.3.1
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.	6.3.1
CSCwd83293	A switch reloads with a core dump of dcgrpc, dc_nae, dc, or any combination of these processes.	6.3.1
CSCwf98815	There is no option for enabling and disabling the NDO assurance for online sites.	6.3.1
CSCwh22018	Connectivity Analysis is supported on Cisco APIC release 6.0.(3e) and NICC release 3.0.0.546.	6.3.1
CSCwh35751	Newly discovered nodes are not visible in the Operate > Topology page.	6.3.1
CSCwh42672	Once the online site is onboarded to NDI, you cannot edit the username or password from the NDI UI.	6.3.1

Bug ID	Description	Exists In
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.	6.3.1
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.	6.3.1
CSCwh50022	Existing syslog export with SSL may be broken after Nexus Dashboard Insights (NDI) upgrade.	6.3.1
CSCwh55396	Configuration import for DNS configuration with mappings file is stuck in initialize state.	6.3.1
CSCwh55844	Cohosting of NDI and NDO on 3-node physical Nexus Dashboard cluster is not supported.	6.3.1
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.	6.3.1
CSCwh96080	The Compliance Rules tab is visible if you have at least one ACI site.	6.3.1
CSCwi01308	Journey Map displays blank slider after returning from Site Details.	6.3.1

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
CSCwe46046	Scheduled jobs are queuing up in the Configure Site Group > Assurance Analysis page.	6.3.1.15
CSCwe81243	vPC down anomaly takes longer than 20 minutes to clear.	6.3.1.15
CSCwe87280	Anomalies not shown in Primary Affected Object view if the assurance job is not run in the last 2 hours.	6.3.1.15
CSCwe21741	As an impact of deprecation of some anomalies, Associated Policies section may not show node details for Policy CAM.	6.3.1.15
CSCwh55554	The anomaly details are not seen after clicking on a Flow Record Anomalies table anomaly link.	6.3.1.40
CSCwh19085	Flow telemetry for some records may be missing.	6.3.1.45
CSCwh19212	Quick add-delete of BD or VRF will lead to NetFlow not applied on the BD.	6.3.1.45
CSCwh30932	The records sent by the switch does not reach the collector. This issue occurs when the switch is not able to resolve the VRF ID correctly.	6.3.1.45

Bug ID	Description	Fixed In
CSCwh81878	Flow telemetry information is not displayed for some nodes and telemetry records are getting dropped in NDI collector as the exporter ID does not match with the value for MO collector ID.	6.3.1.45

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
CSCwv31284	External EPG name is not reported in Cisco Nexus Insights app even though the subnet is specified.	6.3.1
CSCwv11059	The EX tier-1 leaf switch is not stitched in the flow path.	6.3.1
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.	6.3.1
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.	6.3.1
CSCvr32097	LLDP transmit receive packets statistics graph displays the same values regardless of the selected time range.	6.3.1
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.	6.3.1
CSCwb02805	In Nexus Dashboard Insights, flow path information for L4-L7 traffic does not show the L3Out service leaf switch information.	6.3.1
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.	6.3.1
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	6.3.1
CSCwb39004	Nexus Dashboard Orchestrator job schedule and Inter-Site view in the anomaly table usability issues	6.3.1
CSCwb43792	vCenter anomalies are not exported as part of email export, when basic or advanced option is selected.	6.3.1
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.	6.3.1
CSCwh37988	Bug Scan status will be shown as Failed with reason "CPU/Memory	6.3.1

Bug ID	Description	Exists In
	metrics not available for the device".	
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.	6.3.1

Compatibility Information

For Nexus Dashboard Insights compatibility information see the [Services Compatibility Matrix](#).

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
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 Release Notes for Cisco ACI	This document.
Cisco Nexus Dashboard Insights Deployment	Describes how to install and upgrade Nexus Dashboard Insights.
Cisco Nexus Dashboard Insights User Content for Cisco ACI	Describes the various Nexus Dashboard Insights features and use cases.

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