Cisco Nexus Dashboard Insights Release Notes, Release 6.0.2 for Cisco ACI

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Contents

New Software Features 3

Changes in Behavior 4

Open Issues 4

Resolved Issues 5

Known Issues 6

Compatibility Information 6

Verified Scalability Limits 7

Rollup and Retention Numbers for Nexus Dashboard Insights Telemetry 7

Usage Guidelines and Limitations 8

Related Content 8

Documentation Feedback 9

Legal Information 9

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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
February 4, 2022	Release 6.0.2 patch (6.0.2.1945) became available.
December 17, 2021	Release 6.0.2 (6.0.2.1928) became available.

New Software Features

Feature	Description
DNS Integration	Use DNS Integration to enable the name resolution feature to telemetry data.
Flow Rate Statistics	Figure out the incoming flow rate for your specific setup by viewing the incoming pipeline rates for the fabric and at the per switch level.
New Hardware support	Support for Nexus 9000 FX3 and 9336C-FX2-E platform switches. Note: Nexus Dashboard Insights, release 6.0.2 supports Cisco Nexus 9000 FX3 platform switches only in fabrics running Cisco APIC release 5.2(4) or later.
Delta Analysis enhancements	Delta Analysis support for all types of anomalies
AppDynamic SaaS integration support	Ability to connect to AppDynamics controller using a proxy for SaaS or cloud deployments.
Digitize advisories	Digitize release notes, field notices, and EOL/EOS advisories.
Risk and Conformance report	Configure software and hardware conformance report.
Additional pre-validation criteria for Firmware Update Analysis	Additional pre-validation criteria such as Endpoint network redundancy for nodes for Firmware Update Analysis.
Offline sites enhancements	Ability to display PSIRTs, Filed Notices, and EOL advisories for offline sites.
Export Data enhancements	Collect data for specific resources at a greater frequency and export it directly. Note: Export data enhancements is supported only in fabrics running Cisco APIC release 5.2(4) or later.
Template Based Compliance	Configure a template and specify types of queries to select objects and attributes that enforce specific conditions when enabled.
Configure Object Selectors for Naming Compliance	Configure a Naming Compliance to match selected objects using a template.

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Feature	Description
Configure Object Selectors Based on Tags and Annotations	Configure object selectors on tags and annotations using a template.
Cisco Nexus Dashboard Orchestrator Integration and Assurance (Beta feature)	Add Nexus Dashboard Orchestrator integration to enable and run assurance analysis for managed sites and Site Groups.
VMware vCenter Integration (Beta feature)	Add VMware vCenter integration to collect data and metrics of the virtual machines and hosts monitored by VMware vCenter.

Changes in Behavior

The endpoint information is no longer included in the Tenant file size calculation. This does not remove any capability from the Pre-Change Analysis feature.

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.	6.0.2
CSCvv31282	If there is single chip spine in the flow path then it is not reported in the flow path summary.	6.0.2
CSCvw03887	In flow analytics the health score on the flow records is displayed as healthy even when ingress flow records are not available.	6.0.2
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.	6.0.2
CSCvw24739	In flow analytics page, PC and vPC interface ID are displayed instead of port name.	6.0.2
CSCvz46540	A duplicate or redundant switch entry may be seen on Nodes page after upgrade of a switch whose hostname contains a period (.) in it (eg. switch1.abc).	6.0.2
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.	6.0.2
CSCvz15603	Site becomes "Disabled" or "Add_Fail" and policies will not be pushed to the fabric when Nexus Dashboard Insights gets disabled and re-enabled or upgraded if the site goes down.	6.0.2
CSCvz64136	Selecting a time range of Last Week on the Interfaces Dashboard causes the browser to show a blank screen.	6.0.2

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Bug ID	Description	Exists In
CSCvy33992	Aborted DAGs does not indicate that there is partial data in Nexus Dashboard Insights GUI.	6.0.2
CSCvz07734	Duplicate endpoint Anomalies in Nexus Dashboard Insights.	6.0.2
CSCvz22022	Assurance job is aborted if there is not enough CPU and memory resources available and if there are multiple jobs running at the same time.	6.0.2
CSCvz29928	Inconsistency in counts from aggregate view to primary affected objects view for anomalies.	6.0.2
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	6.0.2
CSCwa42622	Flow statistics summary data is cleaned up after Nexus Dashboard Insights upgrade.	6.0.2
CSCvz52902	The Explorer "Can" query, "Can EPG:A talk to EPG:B?" may sometimes include in the Policy Table additional incorrect rules as the ones allowing the communication. However, the correct rule that allows the communication is always present in the table.	6.0.2
CSCwa30074	In Configuration export import feature, the following configurations are not supported only during the IMPORT. • Template based Compliance Configuration and • Compliance configuration by importing JSON/Xml file	6.0.2
CSCwa13919	The anomaly record from the summary view may show the status of anomaly that is different than the one shown in analyze pane or details view.	6.0.2

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
CSCvz55886	The total count of anomalies reported in the Overview > Dashboard's page for Alerts Summary, Anomalies Breakdown, and Top Nodes tiles sometimes do not match.	6.0.2 (6.0.2.1928)
CSCvz64686	The Netflow Collector IP addresses reported on the Configure Site Group Flows tab in Nexus Dashboard Insights are for Multi-cluster Connectivity primary Nexus Dashboard cluster IP addresses instead of the Site Group's own Nexus Dashboard cluster IP addresses.	6.0.2 (6.0.2.1928)
CSCwa47284	Evaluation of Nexus Dashboard Insights for Log4j RCE (Log4Shell) Vulnerability.	6.0.2 (6.0.2.1928)
CSCwa41206	If a Site Group is used in an integration and after a successful integration is created, if Site Group name is changed that name change will not be	6.0.2 patch

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Bug ID	Description	Fixed In
	reflected when a GET call is made for integrations.	(6.0.2.1945)
CSCwa25343	If the compliance template does not detect any violations, it will raise an event for the root object only. In the case of some configurable managed objects such as fabric and infra, info anomaly will be raised.	6.0.2 patch (6.0.2.1945)

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.	6.0.2
CSCvv31284	External EPG name is not reported in Cisco Nexus Insights app even though the subnet is specified.	6.0.2
CSCvw11059	The EX tier-1 leaf switch is not stitched in the flowpath.	6.0.2
CSCvv92188	In the Flow analytics details page, path information might not display spine node in the traffic path.	6.0.2

Compatibility Information

For Nexus Dashboard Insights compatibility information see the Services 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	1.0.9-828
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
Minimum Cisco APIC version required for FTE and Micro-Burst	5.1(1h)
AppDynamics APM	4.5

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Verified Scalability Limits

Software/Hardware	Scale Limits
Number of ACI sites	8 for physical Nexus Dashboard 4 for virtual Nexus Dashbooard
Number of ACI nodes (includes ACI switches)	500 for physical Nexus Dashboard 50 for virtual Nexus Dashbooard
Maximum support for a 3-node Cisco Nexus Dashboard cluster	Site with 50 nodes, 60000 Endpoints per Site Group and 100000 per cluster, and 10000 Flows
Maximum support for a 4-node Cisco Nexus Dashboard cluster	Site with 100 nodes, 60000 Endpoints per Site Group and 140000 per cluster, and 10000 Flows, and 300000 logical rules
Maximum support for a 6-node Cisco Nexus Dashboard cluster	Site with 500 nodes, 60000 Endpoints per Site Group and 200000 per cluster, 20000 Flows, and 300000 logical rules
Maximum support for a 6-node Cisco Virtual Nexus Dashboard (vND) cluster	Site with 50 nodes, 5000 Endpoints per Site Group and 20000 per cluster, 2500 Flows, and 100000 logical rules
Maximum number of leaf switches in a POD running PTP	128

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

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Statistics Name	Granularity (Time difference between sample points)	Retention proposed for Nexus Dashboard Insights
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.
- When the Device Connector is unclaimed from the on-premise GUI application, the Device Connector must be unclaimed from Intersight for TAC Assist's connected TAC functionality to work.
- 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.
- Nexus Dashboard Insights release 6.0.2 supports Kafka export for Flow anomalies. However, Kafka export is not currently supported for Flow Event anomalies.
- 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.

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 Guide	Describes how to install and upgrade Nexus Dashboard Insights.

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Document	Description
Cisco Nexus Dashboard Insights User Guide for Cisco ACI	Describes how to use Nexus Dashboard Insights.

Documentation Feedback

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