Cisco Nexus Dashboard Insights Release Notes, Release 6.0.1 – for Cisco ACI

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Contents

New Software Features 3

Changes in Behavior 4

Open Issues 4

Resolved Issues 6

Known Issues 7

Compatibility Information 7

Verified Scalability Limits 8

Rollup and Retention Numbers for Nexus Dashboard Insights Telemetry 8

Usage Guidelines and Limitations 9

Related Content 9

Documentation Feedback 10

Legal Information 10

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Cisco Nexus Dashboard Insights (Nexus Dashboard Insights) service provides assurance, advisory, and 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 Related Content.

Date	Description
November 5, 2021	Release 6.0.1 (6.0.1.41) patch became available.
September 14, 2021	Release 6.0.1 (6.0.1.23) became available.

New Software Features

Feature	Description
Unified service	Deploy a single tool with assurance, advisory, and troubleshooting capabilities to address your operational needs of prevention, diagnosis, and remediation.
One View	The One View feature in Nexus Dashboard Insights offers the functionality of a single pane of glass or a central point of operation for Nexus Dashboard Insights services. After configuring the clusters in Cisco Nexus Dashboard, you can access and perform all operations on a Site Group or a site using the One View function.
Sites support	Support for ACI and DCNM sites in the same Nexus Dashboard Insights instance.
Add Sites or Upload Files to Site Groups and Run Assurance Analysis	Allows you to add and manage sites in Site Groups and run Assurance Analysis for a site and for uploaded files.
Explore	Allows network operators to discover assets and their object associations in an easy-to-consume natural language query format.
Compliance	Allows you to specify compliance requirements. Cisco Nexus Dashboard Insights will verify in the subsequent snapshots, whether the compliance requirements are satisfied by the policy that is configured in the fabric.
Pre-Change Analysis	When you want to change a configuration for a site, this allows you to model the intended changes, perform a Pre-Change Analysis against an existing base snapshot in the site, and verify if the changes generate the desired results. In addition to multiple tenants, you can also add multiple infrastructure objects as part of a Pre-Change Analysis JSON or XML job.
Policy CAM workflow	Determines how and where resources in the fabric are used. Policy CAM provides information about the resource utilization in the network, and the amount of policy content-addressable memory (Policy CAM) utilization.
Delta Analysis	Enables you to analyze the difference in the policy, run time state, and the health of the network between two snapshots.
Import and Export of configurations	Enables you import and export the configurations such as Site Groups, alert rules, compliance, flow rules, user preferences in Nexus Dashboard Insights.
Firmware Upgrade Analysis	Suggests an upgrade path to a recommended software version and determines the potential impact of upgrade impact. It also helps with the pre-upgrade and post-upgrade validation

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Feature	Description
	checks.
Analyze Alerts	Analyze Alerts provides a view into Anomalies and Advisories generated by Nexus Dashboard Insights. With this release you can configure the properties such as acknowledge an anomaly, assign a user, add a tag, add a comment, set verification status, on an anomaly. Using One-Click Remediation you can remediate an anomaly based on recommendations.
Alert Rules	Enables you to acknowledge all new detected anomalies that match the criteria and adjust the anomaly score accordingly.
Netflow support	Enables the network administrator to determine information such as source, destination, class of service, and causes of congestion. Netflow is configured on the interface to monitor every packet on the interface and provide telemetry data.
Flow Telemetry enhancements	Allows users to see the path taken by different flows in detail. You can see the switches in the flow with the help of flow table exports from the nodes. All flows are monitored as a consolidated view in a unified pipeline for site types ACI and DCNM.
Kafka support enhancements	Export data collected by Nexus Dashboard Insights over Kafka and Email.
Endpoints enhancements	Endpoints displays time series information for the top nodes with number of endpoints that are varying. The Endpoints feature provides detailed analytics of endpoints learned in the site. With this release, support for searching deleted IP addresses is available. And filtering by hostname is also supported as a Beta feature.
Interface enhancements	This feature includes monitoring of nodes and interfaces in Cisco Nexus Dashboard Insights and site nodes. With this release, Switch Virtual Interfaces are supported in addition to physical ports, port channels, and vPCs. For vPC interface, logical neighbors information is displayed.
Log Collector enhancements	With this release, you can automatically upload the log files to Cisco Intersight Cloud after the log collection job is completed.
Virtual Nexus Dashboard support	Allows you to deploy Nexus Dashboard Insights service on Virtual Nexus Dashboard (vND).
Beta feature – DNS Integration	This is a Beta feature. We recommend that you use features marked as 'Beta' in your test environments but not in production deployments. The Cisco Nexus Dashboard Insights Domain Name System (DNS) integration feature enables the name resolution feature to telemetry data. DNS integration can be associated at the Site Group level or the Site level.

Changes in Behavior

Choose **Browse** > **Protocols**. Select a BGP protocol. In the **Protocols Details** page, peer ASN information is not displayed for Nexus Dashboard Insights 6.0.1 patch.

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.

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Bug ID	Description	Exists In
CSCvr32097	LLDP transmit receive packets statistics graph displays the same values regardless of the selected time range.	6.0.1
CSCvv31282	If there is single chip spine in the flow path then it is not reported in the flow path summary.	6.0.1
CSCvw03887	In flow analytics the health score on the flow records is displayed as healthy even when ingress flow records are not available.	6.0.1
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.	6.0.1
CSCvw24739	In flow analytics page, PC and vPC interface ID are displayed instead of port name.	6.0.1
CSCvy33992	Aborted DAGs do not indicate that there is partial data in Nexus Dashboard Insights GUI.	6.0.1
CSCvz07734	Duplicate endpoint Anomalies in Nexus Dashboard Insights.	6.0.1
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.	6.0.1
CSCvz29928	Inconsistency in counts from aggregate view to primary affected objects view for anomalies.	6.0.1
CSCvz46540	A duplicate or redundant switch entry may be seen on the Nodes page after upgrade of a switch whose hostname contains a period (.) in it (eg. switch1.abc).	6.0.1
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.	6.0.1
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.	6.0.1
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.	6.0.1
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.	6.0.1
CSCvz64136	Selecting a time range of Last Week on the Interfaces Dashboard causes the browser to show a blank screen.	6.0.1
CSCvz65996	Delta Analysis job fails intermittently.	6.0.1

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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
CSCvv98126	Endpoint is reported as aged-out with the older BD information.	6.0.1 (6.0.1.23)
CSCvw03821	Rogue IP anomaly is not cleared.	6.0.1 (6.0.1.23)
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.	6.0.1 (6.0.1.23)
CSCvw33541	The creation time for the 'Leaf Inactive' Fault is incorrect in the Cisco NI app GUI.	Cisco Nexus 9000 ACI-Mode Switches Release 15.1.2
CSCvx67265	Bug scan fails resulting in BORG error.	6.0.1 (6.0.1.23)
CSCvx58005	When you start a bug Scan, the History table is not updated and the Scan Now button is not disabled.	6.0.1 (6.0.1.23)
CSCvt68195	L3 Multicast control plane data is not supported for Remote Leaf in Cisco NIR.	6.0.1 (6.0.1.23)
CSCvx79653	Metadata update task is not scheduled on app startup if the fabric is not enabled.	6.0.1 (6.0.1.23)
CSCvx80000	When you onboard a new site to Nexus Dashboard, the site does not appear in Nexus Insights UI.	6.0.1 (6.0.1.23)
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.	6.0.1 (6.0.1.23)
CSCvv75183	Flow resource type anomalies are not exported to external Kafka server.	6.0.1 (6.0.1.23)
CSCvv24554	Microburst Anomaly's description field does not contain class and type of traffic information.	6.0.1 patch (6.0.1.41)
CSCvw64159	Multiple operational anomalies are reported for same resource.	6.0.1 patch (6.0.1.41)
CSCvx52514	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.	6.0.1 patch (6.0.1.41)
CSCvx69166	Some IPv6 traffic will not be reported to telemetry collectors.	Cisco Nexus 9000 ACI-Mode Switches Release 15.2.1
CSCvx91483	ACI FN-72145 is displayed for switch running standalone NX-OS in DCNM fabric.	6.0.1 patch (6.0.1.41)
CSCvz61137	Inconsistency in alert rules after importing data from an installation with more than 50 alert rules.	6.0.1 patch (6.0.1.41)

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Bug ID	Description	Fixed In
CSCvz51438	Duplicate Bug-Scan jobs might get scheduled during Nexus Dashboard Insights upgrade.	6.0.1 patch (6.0.1.41)
CSCvv75183	Flow resource type anomalies are not exported to external Kafka server.	6.0.1 patch (6.0.1.41)
CSCvw64159	Multiple operational anomalies are reported for same resource.	6.0.1 patch (6.0.1.41)
CSCvx56156	In the Nexus Insights setup page, clicking the Prerequisites checkbox resets the Early Access Mode toggle.	6.0.1 patch (6.0.1.41)

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.	6.0.1
CSCvv31284	External EPG name is not reported in Cisco Nexus Insights app even though the subnet is specified.	6.0.1
CSCvw11059	The EX tier-1 leaf switch is not stitched in the flowpath.	6.0.1
CSCvv92188	In the Flow analytics details page, path information might not display spine node in the traffic path.	6.0.1

Compatibility Information

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

Software	Release/PID
Cisco Device supported for Software Telemetry	Cisco Nexus 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
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

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 release 6.0.1.

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

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Statistics Name	Granularity (Time difference between sample points)	Retention proposed for Nexus Dashboard Insights
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 Assit'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 6.0.1 supports Kafka export for Flow anomalies. However, Kafka export is not currently supported for Flow Event 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.
Cisco Nexus Dashboard Insights User Guide for Cisco ACI	Describes how to use Nexus Dashboard Insights.

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Printed in USA Cxx-xxxxxx-xx 01/20

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