Cisco Nexus Dashboard Data Broker Release Notes, Release 3.10.1

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Introduction

Visibility into application traffic is important for infrastructure operations to maintain security and compliance, and to perform resource planning and troubleshooting. With the technological advances and growth in cloud-based applications, it has become imperative to gain increased visibility into the network traffic. Traditional approaches to gain visibility into network traffic are expensive and rigid, making it difficult for managers of large-scale deployments.

Cisco Nexus Dashboard Data Broker with Cisco Nexus Switches provides a software-defined, programmable solution to aggregate copies of network traffic using SPAN or network taps for monitoring and visibility. As opposed to traditional network taps and monitoring solutions, this packet-brokering approach offers a simple, scalable and cost-effective solution well-suited for customers who need to monitor higher-volume and business-critical traffic for efficient use of security, compliance, and application performance monitoring tools.

Cisco Nexus Dashboard Data Broker also provides a software-defined, programmable solution to perform inline inspection of the network traffic for monitoring and visibility purpose. Inline traffic inspection is performed on specific traffic by redirecting it through multiple security tools before it enters or exits a network.

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
July 18, 2022	Updated the Interoperability Table to indicate support for NX-OS release 9.3(9).
December 10, 2021	Updated the Interoperability Table to indicate NX-OS Release 10.1(2) is not supported on 93180LC-EX.
October 20, 2021	Added CSCvz99026 to the list of Open Caveats.
July 6, 2021	Release 3.10.1 became available.

New Software Features

The list of new features for Cisco Nexus Dashboard Data Broker, Release 3.10.1 is here.

Feature	Description
Rebranding Cisco Nexus Data Broker to Cisco Nexus Dashboard Data Broker	Cisco Nexus Data Broker (NDB) has been renamed to Cisco Nexus Dashboard Data Broker. For more information, see Cisco Nexus Dashboard Data Broker Configuration Guide.
Support for Cisco Nexus 3550-F Fusion L1 platform	You can manage and configure the Cisco Nexus 3550-F Fusion L1 platform as an optical TAP switch, from the Cisco Nexus Dashboard Data Broker GUI.

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Feature	Description
	For more information, see Cisco Nexus Dashboard Data Broker Configuration Guide.
Support for Cisco Catalyst switches as a production switch	You can directly onboard Cisco Catalyst series switches, as production devices. They can be configured as local SPANs. (for the list of supported switches, see the *Guidelines and Limitations* section in this doc) For more information, see Cisco Nexus Dashboard Data Broker Configuration Guide.
Integration with Cisco Digital Network Architecture Center (DNAC)	Cisco Nexus Dashboard Data Broker controller integration with DNAC to manage SPANs on enterprise switches. For more information, see Cisco Nexus Dashboard Data Broker Configuration Guide.
Java packaged with Cisco Nexus Dashboard Data Broker Software	Nexus Dashboard Data Broker controller software is packaged with Amazon Cornetto JDK 1.8 for improved convenience.

Issues

Cisco Bug Search Help Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.Use the Bug Search Tool to search for a specific bug or to search for all bugs in a release.

This section includes the following topics:

- Open Issues
- Resolved Issues
- Known Issues

Open Issues

Open Issues for Cisco Nexus Dashboard Data Broker.

Bug ID	Description	Exists In
CSCvk39789	“Could not commit transaction” exception thrown at NDB.	3.7.0 and above
CSCvs65911	Port Channel Configuration is not getting exported.	3.9.0 and above
CSCvt62492	Port-channel operations on ISL links results in failure of Link discovery.	3.9.0 and above
CSCvw91742	Auto-priority connection with intersecting port range filters not working.	3.10.0 and above
CSCvw20966	A NDB shouldn't use " session manager" way for MPLS ACLs configuration.	3.10.0 and above
CSCvw82855	Port-channel is not getting recreated and reconfigured port hit upgrade.	3.10.0 and above
CSCvm65172	Direction change should be supported while editing span session.	3.8.0 and above
CSCvx44167	NDB reprograms ISL ACL/ACEs without any flag enabled.	3.10.0 and above

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Bug ID	Description	Exists In
CSCvy76473	Inconsistencies seen on upgrade to 3.10.1 from 3.10.0.a.	3.10.1
CSCvy83107	ISL portchannel is attached with port and global acl after upgrade from 3.7 to 3.10.1.	3.10.1
CSCvy56209	RMA of device is not getting successful on upgraded setup.	3.10.1
CSCvz99026	Not able to install connection with filter having IPv6/IPV4+VLAN in 10.1(2) NXOS.	3.10.1

Resolved Issues

Resolved Issues for Cisco Nexus Dashboard Data Broker.

Bug ID	Description	Resolved In
CSCvx05890	Port configs cannot be removed when device is added with Hostname.	3.10.1
CSCvx11654	ISL Port-channels are attached with Global deny ACLs after sequence of upgrade to 3.10.0.	3.10.1
CSCvu85110	Web Socket between NDB and APIC should be optimized.	3.10.1
CSCvx08964	Tacacs authentication into the NDB server does not show actual remote address.	3.10.1
CSCvx85651	NDB is taking more time to configure UDF.	3.10.1
CSCvu90478	NDB Touches all ISL ports while configuring MTU.	3.10.1

Known Issues (NX-OS)

Bug ID	Description	Exists In
CSCvo85210	NDB Limitation: Can't match MAC address in IP packet, it will hit deny any any in IP ACLs.	9.2.1 and above
CSCvq61822	Need Error handling for feature SFLOW with ERSPAN destination since they are mutually exclusive.	9.2.1 and above
CSCvt15642	Can't match MAC address in IP packet, it will hit deny any any in IP ACLs.	9.2.1 and above
CSCvo21059	MPLS tapagg should allow deny ACE without redirection option.	9.2.2 and above
CSCvt15877	Not able to use ipv6 + vlan on the ISL link.	7.3.0 and above
CSCvs50998	IP ACL with UDF match removes internal VLAN tag in Cisco NX-OS Release 9.3(2). - Fixed in 9.3(3).	9.3.2
CSCvr01876	Re-direct STP, CDP packets similar to LLDP port for Openflow.	7.0.3 and above
CSCvt14639	Not able to convert Layer 2 ports to layer 3 in 9.3(3).	9.3.3

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Bug ID	Description	Exists In
CSCvt03231	ACL with HTTP tcp-option-length redirect statement are not matching traffic correctly in 9.3(3).	9.3.3
CSCvt37799	ERSPAN Dest doesn't work when L2 port with mode tap-aggregation is converted to L3 port in 9.3(3).	9.3.4
CSCvx23944	Duplicate sequence number error in NXOS 9.3(6).	9.3.6
CSCvx32214	Dot1q-tunnel(QinQ) is not programmed correctly for port-channel members in NXOS 9.3(5).	9.3.5, 9.3.6
CSCvx45678	After device reload guestshell activation fails due to low memory on devices for NXOS 9.3(5) version.	9.3.5
CSCvx79293	Not seeing timestamptag on interface after configuring the cmds on C9504 platform in nxos 9.3.7.	9.3.7
CSCvy16218	Username is shown as 'guestshell' irrespective of user executes the guestshell.	9.3.7

Compatibility Matrix

The following table lists the compatibility information for Cisco Nexus Dashboard Data Broker, Release 3.10.1.

Deployment mode: Centralized

Device	Minimum Cisco Nexus Dashboard Data Broker Version	Supported Use Case
Cisco Nexus 3000 Series Switch Cisco Nexus 3100 Series Switch Cisco Nexus 3200 Series Switch Cisco Nexus 3164Q Series Switch	3.0 or later	Tap/SPAN aggregation
Cisco Nexus 31100 Series Switch	3.7 or later	Tap/SPAN aggregation
Cisco Nexus 9200 Series Switch	3.1 or later	Tap/SPAN aggregation
Cisco Nexus 9300 Series Switch	3.0 or later	Tap/SPAN aggregation
Cisco Nexus 9300-EX Series Switch	3.1 or later	Tap/SPAN aggregation
Cisco Nexus 9300-FX Series Switch	3.5 or later	Tap/SPAN aggregation
Cisco Nexus 9300-FX2 Series Switch	3.7 or later	Tap/SPAN aggregation
Cisco Nexus 9300-GX Series Switch	3.10 or later	Tap/SPAN aggregation
Cisco Nexus 9332C Switch Cisco Nexus 9364C Switch	3.8 or later	Tap/SPAN aggregation

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Device	Minimum Cisco Nexus Dashboard Data Broker Version	Supported Use Case
Cisco Nexus 9500 Series Switch – 9504, 9508, 9516 Supported Modules: • N9K-X97160YC-EX • N9K-X9732C-EX • N9K-X9732C-FX • N9K-X9736C-EX • N9K-X9736C-FX • N9K-X9788TC-FX	3.5 or later	Tap/SPAN aggregation

Interoperability Matrix

The following table lists the hardware and software interoperability matrix for Cisco Nexus Dashboard Data Broker, Release 3.10.1.

Implementation Type: NX-API

Device	Supported NX-OS Versions
Cisco Nexus 3000 Series Switch[1] – 3048, 3064	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5),9.3(7), 9.3(7a), 9.3(8), 9.3(9).
Cisco Nexus 3100 Series Switch[1] – 3132C-Z, 3172, 3164, 3164Q	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5),9.3(7), 9.3(7a), 9.3(8) , 9.3(9).
Cisco Nexus 3200 Series Switch[1] – 3232	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5),9.3(7), 9.3(7a), 9.3(8) , 9.3(9).
Cisco Nexus 31100 Series Switch[1]	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5),9.3(7), 9.3(7a), 9.3(8) , 9.3(9).
Cisco Nexus 9200 Series Switch – C92304QC[1], C92160YC **Note**: Cisco Nexus 9200 Series switches support only one switch deployment.	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9),10.1(2).
Cisco Nexus 9300 Series Switch – C93128TX[1], C9396TX[1]	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5) ,9.3(7), 9.3(7a), 9.3(8) , 9.3(9),10.1(2).
Cisco Nexus 9300-EX Series Switch – C93180LC-EX[1], C93180YC-EX, C93108TC-EX	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5) ,9.3(7), 9.3(7a), 9.3(8) , 9.3(9), 10.1(2).
Cisco Nexus 9300-FX Series Switch – C93108TC-FX, C93180YC-FX	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5) 9.3(7), 9.3(7a), 9.3(8) , 9.3(9), 10.1(2).
Cisco Nexus 9300-FX2 Series Switch – N9K-9336C-FX2, 93240YC-FX2, C93360YC-FX2	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5) ,9.3(7), 9.3(7a), 9.3(8), 9.3(9), 10.1(2)
Cisco Nexus 9300-GX Series Switch – 93600CD-GX, 9364C-GX,9316D-GX	9.3(5),9.3(7), 9.3(7a), 9.3(8) , 9.3(9), 10.1(2).

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Device	Supported NX-OS Versions
Cisco Nexus 9332C Switch	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5),9.3(7), 9.3(7a), 9.3(8), 9.3(9), 10.1(2).
Cisco Nexus 9364C Switch	9.3(1), 9.3(2),9.3(3),9.3(4),9.3(5),9.3(7), 9.3(7a), 9.3(8) , 9.3(9), 10.1(2).
Cisco Nexus 9500 Series Switch Supported Modules: ▪ N9K-X9464TX	9.3(1), 9.3(2), 9.3(7), 9.3(7a), 9.3(8), 9.3(9), 10.1(2).
Cisco Nexus 9500-EX Series Switch Supported Modules: ▪ N9K-X97160YC-EX ▪ N9K-X9732C-EX	9.3(1), 9.3(2), 9.3(7), 9.3(7a), 9.3(8), 9.3(9), 10.1(2).
Cisco Nexus 9500-FX Series Switch Supported Modules: ▪ N9K-X9732C-FX	9.3(1), 9.3(2), 9.3(7), 9.3(7a), 9.3(8), 9.3(9), 10.1(2).

[1-] NX-OS Release 10.1(2) is not supported on these platforms.

Unsupported Features

Unsupported features for Cisco Nexus Dashboard Data Broker, Release 3.10.1:

- Embedded mode (OVA) deployment in NX-OS version I(4) or lower is not supported.
- Communication between the Nexus Dashboard Data Broker controller and devices using OpenFlow is not supported.
- Inline redirection of traffic is not supported.

Supported APIC Versions

The table displays the supported APIC versions.

APIC Version	Minimum Cisco Nexus Dashboard Data Broker Version	Supported Deployment Mode
4.x	3.7 or later	Centralized
4.2(5n)	3.10.1	As a service

Verified Scalability Limits

The table displays the supported verified scalability limits.

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Description	Small	Medium	Large
Number of switches used for TAP and SPAN aggegation	25	50	75

Guidelines and Limitations

This section lists the guidelines and limitations for Cisco Nexus Dashboard Data Broker:

Specific for Release 3.10.1

- Upgrade from Nexus Data Broker, Release 3.9.2, to Nexus Dashboard Data Broker, Release 3.10.1, is not supported.
- The recommended RHEL version for deploying Cisco Nexus Dashboard Data Broker, Release 3.10.1 is RHEL 7.7.
- Cisco Nexus Dashboard Data Broker, Release 3.10.1, supports the following versions:

Cisco Product	Supported Version(s)
Catalyst 9300-24UB, C9500-32QC[1]	16.12.02 and above
Catalyst C9200-48PXG, C9200L-24T-4X, C9407R, C9606R	17.03.01 and above
DNAC	2.2.2.4
Nexus 3550-F Fusion L1	1.15.0 and 1.16.0

1 - C9500 with version 16.12 should have the same show version output as C9300.

General

- A Cisco Nexus Dashboard Data Broker instance can support only the NX-API configuration mode.
- By default, the Nexus Dashboard Data Broker cluster URL is https://<IP_address>:8443
- The switchport mode trunk and spanning-tree bpdufilter enable command should be enabled for all switch ports on all Cisco Nexus Dashboard Data Broker managed switches.
- Cisco Nexus switches managed by Cisco Nexus Dashboard Data Broker in NX-API mode must have LLDP feature enabled. Disabling LLDP may cause inconsistencies and require switch rediscovery for NX-API switches.
- For secured communication between Cisco Nexus Dashboard Data Broker and switch through HTTPS, start the Cisco Nexus Dashboard Data Broker in TLS mode for the first time only. Subsequent restarts does not require TLS mode.

  For more details, see Cisco Nexus Dashboard Data Broker Configuration Guide.
- The TLS KeyStore and TrustStore passwords are sent to the Cisco Nexus Dashboard Data Broker so it can read the password-protected TLS KeyStore and TrustStore files only through HTTPS

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```
./ndb config-keystore-passwords [--user {user} --password {password} --url {url} -verbose --prompt --
keystore-password {key-store_password} --truststore-password {truststore_password}
```

- Cisco Nexus 92xx devices do not support QnQ; you cannot use this switch in a multi-switch environment.
- Dry Run feature is disabled by default. To enable this feature, see the Configuration Guide.
- Do not configure TACACS on the Cisco NDB devices. You can configure it only for authentication and authorization. It is not to be used for accounting.

Related Content

Document	Description
Cisco Nexus Dashboard Data Broker Release Notes	This document.
Cisco Nexus Dashboard Data Broker Configuration Guide	Provides information on how to configure Cisco Nexus Dashboard Data Broker.
Cisco Nexus Dashboard Data Broker Deployment Guide	Provides information on how to deploy Cisco Nexus Dashboard Data Broker.

Documentation Feedback

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