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Cisco Nexus Data Broker Release Notes, Release 3.9

This document describes the features, caveats, and limitations on Cisco Nexus Data Broker for Release 3.9.

Use this document with documents listed in Related Documentation.

Online History Change Table

| Date | Description |
|-----------------------|---|
| April 3, 2020 | Initial release of the document. |
| April 13, 2020 | Added CSCvt75433, CSCvt75421, CSCvt75405, CSCVo98675, CSCvt62492 to the list of NDB Open Caveats. |
| April 23, 2020 | Added CSCvt92735 to the list of NX-OS Known Caveats. |
| May 12, 2020 | Added CSCvu17887, CSCvu16131 to the list of NDB Open Caveats. |
| August 17, 2020 | Added CSCvv22414 to the list of NX-OS Known Caveats. |
| March 21, 2021 | Added CSCvx45678,CSCvx32214 to the list of NX-OS Known Caveats. |
| April 19, 2021 | Added CSCvx79293 to the list of NX-OS Known Caveats. |
| | Modified the Interoperability Matrix table with support for NX-OS 9.3(7). |
| May 14, 2021 | Added CSCvy16218 to the list of NX-OS Known Caveats. |
| September 7, 2021 | Added CSCvz21072 to the list of NX-OS Known Caveats. |
| September 20, 2021 | Updated the Interoperability Matrix table to indicate support for NX-OS Release 10.1(2). |
| October 20, 2021 | Added CSCvz99026 to the list of Open Caveats. |
| December 10, 2021 | Updated to indicate 93180LC-EX is not supported on NX-OS Release 10.1(2). |
| July 1, 2022 | Updated the Interoperability table to indicate support of NX-OS releases, 9.3(5), 9.3(7a), 9.3(8), for Cisco Nexus 3548 switch. |
| July 18, 2022 | Updated the Interoperability Matrix table to indicate support for NX-OS release 9.3(9). |

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Introduction

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 Data Broker (NDB) 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 NDB 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.

New Software Features

Details of all the features listed here are available in the Cisco Nexus data Broker Configuration Guide, Release 3.9

| Feature | Description |
|---|---|
| Show tech for NX-API Devices | Enables the user to collect information from one or more switches in one attempt, instead of collecting data separately from each switch. NDB logs can also be downloaded. |
| Span Destination with ER-SPAN Enhancements | From NDB, ER-SPAN based session(s) can be created. |
| Cluster Topology | The topology for all the nodes of the NDB cluster are in sync. |
| Slice Support for NX- API/ SPAN and AUX Devices | All types of devices are placed in different slices based on the requirement. |
| Restore Configuration | Enables the user to select the option of restoring the configuration and the port admin state in the NDB switch. |
| Connection Status Updates | Session staus is added to the list of parameters that determine the status of a connection. The green band indicating the success of the connection turns pink or yellow if the session has failed. |
| Software-based UDE for Block Rx | NDB to push port configurations for software unidirectional ethernet for send-only. This is supported on N9K 95xx switches with 97160YC-EX line card for NX-OS 9.3(3) onwards. |
| JSON Import/ Export Enhancement | Enables all configurations to be exported and imported in JSON format. |
| JRE Version updates | JRE version was updated to 1.8.221. |
| Device Reload Updates | The reload of NX-API devices is detected based on the state of the ethernet modules. |
| Multiple Port | The time taken to configure certain ports has been reduced. |

New Software Features

| Feature | Description |
|-----------------------|-------------|
| Configuration Updates | |

Unsupported Features

Unsupported Features

The following features are not supported in the embedded deployment mode of Cisco Nexus Data Broker:

- Adding another NDB device
- Adding APIC for ACI SPAN session
- Adding production device for the SPAN session
- Configuring SPAN session
- Configuring copy device
- Configuring copy sessions
- Scheduling Configuration Backup
- NDB High availability

Compatibility Information

Cisco Nexus Data Broker, Release 3.9 supports the following Cisco Nexus platforms:

| Device Model | Cisco Nexus Data Broker Minimum Version | Supported Deployment Mode | Supported Use Cases |
|--------------------------------------|--|--|---|
| Cisco Nexus 3000 Series Switch | Cisco Nexus Data Broker 3.0 or later | Centralized and Embedded | Tap/SPAN aggregation and In-line redirection |
| Cisco Nexus 3100 Series Switch | Cisco Nexus Data Broker 3.0 or later | Centralized and Embedded | Tap/SPAN aggregation and In-line redirection |
| Cisco Nexus 3164Q Series Switch | Cisco Nexus Data Broker 3.0 or later | Centralized and Embedded | Tap/SPAN aggregation only |
| Cisco Nexus 3200 Series Switch | Cisco Nexus Data Broker 3.0 or later | Centralized and Embedded | Tap/SPAN aggregation only In-line redirection |
| Cisco Nexus 3500 Series Switch | Cisco Nexus Data Broker 3.0 or later | Centralized and Embedded | Tap/SPAN aggregation only |
| Cisco Nexus 9200 Series Switch | Cisco Nexus Data Broker 3.1 or later | Centralized and Embedded Note: Cisco Nexus 9200 Series switches support only one switch deployment. | Tap/SPAN aggregation only |
| Cisco Nexus 9300 Series Switch | Cisco Nexus Data Broker 3.0 or later | Centralized and Embedded | Tap/SPAN aggregation and In-line redirection |
| Cisco Nexus 9300-EX Series Switch | Cisco Nexus Data Broker 3.1 or later | Centralized and Embedded | Tap/SPAN aggregation only |

| Cisco Nexus 9300-FX | Cisco Nexus Data Broker | Centralized and Embedded | Tap/SPAN aggregation |
|--------------------------|-------------------------|--------------------------|---------------------------|
| Series Switch | 3.5 or later | | only |
| Cisco Nexus 9332C Series | Cisco Nexus Data Broker | Centralized and Embedded | Tap/SPAN aggregation |
| Switch | 3.8 or later | | only |
| Cisco Nexus 9364C Series | Cisco Nexus Data Broker | Centralized and Embedded | Tap/SPAN aggregation |
| Switch | 3.8 or later | | only |
| Cisco Nexus 9500 Series | Cisco Nexus Data Broker | Centralized and Embedded | |
| Switch | 3.0 or later | | |
| Supported Modules: | | | |
| ■ N9K-X9464TX | | | |
| | | | Tap/SPAN aggregation only |
| Cisco Nexus 9500-EX | Cisco Nexus Data Broker | Centralized and Embedded | |
| Series Switch | 3.5 or later | | |
| Supported Modules: | | | |
| ■ N9K-X97160YC-EX | | | |
| ■ N9K-X9732C-EX | | | |
| | | | Tap/SPAN aggregation only |
| Cisco Nexus 9500-FX | Cisco Nexus Data Broker | Centralized and Embedded | Tap/SPAN aggregation |
| Series Switch | 3.5 or later | | only |
| Cisco Nexus 31100 Series | Cisco Nexus Data Broker | Centralized and Embedded | Tap/SPAN aggregation and |
| Switch | 3.7 or later | | In-line redirection |
| Cisco Nexus 9300-FX2 | Cisco Nexus Data Broker | Centralized and Embedded | Tap/SPAN aggregation |
| Series Switch | 3.7 or later | | only |

Cisco NDB Hardware and Software Interoperability Matrix

The following table lists the hardware and software interoperability matrix for Cisco NDB, Release 3.9:

| Nexus Switch Model(s) | Implementation Type | Supported NX-OS Versions | OpenFlow Agent |
|-----------------------|---------------------|-------------------------------|----------------|
| 3048/3064/3172 | OpenFlow | 6.0(2)U6(x), I2(x), and I3(x) | 1.1.5 |

| 3048/3064/3172 | OpenFlow | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to 7.0(3)I7(9), 9.2(1) to 9.2(4), 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9). | 2.14 |
|----------------|----------|---|----------------|
| 3046/3064 | NX-API | 6.0(2)U6(x), 7.0(3)I4(1) to 7.0(3)I4(8b) | Not supported |
| 3172 | NX-API | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to, 7.0(3)I7(9), 9.2(1) to 9.2(4), 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9). | Not applicable |
| 3164 | OpenFlow | Not supported | Not supported |
| 3164 | NX-API | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to 7.0(3)I7(9), 9.2(1) to 9.2(4), 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9). | Not applicable |
| 3232 | OpenFlow | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to 7.0(3)I7(9), 9.2(1) to 9.2(4), 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9). | 2.14 |
| 3232 | NX-API | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to 7.0(3)I7(9), 9.2(1) to 9.2(4), 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9). | Not applicable |

| | 1 | T | T |
|--|----------|---|----------------|
| 3548 | OpenFlow | 6.0(2)A6(x) and 6.0(2)A8(x). I7(5) and I7(5a), and 9.3(1) to 9.3(5), 9.3(7a), 9.3(8), 9.3(9). | 1.1.5 |
| | | (OF agent is not required) | |
| | | 7.0(3)I7(2) to 7.0(3)I7(9) | |
| 3548 | NX-API | Not supported | Not supported |
| 92160/92304 | OpenFlow | Not supported | Not supported |
| 92160/923041 | NX-API | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to 7.0(3)I7(9), 9.2(1) to 9.2(4), 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 10.1(2), 9.3(9). | Not applicable |
| | | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to 7.0(3)I7(9), 9.2(1) to 9.2(4), 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8),10.1(2), 9.3(9). | |
| 9372/9396¹/93128¹ | OpenFlow | | 2.14 |
| | | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to 7.0(3)I7(9), 9.2(1) to 9.2(4), 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9), 10.1(2). | |
| 9372/9396 ¹ /93128 ¹ | NX-API | | Not applicable |
| 9364C/9332C | NX-API | 9.2(3) to 9.2(4) and 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9), 10.1(2). | NA |
| 9364C/9332C | OpenFlow | Not supported | Not supported |
| 93180LC-EX ¹ / 93108TC-EX / 93180YC-EX | OpenFlow | Not supported | Not supported |

| | <u> </u> | 7.0(2)(4(1) +0.7.0(2)(4(0) | |
|--|----------|--|----------------|
| | | 7.0(3)I4(1) to 7.0(3)I4(9), 7.0(3)I6(1), 7.0(3)I7(2) to | |
| | | 7.0(3)17(9), 9.2(1) to | |
| | | 9.2(4), 9.3(1) to 9.3(5), | |
| | | 9.3(7), 9.3(7a), 9.3(8), | |
| , | | 9.3(9), 10.1(2). | |
| 93180LC-EX ¹ / 93108TC-EX / | NV ADI | | NΙΛ |
| 93180YC-EX | NX-API | | NA |
| 93108TC-FX / 93180YC-FX | OpenFlow | Not supported | Not supported |
| | | 7.0(3)I7(1) to 7.0(3)I7(6), | |
| | | 7.0(3)17(8), 7.0(3)17(9), | |
| | | 9.2(1) to 9.2(4), 9.3(1) to | |
| | | 9.3(5), 9.3(7), 9.3(7a), | |
| 93108TC-FX / 93180YC-FX | NX-API | 9.3(8), 9.3(9), 10.1(2). | Not applicable |
| 9504/9508/9516 | OpenFlow | Not supported | Not supported |
| | | 7.0(3)I4(1) to 7.0(3)I4(9), | |
| | | 7.0(3)I6(1), 7.0(3)I7(2) to | |
| | | 7.0(3)I7(9), 9.2(1) to | |
| | | 9.2(4), 9.3(1) to 9.3(5), | |
| | | 9.3(7), 9.3(7a), 9.3(8), | |
| | | 9.3(9). | |
| 9504/9508/9516 | NX-API | | Not applicable |
| | | 7.0(3)I4(1) to 7.0(3)I4(9), | |
| | | 7.0(3)I6(1), 7.0(3)I7(2) to | |
| | | 7.0(3)I7(9), 9.2(1) to | |
| | | 9.2(4), 9.3(1) to 9.3(5), | |
| | | 9.3(7), 9.3(7a), 9.3(8), | |
| | | 9.3(9), 10.1(2). | |
| 31108TC-V / 31108PC-V | NX-API | | Not applicable |
| | | 7.0(3)I4(1) to 7.0(3)I4(9), | |
| | | 7.0(3)I6(1), 7.0(3)I7(2) to | |
| | | 7.0(3)I7(9), 9.2(1) to | |
| | | 9.2(4), 9.3(1) to 9.3(5), | |
| | | 9.3(7), 9.3(7a), 9.3(8), | |
| | | 9.3(9), 10.1(2). | |
| 31108TC-V / 31108PC-V | OpenFlow | | Not applicable |
| | | 7.0(3)I7(5), 7.0(3)I7(5a), | |
| | | 7.0(3)17(6) to 7.0(3)17(9), | |
| | | 9.2(1) to 9.2(4), 9.3(1) to | |
| | i | 9.3(5), 9.3(7), 9.3(7a), | |
| 9336C-FX2 / 93240YC-FX2 | NX-API | 9.3(8), 9.3(9),10.1(2). | Not applicable |

Supported APIC Versions

| N9K-C93360YC-FX2 NX-API | 9.3(1) to 9.3(5), 9.3(7), 9.3(7a), 9.3(8), 9.3(9),10.1(2). | Not applicable |
|-------------------------|--|----------------|
|-------------------------|--|----------------|

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

Supported APIC Versions

The following table lists the APIC versions supported on Cisco NDB for Release 3.9:

| APIC Version | Cisco NDB (Minimium Version) | Supported Deployment Mode |
|------------------|------------------------------|---------------------------|
| 1.1, 1.2 and 2.0 | NDB 3.0 | Centralized only |
| 2.x | NDB 3.1 and above | Centralized only |
| 4.x | NDB 3.7 and above | Centralized only |

Verified Scalability Limits

Verified Scalability Limits

The following table lists the scalability limits for centralized deployment on Cisco:

| Description | Small | Medium | Large |
|--|-------|--------|-------|
| Number of switches used for Tap and SPAN aggregation | 25 | 50 | 75 |

Licensing Information

For details about NDB Licensing, see the Cisco Nexus Data Broker Licensing section in the Ordering guide.

Guidelines and Limitations

This section lists guidelines and limitations for features in Cisco Nexus Data Broker Release 3.9:

- Cisco NDB Openflow embedded is not supported on Cisco Nexus 3000/9000 series switches running 7.0(3)I6.1 and 7.0(3)I7.1 NXOS image.
- Dry Run feature is disabled by default. To enable this feature, see Cisco NDB Configuration Guide.
- By default, NDB cluster URL is https://<NDBIP>:8443
- NDB supports Google Chrome version 45.x and later, FireFox version 45.x and later, and Internet Explorer version 11 and later.
- The switchport mode trunk and spanning-tree bpdufilter enable command should be enabled for all switch ports on all Cisco NDB managed switches.
- Cisco Nexus switches managed by Cisco NDB 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 NDB and switch through HTTPS, start Cisco NXB in TLS mode for the first time only. Subsequent Cisco NDB restarts does not require TLS mode. For more details, refer to Cisco Nexus Data Broker Configuration Guide.
- The TLS KeyStore and TrustStore passwords are sent to the Cisco Nexus Data Broker so it can read the password-protected TLS KeyStore and TrustStore files only through HTTPS.

./xnc config-keystore-passwords [--user {user} --password {password} --url {url} --verbose --prompt --keystore-password {keystore_password} --truststore-password {truststore_password}.

Here default URL to be - https://Nexus Data Broker IP:8443

 Cisco Nexus 92XX devices does not support the QnQ, you cannot use this switch in the Multi switch environment.

Caveats

- A Cisco NDB instance can support either the OpenFlow or NX-API configuration mode, it does not support both configuration modes in the same Cisco NDB instance.
- VLAN based IP filtering is not supported for Nexus Series switch with NX-OS Release 7.0(3)I6.1. Hence, the filtering fails when you filter the traffic for the following series of switches: 92160YC-X,92300YC, 9272Q, 92304Q, and 9236C.
- Do not configure TACACS on the Cisco NDB switches. You can configure it only for authentication and authorization. It is not to be used for accounting.
- Cisco NX-OS Release 7.0(3)I5(1), 7.0(3)I5(2), and 7.0(3)I7(2) are not recommended for OpenFlow and NX-API deployments.
- Cisco NDB Embedded will be supported on NX-OS 7.0(I4).1 onwards, and 7.0(3)I6.1 onwards. For more information, see the Nexus Data Broker Hardware and Software Interoperability Matrix section.

Caveats

Note: All caveats listed in this document are those that were reported against the Cisco NDB.

<u>Cisco Bug Search Tool</u> (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.

Note: All caveats listed in this document are those that were reported against the Cisco NDB.

This section includes the following topics:

- NDB Resolved Caveats
- NDB Open Caveats
- NX-OS Known Caveats

NDB Resolved Caveats

The following table lists the Resolved Caveat in Release 3.9. Click the bug ID to access the Bug Search tool and see additional information about the bug.

| Bug ID | Description |
|-------------------|--|
| <u>CSCvi33830</u> | Unable to configure ports/connections after creating slice user. |
| <u>CSCvs34338</u> | Slice is not compatible with Auxiliary devices, Swagger APIs, and Span Management (ACI/PS) |

Caveats

| CSCvk47961 | Port configuration fails while importing the json file with unsupported characters in the description. |
|------------|--|
| CSCvg26989 | Export operation does not retrieve Node specific configuration. |
| CSCvs06129 | Connection in failed state post upgrading NDB from 2.x, 3.0 and 3.1 to 3.8.1 and above. |

Caveats

NDB Open Caveats

The following table lists the open caveats in the Cisco Release 3.9. Click the bug ID to access the Bug Search tool and see additional information about the bug.

| Bug ID | Description |
|-------------------|---|
| CSCvm65172 | Direction change should be supported while editing span session. |
| CSCvg29188 | Limitations in uploading a configuration that has redirections (bi-directional). |
| <u>CSCvg10351</u> | NDB Server backup entries are not shown in the UI after the upgrade. |
| CSCvk39789 | "Could not commit transaction" exception thrown at NDB. |
| CSCvs65911 | Port Channel Configuration is not getting exported. |
| <u>CSCvt75405</u> | Layout of Connection Table is not proper in 3.9. |
| <u>CSCvt75421</u> | Upgrade failed with Remote Source configuration from 3.8 to 3.9 in a sequence. |
| CSCvo98675 | Upgrade is not happening on doing any operations on second session. |
| CSCvt75433 | Search by Description field in NDB Connections tab is not working. |
| <u>CSCvt62492</u> | Port-channel operations on ISL links results in failure of Link discovery. |
| CSCvu16131 | N9K-C93180YC-FX can't connect to NDB after upgrade to 3.9.0. |
| CSCvu17887 | Process Thread-15 takes 97% of CPU in NDB 3.9.0. |
| <u>CSCvz99026</u> | Not able to install connection with filter having IPv6/IPV4+VLAN in 10.1(2) NXOS. |

NX-OS Known Caveats

The following table lists the known caveats from previous releases. Click the bug ID to access the Bug Search tool and see additional information about the bug.

| Bug ID | Description |
|------------|--|
| CSCvo85210 | Can't match MAC address in IP packet, it will hit deny any any in IP ACLs. |
| CSCvq61822 | Need Error handling for feature SFLOW with ERSPAN destination since they are mutually exclusive. |
| CSCvt15642 | Can't match MAC address in IP packet, it will hit deny any any in IP ACLs. |
| CSCvo21059 | MPLS tapagg should allow deny ace without redirection option. |
| CSCvd15455 | Openflow - Portchannel links are not seen on NDB, Release 2.1. |
| CSCvc87992 | Connections are not matched with the VLAN ID of source ports on ISL links with an IPv6 filter. |
| CSCvt15877 | Not able to use ipv6 + vlan on the ISL link. |

Related Documentation

| <u>CSCvs50998</u> | IP ACL with UDF match removes internal VLAN tag in Cisco NX-OS Release 9.3(2). |
|-------------------|---|
| CSCvr01876 | Re-direct STP, CDP packets similar to LLDP port for Openflow. |
| <u>CSCvs59353</u> | After device reload guestshell activation fails due to low memory on devices for NXOS 9.x.x version. |
| CSCvs75586 | IP/GRE traffic not matching TapAgg ACL in 9.2(3). |
| CSCvs79485 | After an upgrade the odd vlan-id numbers are written incorrectly in TCAM 9.3(3). |
| <u>CSCvt14639</u> | Not able to convert Layer 2 ports to layer 3 in 9.3(3). |
| <u>CSCvt03231</u> | ACL with HTTP tcp-option-length redirect statement are not matching traffic correctly in 9.3(3). |
| <u>CSCvt37799</u> | ERSPAN Dest doesn't work when L2 port with mode tap-aggregation is converted to L3 port in 9.3(3). |
| <u>CSCvt92735</u> | After reloading switch N9372PX-118 in GS it takes more time to send interface details to NDB server. |
| <u>CSCvv22414</u> | 9508/9516-with 4k VLAN scale modules go to powered down state when upgrading to 9.3.3 and above. |
| CSCvx45678 | After device reload guestshell activation fails due to low memory on devices for NXOS 9.3(5) version. |
| CSCvx32214 | Dot1q-tunnel(QinQ) is not programmed correctly for port-channel members in NXOS 9.3(5). |
| <u>CSCvx79293</u> | Not seeing timestamptag on interface after configuring the cmds on C9504 platform in nxos 9.3.7. |
| CSCvy16218 | Username is shown as 'guestshell' irrespective of user executes the guestshell. |
| <u>CSCvz21072</u> | NDB throws NumberFormatException error with NX-OS 9.3(7a) devices. |

Related Documentation

The entire Cisco NDB documentation set is available at the following URL:

 $\frac{http://www.cisco.com/c/en/us/support/cloud-systems-management/nexus-data-broker/tsd-products-support-series-home.html}{}$

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation and gathering additional information, see the monthly What's New in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:

https://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

Open a service request online at:

https://tools.cisco.com/ServiceRequestTool/create/launch.do

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