Cisco Nexus Data Broker Release Notes, Release 2.2.2

This document describes the features, system requirements, limitations, and caveats in the Cisco Nexus Data Broker Release 2.2.2.

Online History Change

| Date | Description |
| --- | --- |
| May 20, 2016 | Created the release notes for Cisco Nexus Data Broker Release 2.2.2. |

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Introduction

Visibility into application traffic has traditionally been important for infrastructure operations to maintain security, troubleshooting, and compliance, and to perform resource planning. 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 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 Data Broker also provides management support for multiple disjointed Cisco Nexus Data Broker networks. You can manage multiple Cisco Nexus Data Broker topologies that may be disjointed using the same application instance. For example, if you have five data centers and want to deploy an independent Cisco Nexus Data Broker solution for each data center, you can manage all five independent deployments using a single application instance by creating a logical partition (network slice) for each monitored network.

Features

Cisco Nexus Data Broker 2.2.2 provides the features from the previous Cisco Nexus Data Broker releases listed below. For a list of newly added features specific to this release, see [New Features](#_Toc422999223):

* Support for entry of a VLAN range when creating a filter.
* Ability to clone filters and connections.
* Ability to assign multiple filters to a connection.
* Ability to configure both allow and deny filters for the same connection.
* Enable time stamp tagging using PTP on Cisco Nexus 3500 Series switches.
* Display flow and port statistics for devices in the Cisco Nexus Data Broker main user interface.
* Display flow statistics per connection and for each device within the connection.
* Enable packet truncation on input ports on Cisco Nexus 3500 Series switches.
* Support for Cisco Nexus 3164 and 31128 switches.
* Support for Cisco Nexus 9300 Series switches.
* Scalable topology for Test Access Point (TAP) and Switched Port Analyzer (SPAN) port aggregation.
* Support for Q-in-Q to tag input source TAP and SPAN ports.
* Symmetric load balancing.
* Support for MPLS tag stripping.
* Connections matching monitoring traffic based on Layer 1 through Layer 4 information.
* Support for Layer 7 filtering for HTTP traffic.
* The ability to replicate and forward traffic to multiple monitoring tools.
* Time stamp tagging using Precision Time Protocol (PTP).
* Reaction to changes in the TAP/SPAN aggregation network.
* Security features, such as role-based access control (RBAC), and integration with an external Active Directory (AD) using RADIUS or TACACS for authentication, authorization, and accounting (AAA).
* End-to-end path visibility, including both port and flow level statistics for troubleshooting.
* Robust Representational State Transfer (REST) API and a web-based GUI for all functions.
* Support for Cisco Plug-in for OpenFlow, version 1.0
* Support for Cisco NX-API mode configuration on the following:
* Cisco Nexus 9000 Series switches
* Cisco Nexus 3100 Series switches
* Configure multiple ports for Edge span and Edge tap.
* Device addition using Device name.
* Inline monitoring.
* Redirection functionality for security.
* Limit Local Authentication Fallback.

The following features require NXOS 7.0(3)|2(2a) or later:

* Configure matching on HTTP methods and redirect traffic based on that with NX-API.
* MPLS tag striping on the following:
* Cisco Nexus 3100 Series switches
* Cisco Nexus 9000 Series switches
* OpenFlow support for the following switches:
* Cisco Nexus 9300 Series
* Cisco Nexus 3064 switch
* Cisco Nexus 3048 switch
* Q-in-Q on the following:
* Cisco Nexus 3000 Series switches
* Cisco Nexus 3100 Series switches
* Cisco Nexus 9000 Series switches

Cisco Nexus Data Broker enables you to:

* Classify SPAN and TAP ports.
* Add monitoring devices to capture network traffic.
* Filter which traffic should be monitored.
* Redirect packets from a single or multiple SPAN or TAP ports to multiple monitoring devices through delivery ports.
* Restrict which users can view and modify the monitoring system.

Supported Deployment Mode

Cisco Nexus Data Broker 2.2.2 patch release is available only for embedded mode of deployments.

Supported NXOS Versions

NXOS Versions supported in OpenFlow mode:

* 6.0(2)U6(X) and later on Cisco Nexus 3000 Series switches
* 6.0(2)A6(5a) and later on Cisco Nexus 3500 Series switches
* 7.0(3)I2(2a) and later on Cisco Nexus 9000 Series switches

NXOS Versions supported in NX-API mode:

* 7.0(3)I2(2a) and later on Cisco Nexus 9000 Series switches
* 7.0(3)I2(2a) and later on Cisco Nexus 3100 Series switches

Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the [Cisco Bug Search Tool](https://tools.cisco.com/bugsearch/). This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.

Note: You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. if you do not have one, you can [register for an account](https://tools.cisco.com/IDREG/guestRegistration.do).

For more information about the Cisco Bug Search Tool, see the [Bug Search Tool Help & FAQ](http://www.cisco.com/web/applicat/cbsshelp/help.html).

This section includes the following topics:

* Resolved Bugs in this Release
* Open Bugs for this Release

Resolved Bugs in this Release

Table 1 lists the descriptions of resolved caveats in Cisco Nexus Data Broker Release 2.2.2. You can use the bug ID to search the [Cisco Bug Search Tool](https://tools.cisco.com/bugsearch/) for details about the bug.

Table 1 Resolved Bugs in Cisco Nexus Data Broker Release 2.2.2

| Bug ID | Description |
| --- | --- |
| [CSCuy04595](https://tools.cisco.com/bugsearch/bug/CSCuy04595) | The following is applicable only for Nexus Data Broker embedded deployments:  ERROR and WARNING messages are seen in the XNC.log. The messages state that there was an inability to connect to a device in embedded Nexus Data Broker 2.2.1 OF. |
| [CSCuz06445](https://tools.cisco.com/bugsearch/bug/CSCuz06445) | Flows with ethertype (dl\_type) 0x0 do not match all the packets on Cisco Nexus 3500 Series Switches. |
| [CSCuz15259](https://tools.cisco.com/bugsearch/bug/CSCuz15259) | The per Connection set VLAN feature does not work when source port and monitoring device are on the same node. |
| [CSCuy11925](https://tools.cisco.com/bugsearch/bug/CSCuy11925) | The GUI Login screen for Nexus Data Broker embedded 2.2.1 shows the version number as "2.2.0.” |

Open Bugs for this Release

Table 2 lists the descriptions of open bugs in Cisco Nexus Data Broker Release 2.2.2. You can use the bug ID to search the [Cisco Bug Search Tool](https://tools.cisco.com/bugsearch/) for details about the bug.

Table 2 Open Bugs in Cisco Nexus Data Broker Release 2.2.2

| Bug ID | Description |
| --- | --- |
| [CSCuu41674](https://tools.cisco.com/bugsearch/bug/CSCuu41674) | Removing an existing connection fails and a pop-up window appears to inform the user about connection inconsistency and request the user to fix the problem through the Troubleshooting tab. After fixing the connection through the Troubleshooting tab, the connection status is displayed in green, and the connection is not removed from NDB and the device. This issue occurs occasionally only if NX-API device connection is lost at the exact time that the connection is being removed. |

Usage Guidelines

This section lists the usage guidelines for the Cisco Nexus Data Broker.

* HTTP access on port 8080 is disabled by default. Only HTTPS access on port 8443 is enabled. If required, HTTP can be enabled by editing the tomcat.xml file. Please refer to *Cisco Nexus Data Broker Configuration Guide, Release 2.2* for details.
* For embedded mode of deployment, Nexus Data Broker web server process binds to the switch management interface IP address. Therefore an IP address should be defined for mgmt0 interface and this interface should be up.
* When removing devices from the Cisco Nexus Data Broker, the device associated port definitions and connections should be removed first. Otherwise, the device might contain stale configurations created by the Cisco Nexus Data Broker.
* For Cisco NX-API devices, there is a 2 minute or more wait after the Cisco Nexus Data Broker configuration operations (port definitions, connections creation/deletion, and stats) to reload the device and avoid any inconsistency between the Cisco Nexus Data Broker and the device.

Limitations

* The same Cisco Nexus Data Broker instance can support either the OpenFlow or NX-API configuration mode, but it does not support both configuration modes.

Device Support Matrix

**Error! Reference source not found.** lists the supported Cisco Nexus Data Broker 2.2.2 software for the various Cisco Nexus switches.

Table 3 Cisco Nexus Data Broker Application Device Support Matrix

| Device Model | Cisco Nexus Data Broker | Deployment Mode Supported | Supported Use Cases |
| --- | --- | --- | --- |
| Cisco Nexus 3000 Series | Cisco Nexus Data Broker 2.2.2 | Embedded | Tap/SPAN aggregation and  In-line monitoring |
| Cisco Nexus 3100 platform | Cisco Nexus Data Broker 2.2.2 | Embedded | Tap/SPAN aggregation and  In-line monitoring |
| Cisco Nexus 3164Q Switch | Cisco Nexus Data Broker 2.2.2 | Embedded | Tap/SPAN aggregation only |
| Cisco Nexus 3500 Series | Cisco Nexus Data Broker 2.2. | Embedded | Tap/SPAN aggregation only |
| Cisco Nexus 9300 platform | Cisco Nexus Data Broker 2.2.2 | Embedded | Tap/SPAN aggregation and  In-line monitoring |

Supported Web Browsers

The following web browsers are supported for Cisco Nexus Data Broker 2.2.2:

* Firefox 45.x and later
* Chrome 45.x and later

Note: Javascript 1.5 or a later version must be enabled in your browser.

Upgrading to Release 2.2.2

The Cisco Nexus Data Broker 2.2.2 is available in embedded version only. This section explains the supported method for upgrading your release.

|  |  |
| --- | --- |
| From | Supported Method |
| 2.0 or later | Direct upgrade is supported |
| Earlier than 2.0 | Perform the following procedure:   1. Upgrade to 2.0 2. Upgrade to 2.2.1 |

Related Documentation

For more information, see the related documents at the following link:

<http://www.cisco.com/c/en/us/support/cloud-systems-management/nexus-data-broker/tsd-products-support-series-home.html>

New Documentation

There are no new documents for this release.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see What’s New in Cisco Product Documentation at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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