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Cisco Nexus Dashboard
Data Broker

Contents

Introduction

Purpose, audience, and scope

This document describes the pricing, packaging structure, and ordering process for Cisco Nexus® Dashboard Data Broker (formerly Nexus Data Broker) software.

This guide is written for Cisco field staff and Cisco specialized channel partners.

For more detailed information about Cisco Nexus Dashboard Data Broker, go to: https://www.cisco.com/go/nexusdashboarddatabroker.

Ordering and quoting tools

Cisco Commerce is part of the suite of internet commerce tools used by Cisco for managing online ordering of Cisco® products. It can be used as the single workspace for all business transactions to register deals and to quote, configure, price, and order Cisco products, software, and services.

Cisco Commerce at Cisco.com (with password required) is located at: https://cisco-apps.cisco.com/cisco/psn/commerce.

All Cisco Nexus Dashboard Data Broker software licenses can be ordered through Cisco Commerce.

Orderability and first customer shipment

Cisco Nexus Dashboard Data Broker is orderable now.

Cisco Nexus Dashboard Data Broker with Cisco Nexus switches

Cisco Nexus Dashboard Data Broker (NDDB) with Cisco Nexus switches is a software-defined, programmable solution for packet brokering. Packet brokering is the aggregation of network traffic mirrored or copied using network/optical TAPs or the Cisco Switched Port Analyzer (SPAN) for monitoring and visibility. In contrast to monitoring solutions based on traditional packet brokers, the Cisco NDDB 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 security, compliance, and application performance. It also enables real-time traffic visibility with an event-based approach through northbound APIs.

Cisco Nexus Dashboard Data Broker can be run in the following modes:

- Centralized mode on a separate compute node (virtual machine or bare metal)
- Embedded mode on Cisco Nexus 3000 or 9000 series switches

Cisco Nexus Dashboard Data Broker supported devicesx

Cisco Nexus Dashboard Data Broker support is available on both fixed and modular Cisco Nexus switches. Table 1 lists the support information. Use the device-grouping information to determine the appropriate license part number to use.

Table 1.   Cisco Nexus **Dashboard** Data Broker device support and grouping matrix

Group	Supported switch models	Supported deployment options
Cisco Nexus fixed switches	Cisco Nexus 3500 Series Switches	Centralized and embedded
	Cisco Nexus 9300 platform switches	Centralized and embedded
Cisco Nexus modular switches: medium-sized form factor	Cisco Nexus 9504 Switch (4-slot switch) **Note:** Cisco Nexus 3600-R line cards are NOT supported.	Centralized and embedded
Cisco Nexus modular switches: large form factor	Cisco Nexus 9508 Switch (8-slot switch)	Centralized and embedded
	Cisco Nexus 9516 Switch (16-slot switch) **Note:** Cisco Nexus 3600-R line cards are NOT supported.	Centralized and embedded

OpenFlow and NX-API support on Cisco Nexus Dashboard Data Broker

Cisco Nexus Dashboard Data Broker supports both OpenFlow and NX-API.

OpenFlow is supported on Cisco Nexus 3500 Series Switches. For details on the PIDs and support, please refer to the "**Cisco NDB Hardware and Software Interoperability Matrix" in the Cisco Nexus Dashboard Data Broker release guide**: https://www.cisco.com/c/en/us/td/docs/net_mgmt/xnc/nexus_data_broker/release_notes/nexus-data-broker-release-notes-39.html

NX-API is supported on all Cisco Nexus 9300 (FX/FX2/FX3/GX/GX2A) and 9500 switches (FX line cards).

Cisco Nexus 3550 switch as TAP device

Cisco Nexus Dashboard Data Broker supports the Nexus 3550 switch (Cisco Nexus 3550-F Fusion L1) as a TAP device. The 3550-F can be onboarded and programmed as a TAP device from the Nexus **Dashboard** Data Broker controller. This L1 switch can replace up to 16 optical TAPs in a small 1RU form factor.

Cisco Nexus 3550-Fusion switch has four bays, each of which houses a line card with 16 SFP ports. Depending on the number of TAPs required, these modules should be ordered in addition to the switch. PID details are given in Table 6, below.

EOL and EOS notices for Cisco Nexus 9000 and Cisco Nexus 3000 series switches

Please refer to the latest EOL and EOS notifications in the link given below before placing an order for the switches for NDDB.

EOL and EOS notices for Cisco Nexus 9000 Series Switches: https://www.cisco.com/c/en/us/products/switches/nexus-9000-series-switches/eos-eol-notice-listing.html.

EOL and EOS notices for Cisco Nexus 3000 Series Switches: https://www.cisco.com/c/en/us/products/switches/nexus-3000-series-switches/eos-eol-notice-listing.html.

Cisco Nexus Dashboard Data Broker licensing

A Cisco Nexus Dashboard Data Broker add-on license is required for each NDDB switch that will be used for packet brokering. An NDDB add-on license is available primarily in a subscription model (a subscription license is available only for Cisco Nexus 9000 Series Switches at this time). The part numbers differ depending on the switch form factor and on the term length in the case of the subscription model. But the same part number can be used for all deployment methods of the NDDB controller.

Tables 2 and 3 provide ordering information for the Cisco Nexus Dashboard Data Broker software license when buying along with the Nexus switches (under "Edit Options" in Cisco Commerce).

Table 2.   Ordering information for Cisco Nexus Dashboard Data Broker software on Cisco Nexus 9000 Series Switches

License type	Part number	Description
Subscription		
	C1-N9K-NDB-GF-3Y	Cisco ONE NDB license for 1 Cisco Nexus 9200/9300 fixed switch for 3-year term (1GE switches)
	C1-N9K-NDB-GF-5Y	Cisco ONE NDB license for 1 Cisco Nexus 9200/9300 fixed switch for 5-year term (1GE switches)
	C1-N9K-NDB-GF-7Y	Cisco ONE NDB license for 1 Cisco Nexus 9200/9300 fixed switch for 7-year term (1GE switches)
	C1-N9K-NDB-XF-3Y	Cisco ONE NDB license for 1 Cisco Nexus 9200/9300 fixed switch for 3-year term (10G and above switches)
	C1-N9K-NDB-XF-5Y	Cisco ONE NDB license for 1 Cisco Nexus 9200/9300 fixed switch for 5-year term (10G and above switches)
	C1-N9K-NDB-XF-7Y	Cisco ONE NDB license for 1 Cisco Nexus 9200/9300 fixed switch for 7-year term (10G and above switches)

License type	Part number	Description
	C1-N9K-NDB-M4-3Y	Cisco ONE NDB license for 1 Cisco Nexus 9504 modular switch for 3-year term (medium form factor)
	C1-N9K-NDB-M4-5Y	Cisco ONE NDB license for 1 Cisco Nexus 9504 modular switch for 5-year term (medium form factor)
	C1-N9K-NDB-M4-7Y	Cisco ONE NDB license for 1 Cisco Nexus 9504 modular switch for 7-year term (medium form factor)
	C1-N9K-NDB-M816-3Y	Cisco ONE NDB license for 1 Cisco Nexus 9508 or 9516 modular switch for 3-year term (large form factor)
	C1-N9K-NDB-M816-5Y	Cisco ONE NDB license for 1 Cisco Nexus 9508 or 9516 modular switch for 5-year term (large form factor)
	C1-N9K-NDB-M816-7Y	Cisco ONE NDB license for 1 Cisco Nexus 9508 or 9516 modular switch for 7-year term (large form factor)

Table 3.   Ordering information for Cisco Nexus Dashboard Data Broker software on Cisco Nexus 3000 Series Switches

License type	Part number	Description
Subscription		
	N3K-NDB-3Y	NDB subscription license for 1 Cisco Nexus 3000 switch for 3-year term
	N3K-NDB-5Y	NDB subscription license for 1 Cisco Nexus 3000 switch for 5-year term
	N3K-NDB-7Y	NDB subscription license for 1 Cisco Nexus 3000 switch for 7-year term

Table 4 provides ordering information for the Cisco Nexus Dashboard Data Broker software license when any of the existing Nexus switches are repurposed as NDDB switches (a-la-carte software license). These a-la-carte licenses are supported only in a perpetual model.

Table 4.   Ordering information for Cisco Nexus Dashboard Data Broker software (a-la-carte software license only).

License type	Part number	Description
Perpetual		
	NDB-FX-SWT-K9	NDB license for 1 Cisco Nexus fixed switch • Cisco Nexus 9200 • Cisco Nexus 9300 • Cisco Nexus 3000 • Cisco Nexus 3100 • Cisco Nexus 3200 • Cisco Nexus 3500
	L-NDB-FX-SWT-K9=	NDB license for 1 Cisco Nexus fixed switch (license required to convert or repurpose an existing switch to an NDDB switch) • Cisco Nexus 9200 • Cisco Nexus 9300

License type	Part number	Description
		• Cisco Nexus 3000 • Cisco Nexus 3100 • Cisco Nexus 3200 • Cisco Nexus 3500
	L-NDB-MODM-SWT-K9=	NDB license for 1 Cisco Nexus modular medium form factor switch (Cisco Nexus 9504) (license required to convert or repurpose an existing switch to an NDDB switch)
	L-NDB-MODL-SWT-K9=	NDB license for 1 Cisco Nexus modular large form factor switch (Cisco Nexus 9508/ 9516) (license required to convert or repurpose an existing switch to an NDDB switch)

Table 5 provides ordering information for the Nexus NX-OS software license, which is needed for the NDB/aggregation switches. Also, the table gives the license requirements Cisco IOS-XE for Cisco Catalyst® 9000 Switches, which will be supported as production switches starting from Cisco Nexus Dashboard Data Broker Release 3.10.1.

Table 5.   Release license requirements

Software image	Software license type	Description
NX-OS	Cisco NX-OS Essentials	For all Nexus switches that will be used as NDB/Tap-Agg switches
IOS-XE	Cisco DNA Essentials	License type needed on the Catalyst-9K switch if SPAN needs to be configured The Catalyst switch will be the production switch and NOT an NDB/Tap-Agg switch.
IOS-XE	Cisco DNA Advantage or Cisco DNA Premier	License type needed on the Catalyst-9K switch if ERSPAN needs to be configured The Catalyst switch will be the production switch and NOT an NDB/Tap-Agg switch.

Note 1: The Cisco NX-OS software image part number must be added because the NDDB switch runs an NX-OS image.

Note 2: If the NDDB license does not appear as an add-on license, an a-la-carte license for the right form factor can be ordered as a workaround.

Note 3: The IOS-XE software image part number must be added when one or more of the production switches are Catalyst switches.

Note 4: To evaluate NDDB in the lab, a separate license is not required; you can perform an evaluation of NDDB without any license. A license needs to be purchased before deploying the NDDB in production.

Table 6. Ordering details for TAP switch

Part number	Description	Qty
N35-F-48X	Cisco Nexus 3550-F Fusion series switches and multiplexers	Per design
N35-F-X16P	Cisco Nexus 3550-F Fusion 16-port SFP line card	Per design

Sample solution configuration with Cisco Nexus Dashboard Data Broker and Cisco Nexus 9000 Series Switches

Table 7. Sample order for a Cisco Nexus C93180YC-FX switch with a 3-year subscription Cisco Nexus Dashboard Data Broker license

Part number	Description	Qty
N9K-C93180YC-FX	48 x 1/10/25-Gbps fiber ports and 6 x 40/100-Gbps QSFP28 ports	1
NXOS-10.3.1	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.1	1
C1-N9K-NDB-XF-3Y	Cisco ONE Nexus Data Broker 3-year license term N9K XF	1

Table 8. Sample order for a Cisco Nexus 93360YC-FX2 switch with a 3-year subscription Cisco Nexus Dashboard Data Broker license

Part number	Description	Qty
Nexus 93360YC-FX2	96 x 1/10/25-Gbps fiber ports and 12 x 40/100-Gbps QSFP28 ports	1
NXOS-10.3.1	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.1	1
C1-N9K-NDB-XF-3Y	Cisco ONE Nexus Data Broker 3-year term license for N9K XF	1

Table 9. Sample order for a Cisco Nexus 9364C-GX switch with a 3-year subscription Cisco Nexus Dashboard Data Broker license

Part number	Description	Qty
Nexus 9364C-GX	64 x 100/40-Gbps Quad Small Form-Factor Pluggable (QSFP28)	1
NXOS-10.3.1	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.1	1
C1-N9K-NDB-XF-3Y	Cisco ONE Nexus Data Broker 3-year term license for N9K	1

Table 10. Sample order for a Cisco Nexus N9K-C9364C switch with a 3-year subscription Cisco Nexus Dashboard Data Broker license

Part number	Description	Qty
N9K-C9364C	64 x 100/40-Gbps Quad Small Form-Factor Pluggable (QSFP28)	1
NXOS-10.3.1	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.1	1
C1-N9K-NDB-XF-3Y	Cisco ONE Nexus Data Broker 3-year term license for N9K	1

Table 11. Sample order for Cisco Nexus C9504 switch with EX line cards and 5-year subscription Cisco Nexus Dashboard Data Broker license

Part Number	Description	Qty
N9K-C9504	Cisco Nexus 9504 chassis with 4 line-card slots	1
NXOS-10.3.1	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.1	1
C1-N9K-NDB-M4-5Y	Cisco Nexus Dashboard Data Broker license term N9K M4, 5Y	1
N9K-X97160YC-EX	Cisco Nexus 9500 line card, 48-port 10G/25G with 4-port 100G (QSFP28)	1
N9K-X9736C-EX	Cisco Nexus 9500 36-port 100G (QSFP28) line card	1
N9K-X9736C-FX	Cisco Nexus 9500 36-port 100G (QSFP28) line card	1

Note: Part numbers unrelated to NDDB are omitted in the sample orders for simplicity; other product configuration options must be followed as specified by the ordering tool.

For more information

For more information, please visit https://www.cisco.com/go/nexusdashboarddatabroker or contact your local account representative for pricing and any questions about ordering.