

# Cisco Nexus Dashboard Data Broker

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## 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 Data Broker software licenses can be ordered through Cisco Commerce.

### **Orderability and first customer shipment**

Cisco Nexus Data Broker is orderable now.

## Cisco Nexus Data Broker with Cisco Nexus switches

Cisco Nexus Data Broker (NDB) 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 NDB 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 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 Data Broker supported devices

Cisco Nexus 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 Data Broker device support and grouping matrix

Group	Supported switch models	Supported deployment options
<b>Cisco Nexus fixed switches</b>	Cisco Nexus 3500 Series Switches Cisco Nexus 9300 platform switches  *9200 series switches are no longer supported as NDB switches.	Centralized and embedded Centralized and embedded
<b>Cisco Nexus modular switches: medium-sized form factor</b>	Cisco Nexus 9504 Switch (4-slot switch) <b>Note:</b> Cisco Nexus 3600-R line cards are NOT supported.	Centralized and embedded
<b>Cisco Nexus modular switches: large form factor</b>	Cisco Nexus 9508 Switch (8-slot switch) Cisco Nexus 9516 Switch (16-slot switch) <b>Note:</b> Cisco Nexus 3600-R line cards are NOT supported.	Centralized and embedded Centralized and embedded

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

Cisco Nexus 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 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](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).

## 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 NDB.

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 Data Broker licensing

A Cisco Nexus Data Broker add-on license is required for each NDB switch that will be used for packet brokering. An NDB 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 NDB controller.

On each NDB switch, an NX-OS Essentials license is required in addition to the NDB Add-on license.

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

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

License type	Part number	Description
<b>Subscription</b>		
	C1-N9K-NDB-GF-3Y	Cisco ONE NDB license for 1 Cisco Nexus 9300 fixed switch for 3-year term (1GE switches)
	C1-N9K-NDB-GF-5Y	Cisco ONE NDB license for 1 Cisco Nexus 9300 fixed switch for 5-year term (1GE switches)
	C1-N9K-NDB-GF-7Y	Cisco ONE NDB license for 1 Cisco Nexus 9300 fixed switch for 7-year term (1GE switches)
	C1-N9K-NDB-XF-3Y	Cisco ONE NDB license for 1 Cisco Nexus 9300 fixed switch for 3-year term (10G and above switches)
	C1-N9K-NDB-XF-5Y	Cisco ONE NDB license for 1 Cisco Nexus 9300 fixed switch for 5-year term (10G and above switches)
	C1-N9K-NDB-XF-7Y	Cisco ONE NDB license for 1 Cisco Nexus 9300 fixed switch for 7-year term (10G and above switches)
	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 Data Broker software on Cisco Nexus 3000 Series Switches

License type	Part number	Description
<b>Subscription</b>		
	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 Data Broker software license when any of the existing Nexus switches are repurposed as NDB 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 Data Broker software (a-la-carte software license only).

License type	Part number	Description
<b>Perpetual</b>		
	NDB-FX-SWT-K9	NDB license for 1 Cisco Nexus fixed switch <ul style="list-style-type: none"> <li>• Cisco Nexus 9300</li> <li>• Cisco Nexus 3500</li> </ul>
	L-NDB-FX-SWT-K9=	NDB license for 1 Cisco Nexus fixed switch (license required to convert or repurpose an existing switch to an NDB switch) <ul style="list-style-type: none"> <li>• Cisco Nexus 9300</li> <li>• Cisco Nexus 3500</li> </ul>
	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 NDB 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 NDB 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 Data Broker Release 3.10.4.

**Table 5.** Release license requirements

Software image	Software license type	Description
<b>NX-OS</b>	Cisco NX-OS Essentials	For all Nexus switches that will be used as NDB/Tap-Agg switches
<b>IOS-XE</b>	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.
<b>IOS-XE</b>	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 NDB switch runs an NX-OS image.

**Note 2:** If the NDB 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 NDB in the lab, a separate license is not required; you can perform an evaluation of NDB without any license. A license needs to be purchased before deploying the NDB in production.

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

**Table 6.** Sample order for a Cisco Nexus C93180YC-FX3 switch with a 3-year subscription Cisco Nexus Data Broker license

Part number	Description	Qty
<b>N9K-C93180YC-FX3</b>	48 x 1/10/25-Gbps fiber ports and 6 x 40/100-Gbps QSFP28 ports	1
<b>NXOS-10.3.4</b>	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.1	1
<b>C1E1TN9300XF-3Y</b>	Data Center Networking Essentials Term N9300 XF, 3Y	1
<b>C1-N9K-NDB-XF-3Y</b>	Cisco ONE Nexus Data Broker 3-year license term N9K XF	1

**Table 7.** Sample order for a Cisco Nexus 93360YC-FX2 switch with a 3-year subscription Cisco Nexus Data Broker license

Part number	Description	Qty
<b>Nexus 93360YC-FX2</b>	96 x 1/10/25-Gbps fiber ports and 12 x 40/100-Gbps QSFP28 ports	1
<b>NXOS-10.3.4</b>	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.4	1
<b>C1E1TN9300XF-3Y</b>	Data Center Networking Essentials Term N9300 XF, 3Y	1
<b>C1-N9K-NDB-XF-3Y</b>	Cisco ONE Nexus Data Broker 3-year term license for N9K	1

**Table 8.** Sample order for a Cisco Nexus 9364C-GX switch with a 3-year subscription Cisco Nexus Data Broker license

Part number	Description	Qty
<b>Nexus 9364C-GX</b>	64 x 100/40-Gbps Quad Small Form-Factor Pluggable (QSFP28)	1
<b>NXOS-10.3.4</b>	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.4	1
<b>C1E1TN9300XF2-3Y</b>	DCN Essentials Term N9300 XF2, 3Y	1
<b>C1-N9K-NDB-XF-3Y</b>	Cisco ONE Nexus Data Broker 3-year term license for N9K	1

**Table 9.** Sample order for a Cisco Nexus N9K-C9364C switch with a 3-year subscription Cisco Nexus Data Broker license

Part number	Description	Qty
<b>N9K-C9332D-GX2B</b>	32 x 400-Gbps QSFP-DD and 2x 1/10 -Gbps SFP+ ports	1
<b>NXOS-10.3.4</b>	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.4	1
<b>C1E1TN9300XF2-3Y</b>	DCN Essentials Term N9300 XF2, 3Y	1
<b>C1-N9K-NDB-XF-3Y</b>	Cisco ONE Nexus Data Broker 3-year term license for N9K	1



**Table 10.** Sample order for Cisco Nexus C9504 switch with EX line cards and 5-year subscription Cisco Nexus Data Broker license

Part Number	Description	Qty
<b>N9K-C9504</b>	Cisco Nexus 9504 chassis with 4 line-card slots	1
<b>NXOS-10.3.4</b>	Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 10.3.4	1
<b>C1E1TN9500M4-5Y</b>	DCN Essentials Term N9500 M4, 5Y	1
<b>C1-N9K-NDB-M4-5Y</b>	Cisco Nexus Data Broker license term N9K M4, 5Y	1
<b>N9K-X9736C-FX</b>	Cisco Nexus 9500 36-port 100G (QSFP28) line card	1

**Note:** Part numbers unrelated to NDB 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.

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