

Cisco Nexus Dashboard Data Broker

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 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.

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Cisco Nexus Dashboard Data Broker with Cisco Nexus switches

Cisco Nexus Dashboard Data Broker (NDDB) (formerly Nexus Data Broker (NDB)) with Cisco Nexus Family 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 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 measurement. 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
- As an application on Cisco Nexus Dashboard (starting from Release 2.1)
- As an application on Cisco APIC

Cisco Nexus Dashboard Data Broker supported devices

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.

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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 3000 Series Switches Cisco Nexus 3100 platform switches Cisco Nexus 3200 Series Switches Cisco Nexus 3500 Series Switches Cisco Nexus 9200 platform switches* Cisco Nexus 9300 platform switches *9200 series switches are suitable for single switch deployments and have gone EOL. | Centralized and Embedded Centralized and Embedded Centralized and Embedded Centralized and Embedded Centralized and Embedded 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) Cisco Nexus 9516 Switch (16-slot switch) Note: Cisco Nexus 3600-R line cards are not supported. | Centralized and Embedded Centralized and Embedded |

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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 Nexus 3000 and Nexus 3500 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 (EX/FX/FX2/FX3/GX) and 9500 switches (but only EX and 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 NDDDB.

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>.

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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 subscription model (a subscription license is available only for Nexus 9000 series switches at this time). The part numbers differ depending on the switch form factor and also 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) |
| | C1-N9K-NDB-M4-3Y | Cisco ONE NDB license for 1 Cisco Nexus 9504 modular switch for 3-year term (medium form factor) |

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| License type | Part number | Description |
|--------------|--------------------|---|
| | 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 |

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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 <ul style="list-style-type: none">Cisco Nexus 9200Cisco Nexus 9300Cisco Nexus 3000Cisco Nexus 3100Cisco Nexus 3200Cisco 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) <ul style="list-style-type: none">Cisco Nexus 9200Cisco Nexus 9300Cisco Nexus 3000Cisco Nexus 3100Cisco Nexus 3200Cisco 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) |

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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 NDDB/Tap-Agg switches (only if sFlow or NetFlow generation is done by the NDDB switch) |
| 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 NDDB/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 NDDB/Tap-Agg switch |

Note 1: The NX-OS software image part number must be added because the NDDB 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 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 NDB 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 |

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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-9.3.5 | Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 9.3.5 | 1 |
| C1-N9K-NDB-XF-3Y | Cisco ONE Nexus Dashboard Data Broker license term N9K XF, 3Y | 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-9.3.5 | Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 9.3.5 | 1 |
| C1-N9K-NDB-XF-3Y | Cisco ONE Nexus Dashboard 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-9.3.5 | Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 9.3.5 | 1 |
| C1-N9K-NDB-XF-3Y | Cisco ONE Nexus Dashboard Data Broker 3-year term license for N9K | 1 |

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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-9.3.5 | Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 9.3.5 | 1 |
| C1-N9K-NDB-XF-3Y | Cisco ONE Nexus Dashboard 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-9.3.5 | Cisco Nexus 9500, 9300, 3000 Base NX-OS Software Rel 9.3.5 | 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 NDB are omitted in the sample orders for simplicity; other product configuration options must be followed as specified by the ordering tool.

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