Cisco Nexus Hyperfabric Release Notes, 2025

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Cisco Nexus Hyperfabric enables customers easily to design, deploy, and scale any number of data center fabrics located anywhere. Delivered as a fabric-as-a-service solution, it reinvents and simplifies every step of IT operations, ensuring repeatable and predictable outcomes.

Note

Software version 20250320 had its end of support on October 15, 2025. If any devices in a fabric are running this version, in the Cisco Nexus Hyperfabric GUI, you will see a banner with text similar to this example:

Fabric1 `device software approaching targeted end of support`

`You have less than one month to upgrade your devices to a newer version go to software management.`

Fabric1 is the name of your fabric. You must upgrade the software of the devices to a supported version.

Nexus Hyperfabric components

Cisco Nexus Hyperfabric is a data center fabric-as-a-service solution that consists of two components:

- Cloud controller—A scalable, globally distributed multitenant cloud service that is used to design, plan, control, upgrade, and monitor fabrics using a browser or APIs.
- Cisco 6000 series switches—Installed with Cisco Nexus Hyperfabric-managed software, the 6000 series switches connect to the cloud for centralized real-time visibility and control.

This document describes the features, issues, and scale limits for Cisco Nexus Hyperfabric.

New features

New features in December 2025

Table 1. New hardware and software features for Nexus Hyperfabric in December 2025

Feature	Description
Support for artificial intelligence servers and Cisco EBox storage clusters	This month's release enhances Cisco Nexus Hyperfabric with support for artificial intelligence (AI) servers and Cisco EBox storage clusters. Cisco UCS servers provide a combination of high-performance compute servers and scalable, high-speed storage servers that are required for AI applications. These servers are monitored through Cisco Nexus Hyperfabric, which uses telemetry to collect real-time performance and health data from each device. With the introduction of servers, some Nexus Hyperfabric functionality has been changed to accommodate servers, such as: • Fabric creation and templates • Cabling • Bill of materials calculations • On-site mobile-friendly site For more information about servers, see Cisco Nexus Hyperfabric — Servers and Cisco Nexus Hyperfabric — Getting Started. For information about Cisco EBox storage clusters, see Cisco Nexus Hyperfabric — Install a Cisco EBox storage cluster.

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Feature	Description
	For information about the on-site mobile-friendly site, see Cisco Nexus Hyperfabric – Deploying Your Fabric on Site.
Change the default time zone	You can choose the preferred time format and time zone you see in Cisco Nexus Hyperfabric. By default, Nexus Hyperfabric displays timestamps based on your browser's local time zone. For more information, see Cisco Nexus Hyperfabric – Getting Started.
Loopback interfaces	You can view loopback IP addresses defined as part of a DHCP relay profile. For more information, see Cisco Nexus Hyperfabric – Configure Logical Networks.
Hyperfabric Quick Command CLI	Hyperfabric Quick Command is a simple command-line interface (CLI) that you can use to display information quickly about a fabric and its devices. Use the Quick Command CLI when you want to avoid having to navigate through the GUI to view specific fabric or device information. For more information, see Cisco Nexus Hyperfabric – Quick Command CLI.
Event viewer assertions	The event viewer displays additional assertions. For more information, see Cisco Nexus Hyperfabric – Configure Fabrics.

New features in November 2025

Table 2. New hardware and software features for Nexus Hyperfabric in November 2025

Feature	Description
Export a fabric blueprint	You can export a fabric blueprint, which Cisco Nexus Hyperfabric saves as a JSON file on your local system. One use case of exporting a blueprint is that you can then import that blueprint into another organization to create the same fabric in that organization. For more information, see Cisco Nexus Hyperfabric – Configure Fabrics.
"Beta" fabric mode is now labeled as "New"	The "Beta" fabric mode is now known as the "New" fabric mode. Fabrics that were previously labeled as "Beta" now do not have a label. Classic fabrics are still labeled as "Classic". For more information, see Cisco Nexus Hyperfabric – Getting Started.
Bill of Materials supported for new fabrics	You can calculate the bill of materials (BOM) for new fabrics. Previously, you could calculate the BOM only for classic fabrics. For more information, see Cisco Nexus Hyperfabric – Getting Started.
Premier subscription support	You can use a premier subscription with Cisco Nexus Hyperfabric. You can lend Premier entitlements to Essentials fabrics. For more information, see Cisco Nexus Hyperfabric – Subscriptions.

New features in October 2025

Table 3. New hardware and software features for Nexus Hyperfabric in October 2025

Feature	Description
Advertised routes	A new advertised routes feature is available in the BGP peer details page. This feature enables you to examine the routes your device advertises to its BGP peers. It helps in detecting unusual or unauthorized routes, spotting potential route leaks or hijacks, and

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Feature	Description
	controlling which routes your device shares to optimize traffic flow. For more information, see Cisco Nexus Hyperfabric – Configure BGP.
Spanning tree protocol on port channels	You can now configure the spanning tree protocol (STP) on a port channel. For more information, see Cisco Nexus Hyperfabric – Configure Logical Networks.

New features in September 2025

Table 4. New hardware and software features for Nexus Hyperfabric in September 2025

Feature	Description
Change the Craft console password of a switch from the Cisco Nexus Hyperfabric GUI	An administrator can now change the Craft console password of a switch from the Cisco Nexus Hyperfabric GUI. One use case is if you forgot the password and need to change it. For more information, see Cisco Nexus Hyperfabric–Configure Switches.

New features in August 2025

Table 5. New hardware and software features for Nexus Hyperfabric in August 2025

Feature	Description
Introduction of Classic and Beta fabric mode	Cisco Nexus Hyperfabric has two fabric modes: Classic and Beta. You must use the classic mode for non-AI clusters fabrics and beta mode for AI clusters fabrics. • You can use the beta mode to create AI cluster fabrics. • You can use the Fabric mode toggle to switch between the classic and beta mode. By default, the classic mode is enabled. • You can view all fabrics from either mode from the Fabrics page. However, to view the detailed view of the classic fabric, you will be prompted to switch back to classic mode. • For non-AI cluster fabrics, you should continue using the classic mode. For more information, see Cisco Nexus Hyperfabric–Getting Started.
Root Certificates	For classic fabric mode, you can configure switches to trust root certificates issued by their organization for establishing a secure Transport Layer Security (TLS) connection to Cisco Nexus Hyperfabric controller. For more information, see Cisco Nexus Hyperfabric–Getting Started.
Introduction of the label “Classic” to all existing fabrics	In the Fabric page, a new label “Classic” is displayed next to the existing fabric name. For more information, see Cisco Nexus Hyperfabric–Getting Started.
New improved Switch view layout	The Switch view now includes two new tabs: • Port Status - which shows port and breakout details, and • Face Plate -which displays switch model specific face plate information. By default, the details view in this new layout is collapsed. For more information, see Cisco Nexus Hyperfabric–Configure Switches.
Enhancements to assertions	The following enhancements for assertions are now available. • Introduction of a new non-critical Warning (yellow) status for assertions that are lower in severity than Critical. • In the Assertions page, you can now configure filters based on assertion Status, Latched state, and

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Feature	Description
	Type. By default, the assertions are filtered by Critical and Warning status and Latched state. • In the Assertion page, switch assertions are now categorized into three types: Device, Port, and Network. You can also view the assertion counts for each severity level: Critical, Warning, Unknown, and OK. By default, only the Critical assertion count is shown in the left navigation. • You can view the port assertions in the Port Details page. For more information, see Cisco Nexus Hyperfabric - Assertions.

New features in July 2025

Table 6. New hardware and software features for Nexus Hyperfabric in July 2025

Feature	Description
Cisco Nexus Hyperfabric Subscription	Subscriptions are required to use Cisco Nexus Hyperfabric. Subscriptions provide entitlements that bind devices like Cisco 6000 series switches within an organization's fabrics. Cisco Nexus Hyperfabric subscriptions come with embedded support contracts and allow entitled device owners to access Cisco Technical Support for software and hardware related issues. For more information, see Cisco Nexus Hyperfabric—Subscription

New features in June 2025

Table 7. New hardware and software features for Nexus Hyperfabric in June 2025

Feature	Description
Claim a discovered device without using a claim code	After you have claimed at least one device using a claim code, you can claim additional discovered devices without using claim codes. For more information, see Cisco Nexus Hyperfabric—Getting Started.
Software lifecycle management	Cisco Nexus Hyperfabric simplifies the task of upgrading the software of the devices in your fabric by enabling you to upgrade the software with minimal effort. Cisco Nexus Hyperfabric can upgrade the software after you bind the devices to a fabric or while the devices are already bound to a fabric. For more information, see Cisco Nexus Hyperfabric—Software lifecycle management.
Mobile-friendly web page for deploying your fabric on site	A network administrator can give a URL for a mobile-friendly web page of a fabric blueprint to the network cabling technicians. A technician can open the URL on a mobile device to view the blueprint and follow that to set up the physical fabric topology or to view the status of the fabric. This is an additional method instead of only being able to use the main Cisco Nexus Hyperfabric GUI to perform these tasks. For more information, see Cisco Nexus Hyperfabric—Deploying Your Fabric on Site.
Notifications	The Notifications feature allows users to receive alerts about fabric-related events via email or Amazon S3 endpoints. Notifications are triggered by changes in latched assertions and follow timing methods of 30 seconds or five minutes, depending on state changes. For more information, see Cisco Nexus Hyperfabric - Notifications.
View BGP peer details	You can now view BGP peer details and received route details. For more information, see Cisco Nexus Hyperfabric—Configure BGP.

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New features in May 2025

Table 8. New hardware and software features for Nexus Hyperfabric in May 2025

Feature	Description
Import a fabric blueprint	If you have a JSON file of a fabric blueprint, you can import that blueprint into your Cisco Nexus Hyperfabric organization to create a new fabric blueprint. For more information, see Cisco Nexus Hyperfabric – Configure Fabrics.
Switch cloud connectivity status	You can verify the cloud connectivity status of the switches, including the source IP port, connection path, and transport layer security (TLS) certificate chain. For more information, see Cisco Nexus Hyperfabric–Getting Started.
View inventory details	In Inventory, you can view all the devices that are claimed and bound to a fabric for an organization and also view all the claimed devices that are not bound to a fabric. For more information, see Cisco Nexus Hyperfabric–Configure Switches.
Request an estimate ID for a bill of materials	When you request an estimate ID for a bill of materials (BOM), Cisco Nexus Hyperfabric communicates with the Cisco Commerce Workspace (CCW) to create the estimate and sends you an email with the estimate ID. You can then work with your partner or sales team contacts to discuss the estimate and order the parts. For more information, see Cisco Nexus Hyperfabric–Getting Started.
Nexus Hyperfabric On-site	The Helping Hands feature of Cisco Nexus Hyperfabric is now called On-site. For more information, see Cisco Nexus Hyperfabric–On-site.

New features in April 2025

Table 9. New hardware and software features for Nexus Hyperfabric in April 2025

Feature	Description
Helping Hands	The Helping Hands feature of Cisco Nexus Hyperfabric greatly simplifies cabling operations of the switches in a fabric. A network administrator uses Cisco Nexus Hyperfabric to create a blueprint that automatically includes a cabling plan for the switches. You can then go to the on-site page and follow the tasks to set up the physical fabric topology or to view the status of the fabric. For more information, see Cisco Nexus Hyperfabric–Helping Hands.

New features in March 2025

Table 10. New hardware and software features for Nexus Hyperfabric in March 2025

Feature	Description
Cisco 6000 Series Switches	Introducing Cisco HF6100 switch models. • HF6100-32D: Cisco 6000 Hyperfabric switch with 32x 40/100/200/400Gb QSFP-DD. • HF6100-60L4D: Cisco 6000 Hyperfabric switch with 60x 10/25/50G SFP56 and 4x 100/400Gb QSFP-DD.

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Feature	Description
Cisco Nexus Hyperfabric	A scalable, globally distributed, multi-tenant cloud-based software-as-a-service (SaaS) network infrastructure management solution. The Cisco Nexus Hyperfabric service is hosted and operated by Cisco and is the single point of provisioning and visibility for your fabrics. The fabrics can be mesh or spine-leaf topologies and use EVPN VXLAN, Layer 2 VLANs, or IPv4/IPv6 routing.

Resolved issues

To see additional information about the caveats, click the bug ID to access the Bug Search Tool (BST).

Table 11. Resolved issues for Nexus Hyperfabric in June 2025

Bug ID	Description
CSCwp27542	When you click All Lanes button in the Fabric > Optics page to view optic lanes information, it does not display optic lanes information.
CSCwp27541	When you configure a VLAN tag greater than 3600, an error is raised.

Table 12. Resolved issues for Nexus Hyperfabric in May 2025

Bug ID	Description
CSCwp02680	FRR BGP VRF configuration is not re-configured following a FRR crash.
CSCwo63168	If more than one Nexus Hyperfabric switches are unbonded, but configuration is committed in a single commit, the unbonded switches will not go through a reload and factory reset.
CSCwo54499	When Enable VLAN tagging is set to disable, sub interface is not displayed in Routed interfaces section in the corresponding VRF.

Open issues

To see additional information about the caveats, click the bug ID to access the Bug Search Tool (BST).

Table 13. Open issues for Nexus Hyperfabric in August 2025

Bug ID	Description
CSCwr07923	Nexus Hyperfabric UI does not display JSON diff in the Review Configuration page.

Table 14. Open issues for Nexus Hyperfabric in May 2025

Bug ID	Description
CSCwp27542	When you click All Lanes button in the Fabric > Optics page to view optic lanes information, it does not display optic lanes information.
CSCwp27541	When you configure a VLAN tag greater than 3600, an error is raised.

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Verified scalability

Table 15. Verified scalability limits for Nexus Hyperfabric

Feature	Scale limits
Topology per fabric	• Switches: 64 • Servers: 64
Port configuration	• Port channels per fabric: 50 • Physical ports per port channel: 4 • Breakout-enabled ports per switch: 32 • Routed sub-interfaces per physical port: 100
Layer 2 scale per fabric	• VLANs: 256 • PVST+ instances: 256 • MAC, IPv4/MAC, and IPv6/MAC endpoints (EVPN type-2 routes): 15,000
IP scale per fabric	• VRF instances: 10 • SVIs: 256 • IPv4 routes: 50,000 • IPv6 routes: 5,000 • IPv4+IPv6 routes: 55,000 • ECMP paths: 4 • Static routes: 1,000 • External BGP sessions: 20 peers per switch ◦ These are external and do not reflect the underlay BGP sessions. • BGP import and export policies: 10 • DHCP relay VLANs: 32

Related content

You can access the Cisco Nexus Hyperfabric documentation from the following website:

https://www.cisco.com/c/en/us/support/data-center-networking/nexus-hyperfabric/series.html

Document	Description
Cisco Nexus Hyperfabric Release Notes	This document.
Cisco Nexus Hyperfabric Getting Started	Describes how to deploy Nexus Hyperfabric.
Cisco Nexus Hyperfabric User Content	Describes the various Nexus Hyperfabric features and use cases.
Open Source document for SONiC Cisco 6000	Lists the licenses and notices for open source software used in this product.

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Documentation feedback

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