

Cisco Nexus 9336C-SE1 Switches

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Contents

- Introduction 2
- Scope 2
- Positioning 2
- Supported Features 3
- Cisco Nexus Dashboard Support 4
- Software Releases 5
- Platform Hardware 5
- Additional Resources 5
- Documentation Feedback 5
- Legal Information 5

Introduction

The Cisco Nexus™ 9336C-SE1 Switch belongs to the fixed Cisco Nexus 9000 platform based on the most advanced Cisco Silicon One ASIC in a 1-RU form factor. The platform is built on modern system architecture designed to provide high performance and meet the evolving needs of highly scalable data centers and growing enterprises.

| Date | Description |
|-----------------|---------------------------------|
| August 15, 2025 | This document became available. |

Scope

This document summarizes the current software feature capabilities of the Cisco Nexus 9336C-SE1 switch.

Positioning

The Cisco Nexus 9336C-SE1 switches support 36 QSFP28 ports and use Cisco Silicon One™ ASIC. For data center architects and enterprise network professionals requiring scalable, high-throughput switching solutions, the Cisco Nexus 9336C-SE1 is a powerful, fixed-port 1RU Top-of-Rack switch built on advanced Cisco Silicon One technology. With 36 ports supporting 40/100 Gbps speeds and flexible breakout options down to 10/25 Gbps, it delivers high bandwidth capacity, robust Layer 2/3 scalability, and intelligent buffering to support dynamic, virtualized, and automated data center environments. The Nexus 9336C-SE1 enables secure, agile, and programmable network fabrics optimized for modern hybrid cloud infrastructures and policy-driven deployments.

Supported Features

Beginning with the NX-OS Release 10.6(1)F, the Cisco Nexus 9336C-SE1 switches support these software features:

| Feature Type | Description |
|-------------------------------------|---|
| Network Interfaces and Speeds | <ul style="list-style-type: none">• 100G, 40G• Breakouts: 4x10G, 4x25G, 2x50G• L3 routed, routed sub (native and PC)• SVI support• VLAN, access, trunk |
| L2 | <ul style="list-style-type: none">• DHCP relay• QinQ• SVI support• UDLD• Port channels (PC), vPC• ELAM• ICAM• RSTP, MSTP• LACP, LLDP |
| Unicast Routing/ L3 (IPv4 and IPv6) | <ul style="list-style-type: none">• BGP, OSPF, EIGRP, ISIS, BFD (Single Hop), VRF, RIP• ECMP• 8192 ECMP groups, 512-way ECMP• IP directed broadcast• uRPF• Static routing• HSRP, VRRP• IP unnumbered (non-SVI) |
| Multicast | <ul style="list-style-type: none">• L2/L3 IPv4 multicast PIM (ASM, SSM)• L3-Phy, PO, SI, SVI, vPC• L2-PO• IGMP snooping• Flow path visibility• Multicast route-aliveness• Hitbit, route statistics (pkts, bytes) |
| MPLS/SR | <ul style="list-style-type: none">• SR-MPLS underlay• SR-MPLS L3EVPN |
| Quality of Service | <ul style="list-style-type: none">• Classification and marking• Queuing and scheduling• CoPP, custom CoPP |
| Network Security | <ul style="list-style-type: none">• AAA, RADIUS, TACACS+• Ingress PACL• Ingress and egress RACL (IPv4/V6) |

| Feature Type | Description |
|--------------------------|--|
| | <ul style="list-style-type: none"> • SSH protocol version 2 • SNMPv3 • PBR • MACsec |
| Telemetry and Monitoring | <ul style="list-style-type: none"> • SNMPv2 • Software Telemetry <ul style="list-style-type: none"> ◦ DME data collection ◦ NX-API data sources ◦ Google protocol buffer (GPB) encoding over Google Remote Procedure Call (gRPC) transport ◦ JSON encoding over HTTP • sFlow • gNMI support • SPAN, SPAN on drop, ERSPAN |
| VXLAN | <ul style="list-style-type: none"> • VXLAN EVPN v4/v6 • Multicast/IR • TRMv4 • DSVNI • Multi-Site Anycast border gateway • vPC and vPC fabric peering • NGOAM • L3 physical port and L3PO as fabric uplinks • IGMP snooping with or without TRMv4 |
| IPFM | <ul style="list-style-type: none"> • PTP - IEEE-1588v2 (BC supported), Media Profiles • NBM Use cases • Policer Scale |
| Programmability | <ul style="list-style-type: none"> • Open NX-OS automation • Open and native YANG models <ul style="list-style-type: none"> ◦ NETCONF, RESTCONF, gNMI • Python API • TCL • Cisco NX-API |
| Upgrade | <ul style="list-style-type: none"> • POAP • GIR • Disruptive ISSU |
| Licensing | <ul style="list-style-type: none"> • Premier, Advantage and Essentials License for appropriate features |

Cisco Nexus Dashboard Support

Nexus Dashboard (ND) can provide management and automation for Cisco Nexus 9336C-SE1 in external fabrics in ND 4.1



Software Releases

Table 1. Software Releases

| NX-OS Release | Description |
|---------------|---|
| 10.6(1)F | Release 10.6(1) was the first release to enable support for Cisco Nexus 9336C-SE1 switches. |

Platform Hardware

The Nexus 9300 Series includes many switch chassis. For a complete list of 9300 series switches, see [Cisco Nexus 9000 Series Switches Install and Upgrade Guides](#).

The site lists the currently available Nexus 93xxx Series switches, line cards, and accessories. For expanded details about these hardware products, see:

- [Cisco Nexus 9336C-SE1 Data Sheet](#)

Additional Resources

- [Cisco Nexus 9000 Series Switches Install and Upgrade Guides](#)
- [Cisco Nexus 9000 Series Switches Configuration Guides](#)
- [Cisco Nexus 9000 Series NX-OS Verified Scalability Guides](#)
- [Cisco NextGen DCI Blueprint](#)
- [Cisco Optics-to-Device Compatibility Matrix](#)

Documentation Feedback

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