



New and Changed Information

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This table summarizes the new and changed features for the *Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide* and where they are documented.

Table 1: New and Changed Features

Feature	Description	Changed in Release	Where Documented
ICV Check	Enabled ICV Check on Cisco Nexus 9300-FX2 platform switches.	9.3(7)	Enable CloudSec VXLAN EVPN Tunnel Encryption
VXLAN EVPN with Downstream VNI	Added support for Cisco Nexus 9300-GX platform switches.	9.3(7)	Supported features for VXLAN EVPN with downstream VNI
Layer 3 Tenant Routed Multicast	Added support for Cisco Nexus N9K-C9316D-GX, N9K-C9364C-GX, and N9K-X9716D-GX platform switches.	9.3(7)	Supported features and limitations of Layer 3 TRM
PBR over VXLAN	Added support for Cisco Nexus 9300-GX platform switches.	9.3(6)	Service Redirection in VXLAN Fabrics
Proportional Multipath for VNF	Added support for Cisco Nexus 9500 platform switches with the N9K-C9508-FM-E2 fabric module and an -EX or -FX line card.	9.3(6)	Configuring Proportional Multipath for VNF

Feature	Description	Changed in Release	Where Documented
Proportional Multipath for VNF with Multi-Site	Introduced this feature.	9.3(6)	Proportional Multipaths
VXLAN and IP-in-IP Tunneling	Added support for the coexistence of these features for Cisco Nexus 9300-FX2 platform switches.	9.3(6)	VXLAN and IP-in-IP Tunneling
VXLAN EVPN Multi-Site Storm Control	Optimized rate granularity and accuracy by considering only interfaces tagged with DCI tracking and supporting two digits after the decimal point. These enhancements apply to Cisco Nexus 9300-EX, 9300-FX/FXP/FX2/FX3, and 9300-GX platform switches.	9.3(6)	Configure VXLAN EVPN Multi-Site storm control
VXLAN Flood and Learn	Added support for Cisco Nexus 9300-GX platform switches.	9.3(6)	Guidelines and Limitations for VXLAN
VXLAN with IPv6 in the Underlay (VXLANv6)	Added support for Cisco Nexus 9300-GX platform switches.	9.3(6)	Configure VXLAN with IPv6 in the Underlay (VXLANv6)
ARP suppression with reflective relay	Added support for Cisco Nexus 9364C, 9300-EX, 9300-FX/FX2/FXP, and 9300-GX platform switches.	9.3(5)	Guidelines and Limitations for VXLAN
Dual RD support for Multi-Site	Introduced this behavior for Cisco Nexus 9332C, 9364C, 9300-EX, and 9300-FX/FX2/FXP platform switches and Cisco Nexus 9500 platform switches with -EX/FX line cards.	9.3(5)	#unique_20 Supported platforms and configuration guidelines for VXLAN EVPN Multi-Site Configure dual RD support for Multi-Site
Layer 3 Tenant Routed Multicast	Added support for Cisco Nexus 9300-GX platform switches.	9.3(5)	Supported features and limitations of Layer 3 TRM

Feature	Description	Changed in Release	Where Documented
Proportional Multipath for VNF	<p>Introduced the following enhancements for Cisco Nexus 9364C, 9300-EX, and 9300-FX/FX2 platform switches:</p> <ul style="list-style-type: none"> Added the ability to have only eBGP or iBGP filter the ECMP paths, rather than using mixed paths. Added the maximum-paths local number command, which allows multiple local paths to be chosen as the BGP best path. 	9.3(5)	<p>Proportional Multipaths for VNF</p> <p>Prerequisites for Proportional Multipath for VNF</p> <p>Configure the Leaf or ToR</p> <p>Configure the Border Leaf or Border Gateway</p>
Q-in-VNI and selective Q-in-VNI	Added support for vPC Fabric Peering.	9.3(5)	<p>Selective Q-in-VNIs</p> <p>Configure the Q-in-VNI</p>
Q-in-VNI, selective Q-in-VNI, selective Q-in-VNI with multiple provider VLANs, and QinQ-QinVNI	Added support for Cisco Nexus 9300-GX platform switches.	9.3(5)	Configuring Q-in-VNI over VXLAN
Seamless integration of EVPN with L3VPN (MPLS SR)	Added support for Cisco Nexus 9300-GX platform switches.	9.3(5)	Guidelines and Limitations for Configuring Seamless Integration of EVPN with L3VPN (MPLS SR)
Seamless Integration of EVPN (TRM) with MVPN	Introduced this feature for Cisco Nexus 9500 platform switches with the N9K-X9636C-RX line card.	9.3(5)	Configuring Seamless Integration of EVPN (TRM) with MVPN
Secure VXLAN EVPN Multi-Site using CloudSec	Introduced this feature for Cisco Nexus 9300-FX2 platform switches.	9.3(5)	#unique_32
Selective Q-in-VNI + Advertise PIP on a VTEP	Added support for Cisco Nexus 9300-EX, 9300-FX/FX2/FXP, and 9300-GX platform switches.	9.3(5)	Selective Q-in-VNIs
Selective Q-in-VNI and VXLAN VLAN on same port	Added support for Cisco Nexus 9300-EX, 9300-FX/FX2/FXP, and 9300-GX platform switches.	9.3(5)	Selective Q-in-VNIs

Feature	Description	Changed in Release	Where Documented
vPC Fabric Peering	Added support for Cisco Nexus 9300-GX platform switches.	9.3(5)	Supported platforms and limitations for vPC fabric peering
VXLAN EVPN loop detection and mitigation	Introduced this feature for Cisco Nexus 9332C, 9364C, 9300-EX, 9300-FX/FX2/FXP, and 9300-GX platform switches and Cisco Nexus 9500 platform switches with -EX/FX line cards.	9.3(5)	Supported features and limitations for VXLAN EVPN loop detection and mitigation
VXLAN EVPN Multi-Site	Added support for Cisco Nexus 9300-GX platform switches.	9.3(5)	Supported platforms and configuration guidelines for VXLAN EVPN Multi-Site
VXLAN EVPN with downstream VNI	Introduced this feature for Cisco Nexus 9332C, 9364C, 9300-EX, and 9300-FX/FX2/FXP platform switches and Cisco Nexus 9500 platform switches with -EX/FX line cards.	9.3(5)	#unique_35 Supported features for VXLAN EVPN with downstream VNI Configure VRF for VXLAN routing Verification commands for VXLAN EVPN with downstream VNIs #unique_38
VXLAN over parent interface that carries subinterfaces	Added the ability for subinterfaces on VXLAN uplinks to carry non-VXLAN L3 IP traffic for Cisco Nexus 9332C, 9364C, 9300-EX, 9300-FX/FX2/FXP, and 9300-GX platform switches and Cisco Nexus 9500 platform switches with -EX/FX line cards.	9.3(5)	Guidelines and Limitations for VXLAN vPC Considerations for VXLAN Deployment Guidelines for external VRF connectivity and route leaking
VXLAN QoS configuration on the DCI handoff node	Added support for Cisco Nexus 9300-GX platform switches.	9.3(5)	Guidelines and Limitations for VXLAN QoS
VXLAN static tunnels	Added support for Cisco Nexus 9300-FX3 and 9300-GX platform switches.	9.3(5)	About VXLAN Static Tunnels

Feature	Description	Changed in Release	Where Documented
VXLAN BGP EVPN	Added support for L2 and L3 EVPN, ingress replication, and multicast underlays for Cisco Nexus 9300-GX platform switches.	9.3(3)	Configure VXLAN BGP EVPN Configuring the Underlay
Layer 3 Tenant Routed Multicast	Added support for Cisco Nexus 9504 and 9508 platform switches with -R/RX line cards.	9.3(3)	Configure Tenant Routed Multicast
TRM with Multi-Site	Added support for border gateways to connect to external multicast networks.	9.3(3)	#unique_44
TRM Border Leaf with vPC Support	Added support for Cisco Nexus 9504 and 9508 platform switches with -R/RX line cards.	9.3(3)	Supported features and limitations of Layer 3 TRM
VXLAN static tunnels	Introduced this feature for Cisco Nexus 9332C, 9364C, 9300-EX, and 9300-FX/FX2 platform switches.	9.3(3)	About VXLAN Static Tunnels
OAM	Added support for Cisco Nexus 9300-GX platform switches.	9.3(3)	Supported platforms and releases for VXLAN NGOAM
Cross Connect	Added support for Cisco Nexus 9300-GX platform switches.	9.3(3)	Configure VXLAN Cross Connect
ARP suppression	Added support for Cisco Nexus 9300-GX platform switches.	9.3(3)	Configure VXLAN
IGMP snooping	Added support for Cisco Nexus 9300-GX platform switches.	9.3(3)	Configuring IGMP Snooping
VXLAN to SRv6 (L3VPN) handoff	Added support for sending and receiving VXLAN packets to and from an SRv6 core or WAN for Cisco Nexus 9300-GX platform switches.	9.3(3)	Configuring Seamless Integration of EVPN with L3VPN SRv6
PV translation	Added support for Cisco Nexus 9300-GX platform switches.	9.3(3)	Configuring Port VLAN Mapping
VXLAN QoS	Add support for default mode for Cisco Nexus 9300-GX platform switches.	9.3(3)	Configuring VXLAN QoS

Feature	Description	Changed in Release	Where Documented
OAM	Enhanced the show ngoam pathtrace statistics summary command to display the total pathtrace requests received.	9.3(3)	Best practice for fault isolation and verification tools
BGP EVPN filtering	Describes the requirements for route filtering and attributes handling, arising from the implementation of BGP NLRIs of address family L2VPN EVPN.	9.3(1)	Configuring BGP EVPN Filtering
Seamless integration of EVPN with L3VPN (MPLS LDP)	Introduced this feature.	9.3(1)	Configuring Seamless Integration of EVPN with L3VPN (MPLS LDP)
Seamless integration of EVPN with L3VPN (MPLS SR)	Introduced this feature.	9.3(1)	Configuring Seamless Integration of EVPN with L3VPN (MPLS SR)
Proportional Multipath for VNF	Introduced this feature.	9.3(1)	Configuring Proportional Multipath for VNF
TRM with Multi-Site	Introduced this feature.	9.3(1)	Configure Multi-Site
vPC Fabric Peering	Added support for Cisco Nexus 9300-EX platform switches.	9.3(1)	Configuring vPC Fabric Peering
VXLAN with IPv6 in the underlay (VXLANv6)	Added support for an IPv6 VTEP.	9.3(1)	Configure VXLAN with IPv6 in the Underlay (VXLANv6)
VXLAN VRF leaking	Introduced this feature.	9.3(1)	Configure External VRF Connectivity and Route Leaking