



## New and Changed Information

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*Table 1: New and Changed Features*

Feature	Description	Changed in Release	Where Documented
VXLAN EVPN Traffic Engineering	Added support for VXLAN EVPN Traffic Engineering - Multi-Site Egress Load-Balancing feature to improve traffic steering and better utilize inter-DC links across multiple sites.	10.4(3)F	<a href="#">Configuring VXLAN EVPN Traffic Engineering - Multi-Site Egress Load-Balancing</a>
GPO	Added support for Group Policy Option on Cisco Nexus N9K switches.	10.4(3)F	<a href="#">Micro-segmentation for VXLAN Fabrics Using Group Policy Option (GPO)</a>
VXLAN QoS	Added support for VXLAN QoS policies when using a BGW spine on the Cisco Nexus 9808/9804 switches with X9836DM-A and X98900CD-A line cards.	10.4(3)F	<a href="#">Guidelines and Limitations for VXLAN QoS</a>
MPLS SR QoS	Added MPLS SR QoS on the Cisco Nexus 9808/9804 switches with X9836DM-A and X98900CD-A line cards.	10.4(3)F	<a href="#">Guidelines and Limitations for Configuring Seamless Integration of EVPN with L3VPN (MPLS SR)</a>

Feature	Description	Changed in Release	Where Documented
VXLAN	Added VXLAN support on the Cisco Nexus 9364C-H1 switches.	10.4(3)F	

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			<p>Guidelines and Limitations for VXLAN</p> <p>Considerations for VXLAN Deployment</p> <p>Guidelines and Limitations for VXLAN Static Tunnels</p> <p>Guidelines and Limitations for VXLAN with IPv6 in the Underlay (VXLANv6)</p> <p>Guidelines and Limitations for VXLAN BGP EVPN</p> <p>Guidelines and Limitations for VXLAN EVPN with Downstream VNI</p> <p>Guidelines and Limitations for vPC Fabric Peering</p> <p>Interoperability with EVPN Multi-Homing Using ESI</p> <p>Guidelines and Limitations for Interoperability with EVPN Multi-Homing using ESI</p> <p>Guidelines and Limitations for Configuring Seamless Integration of EVPN with L3VPN (MPLS SR)</p> <p>Guidelines and Limitations for EVPN to L3VPN SRv6 Handoff</p> <p>Guidelines and Limitations for VXLAN EVPN Multi-Site</p> <p>Guidelines and Limitations for TRM with Multi-Site</p> <p>Guidelines and Limitations for Tenant Routed Multicast</p> <p>Guidelines and Limitations for Layer 3 Tenant Routed Multicast</p> <p>Guidelines and Limitations for Layer 2/Layer 3 Tenant Routed Multicast (Mixed Mode)</p>

Feature	Description	Changed in Release	Where Documented
			<p>Guidelines and Limitations for TRM Data MDT</p> <p>Guidelines and Limitations for VXLAN NGOAM</p> <p>Guidelines and Limitations for VXLAN EVPN Loop Detection and Mitigation</p> <p>Guidelines and Limitations for VXLAN QoS</p> <p>Guidelines and Limitations for Port VLAN Mapping</p> <p>Configuring Inner VLAN and Outer VLAN Mapping on a Trunk Port</p> <p>Guidelines and Limitations for Port Multi-VLAN Mapping</p> <p>Guidelines and Limitations for Policy-Based Redirect</p> <p>Guidelines and Limitations for Proportional Multipath for VNF</p> <p>Guidelines and Limitations for VXLAN Cross Connect</p> <p>Guidelines and Limitations for Q-in-VNI</p> <p>Guidelines and Limitations for Q-in-VNI with L2PT</p> <p>Guidelines and Limitations for QinQ-QinVNI</p> <p>Guidelines and Limitations for Secure VXLAN EVPN Multi-Site Using CloudSec</p> <p>Guidelines and Limitations for Private VLANs over VXLAN</p> <p>DHCP Snooping in VXLAN BGP EVPN Overview</p> <p>Guidelines and Limitations for DHCP Snooping on VXLAN</p>

Feature	Description	Changed in Release	Where Documented
VXLAN source port enhancement	VXLAN UDP source port is enhanced with new configuration options to set the port number range for VXLAN encapsulated packets.	10.4(3)F	<a href="#">Configuring VXLAN UDP Source Port</a>
NGOAM-SLD for Layer-3 interfaces	Added support for NGOAM Southbound Loop Detection (SLD) on Layer-3 ethernet and Layer-3 port-channel interfaces.	10.4(3)F	<a href="#">Guidelines and Limitations for VXLAN NGOAM</a> <a href="#">Configuring NGOAM Loop Detection for Layer-3 Interfaces</a>
Multisite Anycast Border Gateway Support	Added support for VXLAN Multi-Site Anycast BGW on Cisco Nexus 9808/9804 switches with Cisco Nexus X9836DM-A and X98900CD-A line cards.	10.4(3)F	<a href="#">Guidelines and Limitations for VXLAN EVPM Multi-Site</a>
TRM support for Multi-Site Anycast BGW	Added support for TRM with Multi-Site Anycast BGW on Cisco Nexus 9808/9804 switches with Cisco Nexus X9836DM-A and X98900CD-A line cards.	10.4(3)F	<a href="#">Guidelines and Limitations for Layer 3 Tenant Routed Multicast</a> <a href="#">Configuring Layer 3 Tenant Routed Multicast</a>
NGOAM for Cisco Nexus 9800 switches	Added support for NGOAM ping, traceroute, and pathtrace on Cisco Nexus 9800 switches, but Xconnect and Southbound Loop Detection (SLD) are not supported.	10.4(3)F	<a href="#">Guidelines and Limitations for VXLAN NGOAM</a>
Border Spine support for Cisco Nexus 9800 switches	Added support for VXLAN features as border spine on Cisco Nexus 9800 switches.	10.4(3)F	<a href="#">Guidelines and Limitations for VXLAN</a>

Feature	Description	Changed in Release	Where Documented
Multi-Site support with IPv6 Multicast Underlay in Fabric and IPv6 DCI IR	Added support for VXLAN EVPN and TRM multi-site with Protocol-Independent Multicast (PIMv6) Any-Source Multicast (ASM) on the fabric side and Ingress Replication (IPv6) on the DCI side.	10.4(3)F	<a href="#">Information About Configuring VXLAN EVPN and TRM with IPv6 Underlay</a> <a href="#">Guidelines and Limitations for VXLAN EVPN and TRM with IPv6 in the Multicast Underlay</a> <a href="#">About VXLAN EVPN Multi-Site with IPv6 Underlay</a> <a href="#">Guidelines and Limitations for VXLAN EVPN Multi-Site with IPv6 Underlay</a> <a href="#">Enabling VXLAN EVPN Multi-Site with IPv6 Multicast Underlay</a> <a href="#">Configuring Fabric/DCI Link Tracking</a> <a href="#">Configuring Fabric External Neighbors</a> <a href="#">Guidelines and Limitations for Multi-Site with vPC Support</a> <a href="#">Information About Configuring TRM Multi-Site with IPv6 Underlay</a> <a href="#">Guidelines and Limitations for TRM Multi-Site with IPv6 Underlay</a> <a href="#">Configuring TRM Multi-Site with IPv6 Underlay</a> <a href="#">Verifying TRM with Multi-Site Configuration</a>
VXLAN PIM BiDir underlay support	Added support for PIM BiDir on Cisco Nexus 9300-FX3/GX/GX2/H2R/H1 switches, 9500 switches with 9700-GX line cards.	10.4(3)F	<a href="#">Underlay Considerations</a> <a href="#">Multicast Routing in the VXLAN Underlay</a>
VXLAN	Added VXLAN support on the Cisco Nexus 93400LD-H1 switches.	10.4(2)F	<a href="#">Guidelines and Limitations for VXLAN</a>

Feature	Description	Changed in Release	Where Documented
TRMv4 Multi-Site anycast Underlay in Fabric and IR over DCI	Added support for VXLAN EVPN and TRM with IPv6 Multicast Underlay.	10.4(2)F	<a href="#">Information About Configuring VXLAN EVPN and TRM with IPv6 Underlay</a> <a href="#">Guidelines and Limitations for VXLAN EVPN and TRM with IPv6 in the Multicast Underlay</a> <a href="#">Configuring VXLAN EVPN and TRM with IPv6 Multicast Underlay</a> <a href="#">Example Configuration for VXLAN EVPN and TRM with IPv6 Multicast Underlay</a> <a href="#">Verifying VXLAN EVPN and TRM with IPv6 Multicast Underlay</a>
Private VLAN	Added support for Private VLAN for Cisco Nexus C9348GCFX3 and Cisco C9348GC-FX3PH.	10.4(1)F	<a href="#">Guidelines and Limitations for Private VLANs over VXLAN</a>
VXLAN EVPN First Hop Security	IPv4 First Hop Security support is provided in a EVPN VXLAN environment so that a host that has been authenticated on one VTEP can move to another VTEP.	10.4(1)F	<a href="#">Configuring First Hop Security</a>
VTEP co-existence with single-active ESI	Added ESI multi-homing support for Rx Single-active mode.	10.4(1)F	<a href="#">Interoperability with EVPN Multi-Homing Using ESI</a> <a href="#">Example of EVPN Multi-Homing Using ESI</a>
Set outer DSCP for VXLAN encapsulated packets at ingress VTEP	The <b>tunnel</b> keyword is added to set the outer DSCP fields on the ingress VTEP.	10.4(1)F	<a href="#">IP to VXLAN with Outer DSCP</a> <a href="#">Guidelines and Limitations for VXLAN QoS</a> <a href="#">Setting Outer DSCP on the Ingress VTEP</a>
Classify and rewrite packets based on outer DSCP at the egress VTEP	The <b>tunnel</b> keyword is added to match outer DSCP value on the egress VTEP using an ingress service policy.	10.4(1)F	<a href="#">VXLAN to IP</a> <a href="#">Guidelines and Limitations for VXLAN QoS</a> <a href="#">Configuring Type QoS on the Egress VTEP</a>

Feature	Description	Changed in Release	Where Documented
VXLAN QoS Outer Header Policy for Layer 2	Added new <b>default-vxlan-in-tnl-dscp-policy</b> QoS policy-map template to match on the outer DSCP of the VXLAN packet and re-write CoS in the decapsulated ethernet packet on the egress VTEP.	10.4(1)F	<a href="#">CoS Preservation</a> <a href="#">Guidelines and Limitations for VXLAN QoS</a> <a href="#">Preserve CoS Configuration</a>
VXLAN	Added VXLAN support on the Cisco Nexus 9332D-H2R platform switches	10.4(1)F	<a href="#">Guidelines and Limitations for VXLAN</a>
VXLAN source port enhancement	VXLAN UDP source port is enhanced with new configuration options to set the port number range for VXLAN encapsulated packets.	10.4(1)F	<a href="#">Configuring VXLAN UDP Source Port</a>
Split Loopback for VXLAN Multi-Site BGW Deployment	Added details for configuring an NVE Interface Loopback	10.4(1)F	<a href="#">Creating and Configuring an NVE Interface Loopback</a> <a href="#">Migration from Single NVE Source Loopback Interface to Separate Source Loopback</a>