



## Feature History for BGP EVPN VXLAN

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- [Feature History for BGP EVPN VXLAN, on page 1](#)
- [Unsupported BGP EVPN VXLAN Features on Cisco Catalyst 9500X Series Switches, on page 15](#)

## Feature History for BGP EVPN VXLAN

This table provides release and related information for the features explained in this module.

These features are available in all the releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE Fuji 16.9.1	EVPN VXLAN Overlay Network for IPv4 Bridged Traffic	EVPN VXLAN overlay network for IPv4 bridged traffic is a Layer 2 overlay network that allows host devices within the same subnet to send IPv4 bridged traffic to each other using a Layer 2 virtual network instance (VNI).  Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.
	EVPN VXLAN Overlay Network for IPv4 Routed Traffic	EVPN VXLAN overlay network for IPv4 routed traffic is a Layer 3 overlay network that allows host devices in different Layer 2 networks to send IPv4 routed traffic to each other using a Layer 3 VNI and an IP VRF.  Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.
	Layer 2 Broadcast, Unknown Unicast, and Multicast (BUM) Traffic Forwarding using Underlay Multicast	Multi-destination Layer 2 broadcast, unknown unicast, and multicast (BUM) traffic in an EVPN VXLAN network is replicated through a multicast group in the underlay network and forwarded to all the endpoints of the network.  Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.
	Leaf Functionality	A leaf switch sits on the edge of a BGP EVPN VXLAN fabric and is connected to the host or access devices. It functions as a virtual tunnel end point (VTEP) and performs encapsulation and decapsulation.  Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.
	EVPN VXLAN Integrated Routing and Bridging	EVPN VXLAN integrated and bridging (IRB) allows the VTEPs in a VXLAN network to forward both Layer 2 or bridged traffic and Layer 3 or routed traffic. It is implemented as symmetric and asymmetric IRB.  Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.
	EVPN VXLAN Distributed Anycast Gateway	

Release	Feature	Feature Information
		<p>EVPN VXLAN distributed anycast gateway is a default gateway addressing mechanism that enables the use of the same gateway IP address across all the leaf switches that are part of a VXLAN network.</p> <p>Support was introduced with manual MAC address configuration on the Layer 2 VNI VLAN's switch virtual interface (SVI) on all VTEPs as the only method to enable the feature.</p> <p>Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.</p>
	DHCP Relay for IPv4 Traffic in BGP EVPN VXLAN Fabric	<p>The VTEP in a BGP EVPN VXLAN fabric is configured as a DHCP relay agent to provide DHCP relay services for IPv4 traffic in a multi-tenant VXLAN environment.</p> <p>Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.</p>

Release	Feature	Feature Information
Cisco IOS XE Gibraltar 16.10.1	EVPN VXLAN Overlay Network for IPv4 Bridged Traffic	Support for this feature was introduced on the C9500-32C, C9500-32QC, C9500-48Y4C, and C9500-24Y4C models of the Cisco Catalyst 9500 Series Switches.
	EVPN VXLAN Overlay Network for IPv4 Routed Traffic	Support for this feature was introduced on the C9500-32C, C9500-32QC, C9500-48Y4C, and C9500-24Y4C models of the Cisco Catalyst 9500 Series Switches.
	Layer 2 Broadcast, Unknown Unicast, and Multicast (BUM) Traffic Forwarding using Underlay Multicast	Support for this feature was introduced on the C9500-32C, C9500-32QC, C9500-48Y4C, and C9500-24Y4C models of the Cisco Catalyst 9500 Series Switches.
	EVPN VXLAN Integrated Routing and Bridging	Support for this feature was introduced on the C9500-32C, C9500-32QC, C9500-48Y4C, and C9500-24Y4C models of the Cisco Catalyst 9500 Series Switches.
	EVPN VXLAN Distributed Anycast Gateway	Support for this feature was introduced on the C9500-32C, C9500-32QC, C9500-48Y4C, and C9500-24Y4C models of the Cisco Catalyst 9500 Series Switches.
	DHCP Relay for IPv4 Traffic in BGP EVPN VXLAN Fabric	Support for this feature was introduced on the C9500-32C, C9500-32QC, C9500-48Y4C, and C9500-24Y4C models of the Cisco Catalyst 9500 Series Switches.
	Leaf Functionality	Support for this feature was introduced on the C9500-32C, C9500-32QC, C9500-48Y4C, and C9500-24Y4C models of the Cisco Catalyst 9500 Series Switches.

Release	Feature	Feature Information
Cisco IOS XE Gibraltar 16.11.1	EVPN VXLAN Overlay Network for IPv6 Bridged Traffic	<p>EVPN VXLAN overlay network for IPv6 bridged traffic is a Layer 2 overlay network that allows host devices within the same subnet to send IPv6 bridged traffic to each other using a Layer 2 VNI.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	EVPN VXLAN Overlay Network for IPv6 Routed Traffic	<p>EVPN VXLAN overlay network for IPv6 routed traffic is a Layer 3 overlay network that allows host devices in different Layer 2 networks to send IPv6 routed traffic to each other using a Layer 3 VNI and an IP VRF.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Layer 2 Broadcast, Unknown Unicast, and Multicast (BUM) Traffic Forwarding using Ingress Replication	<p>Ingress replication is a unicast approach to handle multi-destination Layer 2 BUM traffic in an EVPN VXLAN network. It involves an ingress device replicating every incoming BUM packet and sending them as a separate unicast to the remote egress devices.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>

Release	Feature	Feature Information
Cisco IOS XE Gibraltar 16.12.1	MAC Aliasing for EVPN VXLAN Distributed Anycast Gateway	<p>MAC aliasing allows the leaf switches in an EVPN VXLAN network to advertise the MAC addresses of their Layer 2 VLAN's SVI as the gateway MAC address to all the other leaf switches in the network.</p> <p>MAC aliasing removes the need to explicitly configure the same MAC address on the Layer 2 VNI VLAN's SVI on all VTEPs in order to enable distributed anycast gateway.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Border Leaf Functionality	<p>A border leaf switch is a leaf switch in a BGP EVPN VXLAN fabric that enables external connectivity with other Layer 2 and Layer 3 networks by acting as the connecting node between the two networks.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Autonomous System Number Rewrite	<p>The <b>rewrite-evpn-rt-asn</b> command was introduced to enable the rewrite of the autonomous system number (ASN) of the EVPN route target that originates from the current autonomous system with the ASN of the target eBGP EVPN peer.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	VRF-Lite Border Leaf Handoff	<p>VRF-Lite border leaf handoff in a BGP EVPN VXLAN fabric allows Layer 3 external connectivity with a VRF-Lite network through a border leaf switch.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	MPLS Layer 3 VPN Border Leaf Handoff	<p>MPLS Layer 3 VPN border leaf handoff in a BGP EVPN VXLAN fabric allows Layer 3 external connectivity with an MPLS Layer 3 VPN network through a border leaf switch.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	IEEE 802.1Q Border Leaf Handoff	<p>IEEE 802.1Q border leaf handoff in a BGP EVPN VXLAN fabric allows Layer 2 external connectivity with an IEEE 802.1Q network through a border leaf switch.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Access Border Leaf Handoff	

Release	Feature	Feature Information
		<p>Access border leaf handoff in a BGP EVPN VXLAN fabric allows Layer 2 external connectivity with an Access network through a border leaf switch.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	VPLS over MPLS Border Leaf Handoff	<p>VPLS over MPLS border leaf handoff in a BGP EVPN VXLAN fabric allows Layer 2 external connectivity with a VPLS over MPLS network through a border leaf switch.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>

Release	Feature	Feature Information
Cisco IOS XE Amsterdam 17.1.1	Spine Functionality	<p>A spine switch acts as the connecting node between all the leaf switches in a BGP EVPN VXLAN fabric, forwards the traffic between the leaf switches and provides redundancy to the network.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Border Spine Functionality	<p>A border spine switch in a BGP EVPN VXLAN fabric enables external connectivity with other Layer 2 and Layer 3 networks by acting as the connecting node between the two networks.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	ARP and IPv6 Neighbor Discovery Flooding Suppression	<p>Flooding suppression avoids the flooding of ARP and IPv6 neighbor discovery packets over the VXLAN network to the local and remote host or access devices.</p> <p>Support for this feature was introduced on the C9500-32C, C9500-32QC, C9500-48Y4C, and C9500-24Y4C models of the Cisco Catalyst 9500 Series Switches.</p>
	Layer 3 Tenant Routed Multicast for IPv4 Traffic	<p>Layer 3 tenant routed multicast (TRM) for IPv4 traffic enables multicast forwarding for IPv4 traffic in a BGP EVPN VXLAN fabric. It provides multi-tenancy-aware multicast forwarding between senders and receivers within the same subnet or different subnets, locally or across VTEPs.</p> <p>You can configure TRM with PIM sparse mode (PIM-SM) using anycast RP mode and TRM with PIM source specific mode (PIM-SSM).</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	VRF-Lite Border Spine Handoff	<p>VRF-Lite border spine handoff in a BGP EVPN VXLAN fabric allows Layer 3 external connectivity with a VRF-Lite network through a border spine switch.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	MPLS Layer 3 VPN Border Spine Handoff	<p>MPLS Layer 3 VPN border spine handoff in a BGP EVPN VXLAN fabric allows Layer 3 external connectivity with an MPLS Layer 3 VPN network through a border spine switch.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>



Release	Feature	Feature Information
	IEEE 802.1Q Border Spine Handoff	IEEE 802.1Q border spine handoff in a BGP EVPN VXLAN fabric allows Layer 2 external connectivity with an IEEE 802.1Q network through a border spine switch.  Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.
	Access Network Border Spine Handoff	Access border spine handoff in a BGP EVPN VXLAN fabric allows Layer 2 external connectivity with an Access network through a border spine switch.  Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.
	VPLS over MPLS Border Spine Handoff	VPLS over MPLS border spine handoff in a BGP EVPN VXLAN fabric allows Layer 2 external connectivity with a VPLS over MPLS network through a border spine switch.  Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.
	Configuring VXLAN-Aware Flexible Netflow	VXLAN-aware Flexible Netflow captures the VXLAN flow information for both bridged and routed traffic.  Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.
	BGP EVPN VXLAN MIB support	Support was introduced for the MIB.  Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.
Cisco IOS XE Amsterdam 17.2.1	ARP and IPv6 Neighbor Discovery Flooding Suppression	Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.
	EVPN VXLAN Centralized Default Gateway	EVPN VXLAN Centralized Default Gateway allows a single VTEP in the EVPN VXLAN network to act as the Layer 3 gateway for all the Layer 2 VNIs in the network.  Support for this feature was introduced on the C9500-12Q, C9500-16X, C9500-24Q, C9500-40X models of the Cisco Catalyst 9500 Series Switches.

Release	Feature	Feature Information
Cisco IOS XE Amsterdam 17.3.1	Layer 3 Tenant Routed Multicast for IPv6 Traffic	<p>Layer 3 TRM for IPv6 traffic enables multicast forwarding for IPv6 traffic in a BGP EVPN VXLAN fabric. It provides multi-tenancy-aware multicast forwarding between senders and receivers within the same subnet or different subnets, locally or across VTEPs.</p> <p>Support was introduced to configure TRM with PIM-SSM and TRM with PIM-SM.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Enhanced RP Functionality for Layer 3 TRM for IPv4 and IPv6 traffic	<p>Enhancement was introduced for the configuration of an RP in the overlay network for TRM with PIM-SM. The enhancement allows you to configure an RP on a single or multiple VTEPs inside the BGP EVPN VXLAN fabric or on a device outside the fabric.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Interworking of Layer 3 TRM with MVPN Networks for IPv4 Traffic	<p>Interworking of Layer 3 TRM with MVPN Networks allows you to forward IPv4 Layer 3 multicast traffic between sources and receivers of an EVPN VXLAN network and an MVPN network.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Broadcast, Unknown Unicast, and Multicast Traffic Rate Limiting	<p>BUM Traffic Rate Limiting allows you to use a policer and set the flood rate limit of the BUM traffic in the network to a predefined value.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
Cisco IOS XE Amsterdam 17.3.2a	VNI Support Enhancement	<p>Support for up to 512 VNIs (Layer 2 and Layer 3 VNIs combined) per VTEP was introduced.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
	Route Type 2 (RT 2) to Route Type 5 (RT 5) Host Route Reorigination for Overlay Networks with a Centralized Gateway (Asymmetric IRB)	<p>RT 2 to RT 5 reorigination allows a Layer 2 and Layer 3 VXLAN network to import IP addresses from another Layer 2-only VXLAN network. A centralized gateway VTEP can reoriginate any RT 2 host routes, that it learns from the Layer 2 EVPN segment (or MAC VRF), as RT 5 routes in the Layer 3 EVPN segment (or IP VRF).</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>

Release	Feature	Feature Information
Cisco IOS XE Bengaluru 17.6.1	Private VLANs (PVLANS) in a BGP EVPN VXLAN Fabric	<p>BGP EVPN VXLAN allows you to extend a PVLAN across the VTEPs in an EVPN fabric overlay. The extension uses isolated and community VLANs to provide features like subnet management and sub segmentation of a broadcast domain in the fabric.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
Cisco IOS XE Bengaluru 17.6.1	EVPN VXLAN Multi-homing in Single-active Redundancy Mode	<p>Multi-homing provides redundancy in the connection between a customer edge (CE) device and a VTEP by connecting the customer network with multiple VTEPs in an EVPN VXLAN network.</p> <p>In single-active redundancy mode, only one VTEP, among a group of VTEPs that are attached to the particular ethernet segment, is allowed to forward traffic to and from that ethernet segment.</p> <p>Multi-homing in single-active redundancy mode was introduced only in the form of dual-homing, allowing a CE device to be connected to two VTEPs.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
Cisco IOS XE Bengaluru 17.6.1	Route Leaking between EVPN and Global Routing Table	<p>The route leaking feature provides the import and export of routes between an EVPN-enabled VRF and the Global Routing Table (GRT). By enabling the import and export of the EVPN learned routes into the GRT, the border node provides access to services such as DNS or DHCP to the hosts in the fabric.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>
Cisco IOS XE Bengaluru 17.6.2	Data MDT Support for L3 TRM	<p>Data MDTs are purpose built underlay MDTs to provide optimized forwarding in the MVPN and EVPN core.</p>
Cisco IOS XE Cupertino 17.8.1	Optimized Layer 2 Overlay Multicast for IPv4 and IPv6 traffic	<p>Optimized Layer 2 Overlay Multicast forwards multicast traffic within the Layer 2 Virtual Network Instance (L2VNI). IPv4 and IPv6 Layer 2 overlay multicast traffic is optimized both at the access level and within the VXLAN fabric.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series Switches.</p>

Release	Feature	Feature Information
Cisco IOS XE Dublin 17.10.1	BGP EVPN VXLAN with IPv6 in the Underlay (VXLANv6)	<p>Introduced support for IPv6 addressing in the underlay of a BGP EVPN VXLAN fabric. In a new deployment, you can build your BGP EVPN VXLAN fabric with IPv6 underlay. For an existing BGP EVPN VXLAN fabric with IPv4 underlay, you can seamlessly migrate to an IPv6 or dual stack underlay.</p> <p>Support for this feature was introduced only on the Cisco Catalyst 9500 Series and 9500 High Performance Series switches.</p>
Cisco IOS XE Dublin 17.10.1	BGP EVPN VXLAN on Cisco Catalyst 9500X Series Switches	<p>The following features of BGP EVPN VXLAN were enabled on the Cisco Catalyst 9500X Series Switches:</p> <ul style="list-style-type: none"> <li>• IPv4 and IPv6 host support in the Layer 2 and Layer 3 overlays</li> <li>• IPv4 and IPv6 overlay unicast forwarding</li> <li>• Multicast Replication for Broadcast, Unknown Unicast and Multicast (BUM) traffic forwarding</li> <li>• EVPN VXLAN integrated routing and bridging (IRB) with distributed anycast gateway.</li> <li>• External connectivity: VRF-Lite and IEEE 802.1Q handoff</li> <li>• Layer 3 Tenant Routed Multicast with default MDT for IPv4 and IPv6 traffic</li> </ul>

Release	Feature	Feature Information
Cisco IOS XE Dublin 17.11.1	EVPN Microsegmentation	<p>BGP EVPN VXLAN integrates Cisco TrustSec to provide microsegmentation and end-to-end access control with the propagation of the security group tag (SGT). Using security group-based access control lists (SGACLs), you can control the operations that a user can perform, based on the security group assignments and destination resources in a VXLAN campus fabric.</p> <p>Support for this feature was introduced only on the Cisco Catalyst 9500 Series and 9500 High Performance Series switches.</p>
	EVPN VXLAN Multi-Homing	<p>BGP EVPN is enhanced to restrict the ethernet segment operations to the EVPN-controlled VLANs on the trunk port. This allows traditional Layer 2 domains to co-exist with the Layer 2 VNI-enabled VLANs at access layer. It also allows selective VLAN migration to overlay VXLAN segmentation.</p>
	Dynamic BGP Peering for EVPN	<p>Support for BGP dynamic neighbor sessions is extended to the L2VPN EVPN address family.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series, 9500 High Performance Series, and 9500X Series switches.</p>
	EVPN Route Map Support	<p>The Leaf, Spine and Border nodes of a BGP EVPN fabric now support route map for the L2VPN address family.</p> <p>With route map support, the BGP attributes and their values can be modified to customize the routing policy based on the requirement. The routing policy can be applied for both inbound and outbound EVPN routes.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series, 9500 High Performance Series, and 9500X Series switches.</p>
Cisco IOS XE Dublin 17.11.1	Cisco StackWise Virtual Support	<p>Cisco StackWise Virtual is a network system virtualization technology that pairs two switches into one virtual switch to simplify operations with a single control and management plane.</p> <p>Support for Cisco StackWise Virtual was introduced on the Cisco Catalyst 9500X Series Switches.</p>
	Layer 3 Tenant Routed Multicast with Data MDT	<p>Layer 3 TRM support was introduced on the Cisco Catalyst 9500X Series Switches.</p>

Release	Feature	Feature Information
Cisco IOS XE Dublin 17.11.99sw	TRM over BGP EVPN VXLANv6	<p>TRM over BGP EVPN VXLANv6 follows the industry standard IETF RFCs 6513 and 6514 to support rich multicast applications over the BGP EVPN VXLAN fabric network.</p> <p>The Cisco Catalyst 9000 series switches provide flexibility to transport IPv4 multicast applications in overlay networks while the underlay network can be built on single-stack IPv6 only.</p> <p>Support for this feature was introduced only on the Cisco Catalyst 9500 Series and 9500 High Performance Series switches.</p>
Cisco IOS XE Dublin 17.12.1	Optimized Layer 2 Overlay Multicast for IPv4 and IPv6 traffic	Support for Optimized Layer 2 Overlay Multicast was introduced on Cisco Catalyst 9500X Series Switches.
Cisco IOS XE Dublin 17.12.1	BGP EVPN VRF Auto RD and Auto RT	<p>BGP EVPN Layer 3 overlay VRF configuration is simplified with the introduction of new CLIs to auto generate the route distinguisher (RD) and route target (RT) for a VRF.</p> <p>Support for this feature was introduced on all the models of the Cisco Catalyst 9500 Series, 9500 High Performance Series, and 9500X Series switches.</p>
	Dynamic ARP inspection (DAI) and DHCP Rogue Server Protection in BGP EVPN VXLAN fabric	<p>BGP EVPN VXLAN fabric now supports ARP inspection and DHCP Rogue Server Protection. To configure these features, enable ARP inspection and DHCP Snooping on the VTEPs in the corresponding VLANs of the EVPN VXLAN fabric.</p> <p>Support for this feature was introduced only on the Cisco Catalyst 9500 Series and 9500 High Performance Series switches.</p>
Cisco IOS XE Dublin 17.12.2	TRM over BGP EVPN VXLANv6	<p>TRM over BGP EVPN VXLANv6 follows the industry standard IETF RFCs 6513 and 6514 to support rich multicast applications over the BGP EVPN VXLAN fabric network.</p> <p>The Cisco Catalyst 9000 series switches provide flexibility to transport IPv4 multicast applications in overlay networks while the underlay network can be built on single-stack IPv6 only.</p> <p>Support for this feature was introduced only on the Cisco Catalyst 9500 Series and 9500 High Performance Series switches.</p>

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# Unsupported BGP EVPN VXLAN Features on Cisco Catalyst 9500X Series Switches

The following BGP EVPN VXLAN features are not supported on the Cisco Catalyst 9500X Series Switches.

- Layer 2 Broadcast, Unknown Unicast, and Multicast (BUM) Traffic Forwarding using Ingress Replication
- BUM Traffic Rate Limiting
- Dynamic ARP inspection (DAI) and DHCP Rogue Server Protection
- EVPN VXLAN Centralized Default Gateway
- VXLAN-Aware Flexible Netflow
- MPLS Layer 3 VPN Border Leaf Handoff
- MPLS Layer 3 VPN Border Spine Handoff
- VPLS over MPLS Border Leaf Handoff
- VPLS over MPLS Border Spine Handoff
- Interworking of Layer 3 TRM with MVPN Networks for IPv4 Traffic
- Private VLANs (PVLANS)
- BGP EVPN VXLAN with IPv6 in the Underlay (VXLANv6)
- EVPN Microsegmentation
- VRF aware NAT64 EVPN Fabric

