

Release Notes for Cisco Catalyst SD-WAN Control Components Release 20.9.x

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Note

To achieve simplification and consistency, the Cisco SD-WAN solution has been rebranded as Cisco Catalyst SD-WAN. In addition, from Cisco IOS XE SD-WAN Release 17.12.1a and Cisco Catalyst SD-WAN Release 20.12.1, the following component changes are applicable: Cisco vManage to Cisco Catalyst SD-WAN Manager, Cisco vAnalytics to Cisco Catalyst SD-WAN Analytics, Cisco vBond to Cisco Catalyst SD-WAN Validator, Cisco vSmart to Cisco Catalyst SD-WAN Controller, and Cisco Controllers to Cisco Catalyst SD-WAN Control Components. See the latest Release Notes for a comprehensive list of all the component brand name changes. While we transition to the new names, some inconsistencies might be present in the documentation set because of a phased approach to the user interface updates of the software product.

Related References

- Cisco Catalyst SD-WAN Control Components Compatibility Matrix and Server Recommendations
- Cisco Catalyst SD-WAN Device Compatibility

User Documentation

- User Documentation for Cisco IOS XE Catalyst SD-WAN Release 17
- User Documentation for Cisco SD-WAN Release 20

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Release Notes for Cisco Catalyst SD-WAN Control Components Release 20.9.x



Note

To achieve simplification and consistency, the Cisco SD-WAN solution has been rebranded as Cisco Catalyst SD-WAN. In addition, from Cisco IOS XE SD-WAN Release 17.12.1a and Cisco Catalyst SD-WAN Release 20.12.1, the following component changes are applicable: Cisco vManage to Cisco Catalyst SD-WAN Manager, Cisco vAnalytics to Cisco Catalyst SD-WAN Analytics, Cisco vBond to Cisco Catalyst SD-WAN Validator, Cisco vSmart to Cisco Catalyst SD-WAN Controller, and Cisco Controllers to Cisco Catalyst SD-WAN Control Components. See the latest Release Notes for a comprehensive list of all the component brand name changes. While we transition to the new names, some inconsistencies might be present in the documentation set because of a phased approach to the user interface updates of the software product.

These release notes accompany the Cisco Catalyst SD-WAN Control Components, Release 20.9.x, which provides Cisco Catalyst SD-WAN capabilities. They include release-specific information for Cisco Catalyst SD-WAN Controllers, Cisco Catalyst SD-WAN Validators, Cisco SD-WAN Manager as applicable to Cisco Catalyst SD-WAN.

Related Releases

For release information about Cisco IOS XE Catalyst SD-WAN devices, refer to Release Notes for Cisco IOS XE Catalyst SD-WAN device, Cisco IOS XE Catalyst SD-WAN Release 17.9.x.

For release information about Cisco vEdge Devices, refer to Release Notes for Cisco vEdge Devices, Cisco Catalyst SD-WAN Release 20.9.x.

What's New for Cisco Catalyst SD-WAN Control Components Release 20.9.x

Cisco is constantly enhancing the Cisco Catalyst SD-WAN solution with every release and we try and keep the content in line with the latest enhancements. The following table lists new and modified features we documented in the Configuration, Command Reference, and Hardware Installation guides.

What's New for Cisco IOS XE Catalyst SD-WAN Release 17.9.x

This section applies to Cisco IOS XE Catalyst SD-WAN devices.

Table 1: Cisco IOS XE Catalyst SD-WAN Release 17.9.4

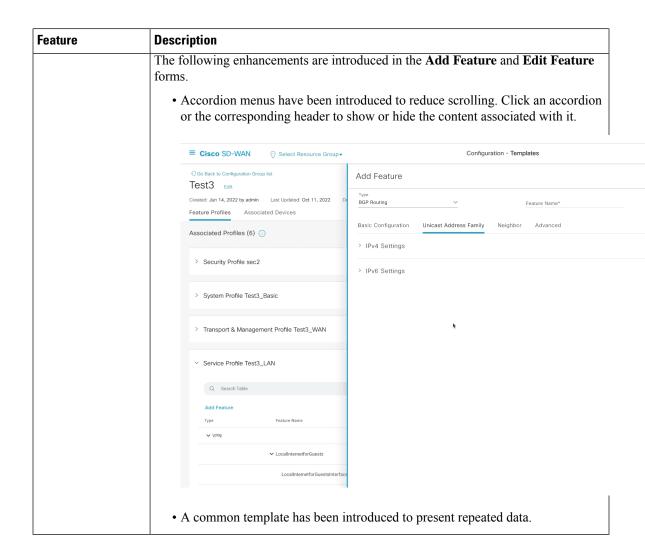
| Feature | Description |
|---------------------------------|-------------|
| Cisco Catalyst SD-WAN Analytics | |

| Feature | Description |
|--|---|
| Easy Onboarding of Cisco SD-WAN Analytics into Cisco Catalyst SD-WAN Manager | This feature enables you to easily onboard Cisco SD-WAN Analytics into Cisco Catalyst SD-WAN Manager. |

Table 2: Cisco IOS XE Catalyst SD-WAN Release 17.9.2a

| Feature | Description | |
|---------------------|--|--|
| Cisco Catalyst SD-V | Cisco Catalyst SD-WAN Systems and Interfaces | |

| Feature | Description |
|---|-------------|
| Changes in the Add Feature and Edit Feature Forms | |



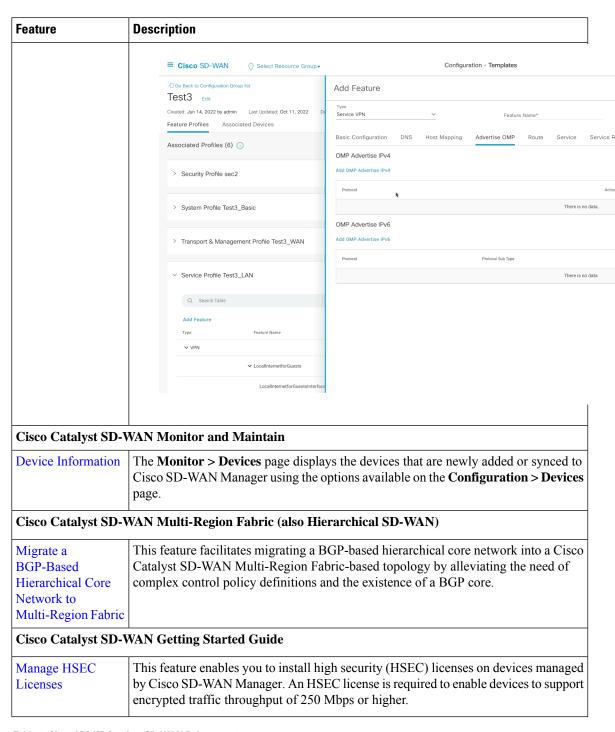


Table 3: Cisco IOS XE Catalyst SD-WAN Release 17.9.1a

| Feature | Description | |
|---------------------|---------------------------------------|--|
| Cisco Catalyst SD-V | Cisco Catalyst SD-WAN Getting Started | |

| Feature | Description |
|--|--|
| Support for License Management Using a Proxy Server | If you configure Cisco SD-WAN Manager to use a proxy server for internet access, Cisco SD-WAN Manager uses the proxy server to connect to Cisco SSM or an on-premises SSM. |
| Support for Managing Licenses Using Cisco Smart Software Manager On-Prem | Cisco SD-WAN Manager supports management of device licenses, using a Cisco SSM On-Prem license server. This is useful for organizations that use Cisco SSM On-Prem to accommodate a strict security policy that does not permit devices to communicate with Cisco SSM over a direct internet connection. |
| Renew Device CSR | This feature allows you to reset the RSA private and public keys, and generate a CSR that uses a new key pair. In earlier releases, the generation of CSR used the existing key pair. |
| Support for Software Maintenance Upgrade Package | This feature enables support for Software Maintenance Upgrade (SMU) package that can be installed on Cisco IOS XE Catalyst SD-WAN devices. The SMU package provides a patch fix or a security resolution to a released Cisco IOS XE image. Developers can build this package that provides a fix for a reported issue without waiting to make the fix available in the next release. |
| Cisco Catalyst SD-WAN Systems and Interfaces | |
| Hardened Passwords | This feature lets you configure Cisco SD-WAN Manager to enforce predefined medium-security or high-security password criteria. |

| Feature | Description |
|--|---|
| Configuration Groups and Feature Profiles (Phase II) | The following enhancements are introduced for the Configuration Group feature. |
| | Adds support for the following features: |
| , | • SNMP |
| | Cellular Interface |
| | BGP Routing (transport and management profile) |
| | Wireless LAN |
| | • Switch Port |
| | SVI Interface |
| | DHCP Server |
| | • ThousandEyes |
| | • Adds the IPv6 configuration support in the VPN, interface, and BGP features. |
| | Adds the following options to the Global settings, which are a part of the system profile. These options have been added to the Other Settings tab. |
| | Generate keepalive timers when incoming or outgoing network connections are idle |
| | Enable small TCP and UDP servers |
| | Enable console logging |
| | Enable IP source routing |
| | Display log messages to a vty session |
| | Enable SNMP IFINDEX persistence |
| | • Enable BOOTP server |
| Create Configuration Group Workflow for a Single-Router Site | |
| Network Hierarchy and Resource Management | This feature enables you to create a network hierarchy in Cisco SD-WAN Manager to represent the geographical locations of your network. The network hierarchy and the associated resource IDs, including region IDs and site IDs, help you apply configuration settings to a device. In addition, the introduction of the resource manager in Cisco SD-WAN Manager automatically manages these resource IDs, thereby simplifying the overall user experience of Cisco Catalyst SD-WAN. You can create a region only if you enable the Multi-Region Fabric option in Cisco SD-WAN Manager. |

| Feature | Description |
|---|--|
| Wireless Management on Cisco 1000 Series Integrated Services Routers supporting WIFI6 WLAN module | This feature enables you to configure the wireless LAN settings on WiFi6-capable Cisco 1000 Series Integrated Services Routers using Cisco SD-WAN Manager. |
| | The Embedded Wireless Controller on Cisco 1000 Series Integrated Services Routers helps you provide wireless connectivity without the need for another external controller to configure and manage the wireless settings on the routers using Cisco SD-WAN Manager. |
| Co-Management: Improved Granular Configuration Task Permissions | To provide a user with the ability to self-manage specific configuration tasks, you can assign the user permissions to configure specific features while excluding others. This feature introduces numerous new permission options, enabling fine granularity in determining which configuration task permissions to provide to a user. |
| RBAC for Security | This feature provides the following default user groups: |
| Operations and Network Operations | network_operations user group for non-security policies |
| Default User Groups | security_operations user group for security policies |
| | RBAC for policies allows you to create users and user groups with the required read and write permissions for security and non-security policies. Users can perform configuration and monitoring actions only for the authorized policy type. |
| Flexible Tenant Placement on Multitenant Cisco vSmart Controllers | With this feature, while onboarding a tenant to a multitenant deployment, you can choose the pair of multitenant Cisco SD-WAN Controller that serve the tenant. After onboarding a tenant, you can migrate the tenant to a different pair of multitenant Cisco SD-WAN Controller to allow for more tenant WAN edge devices than was forecast during onboarding. |
| Cisco Catalyst SD-V | VAN Routing |
| Route Leaking | This feature allows you to leak routes between service VPNs on the same edge device. |
| between Inter-Service VPN | Route leaking feature allows redistribution of replicated routes between the inter-service VPN for Connected, Static, BGP, OSPF, and EIGRP protocols on Cisco IOS XE Catalyst SD-WAN devices. |
| Cisco Catalyst SD-V | VAN Policies |
| Prioritized Color Preference | This feature adds support for ranking of Application Aware Routing (AAR) preferred and backup preferred colors. You can configure up to three levels of priority based on the color or path preference on a Cisco IOS XE Catalyst SD-WAN device. |
| Application-Aware Routing for IPv6 | This feature enables you to configure application-aware routing (AAR) policies to operate with IPv6 application traffic. |
| Flexible NetFlow Export Spreading | This feature enables export spreading to prevent export storms that occur when a burst of packets are sent to external collector. The export of the previous interval is spread during the current interval to prevent export storms. When Deep Packet Inspection (DPI) or netflow packets are sent over a low-bandwidth circuit, the export spreading functionality is enabled to avoid packet drops. |

| Feature | Description |
|--|---|
| Support for Cisco SD-WAN Policy Configuration Tagging Using the Cisco vSmart | This feature allows you to group multiple policy objects under a tag. The tag mechanism when used in Cisco Catalyst SD-WAN centralized or localized policies: |
| | Controls the policy configuration download speed between the Cisco SD-WAN Controller and the Cisco IOS XE Catalyst SD-WAN devices. |
| Controller CLI | Improves management of the defined lists in the Cisco vSmart Controller. |
| Template | Better organizes the configurations of the intent-based network. |
| Lawful Intercept | This feature enhances the support for Lawful Intercept in Cisco Catalyst SD-WAN. |
| | Cisco Catalyst SD-WAN's Lawful Intercept feature enables Cisco SD-WAN Manager and Cisco SD-WAN Controller to provide the key information to LEA so they can decrypt the Cisco Catalyst SD-WAN IPsec traffic captured by the MSP. |
| Cisco Catalyst SD-V | WAN Security |
| Cisco SD-WAN Identity-Based | This feature allows you to configure user-identity-based firewall policies for unified security policies. |
| Firewall Policy | Cisco Identity Services Engine and Microsoft Active Directory Services are identity providers to authenticate and authorize device users in the network. When Cisco SD-WAN Manager and a Cisco SD-WAN Controller establish a connection to the Cisco Identity Services Engine, information about user and user groups—that is, identity-mapping information—is retrieved from the Cisco Identity Services Engine. Identity-based policies are then distributed to Cisco IOS XE Catalyst SD-WAN devices. This identity mapping information is used while creating firewall policies. |
| Automatic GRE Tunnels to Zscaler | With this feature, use the Secure Internet Gateway (SIG) feature template to provision automatic GRE tunnels to Zscaler SIGs. In earlier releases, the SIG template only supported the provisioning of automatic IPSec tunnels to Zscaler SIGs. |
| Global SIG Credentials Template | With this feature, create a single global Cisco SD-WAN Manager SIG Credentials template for each SIG provider (Cisco Umbrella or Zscaler). When you attach a Cisco SD-WAN ManagerSIG template to a device template, Cisco SD-WAN Manager automatically attaches the applicable global Cisco SIG Credentials template to the device template. |
| Monitor Automatic SIG Tunnel Status and Events | Monitor security events related to automatic SIG tunnels using the Security Events pane on the Monitor > Security page, and the Events dashboard on the Monitor > Logs page. |
| | Monitor automatic SIG tunnel status using the SIG Tunnel Status pane on the Monitor > Security page, and the SIG Tunnels dashboard on the Monitor > Tunnels page. |
| Disable Weak SSH Encryption Algorithms | This feature allows you to disable weaker SSH algorithms that may not comply with certain data security standards. |
| Cisco Catalyst SD-V | WAN Cloud OnRamp |

| Feature | Description |
|--|---|
| Improved Visibility for Microsoft 365 Traffic | This feature provides improved visibility to allow you to monitor the details of Microsoft 365 traffic processed by Cloud OnRamp for SaaS. |
| Configure the Traffic Category and Service Area for Specific Policies | You can edit AAR policies individually to change the specified Microsoft 365 traffic category and service area for specific AAR policies. |
| Enable Cloud OnRamp for SaaS Operation for Specific Applications at Specific Sites | This feature allows you to selectively delete AAR policy sequences to exclude Cloud OnRamp for SaaS operation on specific applications at specific sites. |
| Option to Include or Exclude Microsoft Telemetry Data from Best Path Decision for Microsoft 365 Traffic | This feature allows you to choose whether Cloud OnRamp for SaaS should factor in the Microsoft telemetry data in the best path decision. If you disable this option, you can still view the Microsoft telemetry data in the Cisco SD-WAN Analytics dashboard, but it does not affect the best path decision. |
| Support for AWS GovCloud (US) with Cisco SD-WAN Cloud OnRamp for Multicloud | With the integration of Amazon Web Services (AWS) GovCloud (US) with Cisco Catalyst SD-WAN Cloud OnRamp for Multicloud, you can store your highly sensitive workloads in an isolated cloud that meets the Federal Risk and Authorization Management Program (FedRAMP) requirements of the U.S. government and its customers. |
| | The same features that are available with the AWS integration with Cisco Catalyst SD-WAN Cloud OnRamp for Multicloud are also available with Amazon GovCloud (US). Use the AWS Transit Gateway to connect your branch devices to the AWS GovCloud (US). |
| Support for the Azure for US Government Cloud with Cisco SD-WAN Cloud OnRamp for Multicloud | With the integration of the Azure for US Government cloud with Cisco Catalyst SD-WAN Cloud OnRamp for Multicloud, you can move and store your highly sensitive workloads in an isolated cloud that meets the Federal Risk and Authorization Management Program (FedRAMP) requirements of the U.S. government and its customers. |
| | All of the same features that are available for the Azure integration with Virtual WAN are also available with the Azure for US Government cloud. |
| Encrypted Multicloud Interconnects with Megaport | You can extend the SD-WAN fabric from the Interconnect gateway in Megaport into the AWS, Google Cloud and Microsoft Azure Cloud Service Providers. |
| Encrypted Multicloud Interconnects with Equinix | You can extend the SD-WAN fabric from the Interconnect gateway in Equinix into the AWS, Google Cloud and Microsoft Azure Cloud Service Providers. |

| Feature | Description | | |
|--|---|--|--|
| License Management for Cisco SD-WAN Cloud Interconnect with Megaport | To create Interconnect Gateways and Interconnect Connections in the Megaport fabric, you must purchase required licenses on Cisco Commerce Workspace. | | |
| | With this feature, Cisco SD-WAN Manager operates together with Megaport and enables you to monitor your licenses while Cisco and Megaport jointly enforce the license requirements when you create Interconnect Gateways or Interconnect Connections. | | |
| Decoupled Site-to-Site and Site-to-Cloud Connectivity | With this feature, you can configure some cloud gateways to support site-to-site and site-to-cloud connectivity, and other cloud gateways to support only site-to-cloud connectivity. This configuration flexibility is particularly beneficial in some Google Cloud regions that do not yet support site-to-site connectivity. | | |
| Configuration for Cloud Gateways | In earlier releases, connectivity type is a global configuration. You configure all the cloud gateways to support site-to-site and site-to-cloud connectivity, or to support only site-to-cloud connectivity. | | |
| Horizontal Scaling of Cisco Catalyst | With this feature, you can deploy between two and eight Cisco Catalyst 8000V instances as part of a cloud gateway in a particular region. | | |
| 8000V Instances in a Cloud Gateway | In earlier releases, you can deploy only two Cisco Catalyst 8000V instances as part of a cloud gateway, with each instance deployed in a different zone of a region. | | |
| Cisco Catalyst SD-V | Cisco Catalyst SD-WAN AppQoE | | |
| HTTP Connect | Starting from Cisco IOS XE Catalyst SD-WAN Release 17.9.1a, the HTTP Connect method handling is supported in AppQoE that enables services like SSL Proxy and DRE to optimize the HTTP Connect encrypted traffic. | | |
| Cisco SD-WAN Mon | nitor and Maintain | | |
| Access TAC Cases from Cisco SD-WAN Manager | This feature allows you to access Support Case Manager (SCM) wizard using Cisco SD-WAN Manager. You can create, view, or edit the support cases directly from Cisco SD-WAN Manager without having to go to a different Case Manager portal. | | |
| Analyze the Health of the Cisco SD-WAN Manager Cluster and Cluster Services Using the CLI | With this feature, you can analyze the health of the Cisco SD-WAN Manager cluster and the status of the cluster services using the request nms cluster diagnostics CLI command. | | |
| Additional Real Time Monitoring Support for AppQoE and Other Configuration Options | This feature adds support for real-time monitoring for AppQoE and other device configuration details. Real-time monitoring in Cisco SD-WAN Manager is similar to using show commands in the CLI of a device. | | |
| Customizable Monitor Overview Dashboard in Cisco SD-WAN Manager | This feature adds customizability to the Monitor Overview dashboard. It gives you the flexibility to specify which dashlets to view and sort them based on your personal preferences. | | |

| Feature | Description |
|--|--|
| Site Topology Visualization in Cisco SD-WAN Manager (Phase II) | This feature supports an enhanced, interactive visualization of site topology, providing information about the health of devices and tunnels in the topology. It provides you with an improved monitoring and troubleshooting experience. |
| Network-Wide Path Insight in Cisco SD-WAN Manager Enhancements | This feature provides enhancements to the network-wide path insight feature, including the collection and display of insight information, trace-level insight information, path insight information, and detailed application trace information. |
| IPv6 Support for Bidirectional Packet Capture on Cisco IOS XE SD-WAN Devices | This feature adds support for bidirectional capture of IPv6 traffic data to troubleshoot connectivity issues using CLI commands. As part of this feature, the following command is introduced to capture traffic details: monitor capture match ipv6 |
| Compare Template Configuration Changes Using Audit Logs | This feature introduces a Config Diff option for audit logs of device templates and feature templates. The Config Diff option shows configuration changes made to the template, comparing the current configuration and previous configuration. The Config Diff option is available for audit logs to view the configuration changes |
| | when a template is not attached to a device. |
| Schedule the Software Upgrade Workflow | This feature introduces an option to schedule software upgrades for edge devices using Cisco SD-WAN Manager. |
| Software Upgrade Workflow Support for Additional Platforms | Added support for Cisco Enterprise NFV Infrastructure Software (NFVIS) and Cisco Catalyst Cellular Gateways. |
| Cisco Catalyst SD-V | VAN NAT |
| Support for PPP Dialer Interfaces with NAT DIA | This feature adds support for the following Point-to-Point Protocol (PPP) dialer interfaces: PPP over Ethernet (PPPoE), PPP over Asynchronous Transfer Mode (PPPoA), and PPP over Ethernet Asynchronous Transfer Mode (PPPoEoA). |
| | You can use the PPP dialer interfaces to access IPv4 services and sites. |
| Support for Static NAT Mapping with HSRP | With this feature, if both the Hot Standby Router Protocol (HSRP) routers are configured with the same static NAT mapping, only the active device responds to the Address Resolution Protocol (ARP) request for a static NAT mapping entry. Traffic that fails over from the HSRP active device to the standby device does not have to wait for the ARP request to time out before failing over. |
| ALG Support for NAT DIA and Zone-Based Firewalls | This feature provides support for an application-level gateway (ALG) that translates the IP address inside the payload of an application packet. Specific protocols such as Domain Name System (DNS), FTP, and Session Initiation Protocol (SIP) require a NAT ALG for translation of the IP addresses and port numbers in the packet payload. |

| Feature | Description |
|--|---|
| Support for Port Forwarding with NAT DIA | With this feature, you can define one or more port-forwarding rules to send packets received on a particular port from an external network to reach devices on an internal network. |
| | Prior to Cisco IOS XE Catalyst SD-WAN Release 17.9.1a and Cisco SD-WAN Manager, port forwarding was available for service-side NAT only. |
| Support for NAT High-Speed Logging | This feature provides the ability to enable or disable high-speed logging (HSL) of all translations by NAT. |
| | The new ip nat log translations flow-export command is introduced. |
| | You can configure NAT HSL using a device CLI or a CLI add-on template. |
| Cisco Catalyst SD-V | VAN Multi-Region Fabric (also Hierarchical SD-WAN) |
| Re-Origination Dampening | In networks experiencing instability, TLOCs and bidirectional forwarding detection (BFD) tunnels may cycle repeatedly between being available and unavailable. This causes the overlay management protocol (OMP) to repeatedly withdraw and re-originate routes. This churn adversely affects Cisco vSmart controller performance. |
| | Adding a delay before re-originating routes that have gone down repeatedly prevents excessive churn, and prevents this type of network instability from diminishing Cisco SD-WAN Controller performance. |
| Migrating to Multi-Region Fabric | Cisco Catalyst SD-WAN Multi-Region Fabric provides a migration mode to facilitate migrating an enterprise network to Cisco Catalyst SD-WAN. Migration mode enables a stepwise transition of devices from Cisco Catalyst SD-WANs that are not part of a Multi-Region Fabric network to Cisco Catalyst SD-WANs operating in a Multi-Region Fabric architecture. |
| | The migration mode is useful for migrating complex networks that function similarly to a Multi-Region Fabric architecture—that is, they have multiple network segments, and have a control policy that directs inter-segmental traffic through network hubs. |
| Match Traffic by Destination Region | When creating an application route policy or data policy, you can match traffic according to its destination region. The destination may be a device in the same primary region, the same secondary region, or neither of these. |
| Specify Path Type Preference | When configuring a centralized policy, you can create a preferred color group list, which specifies three levels of route preference, called primary, secondary and tertiary. The route preferences are based on TLOC color and, optionally, on the path type—direct tunnel, multi-hop path, or all paths. Path type is relevant to networks using Multi-Region Fabric. |
| High Availability | |
| Configure Disaster Recovery Alerts | This feature provides support for configuring Cisco SD-WAN Manager alerts to generate an alarm and a syslog message for any disaster recovery workflow failure or event that occurs. |

What's New for Cisco SD-WAN Release 20.9.x

This section applies to Cisco vEdge devices.

Table 4: Cisco SD-WAN Release 20.9.2

| Feature | Description |
|---|--|
| Systems and Interfa | nces |
| Synchronized device lists in Cisco SD-WAN Manager | This feature synchronizes the device lists on the Configuration > Devices and Monitor > Devices pages. The Monitor > Devices page now displays the devices that are newly added or synced to Cisco SD-WAN Manager using the options available on the Configuration > Devices page. |

Table 5: Cisco SD-WAN Release 20.9.1

| Feature | Description | | | |
|--|--|--|--|--|
| Cisco Catalyst SD-WAN Getting Started Support for License Management Using a Proxy Server Support for Managing Licenses Using Cisco SD-WAN Manager supports management of device licenses, using a Cisco SSM On-Prem license server. This is useful for organizations that use Cisco SSM On-Prem to accommodate a strict security policy that does not permit devices to communicate with Cisco SSM over a direct internet connection. Renew Device CSR This feature allows you to reset the RSA private and public keys, and generate a CSR that uses a new key pair. In earlier releases, the generation of CSR used the existing key pair. Systems and Interfaces Hardened Passwords This feature lets you configure Cisco SD-WAN Manager to enforce predefined medium-security or high-security password criteria. Network Hierarchy and Resource Management This feature eables you to create a network hierarchy in Cisco SD-WAN Manager to represent the geographical locations of your network. The network hierarchy and the associated resource IDs, including region IDs and site IDs, help you apply configuration settings to a device. In addition, the introduction of the resource manager in Cisco SD-WAN Manager automatically manages these resource IDs, thereby simplifying the overall user experience of Cisco SD-WAN. You can create a region only if you enable the Multi-Region Fabric option in Cisco | | | | |
| Management Using | Cisco SD-WAN Manager uses the proxy server to connect to Cisco SSM or an | | | |
| Managing Licenses Using Cisco Smart Software Manager | Cisco SD-WAN Manager supports management of device licenses, using a Cisco SSM On-Prem license server. This is useful for organizations that use Cisco SSM On-Prem to accommodate a strict security policy that does not permit devices to communicate with Cisco SSM over a direct internet connection. | | | |
| Renew Device CSR | , , | | | |
| Systems and Interfa | nces | | | |
| Hardened Passwords | | | | |
| and Resource | to represent the geographical locations of your network. The network hierarchy and the associated resource IDs, including region IDs and site IDs, help you apply configuration settings to a device. In addition, the introduction of the resource manager in Cisco SD-WAN Manager automatically manages these resource IDs, thereby simplifying the overall user experience of Cisco SD-WAN. | | | |
| | You can create a region only if you enable the Multi-Region Fabric option in Cisco SD-WAN Manager. | | | |
| Co-Management: Improved Granular Configuration Task Permissions | To provide a user with the ability to self-manage specific configuration tasks, you can assign the user permissions to configure specific features while excluding others. This feature introduces numerous new permission options, enabling fine granularity in determining which configuration task permissions to provide to a user. | | | |

| Feature | Description |
|--|--|
| RBAC for Security Operations and Network Operations Default User Groups | This feature provides the following default user groups: • network_operations user group for non-security policies • security_operations user group for security policies RBAC for policies allows you to create users and user groups with the required read and write permissions for security and non-security policies. Users can perform configuration and monitoring actions only for the authorized policy type. |
| Flexible Tenant Placement on Multitenant Cisco SD-WAN Controller | With this feature, while onboarding a tenant to a multitenant deployment, you can choose the pair of multitenant Cisco SD-WAN Controller that serve the tenant. After onboarding a tenant, you can migrate the tenant to a different pair of multitenant Cisco SD-WAN Controller to allow for more tenant WAN edge devices than was forecast during onboarding. |
| Routing | |
| Route Leaking between Inter-Service VPN | This feature allows you to leak routes between service VPNs on the same edge device. |
| Policies | |
| Custom Applications | This feature enables you to define custom applications using Cisco Software-Defined Application Visibility and Control (SD-AVC) support. This feature is available only on Cisco vEdge devices. |
| Application-Aware Routing for Hub and Spoke | This feature allows you to configure AAR for traffic coming from tunnel to tunnel on Cisco Catalyst SD-WAN devices. Prior to Cisco SD-WAN Release 20.9.1, AAR policy is applied only for packets coming from service going to tunnel. With this feature, you can apply AAR policy for packets coming from tunnel to tunnel as per SLA requirements. |
| Lawful Intercept | This feature enhances the support for Lawful Intercept in Cisco Catalyst SD-WAN. |
| | Cisco Catalyst SD-WAN's Lawful Intercept feature enables Cisco SD-WAN Manager and Cisco SD-WAN Controller to provide the key information to LEA so they can decrypt the Cisco Catalyst SD-WAN IPsec traffic captured by the MSP. |
| Security | |
| Global SIG Credentials Template | With this feature, create a single global SIG Credentials template for each SIG provider (Cisco Umbrella or Zscaler). When you attach a SIG template to a device template, Cisco SD-WAN Manager automatically attaches the applicable global SIG Credentials template to the device template. |
| Disable Weak SSH Encryption Algorithms | This feature allows you to disable weaker SSH algorithms that may not comply with certain data security standards. |
| Cisco Catalyst SD-V | VAN Monitor and Maintain |

| Feature | Description |
|--|---|
| Access TAC Cases from Cisco SD-WAN Manager | This feature allows you to access Support Case Manager (SCM) wizard using Cisco SD-WAN Manager. You can create, view, or edit the support cases directly from Cisco vManage without having to go to a different Case Manager portal. |
| Analyze the Health of the Cisco SD-WAN Manager Cluster and Cluster Services Using the CLI | With this feature, you can analyze the health of the Cisco SD-WAN Manager cluster and the status of the cluster services using the request nms cluster diagnostics CLI command. |
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| Audit Logs | The Config Diff option is available for audit logs to view the configuration changes when a template is not attached to a device. |
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| Schedule the Software Upgrade Workflow | This feature introduces an option to schedule software upgrades for edge devices using Cisco SD-WAN Manager. |
| Software Upgrade Workflow Support for Additional Platforms | Added support for Cisco Enterprise NFV Infrastructure Software (NFVIS) and Cisco Catalyst Cellular Gateways. |
| High Availability | |
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What's New for Cisco Catalyst SD-WAN Control Components Release 20.9.x

This section applies to Cisco SD-WAN Manager, Cisco SD-WAN Controller, and Cisco SD-WAN Validator.

Table 6: Cisco vManage Release 20.9.3

| Feature | Description |
|--|--|
| Inactivity lockout | This feature lets you configure Cisco SD-WAN Manager to lock out users who have not logged in for a designated number of consecutive days. |
| Unsuccessful Login Attempts Lockout | This feature lets you configure Cisco SD-WAN Manager to lock out uses who made a designated number of consecutive unsuccessful login attempts within a designated period. |
| Duo Multifactor Authentication Support | This feature lets you configure Cisco SD-WAN Manager to require Duo multifactor authentication (MFA) to verify the identity of users before they can log in to Cisco SD-WAN Manager. |
| Custom Domain Settings | This feaure lets you specify a domain other than the default cisco.com domain when you create a Cisco Catalyst SD-WAN cloud-hosted overlay. |
| Create Predefined Inbound Rules | This feature lets you specify trusted IP addresses that are applied automatically to any overlay that you create in the future, and optionally to existing overlays, under the Smart Account for which you configure this feature. |

Software and Hardware Behavior Changes in Cisco Catalyst SD-WAN Control Components Release 20.9.5

| Behavior Change | Description |
|-----------------|--|
| | The device support for Cisco Catalyst SD-WAN Cloud Interconnect with Equinix is described in Restrictions for Cisco Catalyst SD-WAN Cloud Interconnect with Equinix. |

Important Notes, Known Behaviors, and Workarounds

- If your ConfigDB (Neo4j) username contains a (hyphen), the ConfigDB upgrade fails. For example, db-admin. Remove the hyphen before you upgrade the ConfigDB.
- From Cisco SD-WAN Release 20.4.1.1, Microsoft Azure environment is supported for deploying Cisco Catalyst SD-WAN Control Components (Cisco Catalyst SD-WAN Validator, Cisco SD-WAN Controller, and Cisco SD-WAN Manager). The support is limited to Cisco Catalyst SD-WAN cloud-based deployments only.
- If SD-AVC is enabled using Cloud Connector or custom applications while upgrading from Cisco vManage Release 20.3.1 to Cisco vManage Release 20.6.1 and later releases, during the upgrade, a defect CSCwd35357 is impacting the data plane. We strongly recommend you to contact the Cisco TAC to perform a workaround while upgrading.

- The bugs CSCwd78294 and CSCwd63915 are affecting user experience when Cisco SD-WAN Manager is running Cisco vManage Release 20.9.2. We recommend you upgrade to Cisco vManage Release 20.9.2.1 that has the latest build and provides you a seamless user experience. For more information see, the deferral notice.
- The bugs CSCwh16410, CSCwh48782, CSCwi45443 are affecting user experience when Cisco SD-WAN
 Manager is running Cisco Catalyst SD-WAN Control Components Release 20.9.5. We recommend you
 upgrade to Cisco Catalyst SD-WAN Control Components Release 20.9.5.1 that has the latest build and
 provides you a seamless user experience. For more information see, the deferral notice.

Cisco SD-WAN Manager Upgrade Paths

For information about Cisco SD-WAN Manager upgrade procedure, see Upgrade Cisco SD-WAN Manager Cluster.

| Starting Cisco SD-WAN Manager Version | Destination Version | | | | | | | | | | |
|---|---------------------|-------------------|--------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|
| | 19.2.x | 20.1.x | 20.3.x | 20.4.x | 20.5.x | 20.6.x | 20.7.x | 20.8.x | 20.9.x | | |
| 18.x/19.2.x | Direct Upgrade | Direct Upgrade | | Step upgrade through 20.3.x | Step upgrade through 20.3.x | Step upgrade through 20.3.x | Step upgrade through 20.3.x | Step upgrade through 20.3.x | Step upgrade through 20.3.x | | |

| Starting | Destination Version | | | | | | | | | | |
|---------------------------------------|---------------------|--------|----------------------|--------|--------|--------|--------|--------|--------|--|--|
| Cisco SD-WAN Manager Version | 19.2.x | 20.1.x | 20.3.x | 20.4.x | 20.5.x | 20.6.x | 20.7.x | 20.8.x | 20.9.x | | |
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| 19.2.x | 20.1.x | 20.3.x | 20.4.x | 20.5.x | 20.6.x | 20.7.x | 20.8.x | 20.9.x |
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| Starting | Destination Version | | | | | | | | | | | |
|---------------------------------------|---------------------|------------------|--|--|---|--|-----------------------------|-----------------------------|-----------------------------|--|--|--|
| Cisco SD-WAN Manager Version | 19.2.x | 20.1.x | 20.3.x | 20.4.x | 20.5.x | 20.6.x | 20.7.x | 20.8.x | 20.9.x | | | |
| 20.1.x | Not Supported | Not Supported | For cluster upgrade procedure**: request nms arguinab upgrade Note Without in that 50 record di coordinate coo | Direct Upgrade For cluster upgrade procedure**: request nms urgrande data baskee data baskee the disk is an or equality B. Use the quest nme hfiguration agnostidi mmand too data baskee is is applib ly for upgen devices nfi sco SD-Wi anager RM 1.1 and 200 | ridecomme sitzata base thessdisk is atoor equal B. Use the quest nms orf-idjuration agnostic rhectand to o sitzata base idole applicated applicated applicated the control of the control and the control of the control of the control and the control of the contro | size less to check size. able ades aning AN ease | Step upgrade through 20.3.x | Step upgrade through 20.3.x | Step upgrade through 20.3.x | | | |

| Starting Cisco SD-WAN Manager Version | Destination Version | | | | | | | | | | |
|---|---------------------|-----------|-----------|---------|----------------|------------------------------|--------------------|----------------------------|------------------------------|--------------------|--|
| | 19.2.x | 20.1.x | 20.3.x | 20.4.x | 20.5.x | 20.6.x | 20.7.x | 20.8.x | 20.9.x | | |
| 20.3.x | Not | Not | Not | Direct | Direct | Direct | Direct | Direct | Direct | | |
| | Supported | Supported | Supported | Upgrade | Upgrade | Upgrade | Upgrade | Upgrade | Upgrade | | |
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| Starting Cisco SD-WAN Manager Version | Destination Version | | | | | | | | |
|---|---------------------|-----------|-----------|-----------|--|---|--|---|---|
| | 19.2.x | 20.1.x | 20.3.x | 20.4.x | 20.5.x | 20.6.x | 20.7.x | 20.8.x | 20.9.x |
| 20.4.x | Not | Not | Not | Not | Direct | Direct | Direct | Direct | Direct |
| | Supported | Supported | Supported | Supported | Upgrade | Upgrade | Upgrade | Upgrade | Upgrade |
| | | | | | For cluster upgrade procedue**: request nms | For cluster upgrade procedue**: request nms | For cluster upgrade procedue**: request nms | request nms | For cluster upgrade procedue**: request nms |
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| 20.5.x | Not | Not | Not | Not | Not | Direct | Direct | Direct | Direct |
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| 20.6.x | Not | Not | Not | Not | Not | Not | Direct | Direct | Direct |
| | Supported | Supported | Supported | Supported | Supported | Supported | Upgrade | Upgrade | Upgrade |
| 20.7.x | Not | Not | Not | Not | Not | Not | Not | Direct | Direct |
| | Supported | Supported | Supported | Supported | Supported | Supported | Supported | Upgrade | Upgrade |
| 20.8.x | Not | Not | Not | Not | Not | Not | Not | Not | Direct |
| | Supported | Supported | Supported | Supported | Supported | Supported | Supported | Supported | Upgrade |

^{*}To check the free disk space using CLI,

- **1.** Use the vshell command to switch to vshell.
- 2. In vshell, use the df-kh | grep boot command.

^{**}Cluster upgrade must be performed using CLI

• Use the following command to upgrade the configuration database. This must be done on only one node in the cluster:

request nms configuration-db upgrade



Note

We recommend the data base size in the disk is less than or equal to 5GB. Use the request nms configuration-db diagnostic command to check the data base size. This is applicable only for upgrades of devices running Cisco SD-WAN Manager Release 20.1.1 and later.

• Enter login credentials, if prompted. Login credentials are prompted if all Cisco SD-WAN Manager server establish control connection with each other. After a successful upgrade, all configuration-db services are UP across the cluster and the application-server is started. Enter login credentials, if prompted. Login credentials are prompted if all Cisco SD-WAN Manager server establish control connection with each other. After a successful upgrade, all configuration-db services are UP across the cluster and the application-server is started.

Resolved and Open Bugs

About the Cisco Bug Search Tool

Use the Cisco Bug Search Tool to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.

You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.6

| Identifier | Headline |
|------------|--|
| CSCwi29893 | Unable to configure tracker group when Object tracker is configured as route. |
| CSCwk70669 | Changes made to Cisco SD-WAN Manager resource groups time out. |
| CSCwc51421 | Cisco SD-WAN Manager 20.10 : The nested feature profile RBAC is not handled properly. |
| CSCwj23187 | Cisco SD-WAN Manager side Fix for mitigating "eventname" : "bfd-state-change" issue seen in -CSCwj23253 |
| CSCwj71974 | "Enabled usage but prepaid consumption" still appears on CSSM with Cisco SD-WAN Manager 20.9.4.1 |
| CSCwj17284 | The communication between Cisco SD-WAN Manager cluster gets break due to routes overlapping with Eth4 interface. |

| Identifier | Headline |
|------------|--|
| CSCwd73212 | The ciscotacro and ciscotacrw login on Cisco SD-WAN Manager is not creating an entry in audit log. |
| CSCwk14972 | Cisco SD-WAN Manager : Serviceproxy hitting UpstreamOverflow-503/RateLimited-429 causing GUI down issues. |
| CSCwi74398 | DCA Rest: MT: If some tenant uploads fail, further tennats may be skipped. |
| CSCwk89844 | Missing custom-apps after upgrading controllers from 20.9.4.1 to 20.12.3 |
| CSCwh16901 | HSEC license installation from the workflow does not complete. |
| CSCwe84824 | Navigation to Analytics page in a Tenant is failed for netadmin user. |
| CSCwc73575 | Unable to copy firewall policy "Incorrect mode value detected in json payload". |
| CSCwk09399 | Cisco SD-WAN Manager active user session gets flushed out after short period causing abrupt UI logouts. |
| CSCwc04678 | The data-policy-commit-failure notification promote to alarm. |
| CSCwj34301 | Cisco SD-WAN Manager custom group user is not able to run speed test with 'Forbidden Request: roleNotAllowed'. |
| CSCwj23827 | SDWAN Manager DR : Replication stuck and not even attempting to create further exports. |
| CSCwj64763 | API call for dataservice/management/elasticsearch/index/size/estimate is failing. |
| CSCwi62044 | SD-AVC container mount point change in Cisco SD-WAN Manager results in lost custom apps post-upgrade. |
| CSCwi24780 | Alarm: Analytics is enabled but relevant license is not present. |
| CSCwi21523 | WFLYSRV0272: Suspending server due to NON_FIPS_CRYPTO_FEATURE |
| CSCwk88478 | VRRP default timer shows 1000ms in GUI but it show 100ms in preview and pushed 100ms to device. |
| CSCwh38837 | API call for dataservice/management/elasticsearch/index/size/estimate is failing. |
| CSCwh84250 | Feature template update failure. |
| CSCwi57614 | Cisco SD-WAN Manager: Enterprise Feature Certificate Authorization domain name issue |
| CSCwi43016 | Need pop-up to display warning banner on 20.9 and 20.12 stating "SHA/AES-128 deprecation". |
| CSCwj04353 | DCA is not sending device list data for MT Tenants. |
| CSCwj09098 | SDWAN Manager DC-DR : Replication failure happens during import of vmanagedbSYSTEMDEVICESNODE |

| Identifier | Headline |
|------------|---|
| CSCwj24314 | [20.9.4] High memory utilization for wildfly. |
| CSCwk14925 | Cisco SD-WAN Validator running 20.6.5.2 experiencing kernel panic. |
| CSCvz70097 | Cisco SD-WAN Manager DSPFarm CUCM Template Dialog UI issues. |
| CSCwi65359 | SDWAN Manager replication failure seen due to import lock not acquired on the standby nodes. |
| CSCwj57249 | For event based alarms-missing event from device breaks Alarm logic-ReferCSCwj21640, Cisco SD-WAN Manager side fix. |
| CSCwh56318 | HSEC license installation from the workflow changed (from systemDeviceIp to localSystemDeviceIp). |
| CSCwh28301 | Cisco SD-WAN Manager GUI becomes very slow when a large template. |
| CSCwi01270 | Cannot overwrite a FW security policy with a cli add on template, config is not seen on device. |
| CSCwj89979 | FIS - GUI UX Slowness - CSCwh28301 |
| CSCwe97912 | Config-db OutOfMemoryError seen after 20 days and UI is not accessible. |
| CSCwk07246 | Need to address collection thread issue. |
| CSCwi64908 | /dataservice/statistics/approute/fec/aggregation API takes much longer after upgrade. |
| CSCwe51543 | Stats db in boot-loop after upgrading from 20.6 to 20.11,20.12 UI inaccessible |
| CSCwe57515 | Template attach fails after syncing for offline mode licenses on 20.11 |
| CSCwj89565 | Template pushes are taking a lot of time for scale setup. |
| CSCwh16410 | Admin tech generation for Cisco SD-WAN Manager is failing in UI. |
| CSCwj27435 | 20.9.4: License Reporting seems to be broken in online mode releasing license. |
| CSCwj90135 | Audit log page API is not working in 20.9.5.1 version. |
| CSCwk05068 | No space left on device error seen on Cisco SD-WAN Controller. |
| CSCwi92159 | 6-Nodes: Alarms stop showing after restart |

| Identifier | Headline |
|------------|---|
| CSCwk41441 | Cisco SD-WAN Manager template push failed config pull with "Failed to finish the task". |
| CSCwm35064 | High CPU utilization on multiple Cisco SD-WAN Manager cluster nodes randomly 20.9.5.2.7 |

| Identifier | Headline |
|------------|---|
| CSCwm09715 | The community exact-match is not removed from IOS-XE running config when changed via policy. |
| CSCwm35108 | Neo4j getting killled due to OOM resulting in GUI being unavailable even with enough resources. |
| CSCwm37373 | SDWAN reverse proxy missing documentation in the behavior when deployment has public and privat tloc |
| CSCwm31108 | Cisco SD-WAN Manager Switch Port feature template having discrepancies in 20.6.x versions. |
| CSCwm09309 | Cisco SD-WAN Manager failing to push VPN template when configuring the Perfect Forward Secrecy to group 20. |
| CSCwm34961 | SDWAN Template Rollback not triggered when CC goes down after changing Org Name via CLI template. |
| CSCwm03567 | Incorrect Cisco SD-WAN Manager node pushing a template to Cisco IOS XE Catalyst SD-WAN device. |
| CSCwm31183 | Control Connection down before hello tolerance time due to unidirectional packet drop. |
| CSCwm02632 | Configuring route-aggregate from Cisco SD-WAN Manager without 'aggregate-only' looks misleading. |
| CSCwm27276 | SDWAN Manager: Replication of statistics file causes Service-proxy 503 UH & GUI goes unreachable. |
| CSCwk56440 | Cisco SD-WAN Controller loosing control connections to the SDWAN controllers |
| CSCwm27466 | Cisco SD-WAN Manager: Warning Message when customer configures allow-service all via config-grp and template. |
| CSCwm27485 | SDWAN Controllers CLI: Warning Message when customer configures allow-service all. |
| CSCwm14592 | Cisco SD-WAN Manager UI Password create or update. |
| CSCwk87578 | Continuous logs being generated by Cisco SD-WAN Manager. |

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.5.2

| Bug ID | Description |
|------------|--|
| CSCwe51543 | Stats db in boot-loop after upgrading from 20.10 to 20.11, UI inaccessible |

Open Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.5.2

| Bug ID | Description |
|------------|---|
| CSCwj34301 | Cisco SD-WAN Manager custom group user is not able to run speed test with 'Forbidden Request: roleNotAllowed' |

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.5.1

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.5.1

| Bug ID | Description |
|------------|--|
| CSCwi45443 | The vdaemon file is incomplete when generating a Cisco SD-WAN Manager admin-tech using GUI |
| CSCwh16410 | Admin tech generation for Cisco SD-WAN Manager is failing in UI |
| CSCwh48782 | TACACS netadmin users not able to access vshell on 20.12 |

Open Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.5.1

| Bug ID | Description |
|------------|--|
| CSCwj34301 | Cisco SD-WAN Manager custom group user is not able to run speed test with 'Forbidden Request: roleNotAllowed'. |

Bugs For Cisco Catalyst SD-WAN Control Components Release 20.9.5

| Identifier | Headline |
|------------|--|
| CSCwd95581 | VRRP timer in Cisco SD-WAN Manager UI - default 100ms |
| CSCwf68955 | Cisco SD-WAN Manager Log Poisoning bypass |
| CSCwf68959 | Cisco SD-WAN Manager Audit Log CSV payload injection |
| CSCwf75967 | Cisco SD-WAN Manager Malicious File Upload vulnerability |
| CSCwc51421 | Cisco SD-WAN Control Components 20.10 : nested feature profile RBAC is not handled properly. |
| CSCwh25000 | Cannot overwrite a FW security policy with a CLI add-on template. |
| CSCwc08313 | System does not throw an error message for the overlapping policies in some cases. |
| CSCwi27589 | Cloud on ramp for multicloud deploy fails with error : Azure Error: Request Disallowed By Policy |
| CSCwi04802 | Create CGW failing with "Public access is not permitted on this storage account". |

| Identifier | Headline |
|------------|--|
| CSCwe34379 | The Cisco SD-WAN Manager access failed when accessingCisco SD-WAN Manager using DNS record |
| CSCwd94839 | Cisco SD-WAN Manager GUI becomes unavailable due to authentication errors against configuration-db. |
| CSCwd16027 | Unable to generate report from Cisco SD-WAN Manager for SLP Offline mode - Error occurred while generating report. |
| CSCwf75554 | 3 node 20.6 cluster reporting error for 1 node:Unable to authenticate for for device IP Nio2Session |
| CSCwd73212 | The ciscotacro and ciscotacrw login on Cisco SD-WAN Manager is not creating an entry in audit log. |
| CSCwe14017 | The 20.6.5 Cisco SD-WAN Validator and Cisco SD-WAN Controller upgrade fail via Cisco SD-WAN Manager UI |
| CSCwh02439 | Cisco SD-WAN Manager- Unable to add devices to Cloud on Ramp for SaaS due to timeout while loading device list. |
| CSCwe80348 | Cluster creation may fail due to store ID mismatch in neo4j. |
| CSCwe26011 | Cisco SD-WAN Manager is not generating alarm notifications to be sent to Webhooks server. |
| CSCwf81695 | Unable to add more than 30 VPN Interface SVI. |
| CSCwe32116 | Cisco SD-WAN Manager : DSPFarm template error "Duplicate value:mediaresourcegroupname" |
| CSCwc44186 | Getting maximum session limit reached when trying to ssh to edge devices from Cisco SD-WAN Manager. |
| CSCwi03952 | Cisco SD-WAN Manager template push failure Failed to update configuration - CLI generation failed. |
| CSCwh04968 | Control Session PPS increase and reset during the upgrade for Cisco vEdge Device. |
| CSCwe07709 | The Cisco SD-WAN Controller reboots with kernel panic, customer netwrok outage because of OMP State becomes Rej,Inv,U. |
| CSCwf48674 | The Cisco IOS XE Catalyst SD-WAN device unified security policy template fails to enable geo database. |
| CSCwf98777 | The Cisco SD-WAN Controller policy is not sending the updated TLOC information. |
| CSCwh22127 | Software initiated reboot due to OMPD crash (segmentation fault). |
| CSCwh01870 | Template push failed post Cisco SD-WAN Manager upgrade from 20.4 to 20.9 "udp udp-src-dst-port-list source range". |

| Identifier | Headline |
|------------|--|
| CSCwc05127 | Breakdown of U-Plane communication after updating Cisco SD-WAN Controller CiscoPKI certificate. |
| CSCwf07155 | "Set CSR Properties" for Controllers Cert Auth setting on Cisco SD-WAN Manager GUI is not getting disabled. |
| CSCwe57259 | Template pushed with wrong APN settings. The Cisco SD-WAN Manager shows wrong APN config even after rollbacked. |
| CSCwh45608 | 20.9: IP Subnet Pool is not discovered when creating Azure CGW using existing vHUB. |
| CSCwb43140 | java.lang.OutOfMemoryError: unable to create native thread (may lead to sysmgr got signal 11 crash) |
| CSCwi59963 | DCA process continuously restarting after upgrade to 20.9.3.2. |
| CSCwf53131 | Login via Radius is working but Usergroup is basic instead of netadmin. |
| CSCwh73298 | After upgrading the Cisco SD-WAN Manager from 20.6.x to 20.9.3 ES, the standby Cisco SD-WAN Manager reports down status. |
| CSCwf38317 | Syntax error when changing rule action from "drop log" to "inspect" for ZBFW template |
| CSCvz70097 | Cisco SD-WAN Manager DSPFarm CUCM Template Dialog UI issues. |
| CSCwh18874 | Replication takes 4+ hours to inject the 100MB of data on standby cluster-No Make Primary to switch |
| CSCwh46024 | Cisco SD-WAN Manager is not starting new traces due to high scaled full mesh network. |
| CSCwh84962 | The Cisco SD-WAN Controller withdraws TLOC RIB out after going into GR |
| CSCwh26907 | Cisco SD-WAN Manager GUI SaaS Probe Endpoint Type URL is not allowing to use "-" character as value. |
| CSCwf40110 | The option to add Switchport in the Configuration Group Templates is not available. |
| CSCwe31884 | RBAC Configurational Group bug on 20.9.1 Software Version |
| CSCwf95317 | Devices are not receiving the preference via the policy in a Multi-Tenant environment. |
| CSCwh83203 | MT: Centralized policy push with overlapping sites is returing success but Cisco SD-WAN Controller rejects it. |
| CSCwh24243 | Suppress OMP Advertisement of Stale versioned TLOCs on Cisco SD-WAN Controller. |
| CSCwd53871 | Filtering doesnot work for real-time OMP commands on Cisco SD-WAN Manager 20.6. |
| CSCwc47669 | Cisco SD-WAN Manager cannot edit ZBFW policy. |
| CSCwh12619 | "Routing DNA Essentials: Tier 0: 05M" is not available to choose in Cisco SD-WAN Manager GUI |

| Identifier | Headline |
|------------|---|
| CSCwh93441 | [Cisco SD-WAN Manager] Unable to login SSH including ciscotacro/ciscotacrw |
| CSCwi21156 | SDCI-Azure connection creation failsAzure Error:PublicIpWithBasicSkuNotAllowedOnExpressRouteGateways |
| CSCwh66310 | Intermittently the SSO user with tenantadmin privilege only getting basic access. |
| CSCwh55434 | In 3 memeber Elastic cluster , 1 FOLLOWER exibiting 96% CPU Utilization due to WRITE Threads |
| CSCwi30235 | Issue with accessing Cisco SD-WAN Manager 20.6.6 GUI using upper-case letter on TACACS username |
| CSCwe90415 | Massive update for Feature Template fails. |
| CSCwi05515 | DR replication taking 2 hours for ~100 MB Size |
| CSCwh24335 | Manipulate driver of Neo4j and ES to use static logger instead of new logger (Cisco SD-WAN Manager Slowness 20.6) |
| CSCvt47226 | Routes missing on a SD-WAN Edge router in a graceful-restart scenario. |
| CSCwe87281 | Requirement to support recommended DH groups from Umbrella for IKEv2 (SIG Template). |
| CSCwf49674 | Cisco SD-WAN Manager is modifying load_balance .json leading to the edges to be disconnected. |
| CSCwh18738 | Licenses unapplied from License Management in Cisco SD-WAN Manager after DR failover/failback. |
| CSCwi72014 | CDCS Tenant - SSH tool not working |
| CSCwh22202 | Overlay not coming up for Cisco hosted controllers - Post call getting mapped with wrong datastore. |

Open Bugs for Cisco SD-WAN Controllers Release 20.9.5

| Identifier | Headline |
|------------|--|
| CSCwi43016 | Need pop-up to display warning banner on 20.9 and 20.12 stating "SHA/AES-128 deprecation" |
| CSCwi45443 | The vdaemon file is incomplete when generating a Cisco SD-WAN Manager admin-tech using GUI |
| CSCwh16410 | Admin tech generation for Cisco SD-WAN Manager is failing in UI |
| CSCwh48782 | TACACS netadmin users not able to acess vshell on 20.12 |
| CSCwf34015 | Unable to push template due to "no ip cef distributed" |

| Identifier | Headline |
|------------|--|
| CSCwi43409 | Cisco SD-WAN ManagerCisco SD-WAN Manager 20.9/20.12: enforce character length validation for user, usergroup, password via confD |
| CSCwh97427 | RADIUS user with username format domain\xxxx get's logged out without minutes of logging in. |
| CSCwi62044 | HTTP 401 response when creating custom applications on Cisco SD-WAN Manager after upgrade. |
| CSCwi59683 | MT Controllers - show control connection history doesn't list org name |
| CSCwi27360 | The customer is seeing Unable to attach templates for some Cisco IOS XE Catalyst SD-WAN devicev- C1121x, on 20.9.4.1/17.9.4a |
| CSCwj34301 | Cisco SD-WAN Manager custom group user is not able to run speed test with 'Forbidden Request: roleNotAllowed'. |

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.4.1

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.4.1

| Identifier | Headline |
|------------|--|
| CSCwh22202 | Overlay not coming up for Cisco hosted controllers - Post call getting mapped with wrong datastore |

Bugs For Cisco Catalyst SD-WAN Control Components Release 20.9.4

| Identifier | Headline |
|------------|--|
| CSCwc51421 | 20.10 : nested feature profile RBAC is not handled properly |
| CSCwd73212 | The ciscotacro and ciscotacrw login on Cisco SD-WAN Manager is not creating an entry in audit log |
| CSCwd94301 | MTT correlation engine not generating OMP Alarms from OMP Event received from Cisco SD-WAN Controller. |
| CSCwb91924 | Cisco SD-WAN Manager 20.8.1 "Error in generating configuration diff for the device" template with SIP commands |
| CSCwe54012 | Neo4j not updating the ControlWanInterface info when Operational status changes |
| CSCwf21372 | Cisco SD-WAN Manager does not recognize the resource group for resource group admin login via TACACS |
| CSCwc65025 | The email notifications failing when Security is set as TLS with Gmail SMTP |
| CSCwd60889 | The CPU average values reported to Cisco SD-WAN Manager are incorrect |

| Identifier | Headline |
|------------|--|
| CSCwf53131 | Login via Radius is working but Usergroup is basic instead of netadmin |
| CSCwe30924 | The removal of OU field in Cisco SD-WAN Manager for CSR of web-server certificate |
| CSCvz70097 | Cisco SD-WAN Manager DSPFarm CUCM Template Dialog UI issues |
| CSCwf50089 | Template push fails when ZBFW policy has sequences matching UDP ports 500/4500 in Cisco SD-WAN Manager 20.9 |
| CSCwf03555 | Cisco SD-WAN Manager is unable to parse certain timezones and is triggering certificate installation process |
| CSCwe34081 | in Cisco SD-WAN Manager db, HSEC license node is showing duplicate Device IPs for UUIDs |
| CSCwe49214 | Backend changes to allow all the characters that are allowed by CSSM |
| CSCwe12396 | Max netconf sessions reached in confd which causes login failure for Cisco SD-WAN Manager |
| CSCwd54278 | The anamgr process restarts unexpectedly |
| CSCwe45436 | /dataservice/device/cellular/hardware?deviceId return 400 in 20.6 Cisco SD-WAN Manager for Nutella deviecs |
| CSCwf09036 | Cisco SD-WAN Manager configures incorrect IKEv2 lifetime for IPsec tunnels |
| CSCwd37096 | Enabled usage but prepaid consumption - Product instance "UDI_PID:Cisco_Cisco SD-WAN Manager |
| CSCwf28362 | Cisco SD-WAN Manager is not generating alarm notifications to be sent to Webhooks server. |
| CSCwd85558 | The app-server java process is not initiating in 6 node 20.6 cluster |
| CSCwh03202 | Cisco Catalyst SD-WAN Manager Unauthorized Access Vulnerability |

Open Bugs for Cisco SD-WAN Controllers Release 20.9.4

| Identifier | Headline |
|------------|--|
| CSCwe60017 | Cisco SD-WAN Manager CLI add-on template not pushing configuration on 20.9.x |
| CSCwf34015 | Unable to push template due to "ip cef distributed" |
| CSCwf40110 | The option to add Switchport in the Configuration Group Templates is not available |

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.3.2

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.3.2

| Identifier | Headline |
|------------|---|
| CSCwf76218 | Cisco SD-WAN Manager Unauthenticated REST API Access Vulnerability. |
| CSCwf82344 | Cisco SD-WAN Manager Unauthenticated REST API Access Vulnerability. |
| CSCwf68936 | Cisco SD-WAN vManage Authorization Bypass Vulnerability |
| CSCwf55823 | Cisco Catalyst SD-WAN Manager Authorization Bypass Vulnerability |

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.3.1

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.3.1

| Identifier | Headline |
|------------|---|
| CSCwf28118 | Cisco vEdge: Certificate issue on Cisco vEdge devices |

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.3

| Identifier | Headline |
|------------|---|
| CSCwc51421 | 20.10 : nested feature profile RBAC is not handled properly |
| CSCwd90919 | Controller server logging priority config does not take effect |
| CSCwd79186 | Cisco SD-WAN Manager generating corrupted TAR file for config-db backup on 20.3.4.0.5 |
| CSCwd55169 | Inactive user (disabled state) is able to login via CLI |
| CSCwd78294 | Screen goes into loading when logged in as a basic user |
| CSCvz70097 | Cisco SD-WAN Manager DSPFarm CUCM Template Dialog UI issues |
| CSCwb58176 | SSO/ciscotacro/rw User Session invalidated when browser switches between Cisco SD-WAN Manager nodes in cluster |
| CSCwe31950 | Cisco SD-WAN Manager HTTP/HTTPS Settings break DR process even after adding the Cluster IPs in the non-proxy list |
| CSCwc87356 | Cisco SD-WAN Manager "Renew Device CSR" task cannot be opened under completed tasks |
| CSCwd35596 | Disaster Recovery warning shown when pushing templates to WAN Edge Devices |
| CSCwd37119 | No Real Time Data or CPU/Memory data from ESR-6300-NCP-K9 17.9.1 |

| Identifier | Headline |
|------------|--|
| CSCwe06555 | Attaching license to device fails with Invalid saName error due special characters |
| CSCwd73212 | ciscotacro and ciscotacrw login on Cisco SD-WAN Manager is not creating an entry in audit log |
| CSCwd90841 | Cisco SD-WAN Manager: Dashboard: WAN Edge Health Widget shows invalid / unconfigured edges in poor health status |
| CSCwd46383 | Cisco SD-WAN Software Denial of Service Vulnerability |

| Identifier | Headline |
|------------|---|
| CSCwe27800 | Cisco SD-WAN Manager IdP gives Invalid User or Password |
| CSCwe19378 | Cannot sync HSEC using "Sync and Install HSEC Licenses" workflow if account pass phrase contain "#" |
| CSCwc66840 | 17.9 Config Preview for very large sec policy is taking too long compared to previous releases |
| CSCwe34379 | Cisco SD-WAN Manager access failed when accessing Cisco SD-WAN Manager using DNS record |
| CSCwe34081 | in Cisco SD-WAN Manager db, HSEC license node is showing duplicate Device IPs for UUIDs |
| CSCwe27472 | Unable to install HSEC licenses from Cisco SD-WAN Manager to Cisco Catalyst 8000v |
| CSCwe25625 | 20.9.3: GCP: Service Discovery Failure while upgrading from 20.6.5 to 20.9.3 |
| CSCwe31884 | RBAC Configurational Group bug on 20.9.1 Software Version |
| CSCwd90586 | Cisco SD-WAN Manager scrollbar is executing several API calls that slow down the performance |
| CSCwe26568 | Cisco SD-WAN Manager multitenancy do not report licenses after provider credentials are changed. |
| CSCwd85558 | "app-server" java process is not initiating in 6 node 20.6 cluster |
| CSCwe30225 | Cisco SD-WAN Manager 20.9.3: enabling inactivity days in 1 node of cluster is not reflecting on other nodes |

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.2.1

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.2.1

| Identifier | Headline |
|------------|--|
| CSCwd78294 | The screen keeps on loading when logged in as a basic user |
| CSCwd63915 | Delay of around 6 hours to update "vmanage_auth_creds" after DR switchover |

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.9.2

| Identifier | Headline |
|------------|--|
| CSCwc51421 | Cisco Catalyst SD-WAN Control Components Release 20.10 : nested feature profile RBAC is not handled properly |
| CSCwd21136 | UX2.0:20.9: VPN0-MGMT-VPN parcel IPv4 Static Route GW set to "Default" deploy failed |
| CSCwc13452 | Memory leak in Cisco SD-WAN Controller -OMP |
| CSCwc43513 | Stats are not getting processed on Cisco SD-WAN Manager GUI running 20.8.1 code |
| CSCwc60902 | MTT unreachable device not showing up in common inventory page |
| CSCwc55684 | Cisco Catalyst SD-WAN SIG GRE: Layer 7 health check doesn't work on loopback interfaces |
| CSCwb68441 | VPN drop menu shows empty in NWPI when we intiate trace for first time |
| CSCwc50308 | Frequent GC causing Server unavailable returing 503, GUI unaccessible intermittently |
| CSCwc71437 | Controller group is not updated correctly when pushed from Cisco SD-WAN Manager |
| CSCwc72609 | Incorrect behavior for ICMP redirect disable from WAN/LAN interface parcel |
| CSCwd21774 | Saving WAN/LAN BGP parcel fails when BGP IPv4/IPv6 neighbor remoteAS is set to global integer value |
| CSCwc73492 | Cisco SD-WAN Controllers release 20.10, Cisco vBond Hostname "NULL" |
| CSCwc70086 | The side by side CLI compare does not put empty lines to see impact of change between 2 devices |
| CSCwc75127 | Cisco SD-WAN Manager Cisco IOS XE Catalyst SD-WAN Device BGP summary Counts are incorrect |
| CSCwb92586 | Cisco SD-WAN Controllers Release 20.3.4, DR registration failed |
| CSCwc24241 | Navigation to cancel from template "Confirm Load Method" popup does not cancel the operation |

| Identifier | Headline |
|------------|---|
| CSCvz70097 | Cisco SD-WAN Manager DSPFarm CUCM template dialog UI issues |
| CSCwc41119 | Duplicate role descriptors found in IDP metadata |
| CSCwa68925 | Cisco SD-WAN Controllers Release 20.3.4 2 minutes delay in Webhook event. |
| CSCwc51414 | Hide the options from workflow side menu for the config group which are hidden in workflow page |
| CSCwd11782 | UX2.0:20.9: LAN VPN10-99-Intf v4/v6 sec addr device specific variable giving dup'd names |
| CSCwc08514 | Cisco SD-WAN Manager GUI and CLI has different syntax for usergroup |
| CSCwd04623 | Packet Capture: VPN 65530 is not letting the loopback 65530 to be chosen |
| CSCwb95806 | botocore.errorfactory.RegionDisabledException when doing VPC discovery with some regions inactive |
| CSCwc55697 | Exception handling in Cisco SD-WAN Manager code does not return details about the exception we are hitting |
| CSCwb91858 | Some template integer fields can be changed using the scroll wheel |
| CSCwc95935 | DCA.py to remove the check for vanalytics to push telemetry data |
| CSCwa79824 | Cisco SD-WAN Manager alarms logs are not cleared upon clicking "Mark All as viewed" when notification is 999+ |
| CSCwc65037 | MRF: OMPD crash in access Cisco vSmart while running policy cases in regression |
| CSCwc80099 | After configdb credentials change, app-server is not coming up due to use of hyphen in credentials |
| CSCwc95869 | Memory leak observed when adding a new node to a cluster |

Open Bugs for Cisco SD-WAN Controllers Release 20.9.2

| Identifier | Headline |
|------------|---|
| CSCwd26472 | Cisco SD-WAN Manager : DSPFarm template not accepting multiple variable fields for "CUCM Media Resource Name" |
| CSCwd36189 | After upgrading to Cisco SD-WAN Manager 20.9.1-li template push and onboarding is no longer working |
| CSCwd18028 | After deleting CSP, New CCM bringup on existing CSP is stuck in "Initializing CCM" on MT cluster |
| CSCwc94093 | Users are unable to login to Cisco SD-WAN Manager GUI |
| CSCwc66840 | 17.9 config preview for very large sec policy is taking too long compared to previous releases |

Bugs for Cisco Catalyst SD-WAN Control Components Releases 20.9.1

This section details all fixed and open bugs for this release. These are available in the Cisco Bug Search Tool through the Resolved Bug Search.

| Identifier | Headline |
|------------|--|
| CSCwb20070 | 20.8 : Disaster Recovery workflow fails during switchover |
| CSCwa39457 | "Enforce Software Version (ZTP)" does not support version format for NFVIS-SDWAN-BRANCH |
| CSCvy19698 | "Invalid user or password" errors on /dataservice/client/token when make multiple consecutive calls |
| CSCwb47038 | UX2.0- SD-WAN Manager search option in WAN Tunnel not showing any result for tunnel endpoints |
| CSCvu76345 | Class-map mapping issue for forward-class with QoS map and centralized policy |
| CSCwa76773 | MT-tenant deletion causes VmonitorAgent log to get stuck and DCA doesn't send information to DCS |
| CSCwb38813 | Secondary Cisco SD-WAN Manager continuously generates 'Data Center Down' alarms |
| CSCvz99938 | OIB DayN: "Manage Network Design" button is disabled when add service. Need wait for task completed |
| CSCwb38187 | Cisco SD-WAN Manager - 20.6.2.1 template push failed due to optional field - Invalid value for prefix |
| CSCwb37362 | Unable to associate device to CG using tagging, seeing error CG already has a rule assigned |
| CSCwa54969 | Cisco SD-WAN Manager iptables-dropped Log stopped after upgrading 20.6.1 |
| CSCwb38655 | Delete CSP(with CCM) followed by Add CSP - MT Cluster failed - Infra Exception |
| CSCwb04545 | Not able to change config-db credentials on 20.6.2 |
| CSCwb46339 | UX2.0: Modify LAN Segment VPN number, the associated VPN interface name is not updated in workflow |
| CSCwb48626 | Quick Connect workflow still missing config group when tag is copied to a device |
| CSCwa85537 | Cisco SD-WAN Manager UI stuck forever with {{msg1}} showed on UI while attaching Cisco IOS XE Device to device template failed |
| CSCvz62234 | Cisco Catalyst SD-WAN Manager Unauthorized Configuration Rollback Vulnerability |

Open Bugs for Cisco Catalyst SD-WAN Control Components Releases 20.9.1

| Identifier | Headline |
|------------|--|
| CSCwc04446 | Default route is not installed in the routing table of VPN 0 if the VNIC is changed in OpenStack |
| CSCwc51421 | 20.9 : Teleworker feature profile RBAC is not handled properly |
| CSCwc80099 | After configdb credentials change, app-server is not coming up due to use of hyphen in credentials |
| CSCwc43513 | Stats are not getting processed on Cisco SD-WAN Manager GUI running 20.8.1 code |
| CSCwc51414 | Hide the options from workflow side menu for the config group which are hidden in workflow page |
| CSCwc33733 | Unable to activate/delete the software from Cisco SD-WAN Manager GUI |
| CSCwb52667 | Multiple selection fr dropdown list to maintain the order in AAA Server Auth order field |
| CSCwc59865 | Cisco SD-WAN Manager statistics-db heap-dump and thread-print commands are not supported |
| CSCwc61498 | vnf-ha-net reused causing HA formation to FAIL |
| CSCwc05127 | Breakdown of U-Plane communication after updating vSmart's CiscoPKI certificate |
| CSCwc37072 | Template failed issue |
| CSCwc61220 | Long processing time of replication keeping primary in mportPending and secondary in exportPending |
| CSCwc55697 | Exception handling in Cisco SD-WAN Manager code does not return details about the exception we are hitting |

$\textbf{Cisco Catalyst SD-WAN Control Components Compatibility Matrix} \ \textbf{and Server Recommendations}$

For compatibility information and server recommendations, see Cisco Catalyst SD-WAN Control Components Compatibility Matrix and Server Recommendations.

Related Documentation

- Release Notes for Previous Releases
- Software Installation and Upgrade for vEdge Routers
- Field Notices
- Recommended Releases
- Security Advisories
- Cisco Bulletins

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