



Overview

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Audience

This guide is designed for service provider operators and tenants who deploy, manage, configure Cisco MSX SD-WAN service pack, and troubleshoot various SD-WAN service issues.

What's New in Cisco MSX 4.3.0 for SD-WAN Services

Table 1: What's New in Cisco MSX 4.3.0 for Cisco SD-WAN Services

Feature	Description
Support for Cisco SD-WAN Release 20.7.1.1	Cisco MSX 4.3.0 supports Cisco SD-WAN Release 20.7.1.1. For more information, see Cisco SD-WAN and MSX Version Compatibility Matrix .
Support of additional SD-WAN applications	Cisco MSX now supports 17 new applications. For more information, see Applications Available with Cisco MSX SD-WAN .
Meraki Support Updates	Meraki networks and devices can now be managed only by using the Managed Devices service pack in Cisco MSX. For more information, see Managing Meraki Networks in the Cisco MSX Managed Device Documentation.

Overview of Cisco MSX

With Cisco MSX solution, you can automate end-to-end provisioning for different use cases and service topologies. Each release of the Cisco MSX provides out-of-box capabilities to orchestrate particular use cases, also called service packs (such as Cisco MSX SD-Branch, Cisco MSX Cloud UTD, and Cisco MSX Managed Device).

For detailed information about Cisco MSX solution, see the [Cisco Managed Services Accelerator \(MSX\) 4.3 Solution Overview Documentation](#).

The Cisco SD-WAN service pack fully automates the end-to-end SD-WAN service creation. With these fully validated service level packages, end customers can quickly turn on, control, and assure cloud-based WAN services that are offered by the service provider.

This section contains the following topics:

Cisco SD-WAN Service Overview

Cisco MSX enables service providers to deploy and manage SD-WAN services for their customers. The deployment of an SD-WAN service in the context of a managed service requires deployment per customer and includes the SD-WAN management control plane (vManage, vBond and vSmart), and the corresponding data plane (vEdge and cEdge).

The Cisco SD-WAN service pack consists of:

- **vManage**— Cisco’s GUI based centralized management and provisioning platform for Day 0, Day 1 and Day n+ for the entire Cisco SD-WAN infrastructure. You can login to the Cisco vManage dashboard to centrally manage the WAN. Cisco vManage provides the ability to manage all aspects of the WAN from provisioning, monitoring, and upgrading routers to application visibility and troubleshooting the WAN.
- **vBond**—The vBond facilitates the initial bring-up by performing initial authentication and authorization of all elements into the network. vBond provides the information on how each of the components connects to other components. It plays an important role in enabling devices that sit behind the NAT to communicate with the network.
- **vSmart Controller**—The vSmart controllers establish the secure SSL connections to all other components in the network, and run an Overlay Management Protocol (OMP) to exchange routing, security, and policy information. The centralized policy engine in vSmart provides policy constructs to manipulate routing information, access control, segmentation, extranets, and service chaining.
- **vEdge and cEdge (IOS XE) Routers**—These routers (physical and cloud) establishes secure connectivity to all of the control components and also establishes IPsec sessions with other routers in the WAN network. These routers can be used as a Virtual Network Function (VNF) deployment at the branch. NFV Infrastructure Software (NFVIS) platform on Cisco Enterprise Network Compute System (ENCS) facilitates the deployment and operation of VNFs and hardware components.

Some of the advantages of the Cisco MSX SD-WAN service pack are:

- User interface portal for ordering service (Control Plane and Data Plane Connectivity) and network visualization.
- Lifecycle management of services.
- Site and device activation.
- Site level monitoring and tunnel health reporting.
- Traffic policy management.

The table below lists supported versions of Cisco SD-WAN on Cisco MSX :

Table 2: Cisco SD-WAN and Cisco MSX Version Compatibility Matrix

Cisco MSX Release	Cisco SD-WAN Release
4.3	20.7.1.1
4.2	20.6.2.2, 20.6.2.1, 20.6.2, 20.6.1
4.1	20.5.1, 20.4.1
4.0	20.5.1, 20.4.1
3.10	20.4.1, 20.3.2
3.9.0	20.1.1, 19.3.0

About this Content

This section provides information about related documentation of Cisco MSX and trademarks used in this content.

Related Documentation

You can access Cisco MSX 4.3.0 content at [Cisco MSX End User Documentation](#).

The documents listed here are available for additional reference. To access API documentation on the Swagger GUI, log in to the Cisco MSX GUI and navigate to **My Profile > Swagger API**.

Cisco MSX SDK documentation is available at <https://developer.cisco.com/site/msx/>.

Document	Description
Cisco Managed Services Accelerator (MSX) 4.3 Release Notes Documentation	This documentation provides information about the new features in Cisco MSX 4.3.
Cisco Managed Services Accelerator (MSX) 4.3 Administration Documentation	This documentation covers the post-install configuration information that is required to set up Cisco MSX.
Cisco Managed Services Accelerator (MSX) 4.3 Platform and Service Pack Permissions Addendum	This addendum covers all the permissions that are required to operate Cisco MSX and the service packs.
Cisco Managed Services Accelerator (MSX) 4.3 SD-WAN Service Pack Documentation	This documentation includes details that are related to deploying, managing, configuring the Cisco MSX SD-WAN service pack, and troubleshooting service errors.
Cisco Managed Services Accelerator (MSX) 4.3 SD-WAN Out-of-the-Box Applications Addendum	This document is an addendum to the <i>Cisco MSX SD-WAN Service Pack</i> content. It has details about the out-of-the-box applications of Cisco MSX 4.3 and the comparison of applications in older releases with applications in Cisco MSX 4.3 based on possible application mapping.
Cisco Managed Services Accelerator (MSX) 4.3 Enterprise Access Service Pack Documentation	This documentation includes details that are related to deploying, managing, configuring the Cisco MSX Enterprise Access service pack, and troubleshooting service errors.
Cisco Managed Services Accelerator (MSX) 4.3 Managed Device Service Pack Documentation	This documentation includes details related to subscribing the Cisco MSX Managed Device service pack, configuring the service, and troubleshooting service errors.
Cisco Managed Services Accelerator (MSX) 4.3 Solution Overview Documentation	This documentation provides a comprehensive explanation of the design of the Cisco MSX solution that enables service providers to offer flexible and extensible services to their business customers.
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