Webex Edge

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Webex® Edge is a suite of services that enables customers to achieve high-quality meeting and calling experiences through dedicated network connections, dedicated media hardware processing, and optimized audio flow to Cisco devices and Meetings in the Webex App.

Product overview

Webex Edge consists of three services: Webex Edge Connect, Video Mesh and Edge Audio. They can be deployed separately or together for amazing meetings and calls every time. The services reshape and re-architect the edge to maximize the power of the Webex cloud and bring those experiences into the enterprise while providing even better meeting and calling experiences through improved audio, video and content quality.

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Suite of services

Webex Edge Connect

Webex Edge Connect is a private, dedicated network peering connection that enables customers to connect their premises to the Webex cloud through a cloud exchange provider. This architectural setup results in improved and faster Webex Meetings and Calling experiences. By connecting directly to the Webex backbone, it ensures enhanced meeting and calling quality, consistent network performance, and increased security.

Edge Connect establishes a direct, dedicated bandwidth network peering between the customer's edge router and the Webex backbone via the cloud exchange providers, Megaport or Equinix. This dedicated peering connection shields your meetings and calling traffic from the fluctuations of the Internet, resulting in reduced congestion, packet loss, jitter, and delay. Moreover, by not being exposed to the public Internet, you also benefit from enhanced protection against potential threats and attacks

Learn more: https://help.webex.com/en-us/article/n68tcpb/Webex-Edge-Connect

Webex Video Mesh

Webex Video Mesh enables industry-leading media experiences for Webex meetings. It enables on-premises video quality with cloud simplicity and scale. The Video Mesh node is a software installed onto local on-premises hardware that registers to the Webex cloud, managed by Webex Control Hub. It provides local media processing for Webex on-premises meetings attendees and facilitates the routing of meetings to the local, on-net Video Mesh node to join participants together in a meeting. The service chooses the most efficient way to use the available on-premises resources, creating a better experience for users. It lowers latency and saves on Internet bandwidth as media no longer needs to traverse to the cloud and back for media processing.

Because it is an extension of the Webex Meeting service on your premises, it is synchronized so that software updates automatically take place. Additionally, if Video Mesh on-premises resources are full or unavailable, the Webex service automatically redirects the attendee to the Webex cloud so everyone can join the meeting.

Another benefit of the Video Mesh is Private Meetings, a special type of meeting, to allow customers to have all media from the participants stay on the corporate network and not be sent to the Webex cloud. This means that all authenticated participants media for the meeting stay within the trusted corporate network boundaries.

The Video Mesh node is also integrated with the ThousandEyes Enterprise Agent enabling the admin to perform end-to-end monitoring across the customer's hybrid digital ecosystem. This integration provides the admin with a wide array of network monitoring tests, offering visibility into various areas of the network path. Issues anywhere along the customer's network infrastructure can be pinpointed and diagnosed with greater precision, improving the efficiency of their deployment.

Lastly, the Video Mesh provides a rich set of provisioning and troubleshooting APIs for seamless on boarding, quick fault isolation and native integration into 3rd party monitoring applications.

Learn more: https://help.webex.com/en-us/article/2r5gv7/Deployment-Guide-for-Video-Mesh

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Webex Edge Audio

Webex Edge Audio decouples the Webex Meetings PSTN from Webex by intelligently changing the call routing to a simple to deploy on-net path. It's a service that allows any company, of any size, that uses Cisco Unified Communications Manager (Unified CM) to intelligently and automatically route Webex Meeting's audio calls over VoIP or utilize existing PSTN services.

Once deployed, any meeting participant automatically joins a Webex Meeting through a direct VoIP route to the cloud—not only from their PC but also from any Cisco registered phone, completely transparent and with no change in behavior. This provides great cost-savings for the customer as it eliminates Webex Meeting's PSTN charges created by employees. At the same time, it provides users with all the benefits of high quality wide-band codecs that Webex offers.

Edge Audio also can lower Webex Meeting PSTN costs for participants using Webex Meeting's call back functionality from any phone, including mobile phones and home office phones. When callback is requested to join a meeting from on-premises, Unified CM automatically routes the call to the desk phone. The customer can also choose to route callback calls for specific countries via their Expressways on-net and out their own PSTN gateways providing additional cost savings. Edge audio provides the ultimate flexibility to the customers in choosing the on-net path in locations/country where they can save on PSTN and at the same time allows them to buy off-net minutes in locations/country where they do not have an on-premises Unified CM deployment.

For any Unified CM registered device, Edge Audio creates an end-to-end VoIP path whether users are dialing in or requesting the call back option from Webex. For all other users with a non-Unified CM-registered phone or mobile device, the company's own PSTN services can be used. Edge Audio democratizes Webex Meeting's audio savings while improving the audio quality for calls on Unified CM registered devices.

Edge Audio is enabled through a simple and automated provisioning process and setup with Unified CM and Cisco Expressway. Unlike with other solutions, customers do not need to spend on edge traversal licenses on third party session border controllers. They connect to the Webex cloud through Cisco Expressway with no additional licenses.

Learn more: https://help.webex.com/en-us/article/4pldzd/Cisco-Webex-Edge-Audio-Deployment-Options

System requirements

Webex Edge Connect

- An active connection on the Equinix or Megaport fabric

- Public Border Gateway Protocol (BGP) Autonomous System Number (ASN) that the customer owns

- Public, provider-independent, IP space to use for BGP peering

- An IT team with knowledge of BGP and peering principles

- A network device capable of running BGP and 802.1Q tagging for the peering

Webex Edge Connect requires a peering agreement with Equinix or Megaport Cloud Exchange and a monthly subscription from Cisco based on bandwidth requirements of the peering link.

- Visit Equinix or Megaport Cloud Exchange website to purchase a peering link

- Visit the Cisco Ordering Home Page to purchase a Edge Connect circuit option based on usage pattern (200 MB, 500 MB, 1 Gb, 2 GB, 5 Gb, 10 Gb)

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Table 1. Edge Connect SKU numbers

PRODUCT NAME	PRODUCT NUMBER	SCALE
EDGE CONNECT – U.S., U.K., AND AMSTERDAM PEERING LOCATIONS		
200 MB	A-FLEX-EDGCON-200M	Webex Edge Connect 200MB Peering Link US/UK/AMSTERDAM
500 MB	A-FLEX-EDGCON-500M	Webex Edge Connect 500MB Peering Link US/UK/AMSTERDAM
1 GB	A-FLEX-EDGECON-1GB	Webex Edge Connect 1GB Peering Link US/UK/AMSTERDAM
2 GB	A-FLEX-EDGECON-2GB	Webex Edge Connect 2GB Peering Link US/UK/AMSTERDAM
5 GB	A-FLEX-EDGECON-5GB	Webex Edge Connect 5GB Peering Link US/UK/AMSTERDAM
10 GB	A-FLEX-EDGCON-10GB	Webex Edge Connect 10GB Peering Link US/UK/AMSTERDAM
200 MB	A-FLEX-EDGCON200-R	Webex Edge Connect 200MB Peering Link for Redundancy
500 MB	A-FLEX-EDGCON500-R	Webex Edge Connect 500MB Peering Link for Redundancy
1 GB	A-FLEX-EDGCON-1G-R	Webex Edge Connect 1GB Peering Link for Redundancy
2 GB	A-FLEX-EDGECON2G-R	Webex Edge Connect 2GB Peering Link for Redundancy
5 GB	A-FLEX-EDGECON5G-R	Webex Edge Connect 5GB Peering Link for Redundancy
10 GB	A-FLEX-EDGECON10G-R	Webex Edge Connect 10GB Peering Link for Redundancy

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Table 1. Edge Connect SKU numbers

PRODUCT NAME	PRODUCT NUMBER	SCALE
EDGE CONNECT – APAC PEERING LOCATIONS		
200 MB	A-FLEX-EC-200-APAC	Webex Edge Connect 200MB Peering Link APAC
500 MB	A-FLEX-EC-500-APAC	Webex Edge Connect 500MbPeering Link APAC
1 GB	A-FLEX-EC-1G-APAC	Webex Edge Connect 1GB Peering Link APAC
2 GB	A-FLEX-EC-2G-APAC	Webex Edge Connect 2GB Peering Link APAC
5 GB	A-FLEX-EC-5G-APAC	Webex Edge Connect 5GB Peering Link APAC
10 GB	A-FLEX-EC-10G-APAC	Webex Edge Connect 10GB Peering Link APAC
200 MB	A-FLEX-EC-200APACR	Webex Edge Connect 200MB Peering Link APAC for Redundancy
500 MB	A-FLEX-EC-500APACR	Webex Edge Connect 500MB Peering Link APAC for Redundancy
1 GB	A-FLEX-EC-1GAPAC-R	Webex Edge Connect 1GB Peering Link APAC for Redundancy
2 GB	A-FLEX-EC-2GAPAC-R	Webex Edge Connect 2GB Peering Link APAC for Redundancy
5 GB	A-FLEX-EC-5GAPAC-R	Webex Edge Connect 5GB Peering Link APAC For Redundancy
10 GB	A-FLEX-EC-10GAPACR	Webex Edge Connect 10GB Peering Link APAC for Redundancy

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Webex Edge Video Mesh

- Webex Meetings enabled organization.

- Cisco or customer provided Intel compute and hardware with 72 vCPUs, 60 GB of RAM and 80 GB of local or NFS hard disk space.

- VMware hypervisor

Webex Edge Audio

- Webex Edge Audio is included in the Collaboration Flex Plan.

- Webex Edge Audio is enabled on the Control Hub and hardware and software requirements for UCM and Expressway need to be met.

Table 2. Edge Audio system requirements

CISCO PRODUCTS AND SOLUTIONS	VERSION
Webex site	T43.X
Cisco Unified Communications Manager (UCM)	UCM 10.5 or newer
Cisco Expressway™	Version X8. 10 or newer
Cisco UCM registered IP phone	Supporting G.711 or G.722

Table 3. Edge Audio products and SKU numbers

PRODUCT NAME	PRODUCT NUMBER
Edge Audio	A-FLEX-EDGAUD-USER

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

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ⓘ **For more information**
Please visit cisco.com/c/en/us/products/conferencing/webex-edge/index.html

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