eBook

Webex Video Mesh

Provide your hybrid organization with flexibility to optimize
network performance for calling and meetings

webex
by CISCO

Hybrid Work is dynamic

People will work in mixed mode throughout the day

Work from home

Work from the office

Work from anywhere

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Yet employees are returning to the office at an increasing rate

"It feels more like the real return to the office that has been touted for two and a half years is now"

Peter Greenspan,
Global Head of Real Estate at WeWork

Read full article
Bloomberg 2022

24%

Of people anticipate working exclusively remote in 2022 and beyond

Read full article
Gallup 2022

30%

Increase of corporate real estate occupancy rates since January 2022

Read full article
Place IQ 2022

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IT bandwidth considerations for returning to the office

New workstyles

Employees that return to the office have acquired new workstyle habits that dramatically impact corporate networks.

Increased demand

Video—in meetings and calls—is now routine. Projects may use gigabytes of data, creating skyrocketing demand for bandwidth.
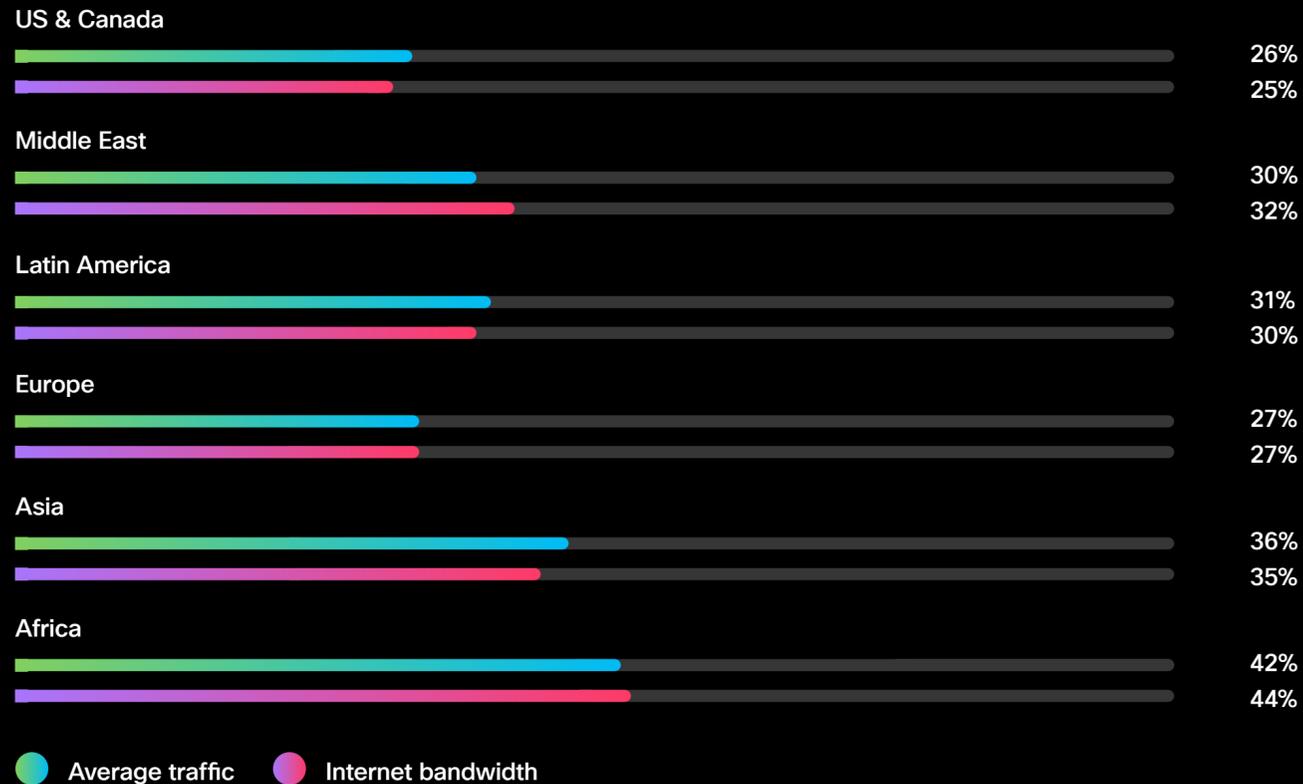
Different expectations

Employees at the office expect high quality calls and meetings. If bandwidth is low, it will likely contribute to employees not returning.

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Global bandwidth demand continues to grow steadily across all regions

International internet bandwidth growth by region

Compound annual growth, 2018–22

US & Canada
26%
25%

Middle East
30%
32%

Latin America
31%
30%

Europe
27%
27%

Asia
36%
35%

Africa
42%
44%

● Average traffic ● Internet bandwidth

182%

Increase in global average traffic from 2018-2022

29%

Global internet bandwidth compound annual growth rate (CAGR) from 2018-2022

Read full article
TeleGeography Global Internet Research Service 2022

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Average bandwidth traffic in the U.S. and Canada has more than doubled in four years

Average bandwidth traffic
U.S. & Canada, 2018-22

60,000
50,000
40,000
30,000
20,000
10,000
0 Average Traffic (Gbps)

2018 2019 2020 2021 2022

152%
Increase in average traffic from 2018-2022

Read full article
TeleGeography Global Internet Research Service 2022

44%
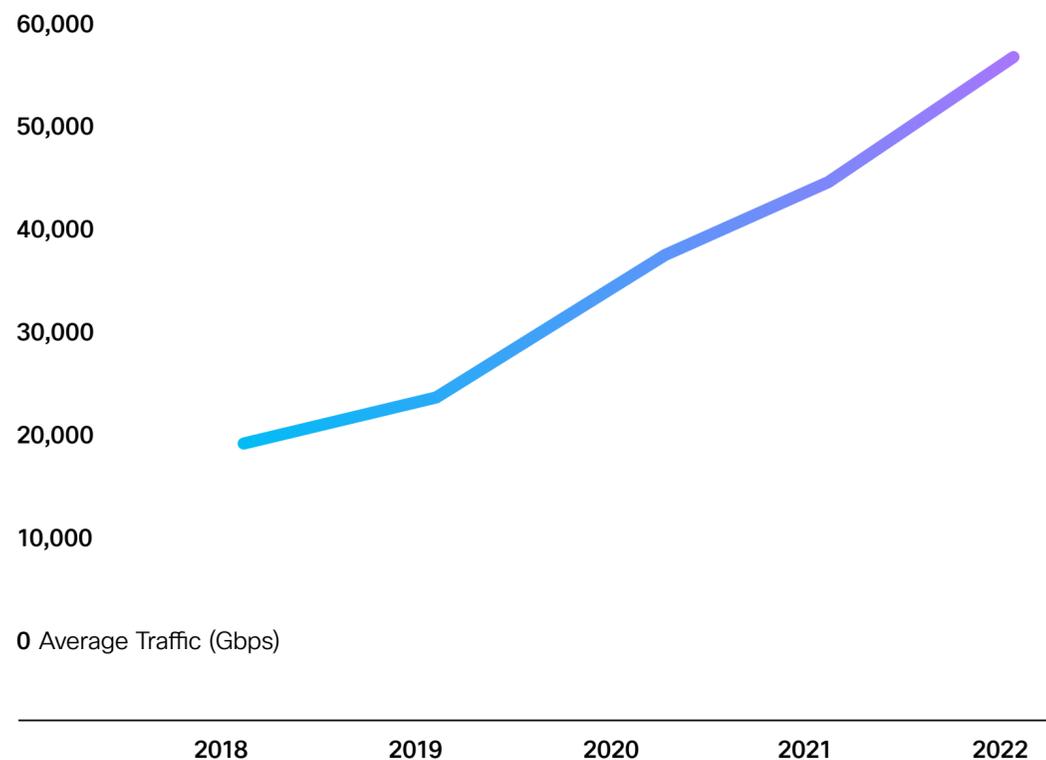Increase in average traffic between 2019-2020 due to the pandemic spike

25%
Internet bandwidth compound annual growth rate (CAGR) from 2018-2022

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Introducing Webex Video Mesh

Video Mesh embeds Webex cloud services on your premises to unlock local media processing of video, audio, and content on the corporate network.

Video Mesh uses Webex's management system Control Hub to optimize network performance for your Hybrid Work investments. It provides cloud-based provisioning, metrics, and automated software updates. Mesh nodes are controlled by Webex in the cloud, so IT can focus on what's important.

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The benefits of Video Mesh

Lower bandwidth costs

Attendees connect automatically to the closest data center, reducing bandwidth usage and latency.

Enhanced user experience

An enriched calling and meeting experience while scaling capacity to the cloud as needed.

Migrate at your own pace

Enjoy the benefits of the cloud while remaining on-premises and securing your investments.

Simplified management

Effortlessly deployed and managed through the cloud with a centralized portal.

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Companies reduce their bandwidth costs when switching to Video Mesh

Monthly bandwidth cost per meeting and user

When Webex customers enable Video Mesh, they
can save up to **5 times** on bandwidth costs.

20 Mbps dedicated

50 Mbps dedicated

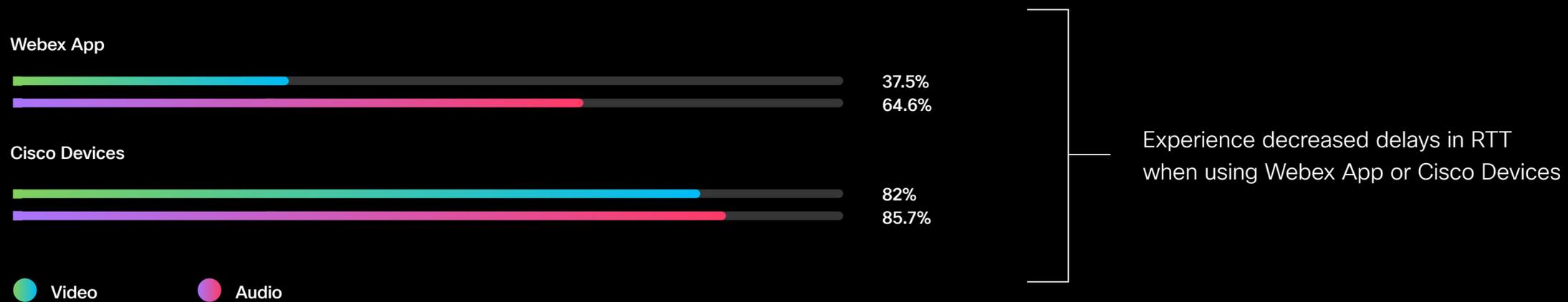200 Mbps dedicated

300 Mbps dedicated

● Video Mesh   ● Non Video Mesh

5X
Savings

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End users also achieve faster and higher quality results

Switching to VMN reduces the delay in transmission Round Trip Time (Milliseconds)

Illustration of potential RTT reductions (milliseconds) when a non-Video Mesh customer switches to Video Mesh

Webex App

37.5%
64.6%

Cisco Devices

82%
85.7%

Experience decreased delays in RTT when using Webex App or Cisco Devices

● Video   ● Audio

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Maximize the ROI of your on-premises resources

Enjoy the benefits of the cloud while remaining on-premises and securing your investments

Local media processing

Keep your media local for on-premises attendees. Media goes to cloud if remote attendees join.

Overflow to the cloud

Flexible scale with ability to overflow to the Webex cloud when on-premises resources are full.

On-premises

Video Mesh Node software is installed on an on-premises Cisco UCS server.

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Effortlessly manage your KPIs in Control Hub

Total call legs
The total number of call legs connected to Video Mesh on-premises and cloud media nodes.

On-premises call legs
The number of call legs connected to Video Mesh on-premises.

Overflowed to cloud call legs
Calls that could not be connected to Video Mesh on-premises and connected to cloud media nodes instead. Either Video Mesh was fully utilized or unavailable.

Cloud call legs
The number of call legs connected to cloud media nodes.

Average cluster availability
The average percentage of on-premises nodes that were available across all clusters.
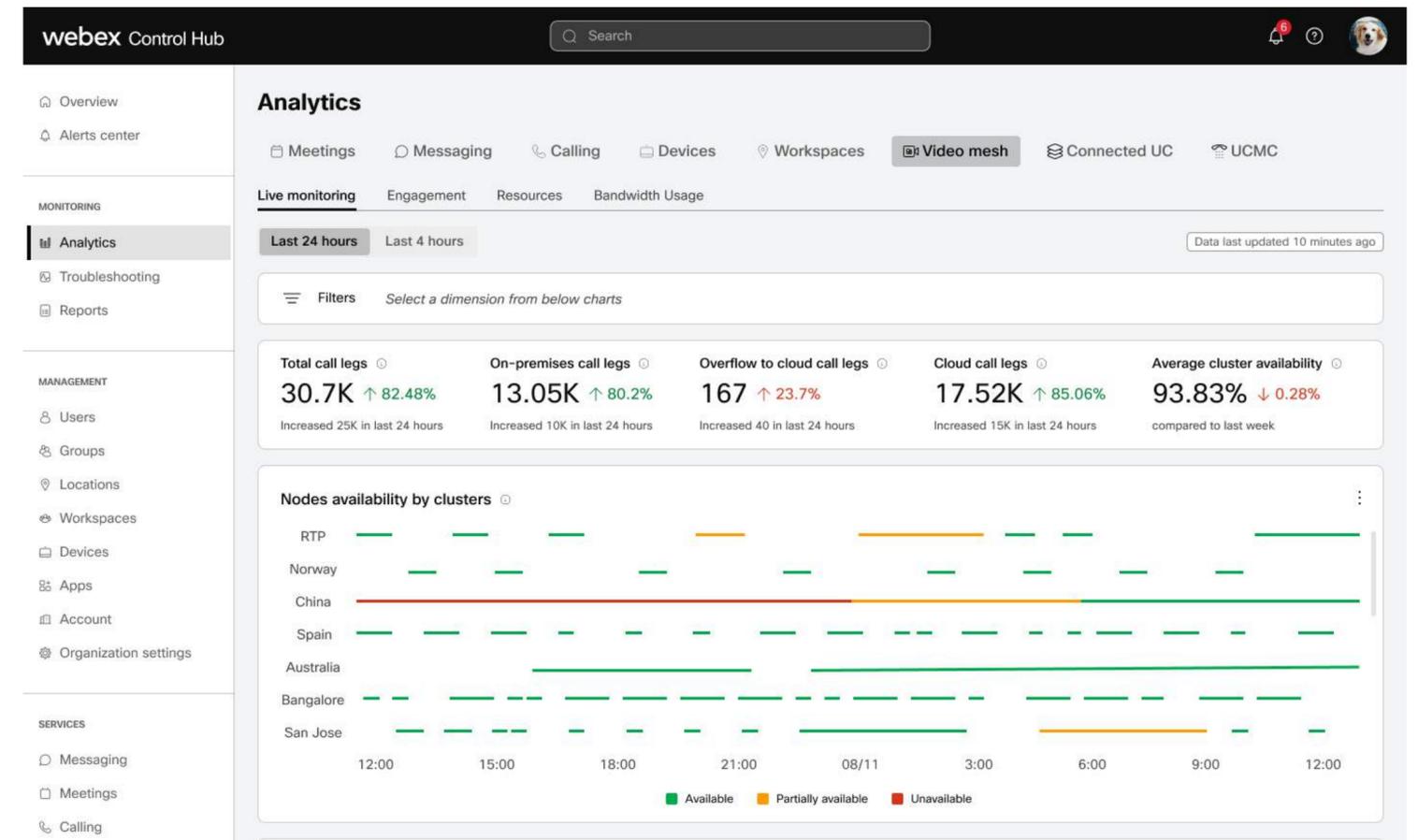
Case Study: Cisco IT

Challenge

Cisco has a globally distributed workforce. Some Cisconians live in regions of the world with limited connectivity. As a result, they face the prospect of poor videoconferencing quality and reduced productivity.

Solution

Video Mesh has helped empower Cisco's hybrid work strategy with its dynamic capabilities and global scale. Cisco has reduced bandwidth costs while maintaining high quality meetings and 1:1 in-app calls.

Highlights

Example of 30 day usage

19TB

Of internet bandwidth saved from in-app Webex 1:1 calls

42%

Or 29M minutes of Cisco's Webex meetings were hosted by Video Mesh

103K

Users have made 1:1 in-app calls vs 25k Unified CM calls via Webex app

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Learn how to deploy Webex Video Mesh

Learn more about the Video Mesh Deployment Guide.

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