

Installing and Configuring the Webex Meetings Virtual Desktop App 39.3

- About the Cisco Webex Meetings Virtual Desktop App, on page 1
- The Architecture of the Cisco Webex Meetings Virtual Desktop App, on page 2
- Requirements, on page 2
- Cisco Expressway, on page 9
- Enabling Cisco Unified Communications Manager (CUCM), on page 9
- Workflow for Deployment and Installation of the Cisco Webex Meetings Virtual Desktop App, on page 11
- Setting up the Hosted Virtual Desktops Workflow, on page 12
- Installing the Components Workflow, on page 13
- Deploying the SRV Records on the DNS Server, on page 13
- Installing the Webex Meetings Virtual Desktop App, on page 15
- Installing the Cisco Webex Meetings Virtual Desktop App When JVDI Co-Exists, on page 16
- Installing the Cisco Webex Meetings Virtual Desktop App from Command Line, on page 21
- Starting the Cisco Webex Meetings Virtual Desktop App, on page 24

About the Cisco Webex Meetings Virtual Desktop App

The Cisco Webex Meetings Virtual Desktop App optimizes the audio and video for the virtual desktop environment using a thin client. With supported versions of Cisco Webex for Windows, Linux, Unicon eLux, and HP ThinPro, hosts can connect to meetings and manage the lobby from their hosted virtual desktops (HVD), ensuring a great experience for both the hosts and the attendees. The software routes all audio and video streams directly between the thin client and the meeting server without going through the HVD.



Note

Hosts can start meetings from the Webex Meetings Virtual Desktop App if their site is managed in the Cisco Webex Control Hub, or if their site is managed in the Webex Site Administration and linked to Control Hub. For more information, see Link Cisco Webex Sites to Control Hub.

This document provides information about the following topics:

The Architecture of the Cisco Webex Meetings Virtual Desktop App

The Webex Meetings Virtual Desktop App provides the same architecture components similar to a video device.

Deployment



Requirements

Before you deploy the Webex Meetings Virtual Desktop App version WBS39.3, make sure to meet that the following requirements:

- Authenticate the user on the Webex Meetings Virtual Desktop App
- User to have an account on the Webex site that is managed by Webex Control Hub, or linked with Webex Control Hub
- Cisco Unified Communications Manager (CUCM) and Cisco Expressway meets the minimum version
 requirements
 - CUCM version:
 - 10.5(2) and later (Minimum)
 - 11.5(1) SU3 or later (Recommended)
 - Cisco Expressway C and E version X8.11.4 and later

The following requirements are listed in the tables below:

- · Windows, Windows Server, and Windows Embedded
- Ubuntu
- Unicon eLux

• HP ThinPro

Table 1: Windows, Windows Server, and Windows Embedded

Component	Requirements
Microsoft Windows-based thin client	Installed RAM 2 GB
nardware	Free Physical Memory 128 MB
	Free Disk Space 256 MB
	CPU Mobile AMD Sempron Processor 3600+, 2-GHz Intel Core 2 CPU, or T7400 2.16 GHz
	• DirectX 11 compatible GPU
	• USB 2.0 for USB camera and audio devices
Microsoft Windows-based thin client	Microsoft Windows 7
05	Microsoft Windows 8
	Microsoft Windows 8.1
	Microsoft Windows 10

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Component	Requirements	
Windows Embedded Standard-based	Installed RAM 2 GB	
thin client hardware	Free Physical Memory 128 MB	
	Free Disk Space 256 MB	
	• CPU performance affects the maximum video resolution. With Windows Embedded Standard thin clients, the expected resolution depends on the CPU:	
	• Up to 720p with quad-core AMD GX-420CA SOC 2 GHz or similar	
	• Up to 240p with dual-core AMD G-T56N 1.65 GHz or similar	
	• Audio-only support with dual-core VIA Eden X2 U4200 1 GHz or similar CPU	
	Note These hardware specifications are only guidelines for the expected resolutions. Other factors can affect video resolution.	
	• DirectX 11 compatible GPU	
	• USB 2.0 for USB camera and audio devices	
	Note The Webex Meetings Virtual Desktop App for Windows does not require the Microsoft .NET Framework or any Java modules.	
Hosted virtual desktop OS (server-side)	Microsoft Windows 7	
	Microsoft Windows 8	
	Microsoft Windows 8.1	
	Microsoft Windows 10	
Windows Embedded Standard-based	Windows Embedded Standard 7	
thin client OS	Windows Embedded Standard 8	
	Windows 10 IoT Enterprise	

Component	Requirements	
Connection broker for the hosted virtual desktop	 Citrix XenDesktop 7.15, and later 7.x versions VMware Horizon 7.0 and later 7.x versions 	
	Note To avoid phone connection issues, perform the following steps:	
	• On thin clients with 64-bit Windows, select 32-bit Core Remote Experience.	
	• On the VMware Horizon installation on the 64-bit machine install the Webex Meetings Virtual Desktop App.	
Windows Server	Microsoft Windows 2012 R2	
	Microsoft Windows 2016	
Windows Embedded	Microsoft WES 7	
	Microsoft WES 8	
	Microsoft Windows IoT	
Cisco Unified Communications	Recommended CUCM Release 11.5(1) SU3 or later	
Manager	• Minimum CUCM Release 10.5(2)	
Accessories	For a complete listing of supported audio and video accessories, see Unified Communications Endpoint and Client Accessories.	
	• Cisco Webex Meetings Virtual Desktop App does not support using accessories to start or end a meeting, or mute or unmute a meeting.	
	• If the host uses the end meeting button to end a meeting, the meeting will end directly, without assigning a new host	

Component	Requirements	
Ubuntu thin clients—Hardware	The following hardware is supported with Ubuntu 14.04 32-bit LTS:	
	• Installed RAM 2 GB	
	Free Physical Memory 256 MB	
	• Free Disk Space 256 MB	
	• CPU: AMD G-T56N 1.65Ghz, or Intel Core 2 Duo T7500 2.2 GHz	
	• USB 2.0 for USB camera and audio devices	
Ubuntu—Hardware	• Ubuntu 14.04 32-bit LTS	
Hosted virtual desktop OS (server-side)	Microsoft Windows 7	
	Microsoft Windows 10	
	Microsoft Windows Server 2016	
Connection broker for the hosted virtual	• Citrix XenDesktop 7.15, and later 7.x versions	
desktop	• VMware Horizon 7.5 and later 7.x versions	
Citrix Receiver or VMware Horizon	• 13.8.0 or later (32-bit version required)	
Client 2 ² (Installed on the thin client)	• VMware 4.4.0 or later (32-bit version required)	
Cisco Unified Communications	Recommended CUCM Release 11.5(1) SU3 or later	
Manager	• Minimum CUCM Release 10.5(2)	
Accessories	For a complete listing of supported audio and video accessories, see Unified Communications Endpoint and Client Accessories.	
	• Cisco Webex Meetings Virtual Desktop App does not support using accessories to start or end a meeting, or mute or unmute a meeting.	
	• If the host uses the end meeting button to end a meeting, the meeting will end directly, without assigning a new host	

Table 2: Ubuntu

¹ The Citrix Receiver or VMware Horizon Client provides a user interface for the corresponding connection broker.

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(PCoIP and Blaster)

Table 3: Unicon eLux

Component	Requirements		
Unicon eLux thin clients—Hardware	The minimum hardware requirements for thin clients are:		
	• 1.6-GHz dual-core processor		
	• 2-GB RAM		
	The following client hardware is tested with eLux RP 5.7.0:		
	• HP T520		
	HP T620 Dual Core/Quad Core		
	HP T630 Dual Core/Quad Core		
	• HP T730		
Hosted virtual desktop OS (server-side)	Microsoft Windows 7		
	Microsoft Windows 10		
	Microsoft Windows Server 2016		
Connection broker for the hosted virtual	• Citrix XenDesktop 7.15, and later 7.x versions		
desktop	• VMware Horizon 7.5 and later 7.x versions		
Citrix Receiver or VMware Horizon	• 13.8.0 or later (32-bit version required)		
2	• VMware 4.4.0 or later (32-bit version required)		
(Installed on the thin client)			
Cisco Unified Communications	Recommended CUCM Release 11.5(1) SU3 or later		
Manager	Minimum CUCM Release 10.5(2)		
Accessories	For a complete listing of supported audio and video accessories, see Unified Communications Endpoint and Client Accessories.		
	• Cisco Webex Meetings Virtual Desktop App does not support using accessories to start or end a meeting, or mute or unmute a meeting.		
	• If the host uses the end meeting button to end a meeting, the meeting will end directly, without assigning a new host		

² The Citrix Receiver or VMware Horizon Client provides a user interface for the corresponding connection broker.

(PCoIP and Blaster)

Component	Requirements	
HP ThinPro 6.2 - Hardware	The minimum hardware requirements for thin clients are:	
	• 1.6-GHz dual-core processor	
	• 2-GB RAM	
	Supported devices, thin client with HP ThinPro 6.2	
	• HP T520	
	HP T620 Dual Core/Quad Core	
	HP T630 Dual Core/Quad Core	
	• HP T730	
HP ThinPro platform image	HP ThinPro 6.2: T7X62022	
Hosted virtual desktop OS (server-side)	Microsoft Windows 7	
	Microsoft Windows 10	
	Microsoft Windows Server 2016	
Connection broker for the hosted virtual	Citrix XenDesktop 7.15, and later 7.x versions	
desktop	• VMware Horizon 7.5 and later 7.x versions	
Citrix Receiver or VMware Horizon	For HP ThinPro 6.2	
Client 2 $\frac{3}{2}$ (Installed on the thin client)	The HP ThinPro image includes Citrix and VMware:	
	• ICA Client: 13.8.0 or later (32-bit version required)	
	• VMware 4.4.0 or later (32-bit version required)	
Cisco Unified Communications	Recommended CUCM Release 11.5(1) SU3 or later	
Manager	Minimum CUCM Release 10.5(2)	
Accessories	For a complete listing of supported audio and video accessories, see Unified Communications Endpoint and Client Accessories.	
	• Cisco Webex Meetings Virtual Desktop App does not support using accessories to start or end a meeting, or mute or unmute a meeting.	
	• If the host uses the end meeting button to end a meeting, the meeting will end directly, without assigning a new host	

Table 4: HP ThinPro

³ The Citrix Receiver or VMware Horizon Client provides a user interface for the corresponding connection broker.

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(PCoIP and Blaster)

Cisco Expressway

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The Cisco Expressway solution comprises of Core (Expressway-C) and Edge (Expressway-E). Expressway C and E allow remote video and mobile clients to communicate with a private communications platform without a virtual private network.

Deploy the Expressway C and E using CUCM to communicate with Webex, regardless of the endpoints being registered to CUCM. To know more about configuring Cisco Expressway, see Mobile and Remote Access Through Cisco Expressway.

Enabling Cisco Unified Communications Manager (CUCM)

- 1. Download the COP file from Cisco.com for:
 - Windows
 - Unicon eLux
 - ThinPro and Ubuntu
- 2. Enter details for the Software Location and click Next.

aluda Cisc	co Unified Operating System Administration	Navigation Cisco Unified OS Administration Cisco Unified OS Administration
CISCO For Ci	sco Unified Communications Solutions	admin Search Documentation About Logout
Show - Settings -	Security - Software Upgrades - Services - Help -	
Software Installa	tion/Upgrade	
Cancel 📫	vext	
-		
(1) carto and		
Status: Ready		
•		
Software Locatio	n	
Software Locatio	Remote Filesystem	
Software Locatio Source* Directory*	Remote Filesystem 0 /FTPServer/Cisco/CUCM/copfile	
Software Locatio Source* Directory* Server*	Remote Filesystem /FTPServer/Cisco/CUCM/copfile XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Software Locatio Source* Directory* Server* User Name*	Remote Filesystem : /FTPServer/Cisco/CUCM/copfile XXXX.XXX.XXX cmbu	
Software Locatio Source* Directory* Server* User Name* User Password*	Remote Filesystem : /FTPServer/Cisco/CUCM/copfile XXXXXXXXXX cmbu	
Software Locatio Source* Directory* Server* User Name* User Password* Transfer Protocol*	Remote Filesystem : /FTPServer/Cisco/CUCM/copfile XXXXXXXXXX cmbu 	
Software Locatio Source* Directory* Server* User Name* User Password* Transfer Protocol* SMTP Server	Remote Filesystem /FTPServer/Cisco/CUCM/copfile XXXXXXXXX cmbu SFTP	

3. Enter the COP file name in Options/Upgrade.

	tem Administration	Navigation Class Unified OS Administration 8	60
CISCO For Claco Unified Communications Solutions		admin Search Documentation About Log	Int
Show - Settings - Security - Software Upgrades - Set	vices + Help +		
Software Installation/Upgrade			
🙆 Cancel 📫 Next			
Status			_
(i) Status: Ready			
Software Location			_
Options/Upgrades* consern-Webes/00L-Instal-181129.x3	cop.sps E		
Invalid Upgrades			_
Option Names		Status	
x52010ce9_5_2-81cb41fx38f.pkg	Name does not match any filter pattern.		
console/SGCLinux	Name does not match any filter pattern,		
cm-locale ah_CN-8.5.1.1000-1.cop.spn	Major and minor version numbers obtained from the name do NOT match those	e of the current version.	
abisign64	Name does not match any filter pattern.		

4. Select the Server and click Go in the Control Center. Then, restart the services: Cisco Unified CM, Cisco CTI Manager, and Cisco TFTP.

CISCO For Cisco Unified Communications Solutions
yarm ▼ Irace ▼ Tools ▼ Snmp ▼ CallHome ▼ Help ▼
ontrol Center - Feature Services
> Start 🛑 Stop h Restart 🔇 Refresh Page
Status:
Ready
Select Server
Server* edge-ucm-187.jabberqa.cisco.comCUCM Voice/Video
Performance and Monitoring Services

	Service Name	Status:
0	Cisco Serviceability Reporter	Started
0	Cisco CallManager SNMP Service	Started

Directory Services		
	Service Name	Status:
0	Cisco DirSync	Started

CM Services			
	Service Name	Status:	
0	Cisco CallManager	Started	
0	Cisco Unified Mobile Voice Access Service	Started	
0	Cisco IP Voice Media Streaming App	Started	
0	Cisco CTIManager	Started	
0	Cisco Extension Mobility	Started	
0	Cisco DHCP Monitor Service	Started	
0	Cisco Intercluster Lookup Service	Started	
0	Cisco Location Bandwidth Manager	Started	
0	Cisco Directory Number Alias Sync	Started	
0	Cisco Directory Number Alias Lookup	Started	
0	Cisco Dialed Number Analyzer Server	Started	
0	Cisco Dialed Number Analyzer	Started	
0	Cisco Tftp	Started	

5. 1. Add a new WSF device for the user with device mode Cisco Webex VDI SVC Framework.



The steps to add the WSF device are the same as the steps to add a CSF device.

- 2. Select the checkbox Allow Control of Device from CTI for this device.
- 3. Add CTI permission on the end user page

Groups	Standard CCM End Users			
	Standard CTI Allow Control of All Devices			A
	Standard CTI Enabled			R
		•	View Details	
Roles	Standard CCM End Users			
	Standard CCMUSER Administration			
	Standard CTI Allow Control of All Devices			
	Sta <mark>ndard CTI Enabled</mark>			
		•	View Details	

Enable Fud Harris I Hart Conference Name

Workflow for Deployment and Installation of the Cisco Webex Meetings Virtual Desktop App

Prerequisites:

Ensure that you install CUCM and it is operational.

Note If CUCM is not installed, see Installation Guide for Cisco Unified Communications Manager for installation instructions.

- 1. Review the Webex Meetings Virtual Desktop App Release Notes for information about limitations or restrictions that may affect your deployment.
- 2. Review the system requirements to confirm that all required hardware and software meet them.



Note Failure to meet all requirements can result in a non-functional deployment.

- 3. Review the port requirements.
- Configure SRV Records on the DNS server. If the administrator does not configure the SRV records on DNS, then install Webex meetings at the command line to setup arguments. For more information, see Deploying the SRV Records on the DNS Server.
- Configure CUCM (Install the COP file, restart the services: Cisco Unified CM, Cisco CTI Manager, Cisco TFTP, add users, and WSF devices). For more information on Configuring CUCM, see Enabling Cisco Unified Communications Manager (CUCM).



Note Create a dedicated directory number for WSF Device.

- 6. Create and set up the hosted virtual desktops in the data center. Ensure that the hosted virtual desktops (HVD) are ready for you to install the Webex Meetings Virtual Desktop App. For more information, see Setting up the Hosted Virtual Desktops Workflow.
- Set up and configure the thin clients. For more information, see documentation available from the thin client OEM.
- 8. Install the Webex Meetings Virtual Desktop App Client components on the thin clients and the hosted virtual desktop. For more information, see Installing the Components Workflow. After you install the Webex Meetings Virtual Desktop App Agent and other required software on the HVD, you can clone the HVD.

Setting up the Hosted Virtual Desktops Workflow

- 1. Sign in to the Microsoft Windows HVD as a new user, with administration rights.
- 2. Join the HVD to the corporate domain.



You require domain administration rights.

- **3.** Set up Citrix or VMware access to the HVDs.
- 4. Install the Webex Meetings Virtual Desktop App on the HVD.



Note The Webex Meetings Virtual Desktop App supports the English Operating System in the current release. If you are using an Operating System other than English, install the Webex Meetings Desktop App using command line:

msiexec.exe /i CiscoWebexMeetingsSetup.msi CLEAR=1

- 5. Install the Webex Meetings Virtual Desktop App Agent on the HVD.
- 6. Clone the HVD image.



Note For more information on the best practices for cloning Microsoft Windows HVD images, see the documentation for your Citrix or VMware product.

Installing the Components Workflow

- 1. Download the Webex Meetings Virtual Desktop App.
- 2. Download the Webex Meetings Virtual Desktop App Agent and Client.
- 3. Install the Webex Meetings Virtual Desktop App client for HVD on thin client.



Note When installing the Webex Meetings Virtual Desktop client on thin client, disconnect the connection with HVD.

4. Install the Webex Meetings Virtual Desktop App on HVD.



Note The Webex Meetings Virtual Desktop App supports the English Operating System in the current release. If you are using an Operating System other than English, install the Webex Meetings Virtual Desktop App using command line:

msiexec.exe /i CiscoWebexMeetingsSetup.msi CLEAR=1

5. Install the Webex Meetings Virtual Desktop App Agent on the HVD.

Deploying the SRV Records on the DNS Server

The client queries name servers for records in the services domain.

Deploy SRV records in each DNS zone for those service domains if your organization has multiple subsets of users who use different service domains.

Create the following SRV records (as required):

- _cisco-uds._tcp.example.com (on Internal DNS)
- _collab-edge._tls.example.com (on External DNS)

Internal Records

The following table lists the SRV records you can provision on internal name servers so the client can discover services:

Service Record	Description
_cisco-uds	Provides the location of CUCM version 10 and higher. Important In an environment with multiple CUCM clusters, configure the Intercluster Lookup Service (ILS). ILS enables the client to find the user home cluster and discover services



Note Use the fully qualified domain name (FQDN) as the hostname in the SRV record.

The following is an example of the _cisco-uds SRV record:

_cisco-udstcp.example.	SRV service location:	
priority	= 1	
weight	= 5	
port	= 8443	3
svr hostname	= cucm	n1.example.com
_cisco-udstcp.example.	com	SRV service location:
priority	= 2	
weight	= 20	
port	= 8443	3
svr hostname	= cucm	n2.example.com

External Records

The following table lists the SRV record to provision on external name servers as part of the configuration for Expressway Mobile and Remote Access:

Service Record	Description
_collab-edge	Provides the location of the Cisco VCS Expressway or Cisco Expressway-E server.
	Use the fully qualified domain name (FQDN) as the hostname in the SRV record.
	Note The client requires the FQDN to use the cookie that the Cisco VCS Expressway or Cisco Expressway-E server provides.

The following is an example of the _collab-edge SRV record:

```
_collab-edge._tls.example.com
                               SRV service location:
        priority = 3
                      = 7
        weight
        port
                      = 8443
         svr hostname = vcsel.example.com
_collab-edge._tls.example.com
                               SRV service location:
                  = 4
= 8
        priority
        weight
                      = 8443
        port
         svr hostname = vcse2.example.com
```

Installing the Webex Meetings Virtual Desktop App

Install the Webex Meetings Virtual Desktop App on Windows

Step 1	Download and install the W	ebex Windows and the	Webex Meetings Virtual	Desktop App agent on your HVD
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- **Step 2** Download and install the Webex Meetings Virtual Desktop App on your thin client.
- **Step 3** Launch the Webex Meetings Virtual Desktop App on HVD.

Install the Webex Meetings Virtual Desktop App on Ubuntu

Step 1	Download and install Webex Windows and the Webex Meetings Virtual Desktop App agent on your HVD.
Step 2	Download the Webex Meetings Virtual Desktop App Client Debian (.pkg) package and install it on Ubuntu.
Step 3	Launch the Webex Meetings Virtual Desktop App on HVD.

Install the Webex Meetings Virtual Desktop App on Unicon eLux

Step 1	Download Webex Windows and the Webex Meetings Virtual Desktop App agent on your HVD.
Step 2	Download the Webex Meetings Virtual Desktop App Client. Use the Elias tool to create an image that contains the Webex
	an image or how to update the thin client, see the Elias documentation available from the Unicon website.

Step 3 Launch the Webex Meetings Virtual Desktop App on HVD.

Install the Webex Meetings Virtual Desktop App on HP ThinPro

Step 1 Download and install Webex Windows and the Webex Meetings Virtual Desktop App agent on your HVD.

- Step 2Obtain the Webex Meetings Virtual Desktop App Client Debian (.deb) package and the Cisco-Webex Meetings Virtual
Desktop App <xx.x.> -pre-reqs.xar file from HP. The <xx.x.> variable in the filename is the Webex Meetings Virtual
Desktop App release number. For assistance locating files on the HP site, contact HP support.
- **Step 3** To manually install the Webex Meetings Virtual Desktop App Client on the thin clients, copy the files to a USB stick.
- **Step 4** On the thin client, install Webex Meetings Virtual Desktop App files in the following order, either manually from a USB stick, or use the HP Device Manager for mass deployments. Order of installation:
 - Install cisco-jvdi12.0.x-pre-reqs-thinpro6.2.0-hp1d.xar.
 - Install the Cisco Jabber Softphone for VDI .deb package.

For more information about mass deployment, see the documentation for HP Device Manager 4.7, available from HP.

Step 5 Launch the Webex Meetings Virtual Desktop App on HVD.

Installing the Cisco Webex Meetings Virtual Desktop App When JVDI Co-Exists

Installing the Webex Meetings Virtual Desktop App When JVDI Co-exits

1. Install the cop file for the WVDI on CUCM version 10.5(su2) or later.

Name of the cop file: cmterm-WebexVDI-install-190326.k3.cop.sgn

Link to download the cop file: https://software.cisco.com/download/home/286304684/type/283802941/ release/12.6(0)

- 2. Install the VDI agents for Jabber and Webex on HVD.
- 3. Install the VDI clients for Jabber and Webex on Thin Client.

WVDI Version	JVDI Version	HVD installation steps	Thin-Client platform	TC installation steps	Notes
39.3	12.6	 Install the JVDI agent. Install Jabber for windows. Install the WVDI agent. Install the Webex 	Windows	 Install the JVDI windows client or 64-bit client. Install the WVDI windows client or 64-bit client. 	
		Meeting Virtual Desktop Application.	eLux	 Use the Elias tool to create an image that contains the JVDI client and Webex Meeting VDI Client. Deploy the image to the thin clients. 	
			Ubuntu	 Install the JVDI client Debian (.deb) package. Install the Webex Meetings VDI client Debian (.deb) package. Install the 	
				apt-get install -f to fetch the new lib package.	

Table 5: Installing the Webex Meetings Virtual Desktop App When JVDI Co-exits

WVDI Version	JVDI Version	HVD installation steps	Thin-Client platform	TC installation steps	Notes
			ThinPro	1. Install the designment of the second sec	
				2. Install the JVDI client Debian (.deb) package.	
				3. Install the Webex Meetings VDI client Debian (.deb) package.	

WVDI Version	JVDI Version	HVD installation steps	Thin-Client platform	TC installation steps	Notes
39.3	12.5 or earlier	 Install the JVDI agent. Install Jabber for windows. Install the WVDI agent. Install the Webex Meeting Virtual 	Windows	 Install the JVDI windows client or 64-bit client. Install the Webex Meetings VDI windows client or 64-bit client. 	
		Desktop Application.	eLux	 Use the Elias tool to create an image with the JVDI client and Webex Meeting VDI Client. Deploy the image to the thin clients. 	
			Ubuntu		Need parameter "force-overwrite" when installing the WVDI client.

WVDI Version	JVDI Version	HVD installation steps	Thin-Client platform	TC installation steps	Notes
				1. Install the JVDI client Debian (.deb) package.	
				2. Install the Webex Meetings VDI client Debian (.deb) package.	
				Command: sudo dpkg -i -face-aenvrite xx.deb	3
				3. Install the apt-get install -f to fetch the new lib package.	
			ThinPro		Need parameter "force-overwrite" when installing the WVDI client.

WVDI Version	JVDI Version	HVD installation steps	Thin-Client platform	TC installation steps	Notes
				 Install the disjdDynastinGQUA (per-required package for the VDI). Install the JVDI client Debian (.deb) package. 	
				3. Install the Webex Meetings VDI client Debian (.deb) package.	
				Command: sudo dpkg -i -fore-aewrite xx.deb.	



Note

1. Doesn't support making a call and joining a meeting at same time, as the camera and earphone will be engaged at the same time.

- 2. Disconnect the HVD before installing the client on thin clients on all platform.
- **3.** When your JVDI version is 12.5 or earlier, you need to add the parameter --force-overwirte when installing the Webex Meetings Virtual Desktop client on Ubuntu and ThinPro. There is no need for the Webex meeting application and agent.
- 4. On Citrix for Linux, there are two Virtual Desktop clients that run at the same time. If the user exit Citrix Desktop or App, then the Jabber VDI phone service doesn't disconnect. As this is a Citrix issue, Citrix will fix it for the Linux version 1906 in the current release.

Installing the Cisco Webex Meetings Virtual Desktop App from Command Line

Before you begin, sign in with local administrative rights.

1. Open a command line window.

2. Enter the following command:

msiexec.exe /i CiscoWebexMeetingsSetup.msi

- 3. Specify command line arguments as parameter=value pairs.
- 4. msiexec.exe /i CiscoWebexMeetingsSetup.msi argument = value
- 5. Run the command to install the Webex Meetings Virtual Desktop App.

Example of Installation Commands

To install the Webex Meetings Virtual Desktop App, review the following examples: msiexec.exe /I CiscoWebexMeetingsSetup.msi CLEAR=1 VOICE SERVICES DOMAIN=voiceservice.domain.com

CLEAR=1 — Deletes any existing bootstrap file.

Table 6: Authentication Arguments

IP address Hostname FQDN	Specifies the address of your TFTP server. Set one of the following as the value:
	 Hostname (hostname) IP address (123.45.254.1) FQDN (hostname.domain.com) Specify this argument if you set Cisco Unified Communications
IP address	Manager as the authenticator.Sets the address of your CTI server.
Hostname FQDN	Specify this argument if you set Cisco Unified Communications Manager as the authenticator.
IP address Hostname FQDN	 Sets the address of your CCMCIP server. Specify this argument if: You set Cisco Unified Communications Manager as the authenticator. The address of your CCMCIP server is not the same as the TFTP server address. The client can locate the CCMCIP server with the TETP server address if both
	IP address Hostname FQDN IP address Hostname FQDN IP address Hostname FQDN

Argument	Value	Description
VOICE_SERVICES_DOMAIN	Domain	If this setting is specified, the client will use the value of VOICE_SERVICES_DOMAIN to lookup the following DNS records for the purposes of Service Discovery and Edge Detection:
		• _cisco-uds
		• _collab-edge
		This setting is optional and if not specified, the DNS records are queried on email address input by the user, or cached user configuration.
LANGUAGE	LCID in decimal	Defines the Locale ID (LCID), in decimal, of the language that Cisco Jabber for Windows uses. The value is an LCID in decimal that corresponds to a supported language.
		For example, you can specify one of the following:
		• 1033 specifies English
		• 1036 specifies French
		See the LCID for Languages topic for a full list of the languages that you can specify.
		This argument is optional.
		If you do not specify a value, the Webex Meetings Virtual Desktop App uses the regional language for the current user as the default.
		The regional language is set at Control Panel > Region and Language > Change the date, time, or number format > Formats tab > Format dropdown.

Starting the Cisco Webex Meetings Virtual Desktop App

Start the Webex Meetings Virtual Desktop App on HVD. The agent on HVD and client on thin client then start automatically.