

Requirements

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System Requirements



Important

Each of the components listed in the following table must meet the requirements. Use of unsupported components can result in a nonfunctional deployment.

Component	Requirements
Microsoft Windows-based thin client hardware	 Installed RAM 2 GB 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

Component	Requirements	
Microsoft Windows-based thin client OS	Microsoft Windows 7 32 bit	
	Microsoft Windows 7 64 bit	
	Microsoft Windows 8 32 bit	
	Microsoft Windows 8 64 bit	
	Microsoft Windows 8.1 32 bit	
	Microsoft Windows 8.1 64 bit	
	Microsoft Windows 10 32 bit	
	Microsoft Windows 10 64 bit	
	• Windows Thin PC 32 bit	
	Note Cisco Virtualization Experience Media Edition (VXME) for Windows does not require the Microsoft .NET Framework or any Java modules.	
Windows Embedded Standard-based thin client hardware	• Installed RAM 2 GB	
thin chefit 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	

Component	Requirements
Windows Embedded Standard-based thin client OS	Windows Embedded Standard 7 32 bit
	Windows Embedded Standard 7 64 bit
	Windows Embedded Standard 8 64 bit
	Note Cisco Virtualization Experience Media Edition (VXME) for Windows does not require the Microsoft .NET Framework or any Java modules.
Hosted virtual desktop OS (server-side)	Microsoft Windows 7 32 bit
	Microsoft Windows 7 64 bit
	Microsoft Windows 8 32 bit
	Microsoft Windows 8 64 bit
	Microsoft Windows 8.1 32 bit
	Microsoft Windows 8.1 64 bit
	Microsoft Windows 10 32 bit
	• Microsoft Windows 10 64 bit
Connection broker for the hosted virtual desktop	Citrix XenDesktop 7.1, 7.5, or 7.6
virtual desktop	• Citrix Xenapp 6.5, 7.5 or 7.6—Published desktops only
	VMware Horizon View 5.3—Published desktops only
	• VMware Horizon 6.0 (with View)—Published desktops only
	• VMware Horizon 6 version 6.1.0—Published desktops only
Receiver or client (on the thin client)	Citrix Receiver (ICA) for Windows (Receiver Version and Installer Version): 4.3.100/14.3.100
	VMware Horizon Client for Windows (32 or 64 bit): 3.5.2
	Important Before you install Cisco VXME Client, install the Citrix Receiver or VMware Horizon Client on the thin client.
	If you upgrade your Citrix or VMware product, or change from a Citrix environment to a VMware environment, reinstall the Cisco VXME Client.

Component	Requirements	
Cisco Unified Communications client on the hosted virtual desktop:	Cisco Jabber for Windows 11.5 running on the hosted virtual desktop (HVD).	
Cisco Jabber for Windows	Cisco VXME is compatible with all future 11.5(X) Cisco Jabber for Windows versions.	
	For complete information about virtual environment compatibility, see the <i>Virtual Environments</i> section in the <i>Installation and Configuration Guide for Cisco Jabber for Windows</i> for your release.	
Windows Server	Citrix Xenapp 6.5	
(Required for Citrix XenApp)	Microsoft Windows Server 2008 R2	
	• Windows Server 2008 R2 SP1	
	(Standard, Enterprise, Datacenter, and Foundation)	
	Citrix Xenapp 7.5 or 7.6	
	Microsoft Windows Server 2008 R2 (Standard and Datacenter Editions)	
	Windows Server 2008 R2 SP1 (Standard, Enterprise, and Datacenter Editions)	
	Microsoft Windows Server 2012 (Standard and Datacenter Editions)	
Cisco Unified Communications Manager	Cisco Unified Communications Manager version 9.x or later	
Accessories	For a complete listing of supported audio and video accessories, <i>Unified Communications Endpoint and Client Accessories</i> , at htt/www.cisco.com/c/en/us/products/unified-communications/uc_endpoints_accessories.html.	
	Important Ensure that all Jabra devices are running the latest firmware. You can use the Jabra Direct to update the firmware. For more information visit: http://www.jabra.com.	

Port Requirements



The Cisco VXME Client installer does not add firewall rules. You may need to disable the Windows Firewall on the endpoints, or add an exception to allow Cisco VXME Client.

The following table lists the ports or port ranges used by Cisco Virtualization Experience Media Edition for Windows.

Table 1: Port Usage

Port	Description
69 and Ephemeral	UDP Outbound traffic for TFTP
	Note An ephemeral port is a short-lived transport protocol port for IP communications. IP software can allocate ephemeral ports automatically from a predefined range. The following protocols can use an ephemeral port assignment for the client end of a communication, to a well-known port on a server.
	Stream Control Transmission Protocol (SCTP)
	Transmission Control Protocol (TCP)
	• User Datagram Protocol (UDP)
	A well-known port is a port reserved by the Internet Corporation for Assigned Names and Numbers (ICANN) for assignment for specific applications.
5060	TCP (default) or UDP Outbound traffic for Session Initiation Protocol (SIP) call signaling
5061	TCP Outbound traffic for Secure SIP call signaling
6970	TCP Outbound traffic for HTTP
16384–32767	UDP Inbound and outbound traffic for RTP (audio and video streams) You can configure the Cisco Unified Communications Manager to reduce this port range. Change the Start/Stop Media Port setting in the SIP Profile, which is associated with the CSF device.



Important

Cisco Virtualization Experience Media Edition uses the computer-telephony integration (CTI) protocol. Cisco Jabber for Windows on a hosted virtual desktop uses outbound TCP port 2748 to connect to the CTI gateway. The CTI gateway is the CTI Manager component of Cisco Unified Communications Manager.

For a complete listing of ports required by Cisco Jabber for Windows, see the planning guide for your release of Cisco Jabber.

Supported Codecs

Table 2: Supported Audio and Video Codecs

Audio Codec	Video Codec
G.722	H.264/AVC

Audio Codec	Video Codec
G.722.1 (24 and 32k)	
G.722.1 is supported on Cisco Unified Communications Manager 8.6.1 or later.	
G.711 A-law	
G.711 u-law	
G.729a	
Opus	
Opus is supported on Cisco Unified Communications Manager 11.0 or later.	