Requirements

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.

Only the components, versions, and minimum hardware requirements listed in the table are supported.

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 was tested with eLux RP 5.2.0, RP 5.3.0, RP 5.5.0, RP 5.5.1, and RP 5.7.0: • HP T620 Dual Core / Quad Core • HP T630 Dual Core / Quad Core • Cisco VXC 6215 • Dell Wyse Z50D

Component	Requirements
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 [1]	• Citrix XenDesktop 6.5, 7.5, and later 7.x versions • Citrix XenApp 6.5, 7.5, and later 7.x versions—Published desktops only • VMware Horizon 6.0 (with View)—Published desktops only • VMware Horizon 6 version 6.1.0, 6.2.0, 7.0 and later 7.x versions—Published desktops only Citrix XenApp Published Application is not supported with Cisco Jabber Softphone for VDI for Unicon eLux.
Citrix Receiver or VMware Horizon Client [2] (Installed on the thin client)	Unicon eLux contains the required Citrix Receiver and VMware Horizon Client. **For Unicon eLux 5.2.0** • ICA Client V13.3.0.1-9 and later 13.x versions • VMware Horizon View Client V5.7.1.1-3 and later 5.x versions **For Unicon eLux 5.3.0, 5.5.0, 5.5.1, and 5.7.0** • ICA Client V13.3.9.1-13 and later 13.x versions • VMware Horizon View Client V6.0.0.3-1 and later 6.x versions
Cisco Unified Communications client on the hosted virtual desktop: Cisco Jabber for Windows or Cisco UC Integration™ for Microsoft Lync.	Cisco Jabber for Windows 12.1 running on the hosted virtual desktop (HVD). Cisco Jabber Softphone for VDI is compatible with all future 12.1(x) Cisco Jabber for Windows versions. For complete information about virtual environment compatibility, see the Cisco Jabber documentation for your release.
Cisco Unified Communications Manager	• Recommended CUCM Release 11.5(1)SU3 or later • Minimum CUCM Release 10.5

Component	Requirements
Cisco AnyConnect (Optional)	vpnsystem V4.5-1
Accessories	For a complete listing of supported audio and video accessories, see *Unified Communications Endpoint and Client Accessories*, at http://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 Jabra Direct to update the firmware. For more information visit: http://www.jabra.com.

[1] A connection broker is software that creates connections to hosted virtual desktops. A connection broker performs a number of tasks that include

- Validating the username and providing a connection for the user.
- Allowing the user to connect to a specific virtual desktop.

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

(PCoIP only)

Considerations for Thin Clients

Unicon eLux thin clients must meet all system requirements. For more information, see *Release Notes for Cisco Jabber Softphone for VDI—Unicon eLux* for your release.

Unicon Scout Enterprise is the recommended deployment tool to deploy Cisco Jabber Softphone for VDI to Unicon eLux-based thin clients.

Important Cisco does not support any management administrative method to deploy Cisco Jabber Softphone for VDI to Unicon eLux-based thin clients. Support for adding and enabling add-ons is provided by Unicon, using Unicon Scout Enterprise or other methods supported by Unicon.

Port Requirements

The following table lists the ports or port ranges used by Cisco Jabber Softphone for VDI.

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.

Supported Codecs

Table 2: Supported Audio and Video Codecs

Audio Codec	Video Codec
G.722	H.264/AVC
G.722.1 (24 and 32k) G.722.1 is supported on Cisco Unified Communications Manager 8.6.1 or later.	

Audio Codec	Video Codec
G.711 A-law	
G.711 u-law	
G.729a	
Opus Opus is supported on Cisco Unified Communications Manager 11.0 or later.	