Cisco Virtualization Experience Client 4000 Release 1.0

Product Overview

Cisco® Virtualization Experience Client 4000 (VXC 4000) is part of the Cisco Virtualization Experience Client portfolio and is delivered as part of the Cisco Virtualization Experience Infrastructure (VXI) solution.

Cisco VXI delivers the next-generation virtual workspace by unifying virtual desktops, voice, and video and enabling IT to provide a flexible, secure, and uncompromised converged infrastructure and end-user experience.

The Cisco VXC 4000 is part of a new class of desktop virtualization endpoints that combine virtual desktops with rich-media capabilities. Workers demand access to data, applications, and services anywhere, at any time, and across a diversity of operating systems, device form factors, networking environments, and work preferences. At the same time, workers expect an uncompromised and unencumbered user experience, with comprehensive media and collaboration services.

Cisco meets these requirements with the Cisco VXC endpoints. These endpoints provide workers with secure, real-time access to business applications and content, any time and anywhere, without compromise of the rich collaborative user experience for which Cisco is known (Figure 1).

The Cisco VXC 4000 is a software appliance that enables users to enjoy the benefits of virtual desktops without compromising a high-quality collaborative voice user experience. In addition to the Cisco VXC 4000 software appliance, the Cisco VXC portfolio of endpoints includes zero clients, a thin client, and an enterprise tablet.

Whether your company supports a "bring your own PC" model by providing secure access to a remote hosted virtual desktop or plans to repurpose old PCs as thin clients, the Cisco VXC 4000 enables uncompromised collaboration without the latency and productivity inefficiencies of "hairpining" communications back and forth to and from the data center.

When you connect to your hosted virtual desktop using Citrix Receiver or VMware View for Windows, the Cisco VXC 4000 runs locally and transforms the virtualized Windows PC into a rich, media-capable virtual desktop client, delivering high-quality, scalable voice that eliminates the "hairpin" effect. Cisco Unified Personal Communicator or Cisco UC Integration™ for Microsoft Lync runs on the Windows-hosted virtual desktop to provide a rich collaborative experience.

Figure 1. Cisco VXC 4000

Features and Benefits

- Turns a virtualized Windows PC into a rich media-capable (Release 1 is voice-only) virtual desktop client (**Note:** Citrix Receiver for Windows or VMware View Client for Windows must be installed separately.)

- Supports high-quality, scalable voice, delivering optimal user experience.

- Introduces intelligent voice-processing capabilities that efficiently use network and data center CPU resources, eliminating the "hairpin" effect.

- Offers Windows-based software appliance to enable rich voice collaboration from Citrix XenDesktop and VMware View. Supported audio formats: Internet Speech Audio Codec (iSAC), iLBC, G.711a, G.711u, G.722, G.729a, G.729ab (SCCP only).

  Note: The Cisco linear wideband audio codec (uncompressed wideband, 16 bits, 16 kHz) is not supported.

- Integrates voice communications with presence, instant messaging, voicemail, and web conferencing from anywhere when used in combination with Cisco Unified Personal Communicator or Cisco UC Integration™ for Microsoft Lync.

Licensing

Cisco VXCs are a set of endpoints that use core Cisco data center architecture, Cisco Unified Computing System™ infrastructure, and the Cisco Unified Communications Solutions.

Table 1 shows the licensing requirements for the different components of the system. For details, please refer to the ordering information section in this document.

Table 1. Licensing Requirements

Item	Description
Cisco VXC 4000, including Cisco Unified Communications Manager registration licenses	As with all Cisco Unified IP Phones, Cisco VXC 4000 requires the purchase of registration licenses with Cisco Unified Communications Manager. Please refer to the Ordering Guide for the product.
Cisco Unified Personal Communicator 8.5	Please visit: http://www.cisco.com/en/US/products/ps6844/products_data_sheets_list.html

Item	Description
Cisco UC Integration™ for Microsoft Office Communicator or Cisco UC Integration™ for Lync 8.5	Please visit: http://www.cisco.com/en/US/products/ps11390/products_data_sheets_list.html
VMware	VMware offers server and user licensing (http://www.vmware.com).
Citrix	Citrix offers server and user licensing (http://www.citrix.com/).

System Requirements

Table 2 lists the system requirements for the Cisco VXC 4000.

Table 2. System Requirements

Item	Description
Operating system	Microsoft Windows Operating System: Windows XP SP3, 32-bit, or Vista SP2 (Ultimate, Enterprise, or Business), 32-bit or 64-bit*; or Windows 7.0 (Pro, Enterprise, or Ultimate), 32-bit or 64-bit* * The integration runs as a 32-bit application in 64-bit editions of Windows.
Virtual desktop clients (available directly from respective vendors)	Citrix Receiver for Windows 3.x VMware View Client for Windows 5.0x or higher
Cisco Unified Communications Manager support	Cisco Unified Communications Manager 7.1.x, 8.0.x, 8.5.x, or 8.6.x
Cisco Unified Communications client support	Cisco Unified Personal Communicator 8.5.x Cisco UC Integration™ for Microsoft Office Communicator or Cisco UC Integration™ for Lync 8.5.x
Cisco AnyConnect	If you are running Cisco AnyConnect, Version 2.5 (or later) is required

Hardware Requirements

The minimum hardware requirements for the Cisco VXC 4000 are based on a system that is running only applications and services that are part of the base operating system image. Administrators should account for other applications on the workstation to determine whether the system configuration - the CPU speed and RAM in particular - can perform adequately with other applications that could affect application performance running concurrently on the PC.

Please note that Citrix Receiver or VMware View Clients are installed separately, so memory and disk space for these applications should be accounted for independently.

Table 3 gives the hardware requirements for the Cisco VXC 4000.

Table 3. Hardware Requirements for Cisco VXC 4000

Item	Minimum Requirement
Memory	1 GB RAM
Available disk space before the application is started	350 MB
Available disk space while application is running	1 GB
Audio drivers	Standard Windows audio device drivers, plus any drivers required for additional audio devices (for example, a USB headset)

Tested Audio Devices

Table 4 lists the audio devices that have been tested with the Cisco VXC 4000.

Table 4. Tested Audio Devices

Manufacturer	Model
Jabra	• PRO 9400 series: PRO9450, PRO9460 mono, PRO 9460 duo, PRO9465 duo, PRO9470. • BIZ2400 USB • Speak410 • Link series: Link280, Link220 • GO6430 • GN2100 and GN2000 are still active; Cisco recommends the BIZ2400 and UC Voice 550 as alternatives • GN9350 is still active; Cisco recommends using Jabra PRO9450 as an alternative.
Plantronics	• Blackwire USB wired headset family • Calisto USB handset/speakerphone family • CS50 and CS60 USB wireless headset system family • DA45 USB adapter family for use with Plantronics H-series headsets, also known as H-top headsets • Savi Office wireless headset system family, DECT • Voyager PRO UC Bluetooth headset system family **Note:** The listed headset families are included with the exception of the "- M" versions.

Please note that Cisco offers no warranties about the support of these devices. Direct all support questions to the device manufacturers

Warranty Information

Find warranty information on Cisco.com at the [Product Warranties](#) page.

Ordering Information

Table 5 provides ordering information for the Cisco VXC 4000. To place an order, visit the [Cisco Ordering Home Page](#). To download software, visit the [Cisco Software Center](#).

Table 5. Ordering Information

Product Name	Part Number
L-CVXC-4000W-BDL=	Cisco VXC 4000 for Windows Bundle - eDelivery
CVXC-4000W-BDL=	Cisco VXC 4000 for Windows Bundle

Cisco Services

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For More Information

For more information, please visit:

- http://www.cisco.com/go/vxc
- Design Zone for Cisco VXI

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