



# **Cisco Customer Voice Portal (CVP) Software Release 3.0(0) Bill of Materials**

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# Overview

This document is the recommended Bill of Materials for Cisco Customer Voice Portal version 3.0(0) (referenced herein as “CVP”). It provides platform hardware specifications and compatible 3<sup>rd</sup> party software version requirements across the major components of the Cisco CVP platform.

Requirements for the CVP systems are listed by major component, both basic CVP nodes and corresponding options, including multi-media servers. Hardware specifications are supplied for these components.

The Cisco CVP product is, by design, highly scalable and is configured across multiple deployment and call routing scenarios. Optimal sizing and component configuration for a given deployment will vary based on a number of factors, including agent capacity, call rate and call flow model(s), and other factors. Cisco strongly recommends consultation with your Cisco Certified Partner or with Cisco World Wide Voice Practice / Advanced Services prior to specific deployment selection.

The hardware specifications supplied herein for CPU processor power, memory and disk storage requirements, and related parameters represent systems minimally configured for adequate performance in the given size category. As specified, such systems will afford a margin for reasonable incremental growth within the bounds of that category. While it is likely that lower capacity hardware would provide adequate performance in many scenarios, the specifications as stated are those on which the CVP product is qualified by Cisco prior to release.

**Note:** Using hardware with higher performance than recommended does not necessarily result in greater call handling capacity.

## About the CVP 3.0 BOM

The software versions referenced in this Bill of Materials represent the current supported versions for the CVP 3.0 solution. However, Cisco will continue to support customers who deployed ISN systems using earlier supported versions.

Information regarding previous supported versions can be found in the Bill of Materials for Cisco Enterprise Contact Routing--Release 5.0(0) at: <http://www.cisco.com/univercd/cc/td/doc/product/icm/ccubom/ccubom.pdf> or in the CVP Tech Reference, which can be found by clicking "Product specifications" at <http://www.cisco.com/voice/products/cvp.shtml>.

## Cisco Media Convergence Servers

Supplied hardware options include the Cisco Media Convergence Servers (MCS) platform, a Cisco supplied and qualified server platform built using components from several leading server hardware vendors. The available MCS platform for CVP 3.0 at this writing is the 7845-H1-3.0-CCI. The BOM provides a mapping of CVP component server requirements to the appropriate MCS model across the configuration range.

The Cisco Media Convergence Server (MCS) Network Teaming Driver is not supported with CVP 3.0.

More information on Cisco 7800 Series Media Convergence Servers may be found at the following Cisco.com link: <http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html>

## 3<sup>rd</sup> Party Software Requirements

Node	All Nodes
Software	<p>Remote Administration:</p> <p>Symantec pcANYWHERE 11.0  VNC 4.0  Windows Terminal Services (server administration only – no Application GUI access)</p> <p>Virus protection:</p> <p>McAfee VirusScan Enterprise 8.0i  Symantec AntiVirus Corporate Edition 9.0  Trend 5.5.8</p> <p>Microsoft Internet Explorer 6.0 Service Pack 1 (minimum)</p> <p>Intrusion Prevention System: Cisco Security Agent for Cisco Customer Voice Portal:  <a href="http://www.cisco.com/kobayashi/sw-center/contact_center/csa/">http://www.cisco.com/kobayashi/sw-center/contact_center/csa/</a> (Note: CSA is not supported for Terminal Services)</p> <p>Optional:</p> <p>WinZIP  Adobe Acrobat Reader</p>

# Hardware/Software Requirements

## CVP Application Server/CVP Voice Browsers

Node	CVP Application Server/CVP Voice Browser
Cisco Media Convergence Servers (MCS)	MCS-7845-H1-3.0-CC1 <b>Note:</b> The MCS hardware is an option. Equivalent or faster servers from HP are also supported.
Minimum Recommended Hardware	2 x 2.6GHz or greater Intel "Xeon" class processors 2000+ MB RAM 18.2+ GB usable disk space Internal CD-ROM or DVD-ROM drive 1 x 10/100/1000 Ethernet ports
Operating System	Microsoft Windows 2000 Server with Service Pack 4 <b>Note:</b> Microsoft provides as an option the Integrated Service pack that simultaneously installs the operating system and SP4. Cisco <b>does not</b> support the Integrated Service Pack method. Apply SP4 only after Windows 2000 Server has been installed.  Cisco IP Telephony (IPT) Operating System 2000.2.7 (supported only on the MCS and the HP equivalent machines).  <b>Note:</b> To apply the latest Operating System Service Upgrade Release, go to <a href="http://www.cisco.com/cgi-bin/tablebuild.pl/cmva-3des">http://www.cisco.com/cgi-bin/tablebuild.pl/cmva-3des</a>
Additional Items	Application Server machines require the Windows 2000 Internet Information Admin Service (IIS), World Wide Web Publishing Services and SNMP (Simple Network Management Protocol).

## Cisco Customer Voice Portal VoiceXML Server (optional)

Node	CVP VoiceXML Server
Cisco Media Convergence Servers (MCS)	MCS-7845-H1-3.0-CC1 <b>Note:</b> The MCS hardware is an option. Equivalent or faster servers from HP are also supported.
Minimum Recommended Hardware	2 x 2.6GHz or greater Intel "Xeon" class processors 2000+ MB RAM 18.2+ GB usable disk space Internal CD-ROM or DVD-ROM drive 1 x 10/100/1000 Ethernet ports
Operating System	Microsoft Windows 2000 Server with Service Pack 4
Additional Items	Cisco supports only the Apache Tomcat Java Application Server for CVP VoiceXML Server. SNMP is optional for logging and reporting.

## Cisco Customer Voice Portal VoiceXML Studio (optional)

Node	CVP VoiceXML Studio
Minimum Recommended Hardware	800 MHz Intel Pentium III (or equivalent) 256 MB minimum memory, 512 MB recommended 100 MB minimum free hard disk space, 2 GB recommended 1024 x 768 minimum display (when using the CVP VoiceXML Builder)
Operating System	Microsoft Windows 2000 Server with Service Pack 4

## Media Server (optional)

Node	Media Server
Minimum Recommended Hardware	Use vendor recommended hardware.
Additional information	<p>A minimum of 10MB should be available for CVP system media files (Cisco-provided .wav files of numbers, days, months, currency types, etc. in English, and Latin American Spanish). <b>Note:</b> Any additional media files will require additional space.</p> <p>To maximize Voice Browser and Application Server performance, <i>do not</i> install the Media Server on the same machine as the Voice Browser and/or Application Server.</p> <p><b>Note:</b> This restriction applies to the Comprehensive and Advanced Speech deployment models. If you are using the Queue and Transfer deployment model, you may install the Media Server on the same machine as the Voice Browser and/or Application Server. For more information about the CVP deployment models, refer to the <i>Cisco Customer Voice Portal (CVP) Release 3.0 Product Description</i>.</p>

## ASR/TTS Server (optional)

**Note:** This section provides information on vendors and software versions that have had extensive interoperability testing between CVP and ASR/TTS products. These tests exercised system functionality but not ASR/TTS product availability or sizing. For availability and sizing data on ASR/TTS servers, contact the vendor or their recommended partners.

	ASR/TTS Server
Recommended Hardware	Use vendor recommended hardware.
Recommended Software	Scansoft: OSMS 2.0.4 OSR 2.0.9 Speechify 3.0.1  Nuance 8.5 SR8b Nuance Vocalizer 3.0.8 (MRCP variant)

**SDDSN (optional)**

Node	SDDSN Machine
Cisco Media Convergence Servers (MCS)	MCS-7825H-3.0-CC1 <b>Note:</b> MCS class machines are not required to host SDDSN. However, using a MCS machine allows approximately 50 connections to SDDSN clients, such as the CVP Application Server and the CVP Voice Browser.
Recommended Hardware	2.6GHz or greater Intel "Xeon" class processors 2000+ MB RAM 18.2+ GB usable disk space Internal CD-ROM or DVD-ROM drive 1 x 10/100/1000 Ethernet ports <b>Note:</b> This level of hardware is not required to host SDDSN. However, using this hardware allows approximately 50 connections to SDDSN clients, such as the CVP Application Server and the CVP Voice Browser
Operating System	SDDSN machines should have Microsoft Windows 2000 pre-installed. These machines also must have the SNMP services, which is no longer loaded by default with SP3.

**Cisco Contact Services Switch (CSS) (optional)**

Node	CSS Machine
Minimum Recommended Hardware	Cisco CCS 11500
Recommended Software	WebNS 7.30

## Cisco Gateways

	Gateways
Hardware options	17xx 36xx 37xx 3825 3845 5350* 5400 HPX 5850eRSC  *The XM series is not supported.
Software options	IOS 12.3(11)T4 <sup>1</sup> (Or later T. For example, IOS 12.3(11)T4) IOS 12.4(13) [supported as of CVP 3.0 SR 2] IP PLUS software feature set  1. An upgrade to an IOS version that is not explicitly stated in this Hardware and System Software Specification requires approval from CVP engineering.

## Cisco Gatekeepers

	Gatekeepers
Hardware options	2xxx 3xxx
Software options	IOS 12.3(11)T3 or later T IOS 12.4(13) [supported as of CVP 3.0 SR 2] IP/H323 Software feature set

## Cisco IPCC

	IPCC
IPCC versions that are compatible with CVP 3.0	6.0 Note: All version must be installed with the latest Service Release
Additional Information	If Cisco CallManager is to be part of the configuration, refer to the following CallManager table for version requirements.

## Cisco CallManager

	Cisco CallManager
Cisco CallManager versions that are compatible with CVP 3.0	CCM 4.0 (for IPCC version 6.0)