Cisco Unity Connection 8.x Supported Platforms List

Revised August 13, 2013

This document provides information about the platforms supported for Cisco Unity Connection 8.x, including those shipped by Cisco and those provided by customers.

The Connection installation application prevents installation on servers that do not meet the exact specifications or models listed in this document.

Contents

Platform Overlays for Cisco Unity Connection 8.x

Revised June 30, 2011

Platforms supported for use with Connection 8.x are divided into two categories:

- Platforms supported for use in a virtual configuration. Table 1, "Specifications for Virtual Platform Overlays for Currently Shipping Connection 8.x Servers," lists the virtualization specifications, and the user and port limits when you install Connection 8.x on a virtual machine.

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> ✎
> **Note**   Connection 8.6(1) and later have the same system requirements for 500 and 1000 users. Therefore, no separate Virtual Platform Overlays (OVA) exists for 500 users.

- Platforms supported for use in a physical configuration. Table 2, "Specifications for Physical Platform Overlays for Currently Shipping Connection 8.x Servers," lists the specifications, and the user and port limits for the platforms that are supported for use in a physical configuration for Connection 8.x.

For additional specifications and support limits on each platform, see the applicable section:

- Specifications for Currently Shipping Platforms Supported for Cisco Unity Connection 8.x, page 11—Describes platforms that are supported for use in virtual configurations and platforms that are supported for use in physical configurations.

- Specifications for Previously Shipped Platforms Supported for Cisco Unity Connection 8.x, page 19—Describes only platforms that are supported for use in physical configurations.

For platforms supported for use in a virtual configuration, Connection is not preinstalled. For platforms supported for use in a physical configuration, the operating system and Connection are preinstalled.

Cisco ships Cisco Unified Communications Manager Business Edition (CMBE) platforms with the operating system, Connection, and Cisco Unified Communications Manager preinstalled. For specifications and support limits for the Cisco Unified CMBE platforms, see the applicable data sheet at http://www.cisco.com/en/US/products/hw/voiceapp/ps378/products_data_sheets_list.html.

> ✎
> **Note**   The Cisco MCS 7828 Media Convergence Server is supported for Cisco Unified CMBE 5000 only. This platform is not supported for use as a Connection 8.x platform.

> ✎
> **Note**   Although previously shipped HP platforms are still supported for use with Connection, no HP platforms are available for purchase from Cisco. For more information about HP server configurations, see the "HP Server Solutions" page at http://www.cisco.com/en/US/prod/collateral/voicesw/ps6790/ps5748/ps378/product_solution_overview09186a0080107d79.html.

Specifications for Virtual Platform Overlays for Currently Shipping Connection 8.x Servers

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This section describes specifications and limits for Cisco Unity Connection 8.x installed on a virtual machine.

For information on system requirements for a virtual environment, see the "Requirements for Installing Cisco Unity Connection on a Virtual Machine" section in the *System Requirements for Cisco Unity Connection Release 8.x* at http://www.cisco.com/en/US/docs/voice_ip_comm/connection/8x/requirements/8xcucsysreqs.html.

Table 1   Specifications for Virtual Platform Overlays for Currently Shipping Connection 8.x Servers

	Virtual Platform Overlay for up to 500 Users	Virtual Platform Overlay for up to 1,000 Users	Virtual Platform Overlay for up to 5,000 Users	Virtual Platform Overlay for up to 10,000 Users	Virtual Platform Overlay for up to 20,000 Users
Platform / part number	See the "Currently Shipping Platforms for Virtual Configurations" section on page 11.				
Minimum Connection Version	8.0(3)	8.5(1)	8.0(2)	8.0(2)	8.0(3)
vCPU (Number of Virtual Processors)[1] Cores and Speed per Core[2]	*Connection 8.5 and earlier only:*1 *Connection 8.6(1) and later only:*1@2.13	*Connection 8.5 and earlier only:*1 *Connection 8.6(1) and later only:*1@a minimum of 2.13 GHz (2.13 GHz reserved)	*Connection 8.5 and earlier only:*2 *Connection 8.6(1) and later only:*2@a minimum of 2.53 GHz each (5.06 GHz reserved)	*Connection 8.5 and earlier only:*4 *Connection 8.6(1) and later only:*4@a minimum of 2.53 GHz each (10.12 GHz reserved)	*Connection 8.5 and earlier only:*7 *Connection 8.6(1) and later only:*7@a minimum of 2.53 GHz each each (17.71 GHz reserved)
vRAM (Amount of Virtual RAM)	*Connection 8.5 and earlier only:*2 GB *Connection 8.6(1) and later only:*4 GB	*Connection 8.5 and earlier only:*4 GB *Connection 8.6(1) and later only:*4 GB(4 GB reserved)	*Connection 8.5 and earlier only:*4 GB *Connection 8.6(1) and later only:*6 GB(6 GB reserved)	*Connection 8.5 and earlier only:*4 GB *Connection 8.6(1) and later only:*6 GB(6 GB reserved)	*Connection 8.5 and earlier only:*8 GB(8 GB reserved) *Connection 8.6(1) and later only:*8 GB(8 GB reserved)
vDisk (Size of Virtual Hard Disks)	1 x 160GB, file system aligned at 64KB blocks	1 x 160GB, file system aligned at 64KB blocks	1 x 200 GB, file system aligned at 64KB blocks	Three .ova files available for up to 10,000 users: • 2 x 146 GB • 2 x 300 GB • 2 x 500 GB File system aligned at 64KB blocks	Two .ova files available for up to 20,000 users: • 2 x 300 GB • 2 x 500 GB File system aligned at 64KB blocks
Total number of available ports per virtual machine: Voice + TTS + Voice recognition	16	24	100	150	250
Total number of available ports for in a cluster	32	48	200	300	500
Total number of users with mailboxes	500	1,000	5,000	10,000	20,000
Number of Cisco Personal Communications Assistant users	500	1,000	5,000	10,000	20,000

Table 1   *Specifications for Virtual Platform Overlays for Currently Shipping Connection 8.x Servers (continued)*

	Virtual Platform Overlay for up to 500 Users	Virtual Platform Overlay for up to 1,000 Users	Virtual Platform Overlay for up to 5,000 Users	Virtual Platform Overlay for up to 10,000 Users	Virtual Platform Overlay for up to 20,000 Users
Total number of active clients: Cisco Unified Personal Communicator + Third-party IMAP + Cisco Unity conferencing + Cisco Unified Mobile Advantage + RSS + Phone View users (assumes all IMAP Idle clients; see the "IMAP Idle Clients" section on page 6)	500	1,000	5,000	10,000	20,000
Total number of LDAP Corporate Directory Users	500	1,000	5,000	10,000	20,000
Approximate message storage, G-711 codec (minutes as well as GB)	72,944 (46 GB)	72,944 (46 GB)	137,298 (86 GB)	Depends on the .ova file: • 2 x 146 GB: 252,831 (159 GB) • 2 x 300 GB: 514,287 (324 GB) • 2 x 500 GB: 919,992 (579 GB)	Depends on the .ova file: • 2 x 300 GB: 514,287 (324 GB) • 2 x 500 GB: 919,992 (579 GB)

1. At least one processor core must be available for the VMware hypervisor.

2. For Spec-based processor requirements, see http://docwiki.cisco.com/wiki/Specification-Based_Hardware_Support#Processor_Requirements.

Specifications for Physical Platform Overlays for Currently Shipping Connection 8.x Servers

Revised November 5, 2011

This section describes specifications and limits for the physical server that is currently shipping in each platform overlay. See also the "Memory and Hard Disk Requirements for Connection 8.x" section on page 8.

Table 2   *Specifications for Physical Platform Overlays for Currently Shipping Connection 8.x Servers*

	Platform Overlay 1	**Platform Overlay 2**	**Platform Overlay 3**	**Cisco Unified CMBE 5000**
Platform / part number	• MCS7825I5-K9-UCC3. See Cisco MCS 7825-I5 Media Convergence Servers (IBM), page 15	MCS7835I3-K9-UCC2. See Cisco MCS 7835-I3 Media Convergence Servers (IBM), page 16. Note that Connection 8.6 and later are not shipped on preloaded hardware from Cisco.	MCS7845I3-K9-UCC3. See Cisco MCS 7845-I3 Media Convergence Servers (IBM), page 17	Cisco MCS 7828 Series Servers
IBM model number	IBM x3250-M3	IBM x3650-M2 single processor	IBM x3650-M2 dual processor	-
HP model number	HP DL320-G5p single processor; HP part number: AT982A (Server not available from Cisco.)	HP DL380-G6 single processor; HP part number: AX692A (Server not available from Cisco.)	HP DL380-G6 dual processors; HP part number: AX693A (Server not available from Cisco.)	-
Number of processors	1	1	2	Refer to Cisco MCS 7828 Media Convergence Server data sheet at http://www.cisco.com/en/US/products/hw/voiceapp/ps378/products_data_sheets_list.html.
RAM	4 GB	*Connection 8.5 and earlier only:*4 GB *Connection 8.6(1) and later only:*6 GB	8 GB	
Hard disks	Two 250-GB Serial Advanced Technology Attachment (SATA) 3.5-in. cold-swap drives; Redundant Array of Independent Disks 1 (RAID 1)	Two 300-GB single-attachment-station (SAS) 2.5-in. hot-swap hard disks; RAID 1	Four 300-GB SAS 2.5-in. hot-swap hard disks; 2 RAID 1s	
Total number of available ports per server: voice + TTS + voice recognition)	48	150	250	24
Total number of available ports for each server in a cluster	96	300	500	-
Total number of users with mailboxes	2,000	4,000	20,000	500
Number of Cisco Personal Communications Assistant users	2,000	4,000	20,000	500

Table 2 Specifications for Physical Platform Overlays for Currently Shipping Connection 8.x Servers (continued)

	Platform Overlay 1	Platform Overlay 2	Platform Overlay 3	Cisco Unified CMBE 5000
Total number of active clients: Cisco Unified Personal Communicator + third-party IMAP + Cisco Unity conferencing + Cisco Unified Mobile Advantage + RSS + Phone View users (assumes all IMAP Idle clients; see IMAP Idle Clients, page 6)	2,000	4,000	20,000	500
Total number of LDAP Corporate Directory Users	2,000	4,000	20,000	500

Additional Information Related to Platform-Overlay Specifications

- Cisco Unity Connection Cluster, page 6
- IMAP Idle Clients, page 6

Cisco Unity Connection Cluster

Revised November 16, 2010

The Connection cluster feature provides high-availability voice messaging with two Connection servers that are configured in a cluster. In this configuration, also known as active-active high availability, a single node consists of two servers, and the number of ports depends on the server model (see Table 2 on page 5). The total number of node ports is additive (meaning a single node can support up to 500 ports in the case of platform overlay 3), but the total number of users supported is applicable only to the primary server. The primary and secondary servers in a cluster must match in CPU and amount of memory, or the configuration is not supported.

If the hard disk space does not match on the two servers that you are using for a cluster, the smaller amount of disk space determines the storage capacity for each server in the cluster. This also applies if you are using one physical server and one virtual machine for the cluster.

See also the "Requirements for a Cisco Unity Connection 8.x Cluster" section in *System Requirements for Cisco Unity Connection* Release 8.x at
http://www.cisco.com/en/US/docs/voice_ip_comm/connection/8x/requirements/8xcucsysreqs.html.

IMAP Idle Clients

The calculations for the total number of active clients assume the use of IMAP clients that support IMAP Idle. Cisco Unified Personal Communicator 7.0 and earlier, Cisco Unified Mobility Advantage, and Cisco Unified Mobile Communicator do not support IMAP Idle. As a result, each active instance of each of these clients (that does not support IMAP Idle) that is accessing Connection voice messages counts as four active clients.

Preloaded MCS 7835 Hardware Is Not Available With 8.6(1)

Added June 9, 2010

Cisco Unity Connection 8.6(1) and later will not be available in a preloaded format on the MCS 7835 servers. Therefore, no MCS 7835-I3-K9-Uxxx servers will be available for this version of software. Only the MCS7825I5-K9-UCC3 and the MCS 7845-I3-K9-UCC3 SKU are available for the preloaded 7825-I5 and 7845-I3 servers.

Cisco Unity Connection 8.6(1) software can still run on the MCS 7835 I2 and I3 series servers, however, those servers will need the following:

- 6 GB of RAM

- 2 disks of minimum 146 GB drives

You will have the following options:

- If upgrading from Connection 8.5 running on a MCS 7835 server, you will need to upgrade the memory on the server to 6GB before upgrading the software.

- If you need a MCS 7835, you can buy the MCS 7835-I3-K9-UCC2 server, which comes preloaded with Cisco Unity Connection 8.5. Add 2 GB RAM to the server (MEM-7835-I3-2GB=), and upgrade the software to Cisco Unity Connection 8.6.

Configuring vCPU, vRAM, and vDisk for Cisco Unity Connection Virtual Machines

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To simplify deployment of Connection on a virtual machine, Cisco provides OVA templates for the virtual platform overlays defined in .

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Caution　Changing the number of virtual CPUs, the amount of virtual RAM, or the number or size of virtual disks is not supported.

In addition, the OVA templates align the file system on the virtual disk(s) in the virtual machine at 64-KB blocks, which results in improved storage input/output operations per second (IOPS).

For information on downloading the latest OVA files, see the "Installation and Upgrade Information" section in the applicable *Release Notes for Cisco Unity Connection* at http://www.cisco.com/en/US/products/ps6509/prod_release_notes_list.html.

For information on deploying an OVA file while installing a new Connection virtual server, see the "Overview of Mandatory Tasks for Installing a Cisco Unity Connection 8.x System" chapter of the *Installation Guide for Cisco Unity Connection Release 8.x* at http://www.cisco.com/en/US/docs/voice_ip_comm/connection/8x/installation/guide/8xcucigx.html.

For information on deploying an OVA file while migrating from a physical server to a virtual server, see the "Migrating from a Cisco Unity Connection Physical Server to a Connection 8.x Virtual Server" chapter of the *Reconfiguration and Upgrade Guide for Cisco Unity Connection Release 8.x* at http://www.cisco.com/en/US/docs/voice_ip_comm/connection/8x/upgrade/guide/8xcucrugx.html.

For information on deploying other Unified Communication applications on the same physical server with Connection, see the Unified Communications Virtualization wiki at http://docwiki-dev.cisco.com/wiki/Unified_Communications_Virtualization.

Additional Platform Information

Replacing a Connection Server as You Upgrade to Connection 8.x

Added January 21, 2011

If you are replacing the Connection server and the server is currently running Connection 7.1(2) or earlier, you will also need Connection 7.1(3) software:

- Some older servers are not supported for use with Connection 8.x, and an attempt to install or upgrade to Connection 8.x on these older servers will fail. This means that you cannot upgrade to Connection 8.x on both the old server and the new server and use the Disaster Recovery System to move data to the new server.

- Connection 7.1(2) and earlier does not include the drivers required by the new servers. This means you cannot install Connection 7.1(2) or earlier on a new server, move data to the new server by using the Disaster Recovery System, and then upgrade the new server to Connection 8.x.

For more information on replacing a Connection server as you upgrade to Connection 8.x, see the applicable chapter in the *Reconfiguration and Upgrade Guide for Cisco Unity Connection Release 8.x* at http://www.cisco.com/en/US/docs/voice_ip_comm/connection/8x/upgrade/guide/8xcucrugx.html.

Memory and Hard Disk Requirements for Connection 8.x

Revised June 1, 2011

You must add memory, or replace or remove hard disks for some MCS platforms in some configurations.

Table 3   Platform Memory and Hard Disk Requirements for Connection 8.x

Platform	Memory Requirement for Connection 8.x	Hard Disk Requirement for Connection 8.x
Cisco MCS 7825	When all of the following are true, each Cisco MCS 7825 server in a Digital Network must contain 4 GB of RAM: • Digital networking is configured. • Voice recognition is configured. • The sum of contacts, users, distribution lists, locations, personal contacts, and personal distribution lists exceeds 2,000. When Cisco MCS 7825 servers contain 4 GB of RAM, the Digital Network can include up to 100,000 users. When a Cisco MCS 7825 server contains 2 GB of RAM, the maximum number of contacts for the server is 50,000. When a Cisco MCS 7825 server contains 4 GB of RAM, the maximum number of contacts for the server is 100,000. *Connection 8.5 and later only:* If you are configuring synchronization of Connection and Exchange mailboxes (single inbox), MCS 7825 servers must contain 4 GB of RAM. *Connection 8.6 and later only:* All MCS 7825 servers must contain 4 GB of RAM.	All MCS 7825 servers must contain two hard disks that are the same size and that are at least 160 GB each.
Cisco MCS 7835	All MCS 7835 servers must contain 4 GB of RAM. *Connection 8.6 and later only:* All MCS 7835 servers must contain 6 GB of RAM.	All MCS 7835 servers must contain two hard disks that are the same size and that are at least 146 GB each.
Cisco MCS 7845	All MCS 7845 servers must contain 4 GB of RAM. *Connection 8.6 and later only:* All MCS 7845 servers must contain 6 GB of RAM.	All MCS 7845 servers must contain four hard disks that are the same size and that are at least 146 GB each.

Platforms Qualified for Use with Cisco Unity Connection

Cisco Unity Connection 8.x is shipped from Cisco as an appliance on the Cisco 7800 Series Media Convergence Servers ending in the suffix "UCC1." However, Connection supports upgrades from some media convergence servers shipped for previous versions of Connection and Cisco Unity messaging. Table 11 through Table 26 outline the supported media convergence servers for Connection 8.x as well as hardware specifications, and, where applicable, required hardware changes for Connection 8.x to support the product. Where possible, Cisco product numbers are listed in the tables for hardware upgrades, as are original-equipment-manufacturer (OEM) product part numbers for direct sourcing of the equipment.

Connection 8.x does not support first-generation MCS models (-I1 or -H1) or their software-only models.

Platforms Supported for Use with Cisco Unity Connection 8.x

Revised July 5, 2011

For detailed specifications on a platform, click the link in the "Manufacturer and Model" column.

Table 4   *Platforms Supported for Use with Cisco Unity Connection 8.x*

Manufacturer and Model	Currently Shipping	Platform Overlay	Supported for Use in a Virtual Environment
Cisco UCS-B200M2, page 11	Yes	All	Yes
Cisco UCS-B200M1-VCS1/N20-B6620-1, page 19	No	All	Yes
Cisco UCS-C210M2, page 12	Yes	All	Yes
Cisco UCS-B230M2/Cisco UCS-B230M2-VCDL1, page 13	Yes	All	Yes
Cisco UCS-B440M2/Cisco UCS-B440M2-VCDL1, page 14	Yes	All	Yes
Cisco UCS-C210M1-VCD1/R210-2121605, page 20	No	All except virtual overlays for 20,000 users	Yes
Cisco UCS-C210M1-VCD2/R210-2121605, page 20	No	All	Yes
Cisco UCS-C200M2, page 12	Yes	Virtual overlays for 500, 1,000, and 5,000 users	Yes
Cisco R210-2121605 (Fiber-Channel SAN Compatible), page 21	No	All	Yes
Cisco MCS 7825-I5 Media Convergence Servers (IBM), page 15	Yes	1	No
Currently Shipping Platform Overlay 2 Servers, page 16	Yes	1	No
Cisco MCS 7835-I3 Media Convergence Servers (IBM), page 16	Yes	2	No
Cisco MCS 7845-I3 Media Convergence Servers (IBM), page 17	Yes	3	No
Cisco MCS 7825-I2 Media Convergence Servers (IBM)—Connection 8.0 Only, page 22	No	1	No
Cisco MCS 7825-I3 Media Convergence Servers (IBM), page 24	No	1	No
Cisco MCS 7825-I4 Media Convergence Servers (IBM), page 26	No	1	No
Cisco MCS 7825-H2 Media Convergence Servers (HP)—Connection 8.0 Only, page 27	No	1	No
Cisco MCS 7825-H3 Media Convergence Servers (HP), page 29	No	1	No
Cisco MCS 7825-H4 Media Convergence Servers (HP), page 30	No	1	No
Cisco MCS 7835-I2 Media Convergence Servers (IBM), page 32	No	2	No
Cisco MCS 7835-H2 Media Convergence Servers (HP), page 33	No	2	No
Cisco MCS 7845-I2 Media Convergence Servers (IBM), page 35	No	3	No
Cisco MCS 7845-H2 Media Convergence Servers (HP), page 38	No	3	No

Specifications for Currently Shipping Platforms Supported for Cisco Unity Connection 8.x

Currently Shipping Platforms for Virtual Configurations

Cisco UCS-B200M2

Added November 16, 2010

Table 5   Cisco UCS-B200M2 Platforms

Feature	Description
Model numbers	VTG: UCS-B200M2 N20-86625-1
Supplier	Cisco
Form factor	Half blade
Mounting	Rack-mount
Physical processor(s)	Two Intel 2.53 GHz quad-core Xeon E5640 80W CPUs, 12 MB cache, DDR3 1066MHz
Physical RAM (as shipped)	48 GB: 12 4GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs
Physical hard disk	Two 146GB 6Gb SAS 15K RPM SFF HDD/hot plug/drive sled mounted
RAID controller	SATA on board
RAID configuration	RAID 1
Total available disk space	136 GB
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable

Table 5 *Cisco UCS-B200M2 Platforms (continued)*

Feature	Description
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps10299/index.html

Cisco UCS-C210M2

Revised November 04, 2011

Table 6 *Cisco UCS-C210M2 Platforms*

Feature	Description
Model numbers	VTG: UCS-C210M2 R210-2121605W
Supplier	Cisco
Form factor	2RU
Mounting	Rack-mount
Physical processor(s)	Two Intel 2.53 GHz quad-core Xeon E5640 80W CPUs, 12 MB cache, DDR3 1066MHz
Physical RAM (as shipped)	24 GB: Six 4 GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs
Physical hard disk	10 146GB 6Gb SAS 15K RPM SFF HDD/hot plug/drive sled mounted
RAID controller	LSI 6G MegaRAID PCIe Card (RAID 0, 1, 5, 6, 10, 60) — 512WC
RAID configuration	2 drives in RAID 1 (VMware) 8 drives in RAID 5 (virtual machines)
Total available disk space	RAID 1 array: 136 GB RAID 5 array: 952 GB
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps10891/index.html

Cisco UCS-C200M2

Added November 16, 2010

Table 7 **Cisco UCS-C200M2 Platforms**

Feature	Description
Model numbers	VTG: UCS-C200M2 R200-1120402W
Supplier	Cisco
Form factor	1RU
Mounting	Rack-mount
Physical processor(s)	Two Intel 2.53 GHz quad-core Xeon E5506 80W CPUs, 4 MB cache, DDR3 800 MHz
Physical RAM (as shipped)	24 GB: Six 4 GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs
Physical hard disk	Two Gen 2 1 TB SAS 7.2K RPM
RAID controller	LSI 6G MegaRAID 9260-4i
RAID configuration	Not applicable
Total available disk space	Not applicable
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps10516/index.html

Cisco UCS-B230M2/Cisco UCS-B230M2-VCDL1

Added December 23, 2010

Table 8 **Cisco UCS-B230M2/Cisco UCS-B230M2-VCDL1 Platforms**

Feature	Description
Model numbers	Bundled SKU- UCS-B230M2-VCDL1 Other - B230-BASE-M2UPG
Supplier	Cisco
Form factor	Half blade
Mounting	Rack-mount
Physical processor(s)	Two Intel 2.4 GHz 10 core E7-2870 CPUs 130W 10C/30M Cache
Physical RAM (as shipped)	96 GB: 12 8GB DDR3-1333-MHz RDIMM/PC3-10600/dual rank/x4/1.35v
Physical hard disk	None
RAID controller	Not applicable
RAID configuration	None

Table 8 **Cisco UCS-B230M2/Cisco UCS-B230M2-VCDL1 Platforms (continued)**

Feature	Description
Total available disk space	Not applicable
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps11583/index.html

Cisco UCS-B440M2/Cisco UCS-B440M2-VCDL1

Added December 23, 2010

Table 9 **Cisco UCS-B440M2/Cisco UCS-B440M2-VCDL1 Platforms**

Feature	Description
Model numbers	Bundled SKU- UCS-B440M2-VCDL1 Other - B440-BASE-M2UPG
Supplier	Cisco
Form factor	Full width blade
Mounting	Rack-mount
Physical processor(s)	Four Intel 2.4 GHZ 10 core E7-2870 CPUs 130W 10C/30M Cache
Physical RAM (as shipped)	256 GB: 16 1 6GB DDR3-1333MHz RDIMM/PC3-10600/2x8GB 2R Kit/Low Volt
Physical hard disk	None
RAID controller	Not applicable
RAID configuration	None
Total available disk space	Not applicable
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps11584/index.html

Currently Shipping Platform Overlay 1 Servers

Cisco MCS 7825-I5 Media Convergence Servers (IBM)

Revised June 9, 2011

Table 10   Cisco MCS 7825-I5 Media Convergence Servers

Feature	Description
Model numbers	• Cisco MCS7825I5K9-UCC3 • Cisco MCS7825I5K9-UCC2 • IBM x3250-M2
Supplier	Shipped by Cisco or provided by customer; manufactured by IBM
Platform overlay	1
Form factor	Rack-mount
Mounting	1 RU
Processor(s)	Intel Xeon 3400 Quad Core
RAM (as shipped)	4-GB (two 2-GB) PC2-5300 Error Checking and Correcting (ECC) double data rate 2 (DDR2)
Hard disk	Two 250-GB SATA 3.5-in. cold-swap drives
RAID controller	SATA on board
RAID configuration	RAID 1
Total available disk space	233 GB
Hardware reconfiguration required	When all of the following are true, each Cisco MCS 7825 server in a Digital Network must contain 4 GB of RAM: • Digital networking is configured. • Voice recognition is configured. • The sum of contacts, users, distribution lists, locations, personal contacts, and personal distribution lists exceeds 2,000. When Cisco MCS 7825 servers contain 4 GB of RAM, the Digital Network can include up to 10,000 users. When a Cisco MCS 7825 server contains 2 GB of RAM, the maximum number of contacts for the server is 50,000. When a Cisco MCS 7825 server contains 4 GB of RAM, the maximum number of contacts for the server is 100,000. *Connection 8.5 and later only:* If you are configuring synchronization of Connection and Exchange mailboxes (single inbox), MCS 7825 servers must contain 4 GB of RAM. Connection 8.6 and later only:All MCS 7825 servers must contain 4 GB of RAM.
CD-ROM or DVD-ROM drives	1 DVD-ROM drive (IBM part number 4144)
Tape drive	Optional
Power supply	Not redundant
Remote management	ILO

Table 10   *Cisco MCS 7825-I5 Media Convergence Servers (continued)*

Feature	Description
Total number of available ports (Voice + TTS + Voice recognition) per server	48
Total number of users with mailboxes	2,000
Number of Cisco Personal Communications Assistant users	2,000
Total number of LDAP corporate directory users	10,000
Approximate message storage, G-711 codec, minutes	117,000
Field-replaceable spares part numbers	Memory: MEM-7825-I4-2GB= hard disk: HDD-7825-I4-250=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Currently Shipping Platform Overlay 2 Servers

Cisco MCS 7835-I3 Media Convergence Servers (IBM)

Revised June 1, 2011

Table 11   *Cisco MCS 7835-I3 Media Convergence Servers*

Feature	Description
Model numbers	Cisco: • MCS7835I3-K9-UCC1 • MCS7835I3-K9-UCC2 • MCS7835I3-K9-UCB2 • MCS-7835-I3-ECS1 IBM x3650-M2
Supplier	Shipped by Cisco or provided by customer; manufactured by IBM
Platform overlay	2
Form factor	Rack-mount
Mounting	2RU
Processor(s)	Single Intel E5504 2.00-GHz; last level cache: 8 MB
RAM (as shipped)	6-GB (two 2-GB dual in-line memory module [DIMM]) PC3-10600 1333-MHz, fully buffered DDR-3 registered DIMM (RDIMM). The RAM (as shipped) needs some enhancement. Only 4-GB RAM is shipped with the server. Connection 8.6.1 and later require 6-GB RAM, therefore, add 2-GB RAM to the server (MEM-7835-I3-2GB=).

Table 11   Cisco MCS 7835-I3 Media Convergence Servers (continued)

Feature	Description
Hard disk	Two 300-GB SAS 2.5-in. hot-swap
RAID controller	IBM mezzanine ServeRAID MR10i controller
RAID configuration	RAID 1
Total available disk space	280 GB
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Optional
Power supply	2
Remote management	IBM IMM with virtual media enabled
Total number of available ports (Voice + TTS + Voice recognition) per server	150
Total number of users with mailboxes	4,000
Number of Cisco Personal Communications Assistant users	4,000
Total number of LDAP corporate directory users	4,000
Approximate message storage, G-711 codec, minutes	242,078
Field-replaceable spares part numbers	Hard disk: HDD-7835-I3-300=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Currently Shipping Platform Overlay 3 Servers

Cisco MCS 7845-I3 Media Convergence Servers (IBM)

Revised June 9, 2011

Table 12 **Cisco MCS 7845-I3 Media Convergence Servers**

Feature	Description
Model numbers	Cisco: • MCS7845I3-K9-UCC1 • MCS7845I3-K9-UCC3 • MCS7845I3-K9-UCC • MCS7845I3-K9-UCB2 • MCS-7845-I3-ECS1 IBM x3650-M2
Supplier	Shipped by Cisco or provided by customer; manufactured by IBM
Platform overlay	3
Form factor	Rack-mount
Mounting	2 RU
Processor(s)	Dual Intel E5540 2.53-GHz; last level cache: 8 MB
RAM (as shipped)	8-GB (four 2-GB DIMM) PC3-10600 1333-MHz, fully buffered DDR-3 RDIMM
Hard disk	4 x 300 GB
RAID controller	IBM mezzanine ServeRAID MR10i controller
RAID configuration	Two RAID 1 arrays
Total available disk space	560 GB
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Optional
Power supply	2
Remote management	IBM IMM with virtual media enabled
Total number of available ports (Voice + TTS + Voice recognition) per server	250
Total number of users with mailboxes	20,000
Number of Cisco Personal Communications Assistant users	20,000
Total number of LDAP corporate directory users	20,000
Approximate message storage, G-711 codec, minutes	514,287
Field-replaceable spares part numbers	Hard disk: HDD-7845-I3-300=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Specifications for Previously Shipped Platforms Supported for Cisco Unity Connection 8.x

Previously Shipped Platforms for Virtual Configurations

Cisco UCS-B200M1-VCS1/N20-B6620-1

Revised June 1, 2010

Table 13   Cisco UCS-B200M1-VCS1 Platforms

Feature	Description
Model numbers	VTG: UCS-B200M1-VCS1 SAVBU: N20-B6620-1
Supplier	Cisco
Form factor	Half blade
Mounting	Rack-mount
Physical processor(s)	Two Intel 2.53 GHz quad-core Xeon E5540 80W CPUs, 8 MB cache, DDR3 1066MHz
Physical RAM (as shipped)	32 GB: Eight 4GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs
Physical hard disk	Two 146GB 6Gb SAS 15K RPM SFF HDD/hot plug/drive sled mounted
RAID controller	SATA on board
RAID configuration	RAID 1
Total available disk space	136 GB
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable

Table 13 **Cisco UCS-B200M1-VCS1 Platforms (continued)**

Feature	Description
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps10299/index.html

Cisco UCS-C210M1-VCD1/R210-2121605

Added June 1, 2010

Table 14 **Cisco UCS-C210M1-VCD1 Platforms**

Feature	Description
Model numbers	VTG: UCS-C210M1-VCD1 SAVBU: R210-2121605
Supplier	Cisco
Form factor	2RU
Mounting	Rack-mount
Physical processor(s)	Two Intel 2.53 GHz quad-core Xeon E5540 80W CPUs, 8 MB cache, DDR3 1066MHz
Physical RAM (as shipped)	12 GB: Six 2 GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs
Physical hard disk	Six 146GB 6Gb SAS 15K RPM SFF HDD/hot plug/drive sled mounted
RAID controller	LSI 6G MegaRAID PCIe Card (RAID 0, 1, 5, 6, 10, 60) — 512WC
RAID configuration	2 drives in RAID 1 (VMware) 4 drives in RAID 5 (virtual machines)
Total available disk space	RAID 1 array: 136 RAID 5 array: 408 GB
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps10516/index.html

Cisco UCS-C210M1-VCD2/R210-2121605

Added July 27, 2010

Table 15   Cisco UCS-C210M1-VCD2 Platforms

Feature	Description
Model numbers	VTG: UCS-C210M1-VCD2 SAVBU: R210-2121605
Supplier	Cisco
Form factor	2RU
Mounting	Rack-mount
Physical processor(s)	Two Intel 2.53 GHz quad-core Xeon E5540 80W CPUs, 8 MB cache, DDR3 1066MHz
Physical RAM (as shipped)	36 GB: • Six 2GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs • Six 4GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs
Physical hard disk	Ten 146GB 6Gb SAS 15K RPM SFF HDD/hot plug/drive sled mounted
RAID controller	LSI 6G MegaRAID PCIe Card (RAID 0, 1, 5, 6, 10, 60) — 512WC
RAID configuration	2 drives in RAID 1 (VMware) 8 drives in RAID 5 (virtual machines)
Total available disk space	RAID 1 array: 136 GB RAID 5 array: 952 GB
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps10516/index.html

Cisco R210-2121605 (Fiber-Channel SAN Compatible)

Added July 27, 2010

Table 16   Cisco R210-2121605 Platform (Fiber-Channel SAN Compatible)

Feature	Description
Model numbers	SAVBU: R210-2121605
Supplier	Cisco
Form factor	2RU
Mounting	Rack-mount
Physical processor(s)	Two Intel 2.53 GHz quad-core Xeon E5540 80W CPUs, 8 MB cache, DDR3 1066MHz

Table 16 **Cisco R210-2121605 Platform (Fiber-Channel SAN Compatible) (continued)**

Feature	Description
Physical RAM (as shipped)	36 GB: • Six 2GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs • Six 4GB DDR3-1333MHz RDIMM/PC3-10600/dual rank 1Gb DRAMs
Physical hard disk	Two 146GB 6Gb SAS 15K RPM SFF HDD/hot plug/drive sled mounted
Fiber channel controller card	Qlogic QLE2462, 4Gb dual port Fibre Channel Host Bus Adapter
RAID controller	LSI 6G MegaRAID PCIe Card (RAID 0, 1, 5, 6, 10, 60) — 512WC
RAID configuration	2 drives in RAID 1 (VMware) Virtual machines run on the SAN
Total available disk space	RAID 1 array: 136
Hardware reconfiguration required	None
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Not applicable
Power supply	Redundant on the chassis
More information	http://www.cisco.com/en/US/products/ps10516/index.html

Previously Shipped Platform Overlay 1 Servers

Cisco MCS 7825-I2 Media Convergence Servers (IBM)—Connection 8.0 Only

Cisco MCS 7825-I2 Media Convergence Servers (IBM) are supported for use with Connection 8.0 but not with Connection 8.5 or later.

Revised November 16, 2010

Table 17   Cisco MCS 7825-I2 Media Convergence Servers—Connection 8.0 Only

Feature	Description
Model numbers	Cisco: • MCS 7825-l2-UC1 • MCS 7825-I2-ECS1 IBM x306m (MTM: 8849****)
Supplier	Shipped by Cisco or provided by customer; manufactured by IBM
Platform overlay	1
Form factor	Rack-mount
Mounting	1 RU
Processor(s)	Smithfield Pentium D 2.80-GHz (dual-core with two 1-MB Layer 2 cache) processor
RAM (as shipped)	2 GB 2 GB supports up to 2,000 directory users; 4 GB is required for more than 2,000 directory users.
Hard disk	Two 80 GB SATA
RAID controller	SATA on board
RAID configuration	RAID 1
Total available disk space	75 GB
Hardware reconfiguration required	The 80 GB hard disks must be replaced with two hard disks that are the same size and that are at least 160 GB each. When all of the following are true, each Cisco MCS 7825 server in a Digital Network must contain 4 GB of RAM: • Digital networking is configured. • Voice recognition is configured. • The sum of contacts, users, distribution lists, locations, personal contacts, and personal distribution lists exceeds 2,000. When Cisco MCS 7825 servers contain 4 GB of RAM, the Digital Network can include up to 10,000 users. When a Cisco MCS 7825 server contains 2 GB of RAM, the maximum number of contacts for the server is 50,000. When a Cisco MCS 7825 server contains 4 GB of RAM, the maximum number of contacts for the server is 100,000. *Connection 8.5 and later only:* If you are configuring synchronization of Connection and Exchange mailboxes (single inbox), MCS 7825 servers must contain 4 GB of RAM. Connection 8.6 and later only:All MCS 7825 servers must contain 4 GB of RAM.
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Optional
Power supply	Not redundant

Table 17   Cisco MCS 7825-I2 Media Convergence Servers—Connection 8.0 Only (continued)

Feature	Description
Remote management	ILO
Total number of available ports (Voice + TTS + Voice recognition) per server	24
Total number of users with mailboxes	500
Number of Cisco Personal Communications Assistant users	500
Total number of LDAP corporate directory users	2 GB RAM: 2,000 4 GB RAM: 10,000
Approximate message storage, G-711 codec, minutes	13,000
Field-replaceable spares part numbers	Memory: MEM-7825-I2-2GB= Hard disk: HDD-7825-I2-80=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Cisco MCS 7825-I3 Media Convergence Servers (IBM)

Table 18   Cisco MCS 7825-I3 Media Convergence Servers

Feature	Description
Model numbers	Cisco: • MCS 7825-l3-UC1 • MCS7825I3K9-UCA1 • MCS7825I3K9-UCB1 • MCS 7825-I3-ECS1 IBM x3250 (MTM: 4364****)
Supplier	Shipped by Cisco or provided by customer; manufactured by IBM
Platform overlay	1
Form factor	Rack-mount
Mounting	Rack-mountable (1RU)
Processor(s)	Intel Dual-Core Xeon 3050 2.13-GHz processor (IBM part number: 1272)
RAM (as shipped)	Two 1-GB DDR2 667 synchronous dynamic RAM (SDRAM) DIMMs (IBM part number: 1903)
Hard disk	Two 160-GB 7200-rpm 3.5-in. simple-swap SATA HDD (IBM part number: 5291) RAID 1 (IBM part numbers: 4367 and 9011)
RAID controller	SATA on board
RAID configuration	RAID 1
Total available disk space	150 GB

Table 18 **Cisco MCS 7825-I3 Media Convergence Servers (continued)**

Feature	Description
Hardware reconfiguration required	When all of the following are true, each Cisco MCS 7825 server in a Digital Network must contain 4 GB of RAM: • Digital networking is configured. • Voice recognition is configured. • The sum of contacts, users, distribution lists, locations, personal contacts, and personal distribution lists exceeds 2,000. When Cisco MCS 7825 servers contain 4 GB of RAM, the Digital Network can include up to 10,000 users. When a Cisco MCS 7825 server contains 2 GB of RAM, the maximum number of contacts for the server is 50,000. When a Cisco MCS 7825 server contains 4 GB of RAM, the maximum number of contacts for the server is 100,000. *Connection 8.5 and later only:* If you are configuring synchronization of Connection and Exchange mailboxes (single inbox), MCS 7825 servers must contain 4 GB of RAM. Connection 8.6 and later only:All MCS 7825 servers must contain 4 GB of RAM.
CD-ROM or DVD-ROM drives	1 DVD-ROM drive (IBM part number: 4144)
Tape drive	Optional
Power supply	Not redundant
Remote management	ILO
Total number of available ports (Voice + TTS + Voice recognition) per server	48
Total number of users with mailboxes	2,000
Number of Cisco Personal Communications Assistant users	2,000
Total number of LDAP corporate directory users	2 GB RAM: 2,000 4 GB RAM: 10,000
Approximate message storage, G-711 codec, minutes	117,000
Field-replaceable spares part numbers	Memory: MEM-7825-I3-2GB= Hard disk: HDD-7825-I3-160=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Cisco MCS 7825-I4 Media Convergence Servers (IBM)

Added July 5, 2010

Table 19   ***Cisco MCS 7825-I4 Media Convergence Servers***

Feature	Description
Model numbers	Cisco: • MCS 7825-l4-UCB1 • MCS7825-l4-UCA1 • MCS 7825-I4-ECS1 • MCS7825I4-K9-UCC1 IBM x3250-M2
Supplier	Shipped by Cisco or provided by customer; manufactured by IBM
Platform overlay	1
Form factor	Rack-mount
Mounting	Rack-mountable (1RU)
Processor(s)	Single Intel Dual-Core Xeon E8400 3.0-GHz 6M L2
RAM (as shipped)	2-GB (two 1-GB) PC2-5300 Error Checking and Correction (ECC) double data rate 2 (DDR2)
Hard disk	Two 250-GB Serial Advanced Technology Attachment (SATA) 3.5-in. cold-swap drives
RAID controller	SATA on board
Total available disk space	233 GB
Hardware reconfiguration required	When all of the following are true, each Cisco MCS 7825 server in a Digital Network must contain 4 GB of RAM: • Digital networking is configured. • Voice recognition is configured. • The sum of contacts, users, distribution lists, locations, personal contacts, and personal distribution lists exceeds 2,000. When Cisco MCS 7825 servers contain 4 GB of RAM, the Digital Network can include up to 10,000 users. When a Cisco MCS 7825 server contains 2 GB of RAM, the maximum number of contacts for the server is 50,000. When a Cisco MCS 7825 server contains 4 GB of RAM, the maximum number of contacts for the server is 100,000. *Connection 8.5 and later only:* If you are configuring synchronization of Connection and Exchange mailboxes (single inbox), MCS 7825 servers must contain 4 GB of RAM. Connection 8.6 and later only:All MCS 7825 servers must contain 4 GB of RAM.
Battery-backed write cache enabler (BBWC)	No
CD-ROM or DVD-ROM drives	1 DVD-ROM drive

Table 19   Cisco MCS 7825-I4 Media Convergence Servers (continued)

Feature	Description
Tape drive	Optional
Power supply	Not redundant
Remote management	Yes
Total number of available ports (Voice + TTS + Voice recognition) per server	48
Total number of users with mailboxes	2,000
Number of Cisco Personal Communications Assistant users	2,000
Total number of LDAP corporate directory users	2 GB RAM: 2,000 4 GB RAM: 10,000
Approximate message storage, G-711 codec, minutes	117,000
Field-replaceable spares part numbers	Memory: MEM-7825-I4-2GB= Hard disk: HDD-7825-I4-160=
More information	http://www.cisco.com/en/US/partner/prod/collateral/voicesw/ps6790/ps5748/ps378/data_sheet_c78-513886.html

Cisco MCS 7825-H2 Media Convergence Servers (HP)—Connection 8.0 Only

Cisco MCS 7825-H2 Media Convergence Servers (HP) are supported for use with Connection 8.0 but not with Connection 8.5 or later.

Revised November 16, 2010

Table 20   Cisco MCS 7825-H2 Media Convergence Servers—Connection 8.0 Only

Feature	Description
Model numbers	Cisco: • MCS 7825-H2-UC1 • MCS 7825-H2-ECS1 HP DL320G4
Supplier	Shipped by Cisco or provided by customer; manufactured by HP
Platform overlay	1
Form factor	Rack-mount
Mounting	1 RU
Processor(s)	Smithfield Pentium D at 2.80-GHz (dual-core with two 1-MB Layer 2 cache) processor
RAM (as shipped)	2 GB 2 GB supports up to 2,000 directory users; 4 GB is required for more than 2,000 directory users.
Hard disk	Two 80-GB SATA

Table 20   Cisco MCS 7825-H2 Media Convergence Servers—Connection 8.0 Only (continued)

Feature	Description
RAID controller	SATA on board
RAID configuration	RAID 1
Total available disk space	75 GB
Hardware reconfiguration required	The 80 GB hard disks must be replaced with two hard disks that are the same size and that are at least 160 GB each. When all of the following are true, each Cisco MCS 7825 server in a Digital Network must contain 4 GB of RAM: • Digital networking is configured. • Voice recognition is configured. • The sum of contacts, users, distribution lists, locations, personal contacts, and personal distribution lists exceeds 2,000. When Cisco MCS 7825 servers contain 4 GB of RAM, the Digital Network can include up to 10,000 users. When a Cisco MCS 7825 server contains 2 GB of RAM, the maximum number of contacts for the server is 50,000. When a Cisco MCS 7825 server contains 4 GB of RAM, the maximum number of contacts for the server is 100,000. *Connection 8.5 and later only:* If you are configuring synchronization of Connection and Exchange mailboxes (single inbox), MCS 7825 servers must contain 4 GB of RAM. Connection 8.6 and later only:All MCS 7825 servers must contain 4 GB of RAM.
Battery-backed write cache enabler (BBWC)	No
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Optional
Power supply	Not redundant
Remote management	Yes
Total number of available ports (Voice + TTS + Voice recognition) per server	24
Total number of users with mailboxes	500
Number of Cisco Personal Communications Assistant users	500
Total number of LDAP corporate directory users	2 GB RAM: 2,000 4 GB RAM: 10,000
Approximate message storage, G-711 codec, minutes	13,000
Field-replaceable spares part numbers	Memory: MEM-7825-H2-2GB= Hard disk: HDD-7825-H2-80=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Cisco MCS 7825-H3 Media Convergence Servers (HP)

Table 21   *Cisco MCS 7825-H3 Media Convergence Servers*

Feature	Description
Model numbers	Cisco: • Cisco MCS 7825-H3-UC1 • MCS7825H3K9-UCA1 • MCS7825H3-K9-UCB1 • MCS-7825-H3-ECS1 HP DL320G5
Supplier	Shipped by Cisco or provided by customer; manufactured by HP
Platform overlay	1
Form factor	Rack-mount
Mounting	Rack-mountable (1 RU)
Processor(s)	Intel Dual-Core Xeon 3050 2.13-GHz processor with an 1066-MHz FSB and 2 MB of Layer 2 cache (HP part number: 419400-L21)
RAM (as shipped)	2-GB PC2-5300 DDR2 ECC memory (must be installed in pairs); (HP part number: 432804-B21) 2 GB supports up to 2,000 directory users; 4 GB is required for more than 2,000 directory users.
Hard disk	Two 160-GB cold-swap SATA hard disks (HP part number: 349238-B21)
RAID controller	SATA on board
RAID configuration	RAID 1
Total available disk space	150 GB
Hardware reconfiguration required	When all of the following are true, each Cisco MCS 7825 server in a Digital Network must contain 4 GB of RAM: • Digital networking is configured. • Voice recognition is configured. • The sum of contacts, users, distribution lists, locations, personal contacts, and personal distribution lists exceeds 2,000. When Cisco MCS 7825 servers contain 4 GB of RAM, the Digital Network can include up to 10,000 users. When a Cisco MCS 7825 server contains 2 GB of RAM, the maximum number of contacts for the server is 50,000. When a Cisco MCS 7825 server contains 4 GB of RAM, the maximum number of contacts for the server is 100,000. *Connection 8.5 and later only:* If you are configuring synchronization of Connection and Exchange mailboxes (single inbox), MCS 7825 servers must contain 4 GB of RAM. Connection 8.6 and later only:All MCS 7825 servers must contain 4 GB of RAM.

Table 21   Cisco MCS 7825-H3 Media Convergence Servers (continued)

Feature	Description
Battery-backed write cache enabler (BBWC)	No
CD-ROM or DVD-ROM drives	1 DVD-ROM drive (HP part number: 374303-B21)
Tape drive	Optional
Power supply	Not redundant
Remote management	Yes
Total number of available ports (Voice + TTS + Voice recognition) per server	48
Total number of users with mailboxes	2,000
Number of Cisco Personal Communications Assistant users	2,000
Total number of LDAP corporate directory users	2-GB RAM: 2,000 4-GB RAM: 10,000
Approximate message storage, G-711 codec, minutes	117,000
Field-replaceable spares part numbers	Memory: MEM-7825-H3-2GB= Hard disk: HDD-7825-H3-160=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Cisco MCS 7825-H4 Media Convergence Servers (HP)

Table 22   Cisco MCS 7825-H4 Media Convergence Servers

Feature	Description
Model numbers	Cisco: • MCS7825H4K9-UCA1 • MCS7825H4-K9-UCB1 • MCS-7825-H4-ECS1 HP DL320-G5p
Supplier	Shipped by Cisco or provided by customer; manufactured by HP
Platform overlay	1
Form factor	Rack-mount
Mounting	Rack-mountable (1RU)
Processor(s)	Single Intel Dual Core Xeon E8400 3.0-GHz 6M L2
RAM (as shipped)	2-GB (two 1-GB) PC2-6400 ECC DDR2
Hard disk	Two 250-GB SATA 3.5-in. cold-swap drives
RAID controller	SATA on board
RAID configuration	RAID 1

Table 22 **Cisco MCS 7825-H4 Media Convergence Servers (continued)**

Feature	Description
Total available disk space	233 GB
Hardware reconfiguration required	When all of the following are true, each Cisco MCS 7825 server in a Digital Network must contain 4 GB of RAM: • Digital networking is configured. • Voice recognition is configured. • The sum of contacts, users, distribution lists, locations, personal contacts, and personal distribution lists exceeds 2,000. When Cisco MCS 7825 servers contain 4 GB of RAM, the Digital Network can include up to 10,000 users. When a Cisco MCS 7825 server contains 2 GB of RAM, the maximum number of contacts for the server is 50,000. When a Cisco MCS 7825 server contains 4 GB of RAM, the maximum number of contacts for the server is 100,000. *Connection 8.5 and later only:* If you are configuring synchronization of Connection and Exchange mailboxes (single inbox), MCS 7825 servers must contain 4 GB of RAM. Connection 8.6 and later only:All MCS 7825 servers must contain 4 GB of RAM.
Battery-backed write cache enabler (BBWC)	No
CD-ROM or DVD-ROM drives	1 DVD-ROM drive (HP part number: 374303-B21)
Tape drive	Optional
Power supply	Not redundant
Remote management	Yes
Total number of available ports (Voice + TTS + Voice recognition) per server	48
Total number of users with mailboxes	2,000
Number of Cisco Personal Communications Assistant users	2,000
Total number of LDAP corporate directory users	2 GB RAM: 2,000 4 GB RAM: 10,000
Approximate message storage, G-711 codec, minutes	117,000
Field-replaceable spares part numbers	Memory: MEM-7825-H4-2GB= Hard disk: HDD-7825-H4-250=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Previously Shipped Platform Overlay 2 Servers

Cisco MCS 7835-I2 Media Convergence Servers (IBM)

Revised June 23, 2010

Table 23   Cisco MCS 7835-I2 Media Convergence Servers

Feature	Description
Model numbers	Cisco, version 1: • MCS 7835-I2-UC1 • MCS 7835-I2-ECS1 Cisco, version 2: • MCS 7835-I2-ECS2 • MCS 7835-I2-UCA1 Cisco, version 3: • MCS7835I2-K9-UCA1A • MCS7835I2-K9-UCB1 • MCS7835I2-K9-UCB1A IBM x3650 (MTM: 7979****)
Supplier	Shipped by Cisco or provided by customer; manufactured by IBM
Platform overlay	2
Form factor	Rack-mount
Mounting	2 RU
Processor(s)	Versions 1 and 2: Single Intel Xeon Woodcrest 2.33-GHz processor Version 3: Dual Core Intel Xeon Processor 5140 (2.33-GHz and two 2-MB Layer 2 cache (IBM part number: 1325)
RAM (as shipped)	Version 1: 2 GB Version 2: 4 GB Version 3: 4 GB, eight 512-MB PC2-5300 667-MHz ECC Chipkill DDR2 FBDIMM (IBM part number: 0546) 4 GB required for Connection 8.x
Hard disk	Versions 1 and 2: Two 72-GB hard disks Version 3: Two 146-GB hard disks (IBM part number: 5534)
RAID controller	Versions 1 and 2: ServeRAID-8K (part number: 25R8064) Version 3: ServeRAID-8K (IBM part number: 1670)
RAID configuration	RAID 1
Total available disk space	Versions 1 and 2: 67 GB Version 3: 136 GB

Table 23   *Cisco MCS 7835-I2 Media Convergence Servers*

Feature	Description
Hardware reconfiguration required	• Version 1 servers require 4 GB of RAM. • Version 1 and 2 servers require two 146 GB or larger hard disks. • Connection 8.6 and later only: All MCS 7835 servers must contain 6 GB of RAM.
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Optional
Power supply	Redundant
Remote management	Remote Supervisor Adapter II Slimline
Total number of available ports (Voice + TTS + Voice recognition) per server	96
Total number of users with mailboxes	4,000
Number of Cisco Personal Communications Assistant users	4,000
Total number of LDAP corporate directory users	10,000
Approximate message storage, G-711 codec, minutes	Versions 1 and 2: 16,500 Version 3: 99,000
Field-replaceable spares part numbers	Memory: MEM-7835-I2-2GB= Hard disk: HDD-7835-I2-72= and HDD-7835-I2-146= Power: PWR-7835-I2=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Cisco MCS 7835-H2 Media Convergence Servers (HP)

Revised June 23, 2010

Table 24 **Cisco MCS 7835-H2 Media Convergence Servers**

Feature	Description
Model numbers	Cisco, version 1: • MCS 7835-H2-UC1 • MCS 7835-H2-ECS1 Cisco, version 2: • MCS 7835-H2-UCA1 • MCS 7835-H2-ECS2 Cisco, version 3: • MCS7835H2-K9-UCA1A • MCS7835H2-K9-UCB1A • MCS7835H2-K9-UCB1 HP DL380G5 Single Processor
Supplier	Shipped by Cisco or provided by customer; manufactured by HP
Platform overlay	2
Form factor	Rack-mount
Mounting	2RU
Processor(s)	Versions 1 and 2: Single Intel Xeon Woodcrest 2.33-GHz processor Version 3: Intel Dual-Core Xeon Processor 5140 (2.33 GHz, 1333 FSB)
RAM (as shipped)	Version 1: 2 GB Version 2: 4 GB Version 3: 4 GB as four 1-GB memory modules, FBD PC2-5300
Hard disk	Versions 1 and 2: Two 72-GB hard disks Version 3: Two HP 146-GB hot-plug 2.5 SAS 10,000-rpm hard disks
RAID controller	Versions 1 and 2: Part number: 405132-B21 Version 3: P400/256 for DL380 G5 and DL385 G2 FIO
RAID configuration	RAID 1
Total available disk space	Versions 1 and 2: 67GB Version 3: 136 GB
Hardware reconfiguration required	• Version 1 servers require 4 GB of RAM. • Version 1 and 2 servers require two 146 GB or larger hard disks. • Connection 8.6 and later only:All MCS 7835 servers must contain 6 GB of RAM.
Battery-backed write cache enabler (BBWC)	Part number: 383280-B21
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Optional
Power supply	Redundant

Table 24   Cisco MCS 7835-H2 Media Convergence Servers (continued)

Feature	Description
Remote management	Yes
Total number of available ports (Voice + TTS + Voice recognition) per server	96
Total number of users with mailboxes	4,000
Number of Cisco Personal Communications Assistant users	4,000
Total number of LDAP corporate directory users	10,000
Approximate message storage, G-711 codec, minutes	Versions 1 and 2: 16,500 Version 3: 99,000
Field-replaceable spares part numbers	Memory: MEM-7835-H2-1GB= Hard disk: HDD-7835-H2-72= and HDD-7835-H2-146= Power: PWR-7835-H2=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Previously Shipped Platform Overlay 3 Servers

Cisco MCS 7845-I2 Media Convergence Servers (IBM)

Revised June 23, 2010

Table 25   Cisco MCS 7845-I2 Media Convergence Servers (IBM)

Feature	Description
Model numbers	Cisco, version 1: • MCS 7845-l2-UC1 • MCS 7845-I2-ECS1 Cisco, version 2: • MCS 7845-I2-ECS2 • MCS 7845-l2-K9-UCA1 Cisco, version 3: • MCS7845l2K9-UCA1A • MCS7845I2K9-UCB1 IBM x3650 Dual Processor
Supplier	Shipped by Cisco or provided by customer; manufactured by IBM

Table 25 **Cisco MCS 7845-I2 Media Convergence Servers (IBM) (continued)**

Feature	Description
Platform overlay	3
Form factor	Rack-mount
Mounting	2 RU
Processor(s)	Versions 1 and 2: Dual Intel Xeon Woodcrest 2.33-GHz processor Version 3: Two Intel Dual-Core Xeon processors 5140 (2.33 GHz) and two 2-MB Layer 2 cache (IBM part number: 1325)
RAM (as shipped)	4 GB
Hard disk	Version 1: Eight 72-GB hard disks Version 2: Four 72-GB hard disks Version 3: Four 146-GB hard disks (IBM part number: 5534)
RAID controller	Versions 1 and 2: ServeRAID-8K (part number: 25R8064) Version 3: ServeRAID-8K (IBM part number: 1670)
RAID configuration	Versions 1 and 2: Two RAID 1 arrays Version 3: Two RAID 1 arrays
Total available disk space	Version 1: 134 GB after you remove four hard disks to support Connection 8.x, or 272 GB if you replace 72-GB hard disks with 146-GB hard disks to support Connection clusters Version 2: 134 GB, or 272 GB if you replace 72-GB hard disks with 146-GB hard disks to support Connection clusters Version 3: 272 GB
Hardware reconfiguration required	Version 1 servers require that you: • Remove 4 hard disks (shipped with 8 hard disks). • Replace the remaining 72 GB hard disks with 146 GB or larger hard disks. Version 2 servers require that you replace 72 GB hard disks with 146 GB or larger hard disks. Connection 8.6 and later only:All MCS 7845 servers must contain 6 GB of RAM
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Optional
Power supply	Redundant
Remote management	Remote Supervisor Adapter II Slimline
Total number of available ports (Voice + TTS + Voice recognition) per server	144
Total number of users with mailboxes	10,000
Number of Cisco Personal Communications Assistant users	10,000

Table 25   Cisco MCS 7845-I2 Media Convergence Servers (IBM) (continued)

Feature	Description
Total number of LDAP corporate directory users	10,000
Approximate message storage, G-711 codec, minutes	Versions 1 and 2: 97,500 Version 3: 240,000
Field-replaceable spares part numbers	Memory: MEM-7845-I2-2GB= Hard disk: HDD-7845-I2-72= and HDD-7845-I2-146= Power: PWR-7845-I2= Fan: FAN-7845-I2=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html

Cisco MCS 7845-H2 Media Convergence Servers (HP)

Revised June 23, 2010

Table 26 Cisco MCS 7845-H2 Media Convergence Servers

Feature	Description
Model numbers	Cisco, version 1: • MCS 7845-H2-UC1 • MCS 7845-H2-ECS1 Cisco, version 2: • MCS 7845-H2-ECS2 • MCS 7845-H2-K9-UCA1 Cisco, version 3: • MCS7845H2K9-UCA1A • MCS7845H2-K9-UCB1 HP DL380G5 Dual Processor
Supplier	Shipped by Cisco or provided by customer; manufactured by HP
Platform overlay	3
Form factor	Rack-mount
Mounting	2 RU
Processor(s)	Intel Dual-Core Xeon Woodcrest 2.33-GHz processor
RAM (as shipped)	4 GB
Hard disk	Version 1: Eight 72-GB hard disks Version 2: Four 72-GB hard disks Version 3: Four 146-GB hard disks
RAID controller	P400 controller (part number: 405132-B21)
RAID configuration	RAID 1
Total available disk space	Version 1: 134 GB after you remove four hard disks to support Connection 8.x, or 272 GB if you replace 72-GB hard disks with 146-GB hard disks to support Connection clusters Version 2: 134 GB, or 272 GB if you replace 72-GB hard disks with 146-GB hard disks to support Connection clusters Version 3: 272 GB
Hardware reconfiguration required	Version 1 servers require that you: • Remove 4 hard disks (shipped with 8 hard disks). • Replace the remaining 72 GB hard disks with 146 GB or larger hard disks. Version 2 servers require that you replace 72 GB hard disks with 146 GB or larger hard disks. Connection 8.6 and later only:All MCS 7845 servers must contain 6 GB of RAM.

Table 26 *Cisco MCS 7845-H2 Media Convergence Servers (continued)*

Feature	Description
Battery-backed write cache enabler (BBWC)	BBWC enabler (part number: 383280-B21)
CD-ROM or DVD-ROM drives	1 DVD-ROM drive
Tape drive	Optional
Power supply	Redundant
Remote management	Yes
Total number of available ports (Voice + TTS + Voice recognition) per server	144
Total number of users with mailboxes	10,000
Number of Cisco Personal Communications Assistant users	10,000
Total number of LDAP corporate directory users	10,000
Approximate message storage, G-711 codec, minutes	Versions 1 and 2: 97,500 Version 3: 240,000
Field-replaceable spares part numbers	Memory: MEM-7845-H2-1GB= Hard disk: HDD-7845-H2-72= and HDD-7845-H2-146= Power: PWR-7845-H2= Fan: FAN-7845-H2=
More information	http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/products_data_sheets_list.html