

Overview

Models

HP VCX V7005 Unified Communications Server	JC516A
HP VCX V7205 Unified Communications Server	JC517A
HP VCX V7205 Unified Communications Server	J9672A

Key features

- Flexible architecture for end-to-end survivability
- Centralized, Web-based administration of services
- Scalable from a few hundred to thousands of users
- Voice, video, and IM collaboration
- Microsoft OCS/Lync/Exchange UM interoperability

Product overview

The HP VCX V7000 Unified Communications Series is engineered for businesses to efficiently scale and support the most varied, collaborative work environments. From a single campus to a network of distributed users and sites, the series has a highly flexible, resilient architecture that provides a wealth of dependable deployment options that can support the Microsoft® OCS/Lync and Exchange UM interoperability and productivity requirements of thousands of users in order to drive down costs and improve overall operating efficiencies. With local survivable call control and real-time mirrored voicemail, the VCX V7000 series continually communicates and replicates configuration changes to safeguard mission-critical business operations by providing multiple layers of redundancy. The series design is agnostic to the underlying network infrastructure, enabling cost-effective installation and seamless central administration for a rapid return on investment and lasting investment protection.

Features and benefits

Resiliency and high availability

- **Enhanced high availability:** backup VCX systems, whether co-located with the primary VCX or deployed in another office on the same network, provide geographic survivability and rapid failover for mission-critical communications
- **Standard RAID disk:** helps ensure resiliency in the event of component failure (applicable to V7205 Unified Communications Server—JC517A)
- **Standard redundant power supply:** provides seamless business continuity and data protection (applicable to VCX V7205 Unified Communications Server—JC517A)
- **Optional RAID disk:** helps ensure resiliency in the event of component failure (applicable to V7005 Unified Communications Server—JC516A).

Configuration

- **Media gateway support:** streamlines migration to IP communications and provides PSTN connectivity with a full range of standalone VoIP gateways
- **Scheduled backups:** System Administration Web interface provides the ability to schedule static and reoccurring full system backups

Investment protection

- **Analog phone support:** leverage existing investment in analog phones while implementing a full set of PBX features

Ease of use



Overview

- **LDAP synchronization with Microsoft Active Directory, IBM Lotus Domino, and Linux OpenLDAP:** easily integrate, filter, and synchronize employee contact information, thereby simplifying administration and providing reliable connections based on the most current user information
- **Easy to use:** GUI-driven central management and configuration
- **Replication status:** System Administration Web interface displays the replication status of primary and secondary pair

Additional information

- **Optional mobility for telecommuters:** optional HP VCX IP Telecommuting Series allows remote users the full benefit of their corporate IP telephony system without compromising security
- **Optional multimedia conference bridge:** when businesses require a dense conferencing system to reduce the overhead and cost of expensive third-party conferencing products, then the HP VCX V7000 IP Conferencing Series is the choice; capabilities include host and participant Web-based conference controls, instant and emergency conferences with automatic dial-out options, scheduled and meet-me restricted conferences (requires participant passcode), peer-to-peer and one-to-many conferences, and more
- **Optional network management:** use the HP Intelligent Management Center (IMC) and Voice Services Manager (VSM) to configure, monitor, and optimize the performance of media servers, gateways, and endpoints; to monitor VoIP traffic; and to control voice network quality

Product architecture

- **Multisite architecture:** highly flexible architecture eliminates the dependency on any single component for unprecedented resiliency and end-to-end survivability; uses Web-based centralized administration, global directory, and global voicemail to seamlessly link VCX systems together to scale your IP-PBX network as your business grows
- **Standards-based IP-PBX:** support for standard PBX and advanced telephony and messaging features based on the IETF Session Initiation Protocol (SIP) standards; support for third-party SIP-based applications and devices
- **Unified functionality:** same feature set and administration interfaces for all VCX platforms, including region and branch
- **Direct SIP integration with Microsoft OCS/Lync and Exchange UM:** VCX direct SIP integration with Microsoft OCS/Lync allows VCX phones/clients to call and have basic features with phones/clients connected to OCS/Lync; similarly, OCS/Lync has access to VCX IP-PBX phones, clients, and gateways; VCX supports direct SIP integration with Microsoft Office Communication Server 2007, Office Communication Server 2007 R2, and Lync Server 2010

User productivity

- **Unified Communications:** increase employee collaboration through the audio, video, instant messaging, file sharing, and presence capabilities within the HP Desktop Communicator; extend the Microsoft environment with HP Desktop Communicator Outlook Edition add-on to enable click-to-call/conference via Microsoft Outlook, capture and retrieve call notes with Microsoft Journal, and perform desktop call recording; HP VCX is fully integrated with IBM Lotus Sametime
- **Unified Messaging:** consolidate user voicemail, email, and faxes into a single inbox for flexible, location-independent retrieval and management; schedule appropriate times when messages are delivered; send voicemails to individuals or groups using extensive and easy-to-maintain distribution lists; set up find me/follow me services to manage one's own access to help ensure that important calls are never missed; auto-deliver incoming fax calls to email and send faxes from email
- **Web user interface:** listen to and manage voicemail messages
- **IBM Lotus Domino/Sametime 8.5 support:** Sametime 8.5 introduces ability to deploy using a Sametime System Console and new meeting server functionality; VCX provides two packages for Sametime 8.5, Deploy on Sametime Community Server ("classic"—pre-8.5), or Deploy on Sametime Media Manager (for 8.5) using the system console

Voice functionality

- **Hot desking:** mobile users can effortlessly traverse within the VCX system, log into another handset, and have all their desktop extension settings, including voicemail, at their fingertips
- **Call admission control:** fine-tune and throttle media traffic to prevent VoIP oversubscription—even down to a particular



Overview

extension

- **PIN codes:** prevent unauthorized outbound dialing and/or manage and record telephony calls via forced account codes and customer account and billing codes; PIN code portability allows users to roam the VCX system and utilize their existing data
- **Hunt groups:** built-in call distribution provides agent log-in functionality; support for three selectable call-routing algorithms
- **Automatic call distribution:** add-on economical call center application that includes five selectable routing algorithms, the ability to capture real-time statistics, and support for remote agents in various VCX locations
- **Simultaneous Ring provides mobility for VCX users:** Simultaneous Ring feature allows a user to configure their external phone (such as cell phone) to simultaneously ring with their desktop VCX IP phone; users can answer the call at any of the ringing endpoints; when a user at one of the ringing endpoints answers the call, the other ringing endpoint stops ringing, allowing a user to be reached at two different locations by ringing both locations at the same time
- **350x IP phone background/screen saver image restore:** VCX Web interface provides the ability to reset the background/screen saver image to factory defaults on 350x IP phones; if an image is incorrect, VCX will display a notification to the administrator

Warranty and support

- **1-year warranty:** with advance replacement and 30-calendar-day delivery (available in most countries)
- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- **Software releases:** refer to: www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)



Technical Specifications

HP VCX V7005 Unified Communications Server (JC516A)

Ports	4 Hard drive bay slots 2 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 6 USB 2.0 1 Serial port
Physical characteristics	Dimensions 27.56(d) x 17.64(w) x 1.69(h) in. (70 x 44.81 x 4.29 cm) (1U height) Weight 38 lb. (17.24 kg) Shipping Weight
Memory and processor	Processor Intel® Xeon® X3430 (4 core) @ 2400 MHz, 2 GB DDR3 DIMM; storage: 3.5" 250 GB SATA HDD
Mounting	Mounts in EIA-standard 19 inch telco rack or equipment cabinet (hardware included)
Environment	Operating temperature 50°F to 90°F (10°C to 32°C); at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level Operating relative humidity 10% to 90% @ 82.4°F (28°C), noncondensing Nonoperating/Storage temperature -22°F to 149°F (-30°C to 65°C) Nonoperating/Storage relative humidity 5% to 95% @ 101.7°F (38.7°C), noncondensing Altitude up to 10,000 ft. (3 km)
Electrical characteristics	Voltage 100-240 VAC Power output 400 W Frequency 50/60 Hz Notes Supports 90-264 VAC @ 47-63 Hz; maximum peak power 430 W
Safety	IEC 60950-1; EN 60950-1
Emissions	FCC part 15 Class A; CISPR 22; EN 55022; EN 55024; CNS 13438; ICES-003
Notes	Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR-30 series analog, ISDN, and digital gateways
Services	3-year, parts only, global next-day advance exchange (UW162E) 3-year, 24x7 SW phone support, software updates (UW172E)

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Features	System Ad hoc conferencing Centralized management Call detail records Converged application-based architecture Emergency services End-to-end SIP signaling Global directory Global voicemail IP telephony IP unified messaging	Mute Paging (analog external paging system) Paging (group - zone) Paging (phone-to-phone), send beep with calling number Paging (SIP external paging system) Phone lock/unlock Privacy (block silent monitor/charge-in) Privacy (calling number suppression) Serial calling (transfer with callback) Silent monitor/charge-in
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Technical Specifications

Linux operating system with additional security
SIP back-to-back user Agent
Standards-based connectivity
System redundancy
Web services SDK
Direct SIP integration with Microsoft Lync and Exchange UM

Resiliency

Redundancy, IP telephony
Redundancy, IP messaging
Redundancy, IP phones and media gateways
Redundancy, optional RAID
Redundancy, optional power supply

System administration

Add VCX licenses
Administration access control
Administration secure access
Audit trails and logging enhancements
Command Line Interface
Configuration backup and restore
CPU, memory, I/O statistics
First-time configuration
First-time data import
Importing data
Installed component versions
Multiple administrators
Multiple language support
Online administrator help
Password support, administrator and system access
Provisioning; bulk moves, adds, changes
Remove previous software versions
Resetting a VCX server
Reset to defaults
Root directory access
Searches
Site configuration data
Software upgrades and rollbacks
Switch software versions
System information
User data LDAP synchronization: Lotus Domino running on IBM; Lotus Domino running on Windows® Server 2003, 2008; Microsoft Active Directory on Windows Server 2003, 2008; OpenLDAP on Linux
VCX service licensing
View VCX licensing data
Virtual numbers
Extensions and mailboxes can start with "0"
Selectively delete Future Delivery messages
Scheduled VCX backups

Simultaneous ringing allows for user mobility by ringing desk phone and cell phone
Speed dial (personal)
Speed dial (system)
Transfer to voicemail (direct)
Voicemail access
Warmline (warm ring down circuits)
ACD Agent licenses are assigned dynamically
ACD Agents can be automatically logged in

IP telephony routing

Calendar bands
Call admission control
Call blocking
Daytime bands
Dialing prefixes
Direct Inward Dialing (DID)
Direct Outward Dialing (DOD)
DNIS (Dialed Number Identification Service)
E.164 numbering plan
External directory access
Holidays
NANP support
Network abbreviated dialing
Number translations
Outdial patterns
Patterns
Prioritization of trunks/routes
Private line service
Requestors
Routes
Route (plans and plan wizard)
Routing (alternate)
Routing (blacklist)
Routing (call coverage)
Routing (first available)
Routing (global directory)
Routing (IP to PSTN)
Routing (IP to IP)
Routing (least cost)
Routing (PSTN to IP)
Routing (source based)
Routing (VPN numbering plan)
Routing (white list)
Trusted end points
Weekday bands
Extensions and mailboxes can start with "0"

IP messaging architectural

G.711
G.729
Global voicemail central server



Technical Specifications

350x IP Phone Background/Screen saver Image
reset to factory defaults via web

Quality of service

DSCP tagging
Dynamic jitter buffer
G.711 audio codec
G.729ab audio codec
Packet-loss rate
Pay-load length
QoS: 802.1p tagging (Prioritization)
QoS: 802.1Q tagging (VLAN)
Video codec
Video resolution
Wide-band audio codec

Security

Network security policies
Operating system security
Secure access
Security: Locking MAC addresses to switches
User authentication methods

System management

Alarm notification
Audio performance reporting (local)
Auto discovery and management of IP devices
Intelligent Management Center Voice Service
Manager: centralized management
Maintenance, graceful shutdown of services
Operating system updates
Quality of service end of call reporting
SNMP MIB access
SNMP traps
SNMPv1, v3
System backups
Scheduled VCX backups
QoS MIB and license MIB enhancements for IMC
VSM

Reporting

Call detail records (reporting)
Call detail records (structure)

IP telephony calling

AnoAnonymous all
Anonymous next
Anonymous call reject
Automatic call distribution (ACD)
ACD groups (call coverage)
ACD groups (calling groups)
ACD groups (CDR reporting)

Redundancy (intelligent mirroring)

IP messaging

Message annotation
Message append
Message auto-delivery
Message auto playback
Message broadcast
Message delete
Message delete retrieval
Message delivery report
Message delivery to nonsubscribers
Message deposit
Message deposit treatment options
Message folders
Message forward
Message notification
Message notification options
Message priority
Message record options
Message reply
Message retrieval
Message review
Message review options
Message review playback controls
Message save
Message schedule delivery
Message send
Message send treatment options
Mailbox login
Mailbox login
Voice Mail Return Receipts for full mailboxes
Voicemail .wav file name supports year, month,
day, time & callerID
Web Pagination Support
IPM Button Map Page
IPM MWI Active function

Greeting

Default system greeting
Personal busy greeting
Personal extended absence greeting
Personal normal greeting
Personal scheduled greetings

Distribution list

Administrator distribution lists
Personal distribution lists
System distribution lists

Directory

Directory search



Technical Specifications

- ACD groups (circular)
- ACD groups (feature interactions)
- ACD groups (least-call count)
- ACD groups (linear)
- ACD groups (login/logout)
- ACD groups (malicious call trace)
- ACD groups (message-waiting indication)
- ACD groups (most idle agent)
- ACD groups (multisite)
- ACD groups (real-time statistics)
- ACD groups (view ACD group status)
- Automatic line selection (Multiple system appearance)
- Bridged line appearance
- Bridge line appearance (MWI)
- Bridge line appearance (shared hold)
- Busy lamp field
- Call conference (drop)
- Call conference (six-way calling)
- Call conference (three-way calling)
- Call coverage
- Call drop
- Call duration display
- Call forward all (universal)
- Call forward busy
- Call forward no answer
- Call forward out-of-coverage
- Call forward programmable
- Call forward reminder
- Call forward remote
- Call history (missed/answered/placed logs)
- Call history display sort
- Call hold
- Call hold reminder
- Call park/retrieve
- Call park (button mapping)
- Call park (fallback)
- Call pick-up (directed)
- Call pick-up (group)
- Call restrictions (black list)
- Call restrictions (blocking inbound)
- Call restrictions (blocking outbound)
- Call restrictions (call screening)
- Call restrictions (forward to trunk)
- Call restrictions (toll screening)
- Call restrictions (transfer to trunk)
- Call restrictions (white list)
- Call return
- Call transfer (attended)
- Call transfer (fallback on transfer failure)
- Call transfer (unattended)
- Call transfer (restrictions)

- Directory search (dial-by-name)

User productivity

- Auto attendants
- Bulletin board
- Call back
- Call monitor
- Family mailbox
- Force password change
- Listen and manage voicemail messages from Web user interface
- Mailbox alias
- Mailbox auto login
- Mailbox full alert
- Mailboxes for announcements
- Mailboxes for forms (Q&A)
- Mailboxes for information
- Mailboxes for surveys
- Mailboxes for system bulletins/broadcasts
- Message-waiting indication
- Music-on-hold
- Outline help
- Personal address book
- Personal auto-attendant
- Privacy
- Prompt bypass
- Setup assistant tutorial
- Shortcut keys
- User password change
- User provisioning through TUI
- User provisioning through Web
- Virtual calling card
- Zero out

Find me/follow me

- Find me/follow me
- Find me/follow me call intercept

Fax mail

- Electronic fax sending
- Fax auto-delivery to email
- Fax auto-delivery to fax machine
- Fax delivery to fax machine
- Fax message deposit
- Fax message retrieval
- Never-busy fax

Email integration

- Client integration
- Email auto delivery
- Email integration
- Email synchronization



Technical Specifications

Call waiting
Caller ID (called party)
Caller ID (calling party number)
Caller ID (calling party name)
Caller ID (privacy)
Camp on busy (automatic call back)
Class of service override
Customer account and billing codes
Delayed or no ringing
Directory (local user)
Directory (global user)
Distinctive ringing, ring patterns (different call types)
Distinctive ringing, selective ringing (ident-a-call)
Do not disturb
DTMF dialing
Feature codes
Feature access codes
Forced account codes
Forward to mail
Hands-free support
Hotline (hot ring down circuits)
Hunt groups
Hunt groups (call coverage)
Hunt groups (calling group)
Hunt groups (circular)
Hunt groups (feature interactions)
Hunt groups (linear)
Hunt groups (login/logout)
Hunt groups (malicious call trace)
Hunt groups (message-waiting indication)
Hunt groups (multisite)
Hunt groups (view hunt group status)
Last number redial
Malicious call trace
Message-waiting indication (MWI), audio
Message-waiting indication (MWI), visual
Missed call indicator
Mobility (multisite hot desking)
Mobility (single-region hot desking)
Music on hold

Fax attachment in email (.tif or .pdf formats)
Unified inbox for Domino on Windows
Voicemail POP3/IMAP4 client integration
Integration with Microsoft Exchange Unified Messaging

IP messaging administration

Administration of all parameters through X-terminal interface
Class of service administration
Company/division administration
Export mailbox/COS
Import mailbox/COS
IMAP SSLv3 support
IP messaging Web portal
Mailbox administration
Mailbox on-the-fly
Mailbox un-login
Multiple administration
Multiple language support
Multiple permission levels
Pager templates
Send-user groups
Support for multi-language voicemail
Telephone user interface (native)
Telephone user interface (traditional)
Time zones
Upload audio files via Web interface
VPM support

IP messaging management

System alarms
System backup
System restoration
System status
Selective deletion of messages via web
Voice mail full return receipt support

Language support

Chinese (Mandarin), Dutch, English (Australian, UK and US), French (Canadian and Parisian), German, Italian, Korean, Portuguese (Brazilian), Russian and Spanish (Castilian and LAT)



Technical Specifications

HP VCX V7205 Unified Communications Server (JC517A)

Ports	4 Hard drive bay slots 2 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 3 USB 2.0 1 Serial port																				
Physical characteristics	Dimensions 27.25(d) x 16.78(w) x 1.70(h) in. (69.22 x 42.62 x 4.32 cm) (1U height) Weight 44 lb. (19.96 kg) Shipping Weight																				
Memory and processor	Processor Intel® Xeon® E5530 (4 core) @ 2400 MHz, 6 GB DDR3 DIMM; storage: 2.5" 146 GB SAS HDD																				
Mounting	Mounts in EIA-standard 19 inch telco rack or equipment cabinet (hardware included)																				
Environment	Operating temperature 50°F to 95°F (10°C to 35°C); at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level Operating relative humidity 10% to 90% @ 82.4°F (28°C), noncondensing Nonoperating/Storage temperature -40°F to 158°F (-40°C to 70°C) Nonoperating/Storage relative humidity 5% to 95% @ 101.7°F (38.7°C), noncondensing Altitude up to 10,000 ft. (3 km)																				
Electrical characteristics	Voltage 100-240 VAC Power output 460 W Frequency 50/60 Hz																				
Safety	IEC 60950-1; EN 60950-1																				
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Notes	Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR-30 Series analog, ISDN, and digital gateways Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR-30 Series analog, ISDN, and digital gateways Ships with redundant Power Supply and RAID drive																				
Services	3-year, parts only, global next-day advance exchange (UW162E) 3-year, 24x7 SW phone support, software updates (UW172E)																				
	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.																				
Features	<table><tr><td>System</td><td>Mute</td></tr><tr><td>Ad hoc conferencing</td><td>Paging (analog external paging system)</td></tr><tr><td>Centralized management</td><td>Paging (group - zone)</td></tr><tr><td>Call detail records</td><td>Paging (phone-to-phone), send beep with calling number</td></tr><tr><td>Converged application-based architecture</td><td></td></tr><tr><td>Emergency services</td><td>Paging (SIP external paging system)</td></tr><tr><td>End-to-end SIP signaling</td><td>Phone lock/unlock</td></tr><tr><td>Global directory</td><td>Privacy (block silent monitor/berge-in)</td></tr><tr><td>Global voicemail</td><td>Privacy (calling number suppression)</td></tr><tr><td>IP telephony</td><td>Serial calling (transfer with callback)</td></tr></table>	System	Mute	Ad hoc conferencing	Paging (analog external paging system)	Centralized management	Paging (group - zone)	Call detail records	Paging (phone-to-phone), send beep with calling number	Converged application-based architecture		Emergency services	Paging (SIP external paging system)	End-to-end SIP signaling	Phone lock/unlock	Global directory	Privacy (block silent monitor/berge-in)	Global voicemail	Privacy (calling number suppression)	IP telephony	Serial calling (transfer with callback)
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IP telephony	Serial calling (transfer with callback)																				



Technical Specifications

- IP unified messaging
- Linux operating system with additional security
- SIP back-to-back user Agent
- Standards-based connectivity
- System redundancy
- Web services SDK
- Direct SIP integration with Microsoft Lync and Exchange UM

Resiliency

- Redundancy, IP telephony
- Redundancy, IP messaging
- Redundancy, IP phones and media gateways
- Redundancy, optional RAID
- Redundancy, optional power supply

System administration

- Add VCX licenses
- Administration access control
- Administration secure access
- Audit trails and logging enhancements
- Command Line Interface
- Configuration backup and restore
- CPU, memory, I/O statistics
- First-time configuration
- First-time data import
- Importing data
- Installed component versions
- Multiple administrators
- Multiple language support
- Online administrator help
- Password support, administrator and system access
- Provisioning; bulk moves, adds, changes
- Remove previous software versions
- Resetting a VCX server
- Reset to defaults
- Root directory access
- Searches
- Site configuration data
- Software upgrades and rollbacks
- Switch software versions
- System information
- User data LDAP synchronization: Lotus Domino running on IBM; Lotus Domino running on Windows® Server 2003, 2008; Microsoft Active Directory on Windows Server 2003, 2008; OpenLDAP on Linux
- VCX service licensing
- View VCX licensing data
- Virtual numbers
- Extensions and mailboxes can start with "0"
- Selectively delete Future Delivery messages

- Silent monitor/barge-in
- Simultaneous ringing allows for user mobility by ringing desk phone and cell phone
- Speed dial (personal)
- Speed dial (system)
- Transfer to voicemail (direct)
- Voicemail access
- Warmline (warm ring down circuits)
- ACD Agent licenses are assigned dynamically
- ACD Agents can be automatically logged in

IP telephony routing

- Calendar bands
- Call admission control
- Call blocking
- Daytime bands
- Dialing prefixes
- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- DNIS (Dialed Number Identification Service)
- E.164 numbering plan
- External directory access
- Holidays
- NANP support
- Network abbreviated dialing
- Number translations
- Outdial patterns
- Patterns
- Prioritization of trunks/routes
- Private line service
- Requestors
- Routes
- Route (plans and plan wizard)
- Routing (alternate)
- Routing (blacklist)
- Routing (call coverage)
- Routing (first available)
- Routing (global directory)
- Routing (IP to PSTN)
- Routing (IP to IP)
- Routing (least cost)
- Routing (PSTN to IP)
- Routing (source based)
- Routing (VPN numbering plan)
- Routing (white list)
- Trusted end points
- Weekday bands
- Extensions and mailboxes can start with "0"

IP messaging architectural

- G.711
- G.729



Technical Specifications

Scheduled VCX backups
350x IP Phone Background/Screen saver Image
reset to factory defaults via web

Quality of service

DSCP tagging
Dynamic jitter buffer
G.711 audio codec
G.729ab audio codec
Packet-loss rate
Pay-load length
QoS: 802.1p tagging (Prioritization)
QoS: 802.1Q tagging (VLAN)
Video codec
Video resolution
Wide-band audio codec

Security

Network security policies
Operating system security
Secure access
Security: Locking MAC addresses to switches
User authentication methods

System management

Alarm notification
Audio performance reporting (local)
Auto discovery and management of IP devices
Intelligent Management Center Voice Service
Manager: centralized management
Maintenance, graceful shutdown of services
Operating system updates
Quality of service end of call reporting
SNMP MIB access
SNMP traps
SNMPv1, v3
System backups
Scheduled VCX backups
QoS MIB and license MIB enhancements for IMC
VSM

Reporting

Call detail records (reporting)
Call detail records (structure)

IP telephony calling

AnoAnonymous all
Anonymous next
Anonymous call reject
Automatic call distribution (ACD)
ACD groups (call coverage)
ACD groups (calling groups)

Global voicemail central server
Redundancy (intelligent mirroring)

IP messaging

Message annotation
Message append
Message auto-delivery
Message auto playback
Message broadcast
Message delete
Message delete retrieval
Message delivery report
Message delivery to nonsubscribers
Message deposit
Message deposit treatment options
Message folders
Message forward
Message notification
Message notification options
Message priority
Message record options
Message reply
Message retrieval
Message review
Message review options
Message review playback controls
Message save
Message schedule delivery
Message send
Message send treatment options
Mailbox login
Mailbox login
Voice Mail Return Receipts for full mailboxes
Voicemail .wav file name supports year, month,
day, time & callerID
Web Pagination Support
IPM Button Map Page
IPM MWI Active function

Greeting

Default system greeting
Personal busy greeting
Personal extended absence greeting
Personal normal greeting
Personal scheduled greetings

Distribution list

Administrator distribution lists
Personal distribution lists
System distribution lists

Directory



Technical Specifications

- ACD groups (CDR reporting)
- ACD groups (circular)
- ACD groups (feature interactions)
- ACD groups (least-call count)
- ACD groups (linear)
- ACD groups (login/logout)
- ACD groups (malicious call trace)
- ACD groups (message-waiting indication)
- ACD groups (most idle agent)
- ACD groups (multisite)
- ACD groups (real-time statistics)
- ACD groups (view ACD group status)
- Automatic line selection (Multiple system appearance)
- Bridged line appearance
- Bridge line appearance (MWI)
- Bridge line appearance (shared hold)
- Busy lamp field
- Call conference (drop)
- Call conference (six-way calling)
- Call conference (three-way calling)
- Call coverage
- Call drop
- Call duration display
- Call forward all (universal)
- Call forward busy
- Call forward no answer
- Call forward out-of-coverage
- Call forward programmable
- Call forward reminder
- Call forward remote
- Call history (missed/answered/placed logs)
- Call history display sort
- Call hold
- Call hold reminder
- Call park/retrieve
- Call park (button mapping)
- Call park (fallback)
- Call pick-up (directed)
- Call pick-up (group)
- Call restrictions (black list)
- Call restrictions (blocking inbound)
- Call restrictions (blocking outbound)
- Call restrictions (call screening)
- Call restrictions (forward to trunk)
- Call restrictions (toll screening)
- Call restrictions (transfer to trunk)
- Call restrictions (white list)
- Call return
- Call transfer (attended)
- Call transfer (fallback on transfer failure)
- Call transfer (unattended)

- Directory search
- Directory search (dial-by-name)

User productivity

- Auto attendants
- Bulletin board
- Call back
- Call monitor
- Family mailbox
- Force password change
- Listen and manage voicemail messages from Web user interface
- Mailbox alias
- Mailbox auto login
- Mailbox full alert
- Mailboxes for announcements
- Mailboxes for forms (Q&A)
- Mailboxes for information
- Mailboxes for surveys
- Mailboxes for system bulletins/broadcasts
- Message-waiting indication
- Music-on-hold
- Outline help
- Personal address book
- Personal auto-attendant
- Privacy
- Prompt bypass
- Setup assistant tutorial
- Shortcut keys
- User password change
- User provisioning through TUI
- User provisioning through Web
- Virtual calling card
- Zero out

Find me/follow me

- Find me/follow me
- Find me/follow me call intercept

Fax mail

- Electronic fax sending
- Fax auto-delivery to email
- Fax auto-delivery to fax machine
- Fax delivery to fax machine
- Fax message deposit
- Fax message retrieval
- Never-busy fax

Email integration

- Client integration
- Email auto delivery
- Email integration



Technical Specifications

- Call transfer (restrictions)
- Call waiting
- Caller ID (called party)
- Caller ID (calling party number)
- Caller ID (calling party name)
- Caller ID (privacy)
- Camp on busy (automatic call back)
- Class of service override
- Customer account and billing codes
- Delayed or no ringing
- Directory (local user)
- Directory (global user)
- Distinctive ringing, ring patterns (different call types)
- Distinctive ringing, selective ringing (ident-a-call)
- Do not disturb
- DTMF dialing
- Feature codes
- Feature access codes
- Forced account codes
- Forward to mail
- Hands-free support
- Hotline (hot ring down circuits)
- Hunt groups
- Hunt groups (call coverage)
- Hunt groups (calling group)
- Hunt groups (circular)
- Hunt groups (feature interactions)
- Hunt groups (linear)
- Hunt groups (login/logout)
- Hunt groups (malicious call trace)
- Hunt groups (message-waiting indication)
- Hunt groups (multisite)
- Hunt groups (view hunt group status)
- Last number redial
- Malicious call trace
- Message-waiting indication (MWI), audio
- Message-waiting indication (MWI), visual
- Missed call indicator
- Mobility (multisite hot desking)
- Mobility (single-region hot desking)
- Music on hold

- Email synchronization
- Fax attachment in email (.tif or .pdf formats)
- Unified inbox for Domino on Windows
- Voicemail POP3/IMAP4 client integration
- Integration with Microsoft Exchange Unified Messaging

IP messaging administration

- Administration of all parameters through X-terminal interface
- Class of service administration
- Company/division administration
- Export mailbox/COS
- Import mailbox/COS
- IMAP SSLv3 support
- IP messaging Web portal
- Mailbox administration
- Mailbox on-the-fly
- Mailbox un-login
- Multiple administration
- Multiple language support
- Multiple permission levels
- Pager templates
- Send-user groups
- Support for multi-language voicemail
- Telephone user interface (native)
- Telephone user interface (traditional)
- Time zones
- Upload audio files via Web interface
- VPM support

IP messaging management

- System alarms
- System backup
- System restoration
- System status
- Selective deletion of messages via web
- Voice mail full return receipt support

Language support

Chinese (Mandarin), Dutch, English (Australian, UK and US), French (Canadian and Parisian), German, Italian, Korean, Portuguese (Brazilian), Russian and Spanish (Castilian and LAT)



Technical Specifications

HP VCX V7205 Unified Communications Server (J9672A)

Ports	4 SAS hard drive bay slots 4 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 3 USB 2.0 1 Serial port
Physical characteristics	Dimensions 27.25(d) x 16.78(w) x 1.70(h) in. (69.22 x 42.62 x 4.32 cm) (1U height) Weight 34 lb. (15.42 kg)
Memory and processor	Processor Intel® Xeon® E5630 (4 core) @ 2530 MHz, 6 GB DDR3 DIMM; storage: 2.5 in. 146 GB SAS HDD; quantity: 2
Mounting	Mounts in EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
Environment	Operating temperature 50°F to 95°F (10°C to 35°C); at sea level with an altitude derating of 1.0°C per every 305 m (1.8° F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft) Operating relative humidity 10% to 90% @ 82.4°F (28°C), noncondensing Nonoperating/Storage temperature -40°F to 158°F (-40°C to 70°C) Nonoperating/Storage relative humidity 5% to 95% @ 101.7°F (38.7°C), noncondensing Altitude up to 10,000 ft. (3 km)
Electrical characteristics	Voltage 100-240 VAC Power output 460 W Frequency 50/60 Hz Notes A redundant 460 W hot-plug power supply is also installed
Safety	IEC 60950-1; EN 60950-1
Emissions	FCC part 15 Class A; CISPR 22; EN 55022; EN 55024; CNS 13438; ICES-003
Notes	Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR-30 Series analog, ISDN, and digital gateways Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR-30 Series analog, ISDN, and digital gateways Ships with redundant Power Supply and RAID drive
Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
Features	System Ad hoc conferencing Centralized management Call detail records Converged application-based architecture Emergency services End-to-end SIP signaling Global directory Global voicemail IP telephony Mute Paging (analog external paging system) Paging (group - zone) Paging (phone-to-phone), send beep with calling number Paging (SIP external paging system) Phone lock/unlock Privacy (block silent monitor/berge-in) Privacy (calling number suppression) Serial calling (transfer with callback)



Technical Specifications

- IP unified messaging
- Linux operating system with additional security
- SIP back-to-back user Agent
- Standards-based connectivity
- System redundancy
- Web services SDK
- Direct SIP integration with Microsoft Lync and Exchange UM

Resiliency

- Redundancy, IP telephony
- Redundancy, IP messaging
- Redundancy, IP phones and media gateways
- Redundancy, optional RAID
- Redundancy, optional power supply

System administration

- Add VCX licenses
- Administration access control
- Administration secure access
- Audit trails and logging enhancements
- Command Line Interface
- Configuration backup and restore
- CPU, memory, I/O statistics
- First-time configuration
- First-time data import
- Importing data
- Installed component versions
- Multiple administrators
- Multiple language support
- Online administrator help
- Password support, administrator and system access
- Provisioning; bulk moves, adds, changes
- Remove previous software versions
- Resetting a VCX server
- Reset to defaults
- Root directory access
- Searches
- Site configuration data
- Software upgrades and rollbacks
- Switch software versions
- System information
- User data LDAP synchronization: Lotus Domino running on IBM; Lotus Domino running on Windows® Server 2003, 2008; Microsoft Active Directory on Windows Server 2003, 2008; OpenLDAP on Linux
- VCX service licensing
- View VCX licensing data
- Virtual numbers
- Extensions and mailboxes can start with "0"
- Selectively delete Future Delivery messages

- Silent monitor/barge-in
- Simultaneous ringing allows for user mobility by ringing desk phone and cell phone
- Speed dial (personal)
- Speed dial (system)
- Transfer to voicemail (direct)
- Voicemail access
- Warmline (warm ring down circuits)
- ACD Agent licenses are assigned dynamically
- ACD Agents can be automatically logged in

IP telephony routing

- Calendar bands
- Call admission control
- Call blocking
- Daytime bands
- Dialing prefixes
- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- DNIS (Dialed Number Identification Service)
- E.164 numbering plan
- External directory access
- Holidays
- NANP support
- Network abbreviated dialing
- Number translations
- Outdial patterns
- Patterns
- Prioritization of trunks/routes
- Private line service
- Requestors
- Routes
- Route (plans and plan wizard)
- Routing (alternate)
- Routing (blacklist)
- Routing (call coverage)
- Routing (first available)
- Routing (global directory)
- Routing (IP to PSTN)
- Routing (IP to IP)
- Routing (least cost)
- Routing (PSTN to IP)
- Routing (source based)
- Routing (VPN numbering plan)
- Routing (white list)
- Trusted end points
- Weekday bands
- Extensions and mailboxes can start with "0"

IP messaging architectural

- G.711
- G.729



Technical Specifications

Scheduled VCX backups
350x IP Phone Background/Screen saver Image
reset to factory defaults via web

Quality of service

DSCP tagging
Dynamic jitter buffer
G.711 audio codec
G.729ab audio codec
Packet-loss rate
Pay-load length
QoS: 802.1p tagging (Prioritization)
QoS: 802.1Q tagging (VLAN)
Video codec
Video resolution
Wide-band audio codec

Security

Network security policies
Operating system security
Secure access
Security: Locking MAC addresses to switches
User authentication methods

System management

Alarm notification
Audio performance reporting (local)
Auto discovery and management of IP devices
Intelligent Management Center Voice Service
Manager: centralized management
Maintenance, graceful shutdown of services
Operating system updates
Quality of service end of call reporting
SNMP MIB access
SNMP traps
SNMPv1, v3
System backups
Scheduled VCX backups
QoS MIB and license MIB enhancements for IMC
VSM

Reporting

Call detail records (reporting)
Call detail records (structure)

IP telephony calling

AnoAnonymous all
Anonymous next
Anonymous call reject
Automatic call distribution (ACD)
ACD groups (call coverage)
ACD groups (calling groups)

Global voicemail central server
Redundancy (intelligent mirroring)

IP messaging

Message annotation
Message append
Message auto-delivery
Message auto playback
Message broadcast
Message delete
Message delete retrieval
Message delivery report
Message delivery to nonsubscribers
Message deposit
Message deposit treatment options
Message folders
Message forward
Message notification
Message notification options
Message priority
Message record options
Message reply
Message retrieval
Message review
Message review options
Message review playback controls
Message save
Message schedule delivery
Message send
Message send treatment options
Mailbox login
Mailbox login
Voice Mail Return Receipts for full mailboxes
Voicemail .wav file name supports year, month,
day, time & callerID
Web Pagination Support
IPM Button Map Page
IPM MWI Active function

Greeting

Default system greeting
Personal busy greeting
Personal extended absence greeting
Personal normal greeting
Personal scheduled greetings

Distribution list

Administrator distribution lists
Personal distribution lists
System distribution lists

Directory



Technical Specifications

ACD groups (CDR reporting)	Directory search
ACD groups (circular)	Directory search (dial-by-name)
ACD groups (feature interactions)	
ACD groups (least-call count)	User productivity
ACD groups (linear)	Auto attendants
ACD groups (login/logout)	Bulletin board
ACD groups (malicious call trace)	Call back
ACD groups (message-waiting indication)	Call monitor
ACD groups (most idle agent)	Family mailbox
ACD groups (multisite)	Force password change
ACD groups (real-time statistics)	Listen and manage voicemail messages from Web user interface
ACD groups (view ACD group status)	Mailbox alias
Automatic line selection (Multiple system appearance)	Mailbox auto login
Bridged line appearance	Mailbox full alert
Bridge line appearance (MWI)	Mailboxes for announcements
Bridge line appearance (shared hold)	Mailboxes for forms (Q&A)
Busy lamp field	Mailboxes for information
Call conference (drop)	Mailboxes for surveys
Call conference (six-way calling)	Mailboxes for system bulletins/broadcasts
Call conference (three-way calling)	Message-waiting indication
Call coverage	Music-on-hold
Call drop	Outline help
Call duration display	Personal address book
Call forward all (universal)	Personal auto-attendant
Call forward busy	Privacy
Call forward no answer	Prompt bypass
Call forward out-of-coverage	Setup assistant tutorial
Call forward programmable	Shortcut keys
Call forward reminder	User password change
Call forward remote	User provisioning through TUI
Call history (missed/answered/placed logs)	User provisioning through Web
Call history display sort	Virtual calling card
Call hold	Zero out
Call hold reminder	
Call park/retrieve	Find me/follow me
Call park (button mapping)	Find me/follow me
Call park (fallback)	Find me/follow me call intercept
Call pick-up (directed)	
Call pick-up (group)	Fax mail
Call restrictions (black list)	Electronic fax sending
Call restrictions (blocking inbound)	Fax auto-delivery to email
Call restrictions (blocking outbound)	Fax auto-delivery to fax machine
Call restrictions (call screening)	Fax delivery to fax machine
Call restrictions (forward to trunk)	Fax message deposit
Call restrictions (toll screening)	Fax message retrieval
Call restrictions (transfer to trunk)	Never-busy fax
Call restrictions (white list)	
Call return	Email integration
Call transfer (attended)	Client integration
Call transfer (fallback on transfer failure)	Email auto delivery
Call transfer (unattended)	Email integration



Technical Specifications

- Call transfer (restrictions)
- Call waiting
- Caller ID (called party)
- Caller ID (calling party number)
- Caller ID (calling party name)
- Caller ID (privacy)
- Camp on busy (automatic call back)
- Class of service override
- Customer account and billing codes
- Delayed or no ringing
- Directory (local user)
- Directory (global user)
- Distinctive ringing, ring patterns (different call types)
- Distinctive ringing, selective ringing (ident-a-call)
- Do not disturb
- DTMF dialing
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- Feature access codes
- Forced account codes
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- Hunt groups (call coverage)
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- Mobility (single-region hot desking)
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- Integration with Microsoft Exchange Unified Messaging

IP messaging administration

- Administration of all parameters through X-terminal interface
- Class of service administration
- Company/division administration
- Export mailbox/COS
- Import mailbox/COS
- IMAP SSLv3 support
- IP messaging Web portal
- Mailbox administration
- Mailbox on-the-fly
- Mailbox un-login
- Multiple administration
- Multiple language support
- Multiple permission levels
- Pager templates
- Send-user groups
- Support for multi-language voicemail
- Telephone user interface (native)
- Telephone user interface (traditional)
- Time zones
- Upload audio files via Web interface
- VPM support

IP messaging management

- System alarms
- System backup
- System restoration
- System status
- Selective deletion of messages via web
- Voice mail full return receipt support

Language support

Chinese (Mandarin), Dutch, English (Australian, UK and US), French (Canadian and Parisian), German, Italian, Korean, Portuguese (Brazilian), Russian and Spanish (Castilian and LAT)



Accessories

HP VCX V7000 Unified Communications Series accessories	Modules	
	HP VCX V7005/VCX Connect 200 DL120 G6 250G 3.5" Spare RAID Disk	JC521A
	HP VCX V7205 DL360 G6 G7 146G 2.5 Spare RAID Disk	JC523A
	NEW HP VCX V7205 146GB SFF (2.5-inch) 360G7 Spare Hard Drive	JC746A
	License	
	HP VCX IP Telephony and IP Messaging 9.x Server License E-LTU	JE440BAE
	HP VCX IP Telephony/Call Processor 9.x Server License E-LTU	JE438BAE
	HP VCX IP Messaging/GVMCS 9.x Server License E-LTU	JE432BAE
	HP VCX CDR 9.x Server License E-LTU	JE428BAE
	HP VCX Data (Authentication and Directory) Server License E-LTU	JE430BAE
	HP VCX Business IP Phone License E-LTU	JE427BAE
	HP VCX Basic IP Phone License E-LTU	JE426BAE
	HP VCX Third Party IP Phone License E-LTU	JE444BAE
	HP VCX Business IP Phone License 50 Bundle E-LTU	JE332BAE
	HP VCX Basic IP Phone License 50 Bundle E-LTU	JE329BAE
	HP VCX Business IP Phone License 250 Bundle E-LTU	JE331BAE
	HP VCX Basic IP Phone License 250 Bundle E-LTU	JE328BAE
	HP VCX Business IP Phone License 1000 Bundle E-LTU	JE330BAE
	HP VCX Basic IP Phone License 1000 Bundle E-LTU	JE327BAE
	HP VCX Entry/Analog Phone License E-LTU	JE425BAE
	HP VCX IP Messaging Seat License E-LTU	JE301BAE
	HP VCX IP Messaging Seat License 50 Bundle E-LTU	JC515BAE
	HP VCX IP Messaging Seat License 250 Bundle E-LTU	JC514BAE
	HP VCX IP Messaging Seat License 1000 Bundle E-LTU	JC513BAE
	HP VCX Desktop Communicator Standalone Soft Phone License E-LTU	JE435BAE
	HP VCX Desktop Communicator Outlook Edition Standalone Soft Phone License E-LTU	JE436BAE
	HP VCX Desktop Communicator to Outlook Edition Upgrade Soft Phone License E-LTU	JE437BAE
	HP VCX Desktop Communicator Soft Phone License 50 Bundle E-LTU	JE334BAE
	HP VCX Desktop Communicator Outlook Edition Soft Phone License 50 Bundle E-LTU	JE336BAE
	HP VCX Desktop Communicator Soft Phone License 250 Bundle E-LTU	JE333BAE
	HP VCX Desktop Communicator Outlook Edition Soft Phone License 250 Bundle E-LTU	JE335BAE
	HP VCX Convergence Center Client Standalone License E-LTU	JE434BAE
	HP VCX ACD Agent License E-LTU	JE422BAE
	HP VCX ACD 10 Agent License E-LTU	JE423BAE
	HP VCX ACD 5 Agent License E-LTU	JE424BAE
	HP VCX V7205 Unified Communications Server	
	HP VCX V7205 DL360 G6 G7 146G 2.5 Spare RAID Disk	JC523A



Accessories

To learn more, visit: www.hp.com/networking

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