

Overview

Models

HP VCX Connect 200 Unified Communications Primary Server

JC518A

HP VCX Connect 200 Unified Communications Secondary Server

JC519A

Key features

- Cost-effective, enterprise-class VoIP platform
- Built-in phone, messaging, and softphone licenses
- Resiliency with optional redundant server
- Voice, video, IM, MS OCS/Lync, Exchange UM support
- Support for up to 3,000 users with six servers

Product overview

HP VCX Connect 200 Unified Communications series delivers an enterprise-class, full-featured VoIP phone system designed to cost-effectively meet the rugged, collaborative work environments of small- to medium-sized enterprises. Utilizing an extremely resilient architecture, VCX Connect 200 delivers highly available, high-performance telephony and desktop communications. For organizations with up to 500 phone users, VCX Connect 200 offers an economical IP telephony/messaging solution that delivers Microsoft® OCS/Lync and Exchange UM interoperability. The platform's flexible, intuitive design and management help businesses replace legacy PBXs with SIP-based VoIP solutions that provide a full range of collaborative functionality—including click-to-call, presence, instant messaging, mobility, and unified voicemail/email messaging. Support for standalone VCX V7111, VCX V7122, MSR 20-xx, and MSR 30 series analog, ISDN, and digital gateways are available as well to complement a solution.

Features and benefits

Resiliency and high availability

- **Enhanced high availability:** optional 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
- **Optional RAID disk:** helps ensure resiliency in the event of a component failure

Configuration

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

Investment protection

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

Ease of use

- **Built-in licensing:** VCX system ships with default licenses—VCX IP Telephony/IP Messaging Server license, 25 business phone licenses, 25 IP messaging seat licenses, 25 Desktop Communicator softphone licenses, 25 Convergence Client softphone licenses, and 4 analog/entry licenses
- **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



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most current user information

- **Ease of deployment:** the VCX Connect 200 platform's out-of-the-box first-time configuration provides simpler installations using a Web-based, wizard-like interface that walks you through the installation process
- **Easy to use:** GUI-driven central management and configuration
- **NEW Replication status:** System Administration Web interface displays the replication status of primary and secondary pairs

Scalability

- **Supported devices:** let you pay as you grow up to 500 devices per platform and up to 3,000 devices in total via VCX global directory, which enables up to six VCX Connect 200 platforms to function as a single system

Additional information

- **Optional mobility for telecommuters:** optional HP VCX IP Telecommuting series provides remote users with the full benefit of their corporate IP telephony systems without compromising security
- **Optional multimedia conference bridge:** when businesses require a dense conferencing system to reduce the overhead and the cost of expensive third-party conferencing products, the HP VCX V7000 IP Conferencing series provides capabilities that 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:** uses the HP Intelligent Management Center (IMC) and Voice Services Manager (VSM) to configure, monitor, and enhance the performance of media servers, gateways, and endpoints; to monitor VoIP traffic; and to control voice network quality; enhancements for IMC VSM include MOS scoring and packet loss notification MIB changes; the VCX license MIBs support IMC

Product architecture

- **Multisite architecture:** a 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:** supports standard PBX and advanced telephony and messaging features based on the IETF Session Initiation Protocol (SIP) standards; supports third-party SIP-based applications and devices
- **Integrated server:** IP telephony and IP messaging modules run on Linux OS
- **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; OCS/Lync has access to VCX IP-PBX phones, clients, and gateways; VCX supports direct SIP integration with Office Communication Server 2007, Office Communication Server 2007 R2, and Microsoft Lync Server 2010

Technical features

- **Ad hoc conferencing:** VCX Connect 200 supports up to 30 sessions of ad hoc conferencing with a maximum of six parties per conference
- **Shared lines and extension status:** provide single-line and multi-line phone support and bridged extensions for executives and administrators

User productivity

- **Unified communications:** increases employee collaboration through the audio, video, instant messaging, file sharing, and presence capabilities within the HP Desktop Communicator; extends the Microsoft environment with HP Desktop Communicator Outlook Edition add-on to enable click-to-call/conference via Microsoft Outlook, to capture and retrieve call notes with Microsoft Journal, and to perform desktop call recording; HP VCX is fully integrated with Lotus Sametime
- **Unified messaging:** consolidates users' voicemail, email, and faxes into a single inbox for flexible, location-independent retrieval and management; schedules appropriate times when messages are delivered; sends voicemails to individuals or



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groups using extensive and easy-to-maintain distribution lists; sets up find me/follow me services to conveniently manage one's own access to help ensure that important calls are not missed; auto-delivers incoming fax calls to email and sends faxes from email

- **Web user interface:** listens to and manages voicemail messages
- **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

- **NEW 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; it allows a user to be reached at two different locations by ringing both locations at the same time
- **Hot desking:** 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 over-subscription—even down to a particular 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; supports three selectable call routing algorithms
- **Automatic call distribution:** provides an economical add-on 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

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 Connect 200 Unified Communications Primary Server (JC518A)

Ports	4 SATA 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; EN 61000-3-2; EN 61000-3-3
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; HTTPS
Notes	Integrated IP messaging voice ports; up to 120 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported 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	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	Paging (SIP external paging system)
Emergency services	Phone lock/unlock
End-to-end SIP signaling	Privacy (block select monitor/charge-in)
Global directory	



Technical Specifications

- Global voice mail
- IP telephony
- 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 back-up 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

- Privacy (calling number suppression)
- Serial calling (transfer with callback)
- 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



Technical Specifications

Extensions and mailboxes can start with "0"
Selectively delete Future Delivery messages
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
SNMP v1, v3
System back-ups
Scheduled VCX backups
QoS MIB and license MIB enhancements for IMC
VSM

REPORTING

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

IP TELEPHONY CALLING

Anonymous all
Anonymous next
Anonymous call reject
Automatic call distribution (ACD)

G.711
G.729
Global voice mail 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 non-subscribers
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

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
Directory search (dial-by-name)

USER PRODUCTIVITY

Auto attendants



Technical Specifications

ACD groups (call coverage)	Bulletin board
ACD groups (calling groups)	Call back
ACD groups (CDR reporting)	Call monitor
ACD groups (circular)	Family mailbox
ACD groups (feature interactions)	Force password change
ACD groups (least-call count)	Listen and manage voicemail messages from Web user interface
ACD groups (linear)	Mailbox alias
ACD groups (login/logout)	Mailbox auto login
ACD groups (malicious call trace)	Mailbox full alert
ACD groups (message-waiting indication)	Mailboxes for announcements
ACD groups (most idle agent)	Mailboxes for forms (Q&A)
ACD groups (multisite)	Mailboxes for information
ACD groups (real-time statistics)	Mailboxes for surveys
ACD groups (view ACD group status)	Mailboxes for system bulletins/broadcasts
Automatic line selection (Multiple system appearance)	Message-waiting indication
Bridged line appearance	Music-on-hold
Bridge line appearance (MWI)	Outline help
Bridge line appearance (shared hold)	Personal address book
Busy lamp field	Personal auto-attendant
Call conference (drop)	Privacy
Call conference (six-way calling)	Prompt bypass
Call conference (three-way calling)	Set-up assistant tutorial
Call coverage	Shortcut keys
Call drop	User password change
Call duration display	User provisioning through TUI
Call forward all (universal)	User provisioning through Web
Call forward busy	Virtual calling card
Call forward no answer	Zero out
Call forward out-of-coverage	
Call forward programmable	FIND ME/FOLLOW ME
Call forward reminder	Find me/follow me
Call forward remote	Find me/follow me call intercept
Call history (missed/answered/placed logs)	
Call history display sort	FAX MAIL
Call hold	Electronic fax sending
Call hold reminder	Fax auto-delivery to email
Call park/retrieve	Fax auto-delivery to fax machine
Call park (button mapping)	Fax delivery to fax machine
Call park (fallback)	Fax message deposit
Call pick-up (directed)	Fax message retrieval
Call pick-up (group)	Never-busy fax
Call restrictions (black list)	
Call restrictions (blocking inbound)	EMAIL INTEGRATION
Call restrictions (blocking outbound)	Client integration
Call restrictions (call screening)	Email auto delivery
Call restrictions (forward to trunk)	Email integration
Call restrictions (toll screening)	Email synchronization
Call restrictions (transfer to trunk)	Fax attachment in email (.tif or .pdf formats)
Call restrictions (white list)	Unified inbox for Domino on Windows
Call return	Voicemail POP3/IMAP4 client integration
Call transfer (attended)	Integration with Microsoft Exchange Unified



Technical Specifications

Call transfer (fallback on transfer failure)
Call transfer (unattended)
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

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 Connect 200 Unified Communications Secondary Server (JC519A)

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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; storage: 3.5" 250 GB SATA HDD; 2 GB DDR3 1066 MHz ECC UDIMM; packet buffer size: 1 KB
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)
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Emissions	FCC part 15 Class A; CISPR 22; EN 55022; EN 55024; CNS 13438; ICES-003; EN 61000-3-2; EN 61000-3-3
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; HTTPS
Notes	Integrated IP messaging voice ports; up to 120 simultaneous auto-attendant, music-on-hold, fax, or voicemail ports supported 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 voice mail 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 select monitor/barge-in) Privacy (calling number suppression)



Technical Specifications

- IP telephony
- 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 back-up 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"

- Serial calling (transfer with callback)
- 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



Technical Specifications

Selectively delete Future Delivery messages
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
SNMP v1, v3
System back-ups
Scheduled VCX backups
QoS MIB and license MIB enhancements for IMC
VSM

REPORTING

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

IP TELEPHONY CALLING

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

G.729

Global voice mail 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 non-subscribers
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

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
Directory search (dial-by-name)

USER PRODUCTIVITY

Auto attendants
Bulletin board



Technical Specifications

ACD groups (calling groups)	Call back
ACD groups (CDR reporting)	Call monitor
ACD groups (circular)	Family mailbox
ACD groups (feature interactions)	Force password change
ACD groups (least-call count)	Listen and manage voicemail messages from Web user interface
ACD groups (linear)	Mailbox alias
ACD groups (login/logout)	Mailbox auto login
ACD groups (malicious call trace)	Mailbox full alert
ACD groups (message-waiting indication)	Mailboxes for announcements
ACD groups (most idle agent)	Mailboxes for forms (Q&A)
ACD groups (multisite)	Mailboxes for information
ACD groups (real-time statistics)	Mailboxes for surveys
ACD groups (view ACD group status)	Mailboxes for system bulletins/broadcasts
Automatic line selection (Multiple system appearance)	Message-waiting indication
Bridged line appearance	Music-on-hold
Bridge line appearance (MWI)	Outline help
Bridge line appearance (shared hold)	Personal address book
Busy lamp field	Personal auto-attendant
Call conference (drop)	Privacy
Call conference (six-way calling)	Prompt bypass
Call conference (three-way calling)	Set-up assistant tutorial
Call coverage	Shortcut keys
Call drop	User password change
Call duration display	User provisioning through TUI
Call forward all (universal)	User provisioning through Web
Call forward busy	Virtual calling card
Call forward no answer	Zero out
Call forward out-of-coverage	
Call forward programmable	FIND ME/FOLLOW ME
Call forward reminder	Find me/follow me
Call forward remote	Find me/follow me call intercept
Call history (missed/answered/placed logs)	
Call history display sort	FAX MAIL
Call hold	Electronic fax sending
Call hold reminder	Fax auto-delivery to email
Call park/retrieve	Fax auto-delivery to fax machine
Call park (button mapping)	Fax delivery to fax machine
Call park (fallback)	Fax message deposit
Call pick-up (directed)	Fax message retrieval
Call pick-up (group)	Never-busy fax
Call restrictions (black list)	
Call restrictions (blocking inbound)	EMAIL INTEGRATION
Call restrictions (blocking outbound)	Client integration
Call restrictions (call screening)	Email auto delivery
Call restrictions (forward to trunk)	Email integration
Call restrictions (toll screening)	Email synchronization
Call restrictions (transfer to trunk)	Fax attachment in email (.tif or .pdf formats)
Call restrictions (white list)	Unified inbox for Domino on Windows
Call return	Voicemail POP3/IMAP4 client integration
Call transfer (attended)	Integration with Microsoft Exchange Unified Messaging
Call transfer (fallback on transfer failure)	



Technical Specifications

Call transfer (unattended)
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

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 Connect 200 Unified Communications Series accessories	Modules	
	HP VCX V7005/VCX Connect 200 DL120 G6 250G 3.5" Spare RAID Disk	JC521A
	License	
	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 5 Agent License E-LTU	JE424BAE
	HP VCX ACD 10 Agent License E-LTU	JE423BAE

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