

Cisco Unified Communications Manager

Table 1. New or Enhanced Features, by Version

| Features | New in Release 5.x | New in Release 6.x | New in Release 7.x | New in Release 8.x |
|--|--------------------|--------------------|--------------------|--------------------|
| For Business to Business Unified Communications | | | | |
| Support for Cisco Intercompany Media Engine | | | | √ |
| For Easier Administration, Saving You Time and Resources | | | | |
| Additional prepackaged alerts, monitor views, and historical reports with RTMT | √ | | | |
| Real-time and historical application performance monitoring through operating system tools and SNMP | √ | | | |
| Monitored data-collection service | √ | | | |
| Remote terminal service for off-net system monitoring and alerting | √ | | | |
| Real-time event monitoring and presentation to common syslog | √ | | | |
| Trace setting and collection utility | √ | | | |
| Browse to onboard device statistics | √ | | | |
| Multisite (cross-WAN) capability with intersite CAC | √ | | | |
| Outbound call blocking | √ | | | |
| Enhancements to out-of-band dual tone multifrequency (DTMF) signaling over IP | √ | | | |
| PSTN failover on route nonavailability | √ | | | |
| Device authentication - through embedded X.509v3 certificate in new phones | √ | | | |
| Cisco® SRST | √ | | | |
| Transcoder resource | √ | | | |
| Conference bridge resource | √ | | | |
| Topological association of shared resource devices (conference bridge, music-on-hold sources, and transcoders) | √ | | | |
| Fault, configuration, accounting, performance, and security (FCAPS) enhancements to support SIP | √ | | | |
| Improved SIP trunk device identification | | √ | | |
| Calling-party normalization | | | √ | |
| E.164 with "+" dialing | | | √ | |
| Local route groups and transformation | | | √ | |
| Trusted relay point | | | √ | |
| Intelligent bridge selection | | | √ | |
| Service Advertisement Framework (SAF) - call-control discovery | | | | √ |
| Analysis manager | | | | √ |
| Product nodes inventory and grouping | | | | √ |
| Trace setting | | | | √ |
| Trace collection on demand | | | | √ |
| Scheduled trace collection | | | | √ |
| Templates for setting trace levels and trace file server | | | | √ |
| Collect/view system configuration information | | | | √ |
| Daylight savings time/zone structure | | | | √ |
| User phone add page with default, hidden, and read-only check boxes | | | | √ |

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| Phone template-based phone add page | | | | √ |
| Bridged upgrade | | | | √ |
| Mobility Features, Streamlining Communications | | | | |
| Call divert | √ | | | |
| Dial via Office | | | √ | |
| Directed call park | | | √ | |
| Call screening | | | √ | |
| Reverse callback | | | √ | |
| Simultaneous ring time-of-day access list | | | √ | |
| Call handoff | | | | √ |
| User-to-number matching. Calls directly to mobile phones are anchored to the cluster for mobility features | | | | √ |
| Native mobile unified communications client support | | | | √ |
| Dial via Office (DVO) and least-cost routing (LCR) enhancements | | | | √ |
| Digital number identification service (DNIS) pool of direct-inward-dialing (DID) instances | | | | √ |
| LCR policy for DVO reverse and forward | | | | √ |
| LCR policy for DVO reverse and forward | | | | √ |
| Research In Motion (RIM) send call to mobile | | | | √ |
| iPhone Dial via Office Forward (DVOF) redial support | | | | √ |
| Greater Interoperability with Partners for Flexibility and Choice | | | | |
| SIP trunk integration with Microsoft OCS | | √ | | |
| Click to conference with IBM Sametime | | | √ | |
| Dual forking integration with Microsoft OCS | | | √ | |
| Simultaneous ring Uniform Resource Identifier (URI) dialing with Microsoft OCS | | | √ | |
| T.38 Fax interoperability with Microsoft Exchange | | | √ | |
| Active Directory 2008 | | | √ | |
| SIP Early Offer | | | | √ |
| SIP Normalization and Transparency | | | | √ |
| New or Enhanced Telephony Features | | | | |
| Attenuation and gain adjustment per device (phone and gateway) | √ | | | |
| Automated bandwidth selection | √ | | | |
| Auto route selection (ARS) | √ | | | |
| CAC - Intercluster and intracluster | √ | | | |
| Forwarding based on internal and external calls | √ | | | |
| Forwarding out of a coverage path | √ | | | |
| Timer for maximum time in coverage path | √ | | | |
| Time of day | √ | | | |
| GSM-FR and wideband audio (proprietary 16-bit resolution; 16-kHz sampled audio) | √ | | | |
| Forced authorization codes and client matter codes (account codes) | √ | | | |
| Hunt groups - Broadcast, circular, longest idle, and linear | √ | | | |
| T.38 fax support (H.323 and SIP) | √ | | | |
| Time-of-day, day-of-week, and day-of-year routing and restrictions | √ | | | |
| Toll restriction - Dial-plan partition | √ | | | |
| Prevent trunk-to-trunk transfer | √ | | | |
| Drop conference call when originator hangs up | √ | | | |

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| Require forced authorization codes | √ | | | |
| Video telephony (SCCP, H.323, and SIP) | √ | | | |
| CTI for Internet service provider (ISP) phones | √ | | | |
| Audible message waiting indication on IP phones | | √ | | |
| Call recording | | √ | | |
| Extension mobility | | | | |
| Extension mobility cross-cluster | | | | √ |
| Extension mobility PIN change through phone | | | | √ |
| HTTPS for phone services including EM and EMCC | | | | √ |
| Call forward all | | √ | | |
| Audible Message waiting indication | | √ | | |
| Privacy | | √ | | |
| Device mobility | | √ | | |
| Do not disturb | | √ | | |
| End User and Application User Certificate Authority Proxy Function (CAPF) for CTI | | √ | | |
| Monitoring | | √ | | |
| Device mobility changes the location-specific information when a device moves within the cluster | | √ | | |
| Programmable line keys | | √ | | |
| Secure conferencing available to all members of the conference | | √ | | |
| Silent monitoring | | √ | | |
| Join Across Lines for connecting multiple calls or conferences | | √ | | |
| Single Button Barge | | √ | | |
| Callback support for analog phones | | √ | | |
| Single-button barge-in | | √ | | |
| Join across lines | | √ | | |
| Busy-lamp-field (BLF) alert | | √ | | |
| BLF pickup | | √ | | |
| Cisco Unified IP Phone 7931G | | √ | | |
| Do not disturb - call reject | | | √ | |
| Directed call pickup | | | √ | |
| Extension mobility feature safe | | | √ | |
| Phone services provisioning | | | √ | |
| External call control (ECC) service and Cisco Unified Routing Rules Interface | | | | √ |
| CTI integration with hunt list/call pickup | | | | √ |
| CTI support for call forward | | | | √ |
| AXL enhancements: AXL interface automated to support all the database fields supported by admin interfaces | | | | √ |
| Next-generation TAPI/wave driver | | | | √ |
| Caller ID on MGCP FXO | | | | √ |
| DSN hotline feature for tactical deployments in the military/government communications system space | | | | √ |
| UCR2007 PBX1 requirements as outlined for military/government systems | | | | √ |
| MLPP support services + Cancel call waiting | | | | √ |
| MLPP on E1 PRI circuits | | | | √ |
| HTTPS phone services | | | | √ |

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| Secure recording and monitoring | | | | √ |
| Annunciator support for SIP phones | | | | √ |
| Support for VPN clients on Cisco Unified IP Phone 7942G, 7945G, 7962G, 7965G, and 7975G SCCP phones | | | | √ |
| Support for Cisco Cius | | | | √ |
| Support for Cisco Unified IP Phone 6901, 6911, 6921, 6941, and 6961 models | | | | √ |
| Support for Cisco Unified IP Phone 6845, 8961, 9951, and 9971 models | | | | √ |
| Key expansion module support | | | | √ |
| USB video camera module | | | | √ |
| Native support for Whisper Coaching and Agent Greeting within Contact Center | | | | √ |
| Agent Zip Tone | | | | √ |
| Encryption to analog endpoints (Secure Real-Time Transport Protocol [SRTP]) | | | | √ |
| Additional Localization (in addition to other languages supported in prior releases) | | | | |
| Japanese, Korean, Chinese, Arabic | √ | | | |
| Hebrew, Thai and Turkish | | √ | | |
| Estonian, Latvian, and Lithuanian | | | √ | |
| Additional SIP Support | | | | |
| SIP trunk (RFC 3261) and line side (RFC 3261-based devices) | √ | | | |
| Media Termination Point (MTP) - Support for SIP trunk and RFC 2833 | √ | | | |
| Native support of SIP devices | √ | | | |
| Presence information for SIP devices | √ | | | |
| SIP trunk enhancements for external applications, such as conferencing and presence | √ | | | |
| Third-party SIP devices supporting RFC 3261 | √ | | | |
| SIP line-side RFCs: RFCs 3261, 3262, 3264, 3265, 3311, 3515, and 3842 | √ | | | |
| SIP trunk RFC support: RFCs 2833, 2976, 3261, 3262, 3264, 3265, 3311, 3515, 3842, 3856, and 3891 | √ | | | |
| Improved SIP trunk device identification | | √ | | |
| Single-button barge-in | | | √ | |
| Join across lines | | | √ | |
| Busy-lamp-field (BLF) alert | | | √ | |
| BLF pickup | | | √ | |
| Conference chaining | | | √ | |
| Do not disturb - call reject | | | √ | |
| Cisco Unified IP Phone 7931G | | | √ | |
| Cisco Unified IP Phone Expansion Module support for 7914, 7915, 7916 | | | √ | |
| Secure Real-Time Transport Protocol (SRTP) over SIP trunk | | | √ | |
| Early offer SIP trunk with G.729 with Media Termination Point (MTP) | | | √ | |
| SIP trunk Preferred Asserred Identity (PAI) | | | √ | |
| Domain name capacity on SIP phones (56 lines for Cisco Unified IP Phone 7902, 7912, 7942, 7962, 7905, 7945, 7965, 7975, and 7985 phones) | √ | | | |
| Added Support for Cisco Products, Enabling Broader Unified Communications | | | | |
| Voice gateways: Cisco VG202 and VG204 Analog Voice Gateway models | | √ | | |
| Click to dial on Cisco WebEx™ meeting applications | | | √ | |
| Cisco Emergency Responder Location Management user interface | | | √ | |
| Cisco Security Agent 5.2 support | | | √ | |

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| Serviceability Enhancements, Enabling Greater Efficiency | | | | |
| Data Migration Assistant | √ | | | |
| Pre-upgrade DMA file generation | | √ | | |
| DMA - bundle pre-upgrade tasks | | √ | | |
| DMA - enhance platform config.xml | | √ | | |
| IP tables | | | √ | |
| Fresh install of Cisco Unified Communications Manager on the Cisco MCS 7828 Media Convergence Server | | | √ | |
| Alerting subsystem in Cisco Unified Communications Operating System | | | √ | |
| Clarity and consistency of alarms and events | | | | √ |
| New performance monitoring counters (external call control, Cisco SAFclient, Cisco IME link) | | | | √ |
| Changes in SNMP MIBs | | | | √ |
| AXL Serviceability API Cipher support | | | | √ |
| VMware support | | | | √ |
| SSO and SmartCard authentication | | | | √ |
| Cisco EnergyWise: Deep-sleep mode reason codes | | | | √ |
| Options ping serviceability | | | | √ |
| Troubleshooting reports for device registration and un-registration | | | | √ |
| Safari browser support | | | | √ |
| Performance Improvements | | | | |
| Reduce tracefile output by compression | | | √ | |
| Database replication improvements | | | √ | |
| Media Support | | | | |
| Codec support for G.711, G.722, G.722.1, G.723.1, G.728, G.729A/B, and GSMEFR | √ | | | |
| Video codecs: H.261, H.263, *H.264, and Cisco Wideband Video Codec (Cisco Unified Video Advantage) | √ | | | |
| HD Video Interoperability | | | | |
| HD video (720p/1080p) resolution interworking among Cisco Unified Communications hard phones and clients, Cisco TelePresence endpoints, and third-party HD video endpoints in standard H.264 codec | | | | √ |
| Native video endpoint support for simplified registration and provisioning, including Cisco IP Video Phone E20 | | | | √ |
| End to-end solution testing, including Cisco TelePresence Video Communication Server (Cisco VCS) | | | | √ |
| Support for multiple H.264 payload negotiation for optimal resolution | | | | √ |
| Support for midcall video codec parameter changes and consolidation | | | | √ |
| Codec support for automated bandwidth selection: G.711 (mu-law and a-law), G.722, G.722.1, G.723.1, G.728, G.729A/B, GSM-EFR, GSM-FR, iLBC, wideband audio (proprietary 16-bit resolution; 16-kHz sampled audio), and Advanced Audio CODEC (AAC) for use with Cisco TelePresence™ devices | | √ | | |
| ISAC support | | | | |
| Codec preference order enhanced | | | | √ |
| Features for the Department of Defense (DoD) | | | | |
| Assured Services Session Initiation Protocol (AS-SIP), Voice over Session Initiation Protocol VoSIP/DVX G.Clear | | | √ | |
| Secure indication tone (Norway) | | | √ | |

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