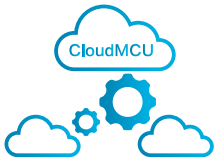
HUAWEI CloudMCU

Scalable convergent media platform

Expanding the concept of video conferencing, the Huawei CloudMCU provides a powerful media-convergence platform for enterprise cloud communications. The platform connects multiple endpoints within a room, as well as PCs and mobile phones. By integrating a variety of media streams, including video, audio and data, the Huawei CloudMCU achieves seamlessly unified communications and collaboration.

The Huawei CloudMCU supports VMware and Huawei Fusion Sphere-based cloud deployment to implement conference resources with centralized management and flexible deployment. This scalable platform thus meets the cloud-enabled needs of all types of enterprises and service providers.

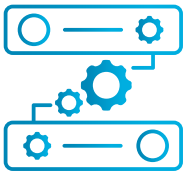


Cloud-based deployment, easy to operate and maintain

- Virtual platform (VMware/Huawei Fusion Sphere) based deployment
- Flexible deployment and fast scalability
- Suitable for on-premise operation and hosting, seamless integration with IMS
- One-key deployment, signaling track, remote inspection, failure message export, unified upgrade, for ease of operation and maintenance

Full media access, easy interoperability

- Advanced interoperability in video, audio, and data conferencing, allows seamless collaboration
- Converged conferencing connects multiple endpoints within a room, as well as desktop to mobile, and supports H.323 and SIP mixed networking
- Data conferencing can use multiple web browsers, including IE, Firefox, and Chrome
- Networking supports both Advanced Video Coding (AVC) and Scalable Video Coding (SVC) for compatibility with a variety of endpoints



Intelligent resource management

- Centralized license management, license distributed across the globe on the principle "following the sun"
- Centralized or dispersed networking, multi-layer cascading and shortest-path access, implementing automatic resource dispatching
- Real-time dynamic resource switchover while transmitting video, video and data stream
- Support resource pool deployment, load balancing, hot spare and geographic Redundancy

Convenient and abundant service experience

- Multiple ways to initiate or join a meeting include Virtual Meeting Room (VMR), SiteCall, "one button to join," and SIP Uniform Resource Identifier (URI) calling
- The platform supports automatic continuous presence, as well as administrator control, endpoint control, and Interactive Voice Response (IVR).
- H.264HP technology preserves the image quality in video conferences while reducing bandwidth consumption by 50%
- H.264 SVC and SEC™ 3.0 technology help ensure smooth audio and video conferencing even with 20% packet loss

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Technical Specifications

Standards and Protocols

Multimedia frame protocols	ITU-T H.323, IETF SIP
Video encoding and decoding protocols	ITU-T H.264, H.264 HP, H.264 SVC, H.263, H.263+
Audio encoding and decoding protocols	AAC-LD, G722.1*, G722.1C*, G711a/u, G722, G729A, G729AB, iLBC, Opus
Dual-stream protocol	ITU-T H.239, BFCP
Data meeting protocol	T.120
Network transmission protocols	IPv6/IPv4, TCP/IP, RTP, RTCP, HTTP/HTTPS, SNMP, DNS/DDNS
Other standards and protocols	H.225, H.235, H.245, H.281, FECC, RFC2833, DTMF, SRTP, TLS, T.140, NTP
Video resolution	Up to 1080p60
Presentation resolution	SVGA (800 x 600), XGA (1,024 x 768), SXGA (1,280 x 1,024), WXGA (1,280 x 800), WXGA+ (1,440 x 900), 1,366 x 768, 720p, 1080p, 1080p60

Functions and Features

Support for conferences based on universal transcoding, SVC, or both
Support for conferences using video, data, or both
Up to 5-layer cascaded meetings
Calling modes include Huawei patented SiteCall, ad hoc, URI, IP address, audio and video IVR; unified access number supported
Switchover from point-to-point to multi-point meeting
Automatic Ontable and Layout continuous presence, with up to 16 panes and 12 modes of continuous presence
Administrator control, chair assignment, chair control
Caption overlay, meeting status icon overlay
Support for content stream transcoding
Video on/off
Camera control
Collaboration features include electronic whiteboard, shared screens, and document transmission
Ability to manage MCU resources
Support for meeting reservation and email notification via Outlook

Networking mode

On-premise SMC2.0 networking
Media X Hosting networking
Hybrid networking with Huawei hardware MCU VP96X0 Series

Network Adaptability

Maximum: 8 Mbit/s (receiving: 8 Mbit/s, sending: 4 Mbit/s)
IPv6/IPv4 Support
SEC™3.0 super error correction technology ensure smooth video during 20% packet loss
IRC™ technology manages the bandwidth distribution of video stream for qualified video conferencing.
H.235 encryption (signaling and media) over H323 networking and TLS/SRTP encryption over SIP networking
Interoperability with Microsoft Lync2013™/Skype for business/Office365/webRTC
Standard public and private network traversal enabled by matching with SBC and SC

System management and maintenance

Web system specification and conference specification configuration
Configuration import and export
Resource statistics
Abnormal alarms
Remote upgrades
Logging records

System language

Chinese , English

Operating Environment

Virtual platform	VMware, Huawei Fusion Sphere
Operating system	Suse Linux(Virtual platform-based)

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