HUAWEI SMC 2.0

—— an Open and Integrated Videoconferencing Service Management System

HUAWEI Service Management System 2.0 (SMC2.0 for short) is a new-generation videoconferencing service management system offering from HUAWEI Technologies. The system is designed to assist small, medium and large organizations with the management and monitoring of their Videoconferencing and Telepresence estates.

HUAWEI SMC2.0 provides a mature suite of management tools that assists administrators by ensuring that corporate managers and end users can communicate and collaborate effortlessly. Simplicity encourages usage and therefore assists organizations with reducing unnecessary travel, accelerating decision making which in turn assists in reducing corporate operating costs.

The SMC2.0 solution offers
Centralized Management of Video Communication Resources

Administrators can manage a complete portfolio of corporate video resources such as MCUs, Gatekeepers, Firewall Traversal, Recording devices and Video Endpoints in a centralized and unified manner.

Flexible and easy to create statistic reports enables administrators to monitor the usage of the managed video resources. Based on the collated information, management can make informed and timely decisions to increase resource deployment where relevant.

The SMC2.0 solution also allows administrators to flexibly managed larger corporate Videoconferencing and Telepresence networks, by deploying MCUs and Gatekeepers and other infrastructure in geographically dispersed corporate branches in a distributed manner.

Hierarchical and Role-based Authentication of Multiple Users meets Management Requirements of large sized Enterprises

SMC2.0 solution users can be categorized according to corporate organizational structures. User roles can be defined and the appropriate access rights assigned depending on organizational level.

The tree architecture viewing feature can be utilized to view usage by individual corporate video users.

Operators can establish large-scale video operating networks, providing hierarchical and role-based virtual operation services for multiple corporations.

Efficient Conference Initiation and Exceptional Conference Experience, Allowing Users to Smoothly Communicate and Collaborate with Each Other

The SMC2.0 provides an easy-to-use user interface (UI) that allows users to conveniently schedule conferences, view the availability and status of conference rooms, choose appropriate conference times and sites, and inform conferencing information to participant via emails. In addition conference notification will be automatically added to the users schedule on the SMC2.0 system. Conference templates and conference history functions allow users to define and hold large cascaded conferences. The SMC2.0 system can automatically cascade MCUs as required and manage the multisite calls seamlessly.

The SMC2.0 can be effectively integrated with Office Automation (OA) systems. Users can schedule conferences, cancel conferences, and view the availability of a participant or conference room via Microsoft Outlook. Users can also set up a conference reminder on the calendar of SMC2.0 system.

"One-Click-to-Join" functionality allows a user to join a conference with a single press of a button.

A unified access number is provided which and when dialed allows users to join a conference or create an ad hoc conference.

Powerful Conference Control and Monitoring Functions to Guarantee Easy Operations

SMC2.0 provides powerful and easy-to-use conference control functions, allowing users to enjoy an efficient video meeting with the minimum amount of upheaval.

The Nlog, integrated in the SMC2.0 solution, provides end-to-end monitoring functions, allowing users to monitor conference quality and to trace conference history.

Built-in Gatekeeper That Can Be Flexibly Applied to Large-Scale Video Networks

The built-in Gatekeeper meets the requirements when deploying small networks.

Additional Gatekeepers can be easily added when deploying large-scale video networks.

An additional Gatekeeper can function as a server for the secure and effective traversal between private and public networks.

Flexible Integration with Third-Party Systems Based on Open and Standard Interfaces

SMC2.0 complies with international standards such as HTTP, HTTPS, XML, and LDAP, and provides third-party APIs to meet with integrators' various integration demands. The SMC2.0 system can be perfectly integrated with Microsoft Active Directory and Office Automation systems.

HUAWEI SMC2.0 Technical Specifications

Protocol and standard compliance
- ITU-T H.323, H.460, FTP, HTTP, SNMP, HTTPS, LDAP, and H.350

Functions and features

User management
- Hierarchical and role-based management of multiple users, and support for users login from the web interface

Conference scheduling
- SiteCall, ad hoc conference, conference activation, and permanent conference
- Conferences can be scheduled from the web interface or Outlook. When scheduling conferences, users can view the free or busy status of a participant or a site.
- Conference notifications can be sent via emails.

Conference cascading
- Users can schedule and manage automatically or manually cascaded conferences.

Conference control
- Mute speakers, mute microphones, broadcast sites, view sites, and set continuous presence.

Conference quality monitoring
- Conference quality, such as packet loss, jitter, delay, and the number of consecutive lost packets, can be monitored on end-to-end graphs in real time.
- Threshold alarms and data export are supported.

Billing, reports, and CDRs
- Users can define conference billing codes.
- The CDR text file is supported.
- Reports on conference statistics, site usage, and MCU usage are supported.

GK functions
- Node management, call management, broadband management, and H.460 server

Convergence conference
- Integration with Huawei eSpace and eConference Convergence Conference

Third-party integration and APIs
- Integration with Microsoft ActiveDirectory
- Integration with Microsoft Exchange Server
- Integration with Microsoft OCS/Lync
- Third-party APIs

Multiple languages
- English, French, Spanish, German, Russian, Simplified Chinese and Traditional Chinese
- Chinese and English online help on the web interface

System performance
- Web users: 100
- MCUs: 128
- Manageable sites: 10,000

Operating environment

Operating system
- Microsoft Windows Server 2008 (R2) Standard
- Support for Chinese and English operating systems

Database
- Microsoft SQL Server 2008 R2

Hardware environment
- Dimensions (H x W x D): 87.5 mm x 448 mm x 700 mm, and support for 19-inch standard cabinet

Power supply
- 2 x 750 W plug and play power supplies, 1+1 redundancy, and support for both 110 V and 220 V

CPU
- 2 x Xeon quad-core processors or higher

Memory
- 8 GB or larger

Hard disk
- 2 x 300 GB hard disks

Input and output
- 2 x board GE interfaces (RJ-45), and support for TOE
- 4 x USB2.0 ports (two ports on the front board and two ports on the rear board)
- 1 x 10/100M network port for maintenance (RJ-45), 1 x DB9 serial port, and 1 x DB15 VGA port