HUAWEI SwitchCenter

Call-control and firewall traversal server

HUAWEI SwitchCenter is a call-control and firewall traversal server that enables seamless video communication between internal and external networks, headquarters and branches, as well as different enterprises. This server employs H.323 and SIP protocols, supporting a maximum of 6,000 registered points and providing powerful traffic traversal capabilities of up to 300 Mbps.

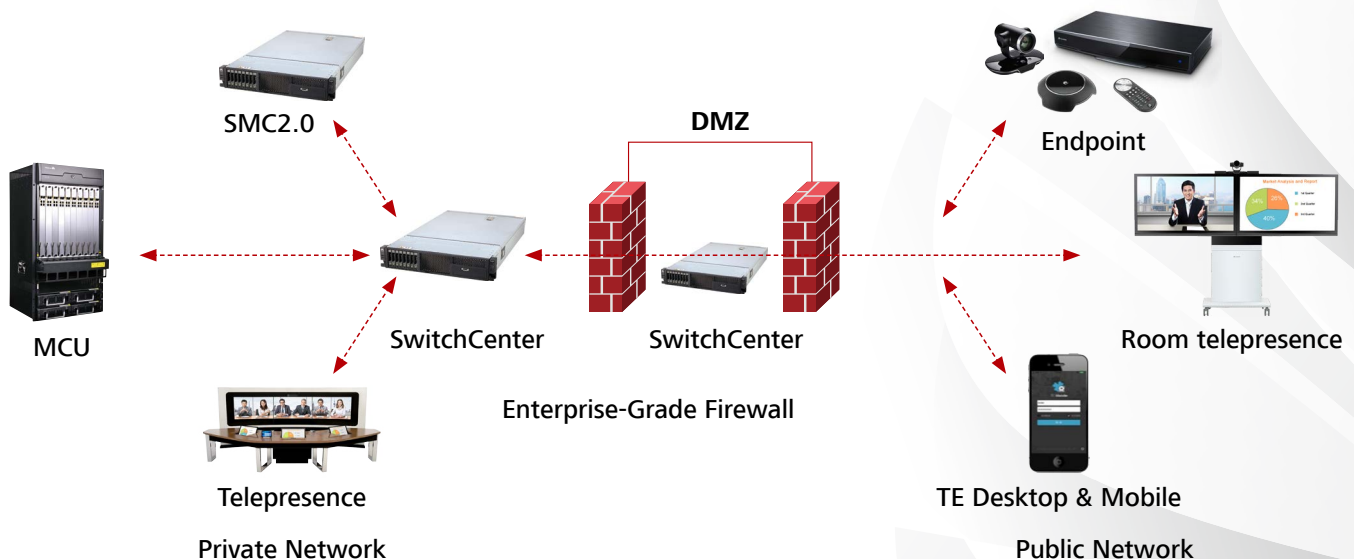### H.323/SIP dual-protocol access and gatekeeper/SIP server/SIP proxy support

- H.323/SIP dual protocols empower networking capabilities regardless of specific protocols
- Supports registration management and optional authentication of IP number or password
- Supports a wide variety of call controls, such as number and URI dialing, DNS addressing, and number modification
- Flexible configuration of zone or subzone area bandwidth, flexible interzone bandwidth and routing control, and SIP trunk dialing support
- Security management including blacklist and whitelist, H.235/TLS/SRTP authentication, and signaling and media interoperability

Powerful firewall traversal capabilities implement video communication and collaboration across differentiated networks

- Supports standard H.460 and ICE traversal protocols and interoperability with mainstream video conferencing endpoints for video communication across differentiated networks
- Flexible deployment of single-point, point-to-point, or video firewall meets a variety of networking scenarios
- Supports traversals up to 300 Mbps in a single device, minimizing infrastructure investment

Unified management for easy maintenance

- Unified management of endpoint addresses; user online status
- Unified management of software upgrades and alarms and real-time device status control through HUAWEI Service Management System 2.0v(SMC2.0), simplifying IT maintenance
- Support for CDR output

HUAWEI SwitchCenter Technical Specifications

Protocols and Standards Compliance

Communication standards: ITU-T H.323, IETF SIP

Other supported standards:
- H.225, H.245, Q.931, H.235, SDP, TLS/SRTP, H.239, BFCP
- H.460, ICE, STUN, TURN, SNP (Huawei Patented), SIP TRUNK
- TCP/IP, HTTP, HTTPS, SSH, SNMP, LDAP/H350, RTP, RTCP, DDNS

Functions and Features

Call Control and Addressing:
- H.323 gatekeeper/SIP server/SIP proxy support
- Support for node registration, call control, bandwidth management, status display, call management, routing management, zone management, and number conversion
- H.235/TLS/SRTP encryption and system logs
- Support for SiteCall and endpoint-initiated multipoint conferencing
- Support for SIP trunk addressing
- Support for URI dialing and addressing, such as number @IP, number @ hostname or IP## number

Firewall Traversal:
- H.460 18/19-compliant (H.323)
- Firewall ICE/STUN/TURN-compliant (SIP)
- Huawei patented SNP traversal-compliant
- Support for video firewall traversal of dual network interfaces

Security:
- HTTPS and SSH log management
- Whitelist/blacklist authentication
- Support for LDAP authentication
- H.235/TLS/SRTP encryption

Directory:
- Support for CDR text files

Maintenance and Management:
- Unified management through SMC2.0 web
- command line interface

System Backup:
- 1+1 redundancy hot spare (VRRP-based)

System Performance

System Performance	Server	Software
Max. Registrations	6000	6000
Concurrent Calls	4000 (1000 routing calls)	4000 (120 routing calls)
Max. SIP Concurrent Calls	1000	1000
Traversal throughput (Mbps)	300	120

Physical Dimensions of Server

(H x W x D) : 87.3 mm x 447 mm x 760 mm; supports 19-inch rack-mount chassis

Weight: 24.0kg

Interfaces:
- Six GE Ports (RJ-45) with TOE (TCP/IP Offload Engine) support
- One 10M/100M Ethernet port (RJ-45)
- One DB9 console port
- One DB15 VGA port

Power:
- Input Voltage: 100V to 120V AC or 200V to 240V AC
- Two hot-pluggable 460W power supplies for 1+1 backup

Environmental Data:
- Operating temperatures: 10°C to 35°C
- Storage temperatures: -40°C to 65°C
- Temperature fluctuation: < 20°C/h

Relative Humidity:
- Operating humidity: 8% RH to 85% RH (non-condensing)
- Storage humidity: 5% RH to 95% RH (non-condensing)
- Humidity fluctuation: < 20% RH/h

Atmospheric Pressure:
- ≤ 3,000m
  (Operating temperature reduces by 1°C for every 300M above 900M)

Lowest configuration requirement of Software version

Server configuration:
- 4-core CPU (basic frequency≥2.2GHz), 8G memory, 300G hardware, single/dual 1000M network interface card, Support VMware deployment

Operating system:
- Suse 11 Enterprise SP1
- RedHat Enterprise 6.5