

HUAWEI Switch Center

Call Control and Firewall Traversal Server

Overview

HUAWEI Switch Center (SC) is a SIP/H.323-compliant call control and firewall traversal server that allows for a massive number of registrations. The SC is ideal for seamless communications both within enterprises and with the wider world, between HQ and branches, and across enterprises.



HUAWEI SC



SIP/H.323-compliant, up to 10,000 registered users



Powerful firewall traversal for communications between private and public networks



Secure and reliable, with core technologies developed in-house

Highlights

H.323/SIP-Compliant, Feature-Rich

- Network access through SIP/H.323 on a wide range of terminals, for consistency of experience
- Registration management with authentication of IP address, number, password, etc.
- Call control functions, including DNS parsing, number change, and calling by number, URI, etc.
- Zone management implemented through zone-based deployment and flexible control of inter-zone bandwidth and routes

Powerful Firewall Traversal for Communication Across Networks

- Support for standard H.460 and ICE traversal protocols, which is interoperable with standard video conferencing systems of other vendors
- Flexible deployment schemes such as single-node system, two-node cluster, and video firewall
- Data conference proxy, HTTP reverse proxy, and NAPT proxy
- Up to 600 Mbit/s traffic supported by a single SC, reducing customer investment

Secure and Reliable, with Homegrown Core Technologies

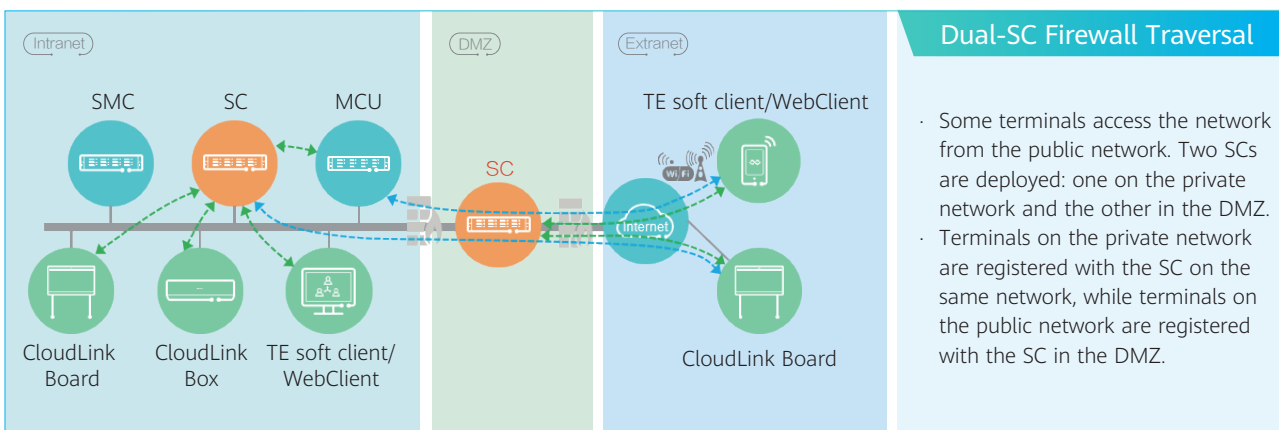
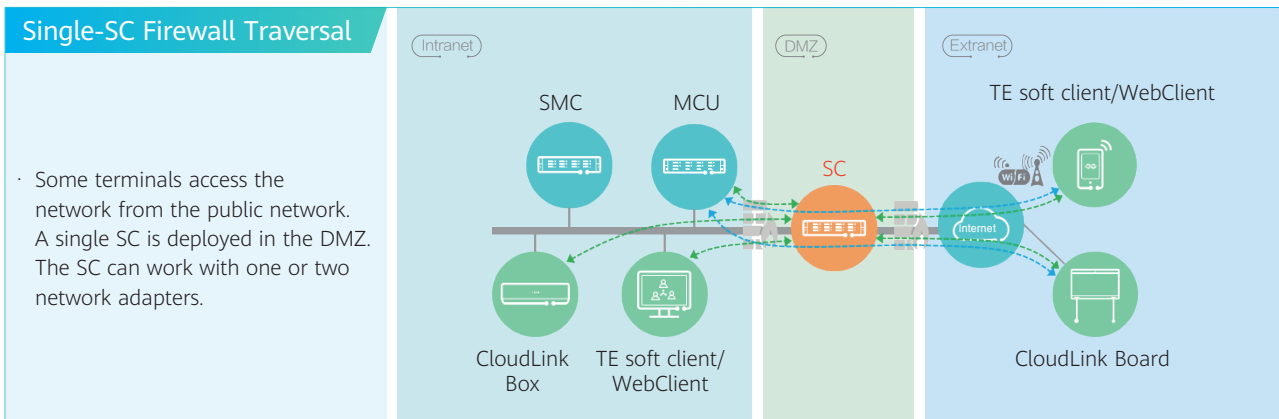
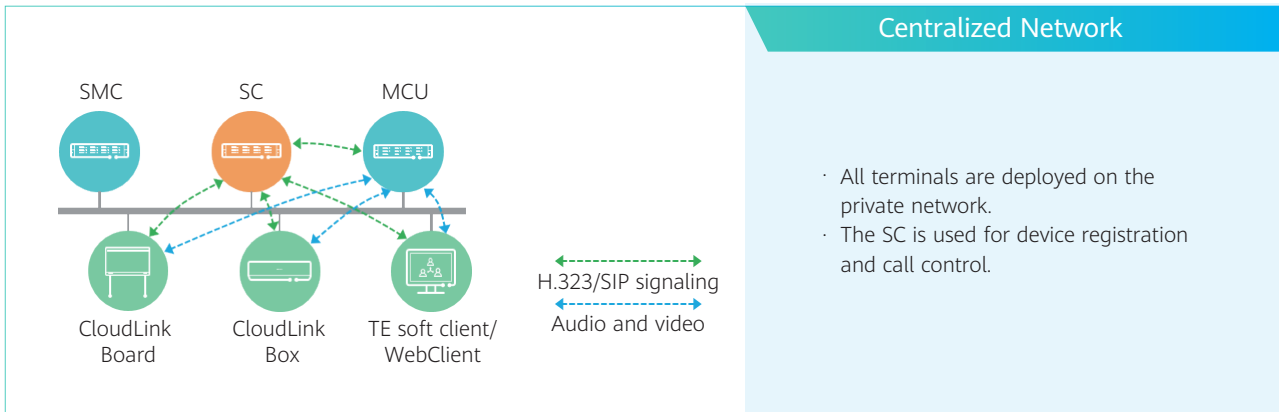
- Proactive information security protection
 - Blacklist and whitelist management
 - Authentication for interconnection with the LDAP server
 - Media, signaling, and management data encryption using a variety of protocols, including H.235, SRTP/TLS, HTTPS, SSH, and SNMPv3



Unified Management for Easy Maintenance and Use

- Unified management of terminal address books and user status
- Call detail record (CDR) export
- Centralized, simplified management and maintenance of SCs from the Service Management Center (SMC)
- Floating licenses with resources managed and allocated by the SMC in a unified manner

Typical Network



Features

Functions and Features

- | | |
|------------------------------------|--|
| Call control and addressing | <ul style="list-style-type: none">· Standard H.323 GK/SIP server/SIP proxy· Node registration, call control, bandwidth management, status display, route management, zone management, and number change· H.235/TLS/SRTP encryption and system logs· SiteCall, which allows you to directly initiate a multipoint meeting from a terminal· Call by URI· SIP Trunk addressing |
|------------------------------------|--|

- | | |
|---|--|
| Public-private network traversal | <ul style="list-style-type: none">· Standard H.323 traversal protocols H.460 18 and H.460 19· Standard SIP traversal protocols ICE/STUN/TURN· Huawei's proprietary SNP traversal protocol· Traversal using a single SC, dual SCs, or video firewall· Data conference proxy, HTTP reverse proxy, and NATP proxy· IPv4 and IPv6 |
|---|--|

- | | |
|------------------------|---|
| O&M methods | <ul style="list-style-type: none">· SMC web interface· Command lines |
|------------------------|---|

- | | |
|------------|--|
| CDR | <ul style="list-style-type: none">· CDR export |
|------------|--|

- | | |
|-----------------|--|
| Security | <ul style="list-style-type: none">· Management encryption using HTTPS, SSH, and SNMPv3· Blacklist and whitelist for registration authentication· Authentication for connection with the LDAP server· H.235/TLS for signaling encryption and SRTP for media encryption |
|-----------------|--|

- | | |
|--------------------|--|
| Reliability | <ul style="list-style-type: none">· Multiple backup mechanisms for power supplies, network ports, fans, and hard disks· 1+1 hot standby (VRRP-based), 1+1 remote disaster recovery· Node migration |
|--------------------|--|

Specifications

Protocols and Standards Compliance

- | | |
|-------------------------------|--|
| Multimedia framework protocol | ITU-T H.323 and IETF SIP |
| | H.225, H.245, Q.931, H.235, SDP, TLS/SRTP, H.239, and BFCP |
| Other standards and protocols | H.460, ICE, STUN, TURN, SNP (Huawei's proprietary technology), and SIP TRUNK |
| | TCP/IP, HTTPS, SSH, SNMP, LDAP/H.350, RTP, RTCP, and DDNS |

System Capacity

- | | |
|-------------------------------------|------------|
| Max. number of registered terminals | 10,000 |
| Max. number of concurrent calls | 6,000 |
| Max. traversal traffic | 600 Mbit/s |

Ordering Information

Category	Description	Remarks
Deployment scheme (four schemes for you to choose from)	<ul style="list-style-type: none">· Software & hardware: Kunpeng or x86 platform· Software only: third-party server (COTS), HUAWEI CLOUD Stack (HCS), or HUAWEI CLOUD (hosted)	-
Software license (floating)	<ul style="list-style-type: none">· Number of registered H.323/SIP hardware devices (including MCUs, recording devices, and hard terminals)· Number of registered soft clients· Public-private network traversal traffic	Centrally managed and allocated by the SMC
Warranty service	During the warranty period, Huawei offers a faster response to requests for services such as troubleshooting and spare parts delivery and provides additional services including Hi-Care original manufacturer service, media retention service, and Co-Care joint service. For more information, visit: https://support.huawei.com/enterprise/en/service-support	-

Warranty Information

The SC has a 1-year warranty for hardware and 90-day online technical support for software.

Learn More>>>



Huawei Video Conferencing Solution



CloudLink Collaborative Telepresence Products

Copyright © Huawei Technologies Co., Ltd. 2020. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without the prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions

 HUAWEI, HUAWEI, and  are trademarks or trade names of Huawei Technologies Co., Ltd. All other trademarks, product names, service names, and company names mentioned in this document are the property of their respective holders.

Disclaimer

The technical specifications described in this document include but are not limited to parameters and performance indicators and vary depending on the actual release. This document does not constitute a warranty of any kind, expressed or implied. Huawei may update relevant information from time to time. Huawei reserves the right to update or correct the information about related products or solutions. Updates are described in detail in the latest release notes or introduction.

Huawei Technologies Co., Ltd.

Huawei Industrial Base, Bantian, Longgang
Tel: +86 755 28780808
Postal code: 518129
www.huawei.com

Updated: February 2020