DINSTAR

Datasheet

SBC8000

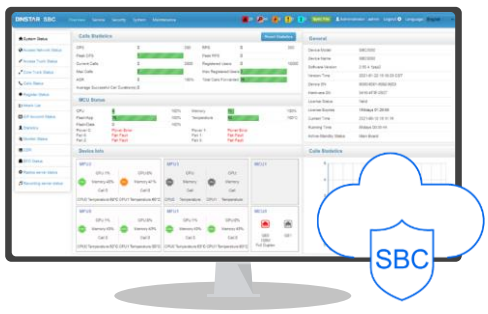
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Overview

A Session Border Controller(SBC) is a SIP/IP network core element that deployed for next generation networks (NGN) to support peer/access connection by SIP/IMS trunk and provide interworking between incompatible signaling messages or media flow from endpoint devices and SIP applications. In particular SBC supports SIP/IMS network connection, sip endpoint remote registration, NAT traversal, signaling modification, media control, flexible call routing, codec transcoding, billing and QoS management.

DINSTAR SBC8000 is a new software-based SBC. It provides very rich features for medium and large enterprise SIP network connection and supports various security mechanisms, call routing based on control policies, carrier-grade high availability(HA) and debug tools for service providers and telecom operators.

SBC8000 can be installed on VM/cloud-based system or third-party hardware appliances. Users can install SBC8000 in X86, ARM architecture and any cloud-based platforms for many different SIP implementations with advantages of VM and cloud platforms.



Key Features

- Up to 50,000 concurrent call sessions, 5,000 media transcoding and 100,000 SIP registrations
- Operate on physical server, virtual machine and public cloud
- Intelligent bandwidth limit and dynamic blacklist
- Cross-network, NAT traversal and high availability(HA)
- Support WebRTC2SIP to turn WebRTC client into a phone with audio capability
- Compatible with different codecs: G.711A/U, G.723.1, G.729A/B, iLBC, AMR, OPUS
- Flexible call routing
- Broad compatibility with IMS network
- VoIP firewall, anti-attacks and core network protection
- Call recording

Deployment Platforms

- Hardware Architecture: X86/ARM
- Virtual Machine:
- VMware, Fusionsphere,
- FusionComputer, KVM
- Cloud Deployment:
- Alibaba Cloud, Amazon Cloud,
- Baidu Cloud, Huawei Cloud,
- Telecom Cloud, etc.

Media Capabilities

- Codecs: G.711a/μ, G.723, G.729A/B, iLBC, AMR, OPUS
- Silence Suppression
- WebRTC Support
- Voice Activity Detection(VAD)
- Comfort Noise Generator(CNG)
- SIP Recording (SIPREC)
- Echo Cancellation:
- G.168 with up to 128ms
- RTP/RTCP
- Voice Interrupt Protection
- Adaptive Dynamic Buffer
- Adjustable Gain Control
- Automatic Gain Control (AGC)
- FAX: T.38, Pass-through
- DTMF: RFC2833/Signal/Inband

Capabilities

- Concurrent Calls:

Up to 30,000 SIP sessions

- Transcoding:

Supports 5,000 transcoding calls

- CPS for Call:

1000 calls per second at maximum

- Registrations:

Up to 100,000 SIP registrations

- CPS for Registration:

1000 Registration per second

Security

- Prevention of DoS and DDoS attacks
- Control of Access Policies
- Policy-based Anti-attacks
- Call Security with TLS/SRTP
- Whitelist & Blacklist
- Access Control List
- Built-in VoIP Firewall

VoIP

- SIP 2.0 Compliant, UDP, TCP, TLS, RFC3261
- SIP Trunk (Peer to peer)
- SIP Trunk (Access)
- SIP Proxy Registrations: Up to 3,000
- B2BUA (Back-to-Back User Agent)
- SIP Request Rate Limiting
- SIP Registration Rate Limiting
- SIP Registration Scan Attack Detection
- SIP Call Scan Attack Detection
- SIP Header Manipulation
- SIP Malformed Packet Protection
- Multiple Soft-switches Supported
- QoS (ToS, DSCP)
- NAT Traversal

Call Control

- Dynamic Load Balancing and Call Routing
- Flexible Routing Engine
- Routing Based on Caller/Called Prefixes
- Regular Express
- Call Routing Base on Time Profile
- Call Routing Base on SIP URI
- Call Routing Base on SIP Method
- Caller/ Called Number Manipulation
- TLS mutual authentication

Maintenance

- Web-bases GUI for Configurations
- Configuration Restore/Backup
- HTTP Firmware Upgrade
- CDR Report and Export
- Ping and Tracert
- Network Capture
- System log
- Statistics and Reports
- Multiple languages support
- Remote Web and Telnet
- Signaling tracking

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