



SBC8000 Session Border Controller

Overview

A Session Border Controller(SBC) is a SIP/IP network core element that is 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

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

Media Capabilities

Codecs: G.711a/μ, G.723, G.729A/B, iLBC, G.722, 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

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

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

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.

Call Control Features

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

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

About Us

Founded in 2011 in Shenzhen, DINSTAR is a leading global provider of IP Unified Communication products including VoIP Gateways, IP PBXs, IP Phones and SBCs, we have been delivering more agile, efficient and affordable communication solutions and unparalleled communication experiences to our customers with our reliable, innovative and future-proof products for years. Through our value-added distributors and resellers worldwide, now DINSTAR serves telecom operators, service providers, system integrators, enterprises, SMBs and OEM partners in over 100 countries.

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