Session Border Controller: An Essential Tool for Security and Reliability of Your System

Technological advancement has paved way for most businesses adopting integration of unified communication as their preferred communication. This has paved way for the emergence of various other technologies to safeguard their communication framework. **Session border controller solution** offers improvement in security, and usability and helps in providing unified communication functionality, enterprise-class security and protect user privacy.

Session border controller provides a set of services for security, signaling and media compatibility. It is a device that sits at the interface between two IP networks and supports voice, data and other real time connections.

Session Border Controller is essential in providing IP-based telephony service provided by service providers as they need reliability and safety for the system. It offers a secured way of accessing the SIP trunking for the ease communicating and security for your system. SBC is deployed in Voice over internet protocol (VoIP) networks.

SIP trunking is the next logical step in the movement to an end-to-end IP telephony infrastructure. Service providers networks have already transitioned their long haul networks to IP and use time division multiplexed (TDM) based technologies.

SBC provides similar and additional unique functions like a Gateway such as to provide conversion between a traditional circuit-based interface, service like a SIP trunk and create interface or border between two packet-based networks.

It provides significant internal processing capabilities through various complex devices and can be categorized through capacity, scalability and functionality. SBC enables service providers to do SIP signaling, handle media and hide your topology.

SBC also provides higher interoperability especially for migration and coexistence with third party IP PBX

solution. It also enhances performance of the servers through various functions/features such as Digital Signalling Processor (DSP) and media bypass functionality.

It uniquely provides all required controls for delivering trusted, reliable and high quality IP interactive communication. It also provides a SBC self protection feature to protect itself and the system from any tampering or attacks.

SBC increases revenue opportunities and operational excellence by enabling carriers to integrate flexibility with vendors and new customers. It also allows the user to control the types of call which can be placed through the VoIP networks according to the particular SBCs design and functionality.

Apart from hiding Carrier and Topology to protect from external attacks, it also provides other features such as address manipulation, protocol validation, DTMF interworking and many more.

Benefits

- Improvement in both internal and external communication
- Decreases infrastructure cost for the system
- Enhances performance and quality of the service
- Provides reliable security for the network
- Helps you implement regulatory compliance
- Gives a secure way to access various services with reliability
- Provides CDR and Reports in detail

It provides auto provisioning feature making it easy to administrator new phones or make changes to existing configurations. SBC also gives the ability to record through session replication recording.

SBC help the user to fight against DDOS/DOS attacks through build-in firewall and protect from any

damage. Thus, SBC plays an important role for the enterprises seeking unified communication which can be extended to all companies worldwide, across public networks both wired and wireless to improve business effectiveness.

Ecosmob Technologies offer custom SBC Solution Development Services. To know more, drop an email to sales@ecosmob.com