



Intellicom | **infuse** Session Border Controller

Product Brochure

Your Intelligent
Communications Partner



intellicom | infuse Session Border Control

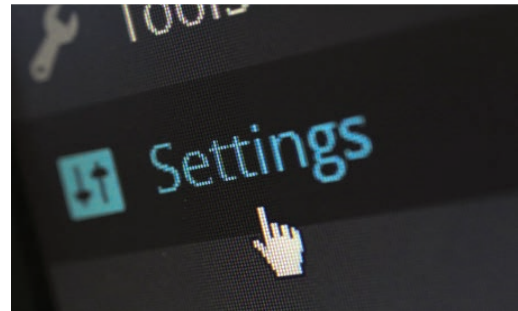
Delivering Voip Connectivity & Flexibility with Ease of use,
best support & lowest Cost

A Session Border Controller (SBC) is a device used in VoIP networks to enhance or enable connectivity and security between disparate systems. SBCs are put into the signalling path between calling and called party to allow manipulation of signalling and data stream between the origination and destination devices and services. The effect of this behaviour is that not only the signalling traffic, but also the media traffic (voice, video etc) crosses the SBC and so transcoding and data conversions may be implemented. Private SBCs can be used along with firewalls to enable VoIP calls to and from a protected enterprise network. Public VoIP service providers can also use SBCs to allow the use of VoIP protocols from private networks with Internet connections using NAT.

The intellicom | **infuse** SBC allows VoIP calls to be set up between two end points using different VoIP signalling protocols (SIP/ H323/IAX/MGCP) as well as performing transcoding of the media stream when different codecs are in use.

Key Facts:

- *Simple to use but Powerful and Scalable SBC for an entry level service price*
- *Supports transcoding from VoIP to PSTN and VoIP to PSTN using a variety of protocols and codecs*
Options to include VoIP / SIP trunks only or a mix of PSTN / ISDN ports and VoIP / SIP
- *PSTN trunks can interconnect using E1, T1, ISDN and POTS interfaces using PRI, BRI, TDM protocols.*
VOIP trunks can interconnect using SIP, IAX, H323 protocols. Codecs supported are: G711u/a law, G729, G723.1, GSM, iLBC, Speex, G726*
- *Media Proxy & SIP Proxy support*
- *Setup wizards, auto-provisioning & enhanced features including Call Recording, Music On Hold, Least cost routing and many other functions*
- *Available as a hardware appliance or as a software only version to deploy on your own virtualised server.*





Key Features

- Scalable between 100 and 10,000 subscriber connections
- Support for all popular PSTN & VoIP Protocols - High Availability options for extra resilience
- Feature rich Routing & Rating configurations
- Many Enhanced services including call filters, call waiting, DND, Caller ID and Group hunt
- Optional add on intellicom | infuse Feature licenses such as PCI Compliant Call Recording
- Easy Browser based configuration and administration -
- Comprehensive and secure systems management capabilities
- Perfect for On Premises or Cloud Telephony & SIP trunk services
- Intellicom | infuse SBC will support Microsoft Lync / Skype for Business telephony and other brands of VoIP Telephony solutions
- Seamless integration with the full Intellicom | intune Telephony & Contact Centre suite
- Simple charging model and options including hardware appliance or Software only for Virtualised deployments on customer owned infrastructure
- Service & Support from in-house experts
- Enterprise class SLA up to 24 x 7 x 365 if required

SBCs commonly maintain full session state and offer the following functions:

Security – protect the network and other devices from Malicious attacks such as a denial-of-service attack (DoS) or distributed DoS, Toll fraud via rogue media streams, Topology hiding, Malformed packet protection, Encryption of signalling (via TLS and IPSec) and media (SRTP)

Connectivity – allow different parts of the network to communicate through the use of a variety of techniques such as NAT traversal, SIP normalization via SIP message and header manipulation, IPv4 to IPv6 interworking, VPN connectivity, Protocol translations between SIP, SIP-I, H.323

Quality of service – the QoS policy of a network and prioritization of flows is usually implemented by the SBC. It can include such functions as Traffic policing, Resource allocation, Rate limiting, Call admission control, ToS/DSCP bit setting

Regulatory – many times the SBC is expected to provide support for regulatory requirements such as emergency calls prioritization and, lawful interception

Media services – many of the new generation of SBCs also provide built-in digital signal processors (DSPs) to enable them to offer border-based media control and services such as DTMF relay and interworking, Media transcoding, Tones and announcements, Data and fax interworking, Support for voice and video calls

Statistics and billing information – since all sessions that pass through the edge of the network pass through the SBC, it is a natural point to gather statistics and usage-based information on these sessions.