

## SIP Interoperability Made Easy

Businesses are today relying more and more on full IP PBX solutions for their central and branch offices.

Guaranteeing SIP interoperability between the network and the ever growing number of available solutions on the market can be easily managed using SBC Lite.

## Security and Network Separation

The service provider network is kept separated from the customer network and there is no need to share the voice network credentials with the customer: SIP authentication towards the network is fully managed by the access device and not the IP PBX.

## All-in-One Device for Small and Medium Enterprises

SBC Lite is a software feature included in the Router / Integrated Access Device.



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# Aethra Telecommunications® SBC Lite Features Overview

## Session Border Controller SBC Lite

SIP Trunking and IP PBX are becoming more and more widely adopted by enterprises and service providers thanks to their scalability and flexibility. SIP interoperability between the different implementations of the standard can become an issue, with a great number of vendors now offering full IP solutions.

SBC Lite is a software option available in the Aethra Telecommunications Routers and Integrated Access Devices which helps Service Providers keep their voice networks separated from the end user networks.

SBC Lite guarantees both easy interoperability and security: the end user IP PBX is connected to the SBC Lite only, which takes care of managing the connection with the voice network.

## Network Separation and Security

SBC Lite keeps the Service Provider

Network completely separated from the Customer Network.

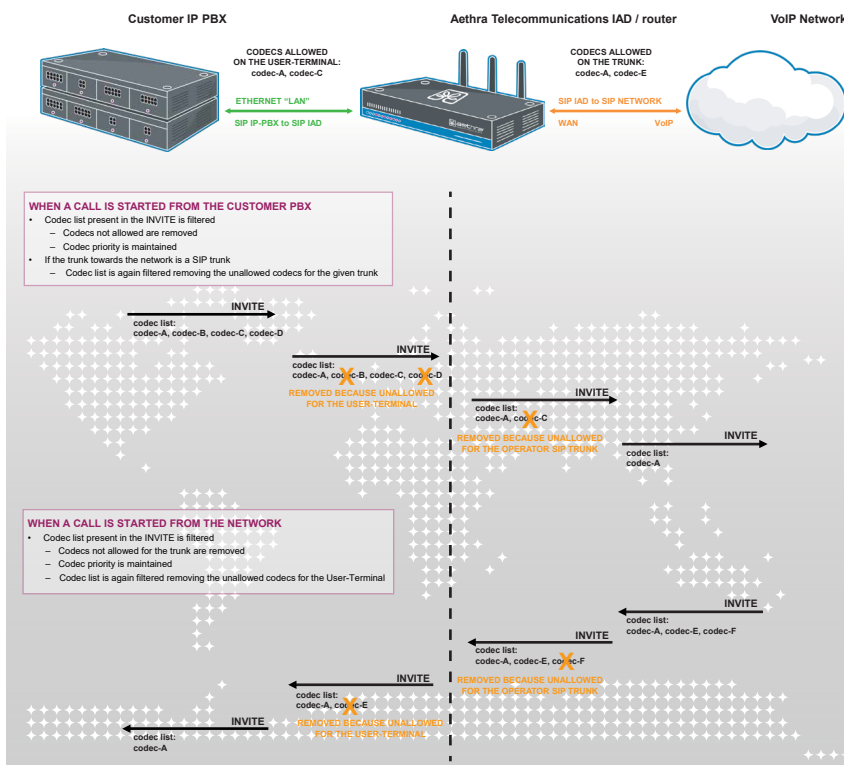
All the SIP network credentials are stored in the Access Router and do not need to be communicated to the end user; the IP PBX SIP trunks are connected to the Access Router which will manage the connection towards the Service Provider Voice Network.

Moreover, Routing and Access Lists (ACL) configuration can make the Voice Network completely inaccessible from the LAN.

## Codec Filtering and Manipulation

As described in Figure 1, SBC Lite gives to the service provider the possibility to fully control which codecs are used in the network.

Whenever a call is initiated either from the network or from the customer IP PBX the call signalling is monitored in order to manipulate and filter the codec list in order to prevent calls to be established using unallowed codecs.



**Figure 1: Codec manipulation using Aethra Telecommunications SBC Lite.**

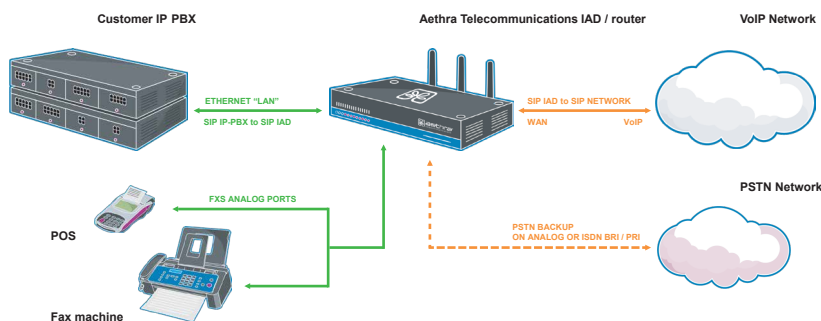
DEVICE	MAX # OF LAN SIP TRUNKS	MAX # OF CONC. CALLS
BG75xx Series	5	30
BG85xxE Series	5	60
SV6044E Series	8	90
SV6000M Series	8	90
AS2450	8	90
AS6060	8	90

**Table 1: Max number of LAN trunks and concurrent calls per device.**

## Embedded ATA and PSTN Fallback

Aethra Telecommunications Routers and Integrated Access Devices include embedded analog FXS / FXO and ISDN voice interfaces and support both TDM and SIP voice traffic.

- FXS ports can be used to connect fax machines, POS devices, alarms and any other legacy analog device that still exist in the customer network;
- FXO and ISDN TE guarantee the possibility of automatic falling back to legacy PSTN service in case the main SIP trunks become unavailable.

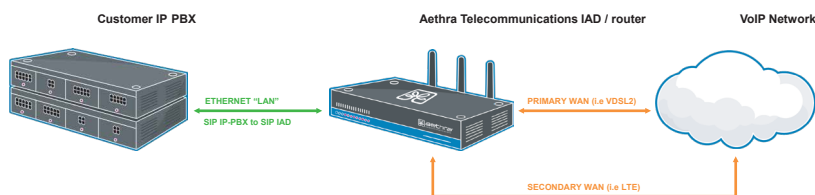


**Figure 2: Embedded ATA for legacy analog devices and PSTN fallback.**

## Resiliency and Multi WAN

Aethra Telecommunications offers a wide range of fixed and mobile broadband access options. Integrated Access Devices and Routers can be equipped with all flavours of DSL (from ADSL to SHDSL to VDSL2 - including the new 35b profile), Fiber, Ethernet and mobile 3G/LTE.

Devices support multiple WAN connectivities granting access backup or load balancing to the end users.



**Figure 3: Multiple WAN interfaces assure connectivity backup.**