

Safe-com Babylon IP

Encryption device for IP-based communication with AuDIT (Automatic Detection/Configuration of Intelligent Tunnels)

Protects confidentiality of IP based voice and video communication

AES Encryption with 256 Bit key length

Triple-DES Encryption with 192 Bit key length

Automatic tunnel establishment using AuDIT

Full support of IPSec standards

Completely transparent to the user

Noiseless, no fan

Available for stand-alone video conferences and MCU

Multicasting for multipoint videoconferences

Take security into your hands

IP networks, such as the Internet, are in use everywhere and deliver all kinds of applications directly on an user's desk. After voice transmission with 'Voice over IP' (VoIP) has discovered the IP world, the most widely used video conference systems now also support the so called 'Video conference over IP' (VCoIP) and offer an IP network connection along with the traditional ISDN link.

However, typically IP connections take place over a large network – the Internet – and all a hacker or an eavesdropper needs is just an internet link and the right tools. The threat to video conferencing reaches a new order of magnitude: virtually every internet user can wiretap an IP video conference.

Encryption becomes more important than ever.

Safe-com offers the required protection of confidentiality for the VCoIP, through the encryption system for IP packets Babylon IP.

Babylon IP protects video conferences

Babylon IP encrypts the complete data stream thus preventing unallowed access to video and voice. Safe-com Babylon IP is installed at sender and receiver side between the video conference system or MCU and the IP network.

Calls are automatically encrypted in a way which is fully transparent to the user.

Firewall functionality for video conferences

Whilst strong encryption ensures the confidentiality of a voice or video communication, an open net such as the Internet offers a number of other technical possibilities to disrupt this communication. Against these attacks Babylon IP provides protection by means of its firewall functionality. This is based on the long-standing expertise of Safe-com in the area of network security.

Easy migration

Many video conference systems are already equipped for a migration from ISDN to IP and provide connection to both types of line. Safe-com offers strong encryption for both protocols and is equally equipped for a migration from ISDN to IP.



Two variants of AuDIT

1.) Automatic detection and configuration

Detects if a tunnel can be established with the counterpart gateway. The tunnel will be configured and used, but deleted after the next reset.

2.) Automatic detection and permanent configuration

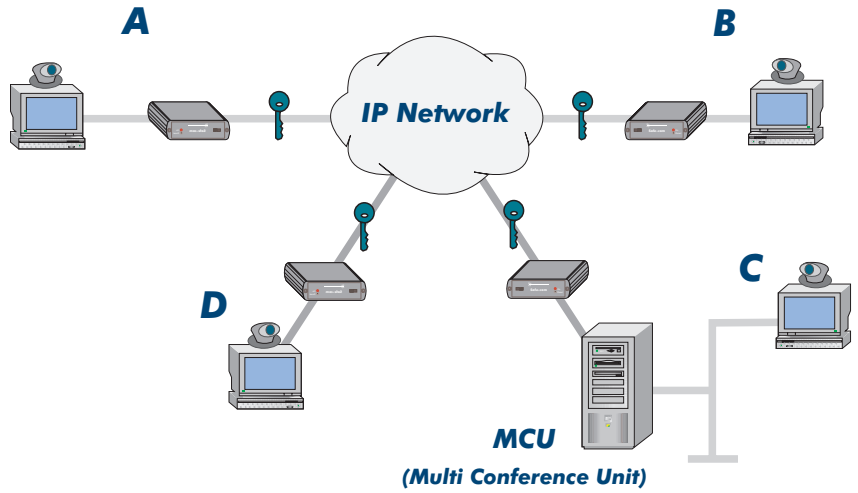
Detects if a tunnel can be established with the counterpart gateway. The tunnel will be configured and used, and the connecting data will be stored permanently in the configuration memory.

If a tunnel was recognized and established and a VPN connection is no longer possible, no data transfer connection will take place.

The „Man in the Middle Attack“ will be excluded by using device certificates for authentication. An additional authentication will be realized by a “hash number” shown on the LCD display of the Babylon IP and confirmed by each side verbally.

Encryption

Encryption is carried out with DES, 3DES or AES. With its integrated hardware encryption, up to 70 Mbps VPN throughput can be attained.



The TIGER mode enables a security integration without having to undertake modifications to the IP routing.

With the optionally embedded Kaspersky AVP module, Babylon IP becomes a complete security appliance which combines firewall, VPN and anti-virus protection functions in one powerful, compact hardware device. Special software features and its perfect fit in SNMP-based network management structures make the Babylon IP perfectly suited for use in mid- and large-sized IP networks.

Management

Babylon IP is managed web based (HTTPS), using the Command line interface (SSH) or SNMP v1, v2, v3.

Other Babylon products

- o Babylon Basic for BRI (2 ISDN B-channels)
- o Babylon 4xBRI (up to 8 ISDN B-channels)
- o Babylon PRI (up to 30 ISDN B-channels)
- o Babylon Serial for data up to 2 Mbps
- o Babylon SAT (Inmarsat)
- o Babylon G.703 (2 Mbps leased line)
- o Modular rack version
- o Safe-com SecurityManager management software
- o Babylon Status Control

Technical specification

Size

10,8 cm x 3,5 cm x 12,5 cm

Standards

IPSec / IKE Internet Standard
RFC 2401 - RFC 2412

Safety

FCC, TUV, CE, PSE, UL, CUL, CB, CNS, CCIB, CCEE, NEMKO

Internet access

PPPoE, PPTP, Static IP, Stealth, DHCP

VPN throughput (3DES)

35 Mbps

Authentication

x.509v3 certificates with RSA or PreShared Keys (PSK)

Symmetric algorithms

- AES encryption with key length of up to 256 Bit
- Triple-DES encryption with key length of up to 192 Bit
- DES encryption with key length of up to 64 Bit

Asymmetric algorithms

- RSA, Diffie-Hellmann
- Can be routed via Internet und standard IP networks
- 10/100 Mbit Ethernet devices
- Configuration via serial console or Secure Shell Encryption

IPSec Mode

ESP Tunnel/ESP Transport

Data integrity

MD5, SHA-1



Safe-com GmbH & Co. KG
Burg Lichtenfels 1
35104 Lichtenfels/Germany

www.safe-com.com
info@safe-com.com

T +49 (0) 64 54/79 92-0
F +49 (0) 64 54/79 92-30