

Asterisk Based VoIP PABX

IP Cortex VoIP phone systems unlock the benefits of standards based telephony over IP networks, making them available to all businesses. Flexibility and sophisticated communication features are now available in a package which is uniquely useable and affordable.

Without the expensive lock-in of proprietary digital phone systems and inflexibility of dedicated fixed phone cabling, phone systems can be built in the same way as computer networks. Adapting the phone system to your needs is simply a case of adding the most suitable and cost effective component available at the time to your existing Open Infrastructure.

Standards Based

Any standards compliant SIP based IP Phone can be added to the system. This unlocks the potential of a huge range of existing and future telephony clients from basic PC or PDA based softphones, wireless and special purpose devices to sophisticated business desk and console phones.

Analogue Telephony Adapters (ATA) provide a simple and cost effective way to integrate simple analogue phones into the system.

Integrated zero-touch provisioning of hard phones and telephony adapters from selected key vendors who provide open documented interfaces means that these devices can be added to the system without time consuming device configuration.

No Cost Upgrades

Changes to the PABX hardware are only required when more local PSTN interfaces are needed. Simple upgrades like adding more extensions do not require any additional PABX hardware or expensive licences, just buy more phones out of the vast range available from competitive manufacturers whenever required.

Simple GUI

All the above features are orchestrated on the PABX via a simple to use graphical user interface. Functions such as adding extensions, DDI ranges, call routing and voicemail are all configured easily from a powerful web-based interface which is compatible with most standard HTML browsers.

VoIP Telephony

Flexible, Open Standards Based Telephony Systems

Automated Phone Provisioning

Simple Web Based Management

ISDN2, ISDN30e and VoIP Termination Options

Rack Mounted 1U, or Wall Mounted Compact Devices



Specifications

An open, standards compliant VoIP PABX based on Asterisk software running on a Linux operating system platform with a local web based management interface.

Functionality

- Compatible with SIP based soft and hard phones
- ISDN2 & ISDN30 local telephony interfaces
- Voicemail
- Web based configuration interface
- Call logging & billing
- TAPI PC integration (optional)
- Custom interactive voice response (IVR) platform
- IAX2 & SIP VoIP trunking
- Hot desking interface
- Pickup groups
- Integrated phonebook and directory generation
- Auto configuration of compatible phones
- Flexible Night Mode operation

Hardware

Two hardware platforms are available.

A compact, low power wall mounting unit with no fans or internal ventilation is an ideal platform in a small office environment where secure space is limited.

At just 230mm deep, the more powerful 1U rack mounting unit can sit alongside LAN switches in a small rack, and benefits from more disk space for voicemail.

1U		Compact Wall Mount	
CPU:	1GHz	CPU:	1GHz
RAM:	512MBytes	RAM:	512MBytes
Storage:	30Gb	Storage:	30Gb
Power Supply Max/Typ	Internal 120W/50W	Power Supply Max/Typ	External 80W/30W
Fans:	2	Fans:	0
Card Slots	1	Card Slots	1
Dimensions	W: 430mm D: 230mm H: 44.5mm	Dimensions	W: 190mm (217mm to edge of mounting flanges) D: 85mm H: 190mm
LAN	10/100 Ethernet 100BaseT	LAN	10/100 Ethernet 100BaseT

Standards

- RFC3515 SIP
- RFC3550 RTP
- IEEE 802.3 (Ethernet), 802.1Q (VLANs, Priority)
- RFC 2616 HTTP
- HTML
- RFC2131, RFC2132 DHCP
- RFC1350 TFTP
- RFC1122 TCP/IP

A built in DHCP server and web configuration server provide everything necessary to manage a segregated network of VoIP phone equipment. Where phones are deployed on an existing or single mixed data and voice network segment then this can be disabled so that the existing DHCP server is used.

Phone Management

Integrated configuration support for the following hardware SIP devices is incorporated:

- Aastra 9112i phone
- Aastra 9133i phone
- Aastra 480i phone
- snom 190 phone
- snom 320 phone
- snom 360 phone
- Linksys/Sipura SPA2002 ATA
- Linksys SPA-941 & SPA-942 phones
- Elmeg IP290 phone

Any other truly SIP compatible devices will interoperate once manually configured.

Telephony Interface Options

Single ISDN2e		Quad ISDN2e		Single ISDN30e	
Manufacturer:	Dynamode	Manufacturer:	Junghanns	Manufacturer:	Sangoma
Interfaces:	1 ISDN BRI	Interfaces:	4 ISDN BRI	Interfaces:	1 ISDN PRI
Channels:	2	Channels:	8	Channels:	30
Chipset:	Cologne HFC	Chipset:	Cologne HF4S	Chipset:	Sangoma

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