

Telephony Solutions

*Advanced Billing
and Network Solutions*



**SIGNATURE NETWORKS
LIMITED**

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Signature Networks offer a fully featured Telephone System designed for Voice-over-IP, ISDN and analogue technologies. The system has optional billing modules for Pre-pay, Pay-on-account and PMS connection. It is a most economical telephony solution for just a few phones to many thousands.

The system is ideal for any business requiring an efficiently priced telephone solution with low call charges to most worldwide destinations and free voice communications with other VOIP based systems.

The billing facilities are particularly useful for Hotels, serviced apartments, Hospitals and student accommodation centres requiring a simple and efficient method of collecting subscriber payments in advance.



Business Benefits

- A truly low cost and efficient telephony solution
- Highly scalable with low administration for billing operations
- Not locked into a long term contract
- Not locked into proprietary support and maintenance services
- Low risk Operating System built on Linux for stability and open standards
- Low Risk Telephony system built on Asterisk (an International open system technology)
- Simple to administer using graphical windows interface
- Many features such as answer phone and conferencing included at no extra cost
- Our built-in dual technology provides an ideal migration path from traditional PBX to VOIP.
- Optional pre-paid billing services are completely automatic using credit card and voucher based phone top-up.
- Credit card payments are automatically transferred to your bank account for low levels of administration
- Integrated PMS gateway to simplify connection to Hotel Systems



Advantages of VOIP Over Traditional Telephony

- Cost reductions on line connection and rental to the Public Telephone Network - expensive ISDN leased lines or quantities of analogue circuits are not required as calls are made over broadband.
- There are considerable cost savings to be made using VOIP phones to connect to your PBX. VOIP requires just 1 Ethernet connection on the switch but analogue and ISDN phones require 1 hardware port per phone (costly)
- The VOIP switch we provide is inclusive of answer phone for each phone, DDI, Music on Hold, Conference Calls and many other features. A non-VOIP switch nearly always has these available at significant extra cost.
- A VOIP switch for a 50 room hotel costs around £1,800 supplied and installed. This is considerably lower than a non-VOIP switch
- The world is moving rapidly to IP technology and investment in older technology could be a costly mistake.

Why use Signature Networks

- Experienced in small through to large scale VOIP telephony design and implementation.
- We deliver all-inclusive projects from design and implementation to long term support
- We offer a flexible product range from a selection of phones to customised hardware platforms.
- Specialists in billing technologies and customisation of payment methods to suit your requirements
- We offer Prepay and Postpay VOIP termination at UK Telehouse locations
- Inclusive Network, IT and ISP products and services as required
- Established and stable company since 1995



Telephony Billing Features

The optional billing modules are specifically designed for low levels of administration and ease of use by subscribers. Using both scratch-card and web based credit card purchasing for prepayment of calls this facility is ideal for collecting payment in advance. The PMS gateway connects for over 40 different systems used by Hotels worldwide.

Connection to PMS

Instantaneous billing for billback environments such as: hotels, motels, resorts and hospitals. The PMSG provides all the necessary tools for check-in, check-out, markups, surcharges and posting to property management systems.

Below is a list of around 50% of our supported PMS protocols. Please contact us for a full list.

CheckIn	InnSystems 80
Choice PM	Galaxy
Bell HOBIC	GEAC/UX
Best Western Nova Plus	HOBIC compliant serial interface
Computerized Lodging Systems (CLS)	Hotel Information Systems (HIS)
Datamate	Lodging Management System (LMS)
DSC	Marriott PMS
Medallion	Maestro
Easy InnKeeping (GraceSoft)	National Guest Systems
Encore	Megasys Hospitality Systems
Logistics	Opera
Fidelio / Micros	Pegasus
Hilton H1 & H2 HOTIX	Profit Manager (Choice Hotels)
Hyatt PMS	Protocol Technologies
InnSoft	Springer-Miller

Pre-Paid Billing and Top-up Features

The easy-to-use Interactive Voice Response (IVR) system uses a built-in voice enunciator to send voice prompts and call credit information to subscribers who in turn press telephone keys to enter PIN numbers.

Telephones have pre-paid credit accounts that will only allow PSTN calls if there is sufficient credit in the account.

The Billing system supports the following Pre-Paid features:

- PIN number generation
- Scratch Cards/Vouchers
- PIN purchase via online Credit Cards
- Announcements for time/credit remaining
- Account top-up and roll-up
- Call disconnect on zero credit
- Reports of PIN Stock/Used
- Worldwide country codes and areas



Telephony Features

Our Asterisk-based telephony solutions offer a rich and flexible feature set. Asterisk offers both classical PBX functionality and advanced features. Asterisk interoperates with traditional standards-based telephony systems and Voice over IP systems. Asterisk offers the advanced features that are often associated with large, high end (and high cost) proprietary PBXs.

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

Available Systems

Three hardware platforms are available as standard and we can build to your specification on request

1. 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.
 2. A powerful rack mount server for larger deployments of 100's of phones
 3. At just 230 mm deep, the 1U rack mounting unit can sit alongside LAN switches in a small rack, and benefits from more disk space for voicemail.
- Compatible with SIP based soft and hard phones
 - ISDN2 & ISDN30 local telephony interfaces
 - Voicemail
 - Up to 80 simultaneous calls (expandable to 128)
 - 1000's of phone via 1 x 100Mbit/s Ethernet Port
 - Web based configuration interface
 - Call logging & billing
 - Interactive voice response (IVR) platform
 - IAX2 & SIP VoIP trunking
 - Hot desking interface
 - Pickup groups
 - Integrated phonebook & directory
 - Auto configuration of compatible phones
 - Flexible Night Mode operation

Wall Mount Case (15 simultaneous calls, 100 ext)	
CPU:	1GHz
RAM:	512MBytes
Storage:	30Gb
Power Supply Max /Typical	Internal 120W/50W
Fans:	2
Card Slots	1
Dimensions	W: 430mmD: 230mm H: 44.5mm
LAN	10/100 Ethernet
1U Rackmount Case (15 simultaneous calls, 100 ext)	
CPU:	1GHz
RAM:	512MBytes
Storage:	30Gb
Power Supply Max/Typical	External 80W/30W
Fans:	0
Card Slots	1
Dimensions	W: 190mm D: 85mm H: 190mm
LAN	10/100 Ethernet
1U Rackmount Case (80 simultaneous calls, 500 ext)	
CPU:	Dual Zeon 3Ghz
RAM:	1GBytes
Storage:	80Gb
Power Supply Max/Typical	Internal120W/50W
Fans:	2
Card Slots	1
Dimensions	W: 430mmD: 850mm H: 44.5mm
LAN	10/100/1000 Ethernet

Compatible Phones & Management

Any SIP compatible device, analogue or ISDN phone will interoperate with the Asterisk switch. Some examples are given below and most include automatic configuration by a DHCP server.

A wide range of phones is available from Signature Networks including:

- Analogue
- Digital (ISDN)
- SIP Wireless 802.11
- Dual GSM/802.11
- Dual Ethernet SIP phones for connecting phone and PC via one Ethernet link to the communications back office

Some specific examples are:

- Safecom SD-SIP 5000 phone
- Cisco 7912G phone
- Aastra 9112i phone
- Aastra 9133i phone
- Aastra 480i phone
- snom 190 phone
- snom 320 phone
- snom 360 phone
- Linksys/Sipura
- SPA2002 Analog Telephone Adaptor
- Linksys SPA-941 & SPA-942 phones
- Elmeg IP290 phone

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