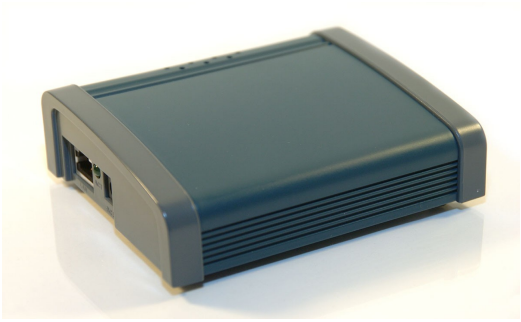
Provu Analogue PBX-To-VoIP Solution

Introducing a VoIP Telephone system alongside an existing PBX



- No need to throw away expensive PBX system, get started with VoIP without having to invest in large amounts of new hardware.
- Utilise existing broadband Internet connection to place very cheap national & international phone calls.
- Gradually phase in VoIP telephone system while retiring parts of the analogue PBX system.

Requirements

- An analogue extension port for each VoIP adaptor to be connected.
- A broadband Internet connection.
- Accounts with a VoIP Service Provider for every adaptor to make/receive VoIP calls.
- A spare RJ-45 Ethernet network port for each adaptor.

Homeworker/Remote Office Situation

- Homeworkers can connect up to the office PBX system just as if they were still sat in the office!
- Secure communication over the Internet using VPN & encryption techniques. Unlike analogue phone lines which are easily tapped.
- Using a SIP proxy & session border controller service, setup is very easy & quick. NAT traversal is no problem & your networks remain secure. Plus users get a SIP account they can use for VoIP anywhere.
- Using a VPN, there is a secure connection between the remote site & main office which can also be used for data. More expensive to setup & is overkill for some users.
- Sipura units are highly configurable to suit most analogue PBX systems.

Requirements

- Broadband Internet connection at the main office & remote site.
- A spare RJ-45 Ethernet network port for each adaptor.

Plus either:

- Accounts with a VoIP Service Provider for each adaptor.

Or:

- VPN server equipment for the main office & VPN client hardware at the remote site. Both could be in the form of a router such as the Intertex IX66+ or IX67, or the server could be a PC running VPN server software.

Other Considerations

Quality **o**f **S**ervice: the upstream speed of an ADSL Internet connection is the limiting factor in VoIP as in the UK it is often still as low as 128kbps. This will only allow for two simultaneous VoIP conversations (using the common G.711 codecs) alongside some mild web browsing. However, using a QoS enabled router will guarantee this bandwidth is always available for voice no matter how much web browsing or downloading is going on. The Intertex IX66+ & IX67 VoIP Router devices will prioritise SIP conversations automatically.

PBX Wiring Schema: please refer to the Sipura Setup Document for information on dealing with different wiring used for analogue PBX systems. The Sipura adaptors take US-style RJ-11 connectors & we can supply BT to RJ-11 adaptors.