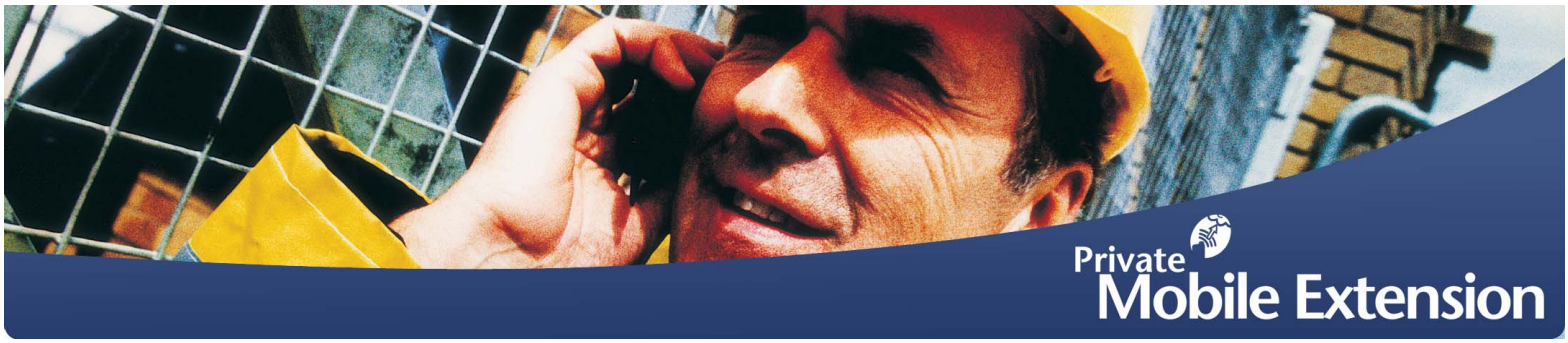

An attractive enterprise-class telephony solution for the Small to Medium Sized Business (SMB) – all on a monthly pay-as-you-go basis

Private Mobile Extension (PME) combines the cost advantages and features of an IP Telephony solution with the benefits of using a private mobile network.

The PME is delivered as a hosted service over an IP network (e.g. DSL or MPLS) using the Private Mobile Access Point provided to create a local and private mobile network. This means that you can use mobile phones for calls within the office, warehouse or campus. Further access points can be added as necessary to ensure guaranteed mobile coverage with all the features usually associated with fixed line phones available on your mobiles.

Why have a Private Mobile Extension

PME avoids the need to purchase a telephone switch (PBX) and related handsets in order to deploy a corporate telephony solution. This unique solution delivers the mobility and flexibility advantages of the mobile phone, combined with the cost and application advantages of a hosted VoIP solution. By using the same mobile technology standards as the mobile operators, voice quality is high and support for SMS and GPRS are available.

PME can be enhanced with a number of powerful telephony applications to extend support for flexible working through intelligent call routing, cost effective conferencing and call recording. PME users can take advantage of additional applications for call management, such as Auto Attendant, IVR and Contact Centre solutions.

Creating the local Private Mobile Network

A PMN Access Point, installed at your local site, provides coverage for your mobile phone in the local area and enables no-cost calls between mobiles on-site and calls out are made using an IP network connection. Multiple Access Point units can be deployed as necessary to ensure full coverage of the site. Outside of this coverage area, calls are made via your usual Mobile Network Operator.

Key Benefits

Network transition ensures **cost efficiency** with automatic transition from macro mobile network to private mobile network when in range

PME means **brilliant coverage** where existing mobile service is poor, congested or non-existent

PME enables **telephone call cost savings** – mobile services at landline prices in the office

PME **removes** the need to change handset or network provider

No costs of change or training costs

Providing the **convenience** of the mobile with **features** of the fixed network

Potential for **cost savings** on fixed infrastructure

PME technology **decreases the transmitted power** of the handset, meaning less drain on batteries and much less transmitted power than either DECT or WiFi

PME means one device, one number – **convergence without compromise**

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Features and Benefits

- Standard package available with additional PMN Access Point, handset and application options
- Simplified radio planning for maximum coverage
- Immune to interference from WiFi or video senders
- Ability to transfer a call between handsets
- Ability to have multiple handsets talking on the same call
- Ability to make internal calls between handsets without incurring call charges
- Support for caller id
- Powerful intelligent routing and messaging applications available (see intelligent Office datasheets)
- SMS and GPRS functionality available
- Centralised individual phonebook on mobile
- Multiple handsets to one base station
- No need for telephone sockets/cabling
- Provided as a hosted service with no on-site PBX required.

PMN Access Point Specification

Call capacity: (per PMN Access Point)
8 channels
(7 Voice, 1 call control)

Transmission Range
350m (omni-directional open air)
100m (omni-directional in-building)
Subject to site conditions

Dimensions
L 275mm, W 205mm, D 63mm

Weight
< 2kg

Operational Temp/Humidity
Temp: -5 to+45°C Ambient
Humidity: 5-90% non condensing

Input Voltage
36-57vDC (to cover POE range)

Input current
500mA from 36v input

Maximum transmission power
+23dBm (200mW)

Network Transition

The user will experience seamless transition from the private to public mobile network when using an approved mobile handset, that is, those running the Symbian S60 or UIQ and Microsoft Mobile Versions 5 and 6 mobile operating systems. See the following web links for:
Compatible Symbian S60 phones:
http://www.s60.com/life/s60phones/browseDevices.do
Compatible Microsoft Mobile Versions 5 and 6 phones:
http://www.microsoft.com/uk/windowsmobile/smartphone/default.mspx

The application is delivered to the phone using an SMS message containing the download link. Once the application is installed, it will operate automatically.

Solutions are typically provided without handsets. However we can offer additional handset packages on request.

Installation

The IP Telephony connection is provided as a hosted service and no installation is required. The hosted service is delivered over DSL or IP wide area connections. Locally, PMN Access Point units are required. Prior to installation, radio planning determines where the PMN Access Point units are needed to provide coverage in the local area and for the number of users being supported. Our Project Team provides on-going support and advice on the required pre-installation works and assist in the installation of the PMN Access Points.

The solution is plug-and-play with Ethernet connectivity between the PMN Access Point(s) and the local network connection. On-going administration is possible through the web-based administration tools provided and no specialised skills are required.

Protocols Supported

GSM – including 08.06, 08.08
GPRS – including SIGTRAN interfaces
SIP – RFC 3261
SDP – RFC 2327
Hold requests – RFC 2543 and RFC 3261
RTP – RFC 1889 and RFC 1890
Audio – GSM FR, G.711 (a– and μ–law) and G.729
Voice – Analogue DID, E1, QSig
XML – 1.0
HTTP – 1.1