

Guidance notes for the implementation of Analogue Mobility Extension Solutions



Purpose.

This document has been designed to assist solution providers in the design and deployment of the 2N Analogue Mobility Extension Solution.

Understanding the 2N Analogue Mobility Extension hardware.

The 2N Analogue Mobility Extension is a product that can have the following amount of users and simultaneous calls / sims.

	Users	GSM ports
ME 48	48	8



Both the User ports and the GSM ports come in multiples of two.

The Mobility Extension (ME) connects to analogue extension ports on the telephone system.

For each user of ME there needs to be an analogue extension port on the telephone system.

If the user already has an analogue telephone handset then the pass-through adapter allows for quick and easy deployment of ME.

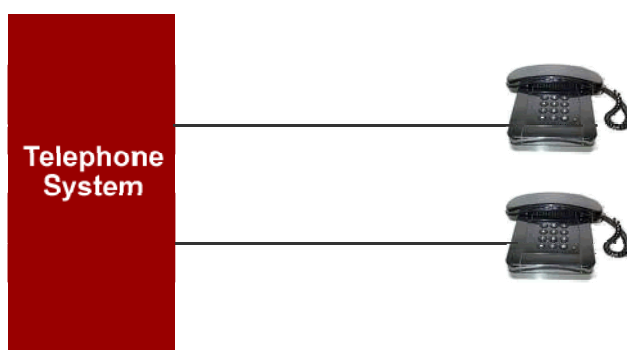
One very important point to remember with either method of installation is that the analogue extension ports on the telephone system must be loop calling and the recall (flash) must be timed break recall (TBR). Although earth calling analogue extensions (ELR) are very rare you may come across them on old BT systems such as Monarch, Regent, Kinsman and TSX50 or on the Mitel platforms SX10, SX20 and SX50. The information about the type of recall can usually be ascertained by looking at the settings on one of the user's telephone handsets, (usually found on the base or the rear of the handset).

The facility to send an SMS to the mobile user if they miss a call is only supported if when using the analogue extension port on the telephone system the it supports Caller ID (CLIP).

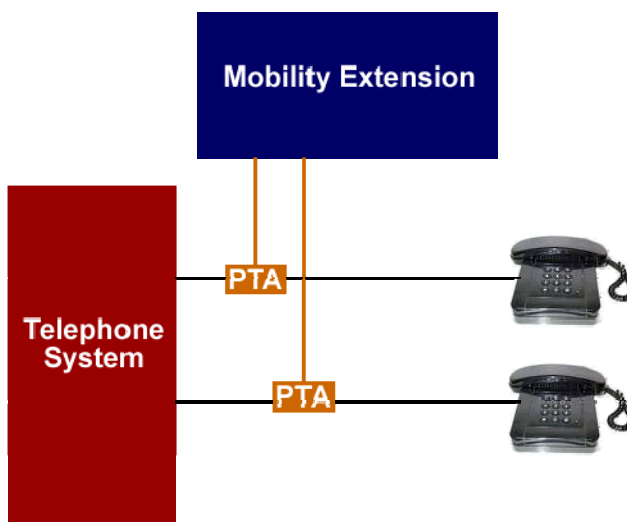
Deployment of the 2N Analogue Mobility Extension

2N Analogue Mobility Extension can be deployed in two ways. The options for connectivity and the requirements of each solution are explored below.

Installation onto existing analogue extensions.



By far the easiest way to deploy the 2N Analogue Mobility Extension is where the users already have analogue extensions.



Installing the intelligent pass through adapters (PTA) between the telephone system and the analogue extensions, the ME port is effectively connected in parallel with the user's analogue extension.

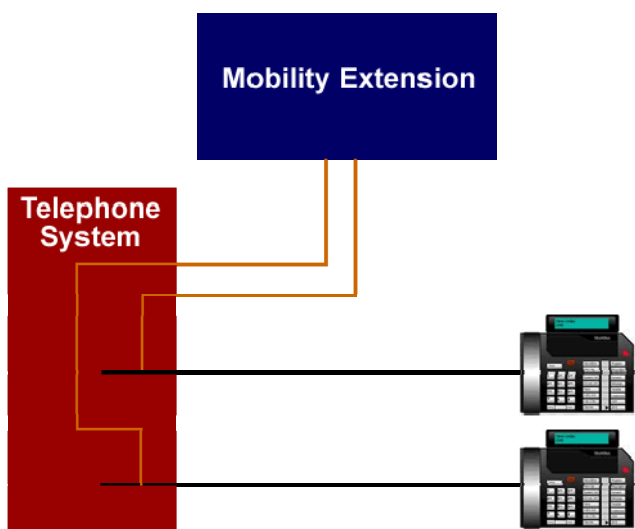
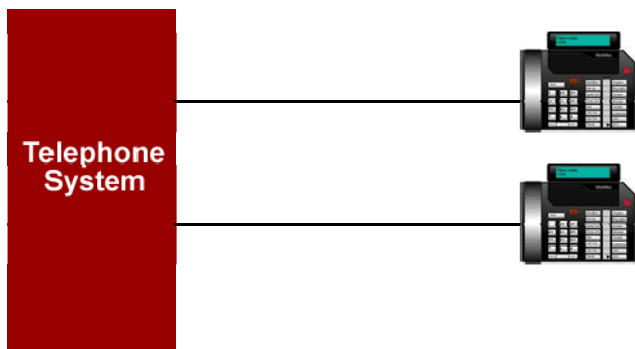
This option has several advantages:-

- No need for any extra analogue extension ports in the telephone system.
- No need for the maintainer of the telephone system to be involved.
- The intelligent pass through adapter (PTA) ensures that only one device is active when there is a call in progress.



Installation into a digital extension environment.

When deploying ME to work with digital extensions, it is not possible to connect the system directly to the extension ports off of the telephone system, this is because digital extension ports use proprietary protocols.



For every digital extension that requires use of ME, you will need an analogue extension port on the telephone system.

It is necessary, for the maintainer of the telephone system, to establish a relationship between the digital extension port and the analogue extension port. This should be configured so that they both ring at the same time. This needs to be done for every Mobility Extension user.

Things to remember with this type of deployment:-

- Every Mobility Extension user will need an analogue extension port on the telephone system.
- The PBX maintainer will have to do the configuration of the analogue extension ports, so that they ring at the same time as the digital extensions.



Things to know before deploying Analogue Mobility Extension.

Customer Name		
Number of ME users		
Number of GSM Ports		
Type of Telephone System		
Number of ME users with analogue telephones		
Number of ME users with digital telephones		
*Number of available analogue ports		
*Are extra analogue extension cards required?		
Telephone system maintainer		
Contact number		
Contact name		
Which GSM Network is to be used for ME?		
Location for ME		
Signal strength at ME location		
Is an external aerial required?		

* only applies to users with digital telephones.