

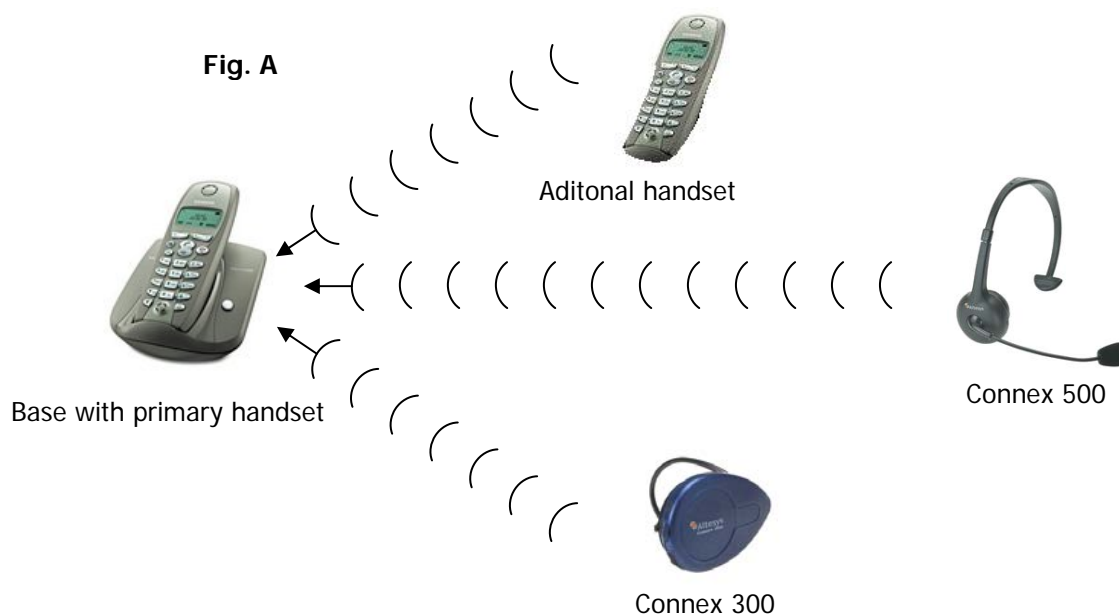
DECT GAP HEADSETS

What is DECT?

DECT means “Digital Enhanced Cordless Telecommunication” is a European standard for wireless communication systems. DECT telephones are renowned for their assurance of high acoustic transmission quality. The authentication and signal coding protocols cater for conversation privacy and exclusion of unauthorised access into the wireless network. DECT telephones operate on a frequency band of 1,88 to 1,9 GHz with transmission powers of 250 mW. Consequently, effective range within office areas is typically 40 meters whilst open space communication can reach 300 meters.

What does GAP add to the system?

GAP (Generic Access Profile) is a technical standard which defines the interface between DECT base station units and the remote terminals (portable handsets). Thanks to this standard remote terminals and base stations from different manufacturers may operate together. The procedure for associating a remote terminal to a base station is called **registration** or **pairing**. Depending on brand and model from 3 to 6 additional remote terminals may be paired to a given base, these may be handsets or headsets. (See Fig. A).



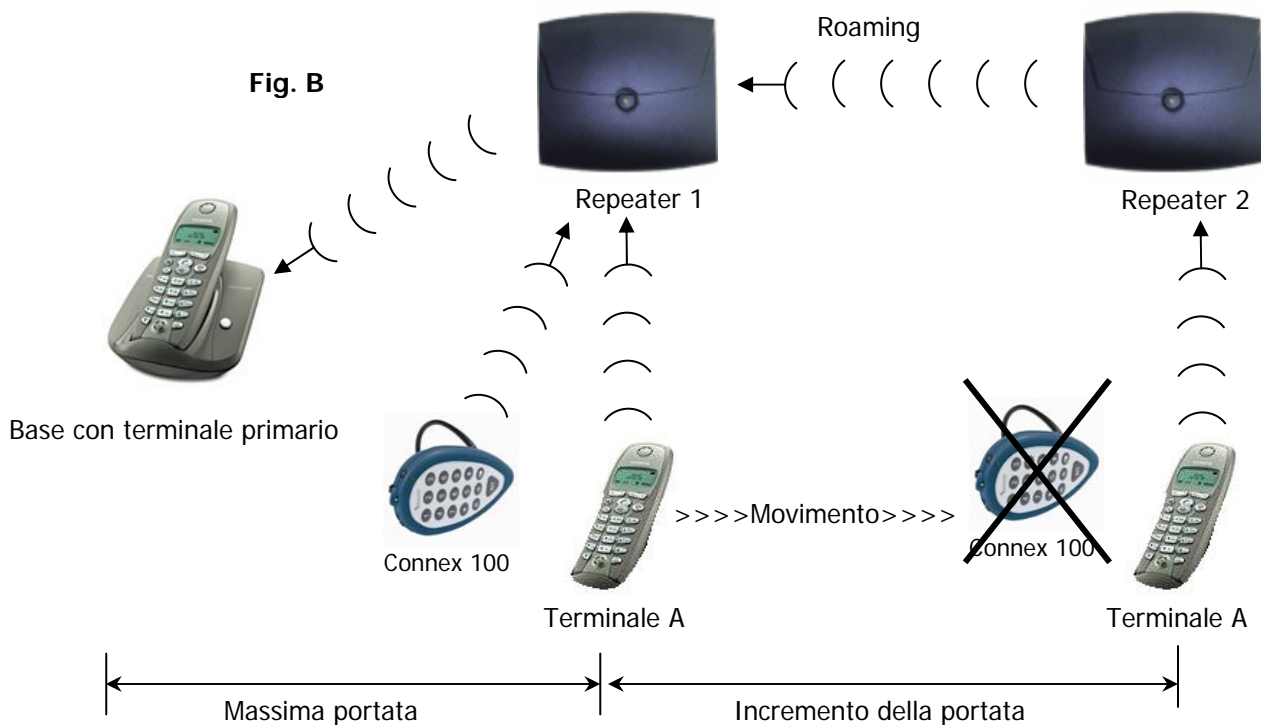
The DECT GAP headset is seen as an additional remote terminal in its own right, it is not to be confused as an accessory of the remote terminal itself.

How do I register or “pair” an Altesys headset to the base?

Firstly, it is essential to follow the instruction manual of your base. The procedures from one model to another. Obviously the base model must be GAP compatible. Furthermore, when pairing Connex 300 and Connex 500, the pairing procedure must not require the definition of a number code for identification of the remote terminal. In fact for such situations requiring a remote number code it is only possible top air with an Altesys **Connex 100** for the simple reason that it actually has a keyboard which may be used for this purpose.

What is a repeater?

A wireless repeater is usually installed when the coverage cell of the main base station is not sufficient for a given area. Sometimes there may not actually be a "main base station" but a centralised exchange box called a "DECT PBX". The repeater receives the wireless network traffic and re-broadcasts it to another cell coverage area. In this manner the remote terminals can operate over a significantly greater geographic area. If the repeaters are installed in "jump" configuration, then it is possible to have roaming, i.e. the remote terminals automatically re-pair to the repeater with the strongest signal as they move between adjacent cells. This is ideal for broad area coverage such as warehouses and multi-storey buildings.



In a repeater network we can use only the **Connex 100** because a number code is required for pairing. However, roaming is not possible as the roaming protocols are usually proprietary. Therefore the headset may be paired to one repeater at a time and the pairing procedure must be re-executed as the headset moves to another repeater cell.