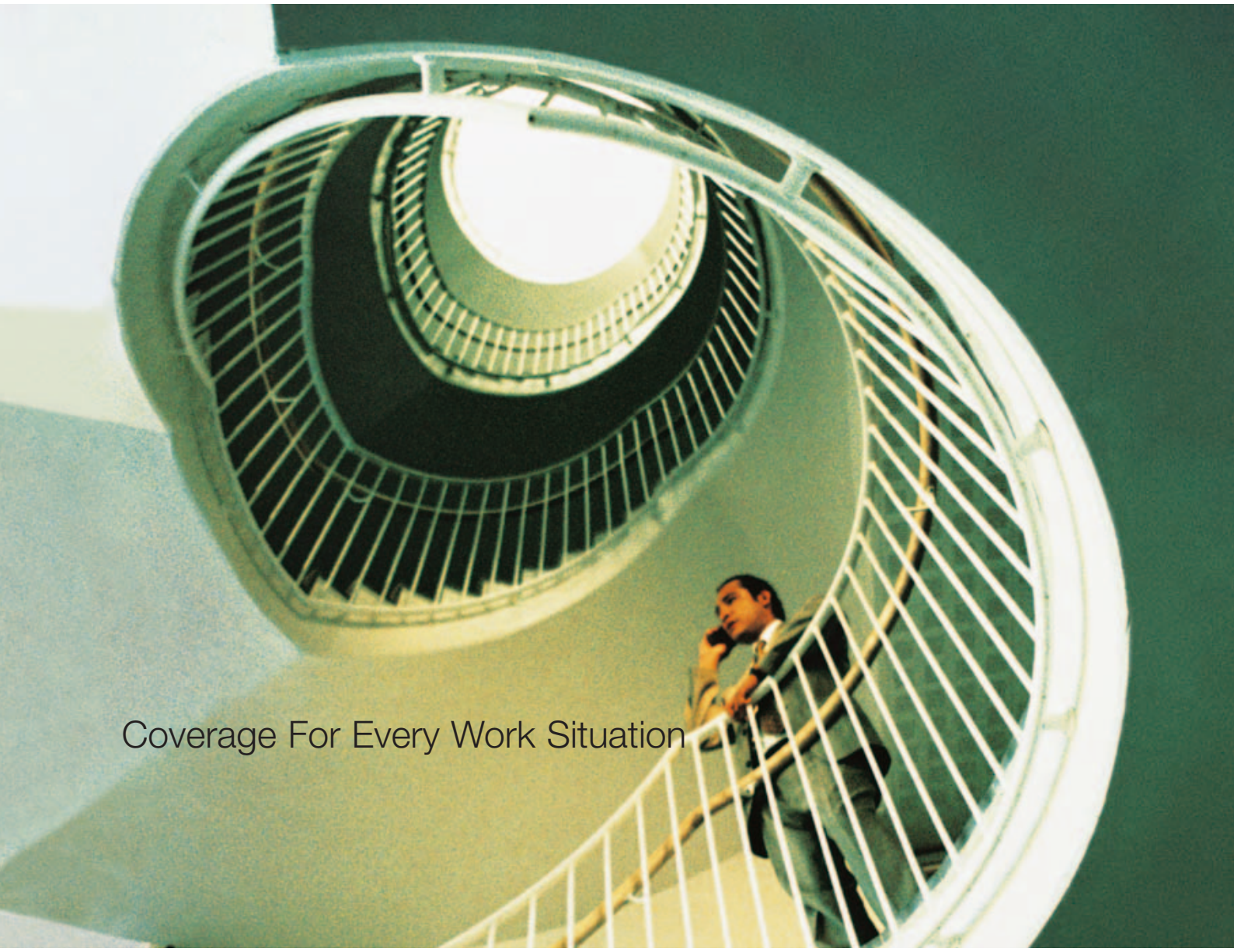
BS3XX BASE STATIONS
MAXIMUM MOBILITY
ERICSSON CORDLESS SOLUTIONS

ERICSSON

TAKING YOU FORWARD



Coverage For Every Work Situation

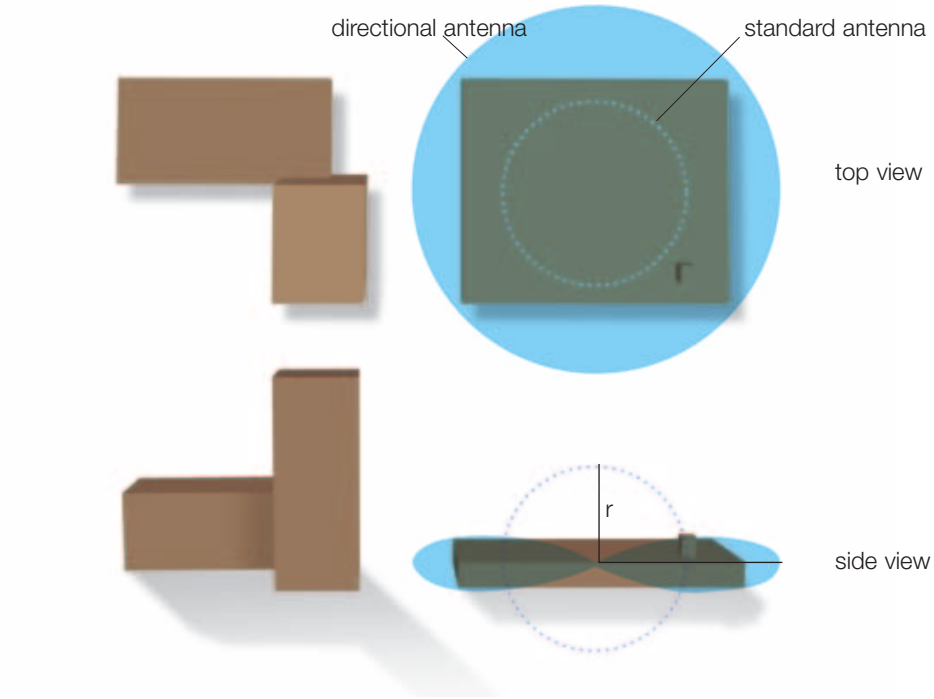
The Ericsson BS3xx range of base stations offer a variety of coverage patterns to suit different situations. By choosing the right mix of base stations and the appropriate antennae you can ensure quality coverage and sufficient traffic capacity exactly where you need it.

All Ericsson BS3xx base stations are compact, lightweight and easy to install.

BS340 Antenna Applications

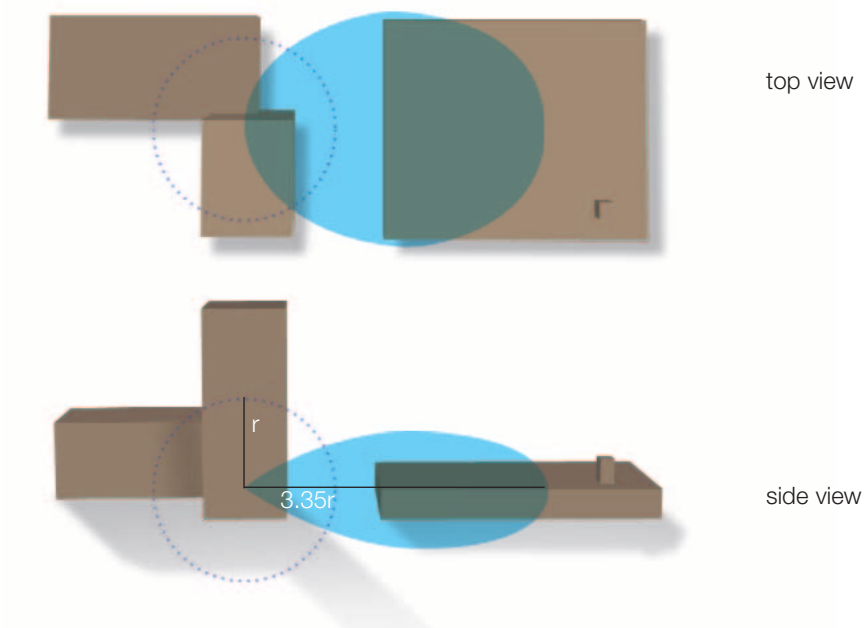
Situation 1

Base station BS340 with
omni-directional single antennae



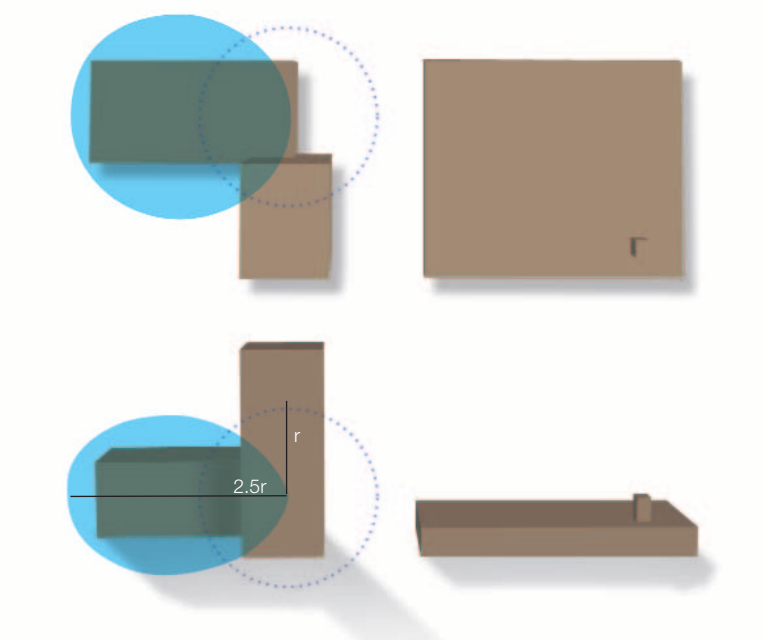
Situation 2

Base station BS340 with
directional single antennae



Situation 3

Base station BS340 with directional dual antenna



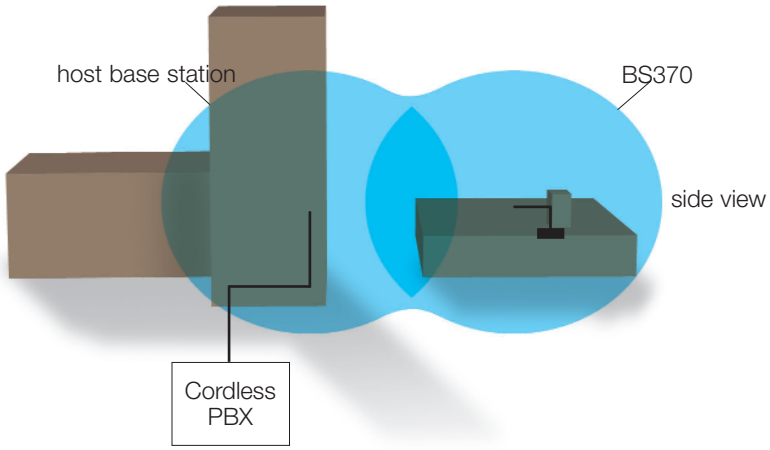
top view

side view

BS370 Wireless Relay Station Applications

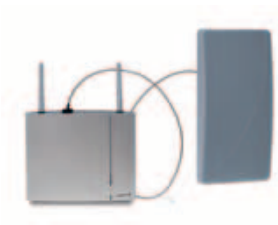
Situation 4

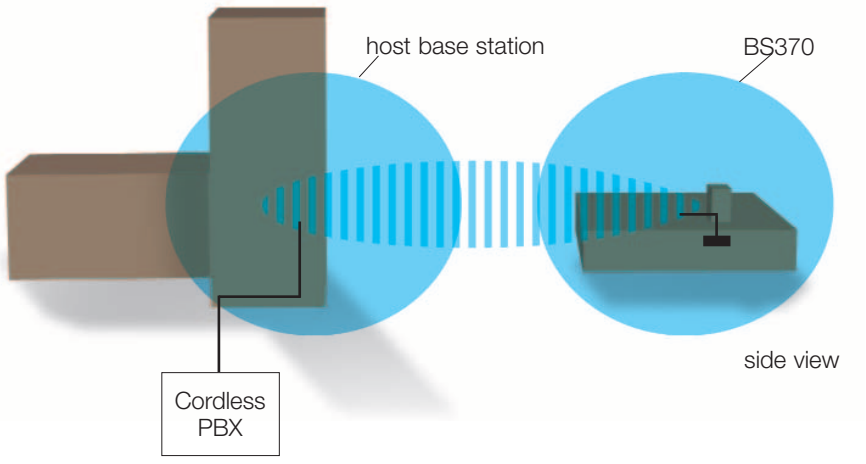
Base station BS370 with radio link to 'host' base station



Situation 5

Base station BS370 connected to 'host' base station by radio link using single directional antenna





The coverage patterns shown are close approximations to the more complex shapes of actual coverage patterns. Actual indoor range may be greater or less depending on the number of walls, building materials used, etc.

1. **BS330**

2. **BS340**

3. **BS370**

4. **Omni-directional Single Antenna**

5. **Directional Single Antenna**

6. **Directional Dual Antenna**

1. **BS330 Base Station.**
   The standard solution for most business premises. Typical indoor coverage is 30m, actual coverage depending on factors such as the spacing of walls and the building materials used. The BS330 supports up to 8 simultaneous speech calls per base station.
   Whilst the BS330 is primarily designed for indoor coverage, an outdoor housing is available for outdoor applications. Outdoor coverage is up to 300m.

2. **BS340 Base Station.**
   The BS340 shares the basic characteristics of the BS330 but comes with two external antennae. These default antennae provide a spherical coverage pattern. A number of directional antennae are also available, which radiate more in certain directions than in others. The advantage is to direct coverage exactly where you need it, reducing overall cost in cases where the ideal coverage shape is not a sphere. The diagrams overleaf illustrate a number of different examples.

3. **BS370 Wireless Relay Station.**
   Suitable for low to medium traffic capacity areas where cabling is a problem. The BS370 is connected to the cordless PBX via a radio link to a BS330 or BS340 'host' base station. It extends the coverage area of the host base station without the need to lay a new cable, saving man hours and avoiding disruption. It only needs a local power adapter, so can for instance be mounted on a lamppost and use the same power supply.
   A combination of the host base station and the BS370 gives a capacity of up to 8 simultaneous calls across the combined coverage area of the BS370 and the host base station, or up to 5 simultaneous calls within the coverage radius of just the wireless relay station. The BS370 is usually positioned so that its coverage sphere overlaps with that of the host base station. However, it also has an input for a 3rd antenna, usually the directional single antenna.

4. **Omni-directional Single Antenna.**
   Coverage mainly in the horizontal plane. Effectively squashes the basic sphere of the BS340 into a shape closer to a discus. This doubles the range to a maximum of 600m in all directions outdoors, with a reduced coverage in the vertical plane.
   Typical application examples are a factory hall or storage facility with only one floor, or a parking lot.

5. **Directional Single Antenna.**
   Coverage mainly in one direction. The coverage 'envelope' is flattened slightly, increasing the maximum range to 1000m. Most suitable for linear coverage, for example to cover walkways between buildings, tunnels, or to provide a radio link between a remote BS370 and a host base station.

6. **Directional Dual Antenna.**
   Coverage mainly in one direction. Compared to the directional single antenna, the maximum range is not as big (up to 450m outdoors) but the height of the coverage 'envelope' is greater.

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