

A-Core Container

Common heights of EMS for communication base stations



Overview

How much exposure can a radio base station have?

On the ground, in houses, and other places where people reside, the exposure levels from radio base stations are normally below 1 percent of the limits. Only in the close vicinity of the antennas can the exposure limits sometimes be exceeded.

Should BS antenna height be lower than UE antenna height?

Network operators may invest large amounts of money in deploying more network infrastructure only to obtain even less network capacity. This paper's results reveal that one way to address this issue is to lower the BS antenna height to the UE antenna height.

What are the exposure limits for antennas?

Only in the close vicinity of the antennas can the exposure limits sometimes be exceeded. The size of this area varies from a few centimeters for small in-building antennas up to several meters for antennas mounted in masts and on rooftops.

Are radio base stations harmful?

The WHO states: "From all evidence accumulated so far, no adverse short- or long-term health effects have been shown to occur from the RF signals produced by base stations." (WHO fact sheet "Base stations and wireless technologies") Mobile phones and mobile devices require a network of radio base stations to function.

Do mobile phones need a base station?

Mobile phones and other mobile devices require a network of base stations in order to function. The base station antennas transmit and receive RF (radio frequency) signals, or radio waves, to and from mobile phones near the base station. Without these radio waves, mobile communications would not be

possible.

Where is a base station antenna located?

The base station antennas are usually placed on rooftops, in masts or on building walls. Antennas are sometimes also installed in shopping malls, airports, offices, and other places with many mobile phone users. Indoor antennas are usually placed on walls or on ceilings. Each base station can only serve a limited number of mobile devices at a time.

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