

# How to calculate the number of base station sites





## Overview

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How to calculate base station coverage?

Look up the traffic per base station, as supplied by the base station manufacturer. 5. Divide 3. by 4. to get the number of base stations in your target area. 6. Situate the base stations strategically at the intersections of roads and railways, and at airports, schools, business areas and shopping malls to get a 95% coverage.

How do you calculate base station traffic?

Multiply 1. and 2. to get the traffic per target area. 4. Look up the traffic per base station, as supplied by the base station manufacturer. 5. Divide 3. by 4. to get the number of base stations in your target area. 6.

How is the No of base stations decided?

The no of base stations are decided based on the coverage requirements. Once the coverage is met then we need to see the Capacity requirements are met sothat the Grade of Service is within acceptable limits.

What is the problem of optimization of base station locations?

The problem of optimization of the base station locations can thus be stated as: Given an area to cover, identify the optimal cell geometry for locations of the base stations such that number of base stations is minimal while the coverage is maximal so that best possible service is possible with minimum infrastructural costs.



## How to calculate the number of base station sites

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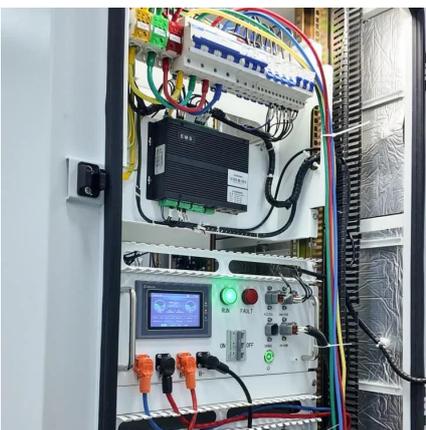


### [Estimating number of base stations based upon handsets](#)

Estimating number of base stations based upon handsets The following requirements must be considered when estimating how many base stations are needed and deciding where they ...

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Subscriber Forecast For 4G-LTE and 5G4G-LTE Coverage Modeling4G-LTE Capacity and Cost Modeling5G Coverage Modeling5G Capacity and Cost ModelingFor the 4G-LTE coverage modeling, the input assumptions for radio propagation model and link budget calculation have been taken from [7, 8]. The radio propagation model is evaluated for different carrier frequencies (CFs) to calculate the total number of 4G-LTE sites required for full coverage. The analysis is performed using 700, 850, 1800 and 210 See more on link.springer IEEE Xplore

### **Base station location determination model based on 5G ...**



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Introduction This page is a general guide to determine the number of M500 base stations that would be needed for your site. The initial release of the M500 will only support two base ...



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## [How to calculate the total number of base station that](#)

I'm wondering how we can decide how many base stations must be built within one area. And, how to assume the required radius of each cell, including the number of subscribers which can ...

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