

How to calculate the number of base station sites

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 many base stations does 700000 customers have?

Yes, 700 000 actual customers divided evenly over the sectors gives $700000/131.8 = 1312$ sectors rounded up. Although GSM uses 3, you may be able to squeeze in 4 sectors per 360 degrees, which correctly means you need to divide the number of sectors by 4 to get the number of base stations. $5312/4 = 1328$ base stations.

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 so that the Grade of Service is within acceptable limits.

How to increase base station coverage?

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. 7. Double up on your base stations that have reached capacity in 2018, based on your measurements.

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.

162 rows· In general, it is necessary to consider both the traffic capacity and the coverage areas of a cell, simultaneously, in order to determine the effective number of base stations required ...

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Web: <https://edukacja-aktywna.pl>

