

ABSTRACT

Blankspot area in the building cause by many building which large and indoor area can't recovered well with outdoor BTS signal. This case can be solved with indoor network planning.

For recovering Istana Plaza Bandung building which have high traffic must be implemented indoor BTS to solve blankspot area, and also to improve capacity of frequency channel.

The important thing in the indoor network planning is to take the indoor antenna for covering blankspot area. In order to calculate loss propagation, we can use distance path loss propagation model. By measure the coverage before implementation, we will know where the blankspot is.

The calculation in this planning is define the building characteristic value (n), deviation, and link budget to achieve output power in each indoor antenna. The design result of indoor network planning of Istana Plaza Bandung needs 17 indoor antenna (16 omni, 1 directional), 1 indoor BTS, 8 power splitter (3 splitter 1:2, 3 splitter 1:3, 2 splitter 1:4), 1 power tapper, 3667 m coaxial cable. From this planning result, the coverage area have better with no blankspot indication.