

ABSTRACT

The demand of faster information access is increased rapidly. This caused by the higher need of productivity and flexibility. That needs will be more compiled by third generation communication system. W-CDMA is designed for supporting third generation mobile communication system. Indoor Coverage planning in the hospital is very different with the indoor coverage planning in the other public places, because planning in the hospital has to concern the effect of the design to medical devices which very sensitive. So, it is needed very careful planning so that the planning result will be as effective as possible.

In this final assignment, the panning of indoor coverage W-CDMA UMTS Network will be done in Hasan Sadikin hospital, Bandung. Because the area is very wide, the planning must be careful. The planning started with noticing the characteristic of each building in Hasan Sadikin Hospital. And then determine the target area

The result of this final assignment shows that to cover area that is target coverage is needed BTS power transmit 43 dBm. Each area that target coverage gets receive signal level that is as good as standard, -70 dBm.

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