

## **ABSTRACT**

Human wish will flexibility of communications give challenge to promoters of cellular system to develop telecommunications technology. Human desire speed communication, without limit and high technology. For this have developed technology which often we listen with technical HSDPA ( High Speed Downlink Packet Access) representing development from WCDMA network. WCDMA is technological name of conducive GSM existence of technology 3G, sometime HSDPA known as 3.5G. HSDPA target no other is to improve the maximal speed transfer data, service quality, and efficiency. As does 3G, HSDPA enable the existence of service of video streaming, Internet access which quickly, and have video conference.

With increasing number of user that grow in system so increases the interference level in the sistem. In this research, will do the simulation Admission Control Algorithm which determine number of active user can handle by system and how that algorithm persist Services quality by sistem for ongoing call in system with the admitting new call. The Focus on signal quality is interference level that influence admission control process. Performance from a cellular radio network depend on number of interference on system.

The Simulations expected can support asumsion that downlink performance can be proved with planning fitur with this admission control algorithm, so in the future can be applicated for increasing the way or control network method to be more efficient and optimal, the best thing is system can maximize capacity and without decrease quality.

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