

## ABSTRACT

The WCDMA air interface, used in third generation mobile communication systems, is currently being evolved rapidly. One of them is improve quality in downlink way which appear the High speed downlink packet access (HSDPA) technology. Now, the next technology is to improve the uplink way i.e. the radio links carrying traffic from mobile user to the fixed network. This concept call as enhanced uplink or High speed uplink packet access (HSUPA).

Improvement from HSUPA concept hope be prepared to do the applications which need high bit rate like multimedia and video streaming. One of the main problem in HSUPA is interference in the system. In this paper / last task interference in HSPA system become main subject for analyze. The analyze consists of HSPA performance caused interference in bit rate system and influence from interference concerning throughput HSPA system. In this paper give about interference level based on distance the user to base station and influence number of user to interference level.

In this paper, CIR value is 6 dB for get the maximum bit rate. Bit rate maximum is 4 Mbps. Value throughput in this paper depend on some load factor value and that is 40%, 55%, and 75%. For that load factor can get throughput value 780 Kbps, 1.05 Mbps, and 1,45 Mbps.

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