Abstract

Cellular technologies are continuously growing. Because of these reason, 3G cellular technology has been implemented. In UMTS, services are categorized into four UMTS quality of services classes. The handover is significant characteristic of UMTS technology and is the major problem faced in implementation phase. The efficient handover process defines QoS of network. This paper addresses the analysis of different handover scenarios executed in 3G UMTS network for four different qualities of service classes. Different scenarios are created for soft and hard handovers in OPNET 14. 5 Modeler simulator and conclusion are compiled for each quality of service class from analysis of results.

References

- Rapeli, "UMTS- a path to 3rd generation mobile communication system of the 21st century"; 2006, PWC 2: p. 34-42.
- Shin-ming Cheng, "Key management for UMTS MBMS"; 2008, Wireless
communication 33: 75-77.


- GuifenGu, GuiliPeng, "The survey of GSM wireless communication system". Computer and Information Application (ICCIA), 2010 International Conference on3-5 Dec. 2010


**Index Terms**

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**Keywords**

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