ABSTRACT

Two methods to access a packet data network (such as internet), can be done in dynamic way has been introduced. Those methods are GPRS and mobile IP.

The two protocols need features addition for the existing network. GPRS is integrated on top of GSM network by adding some hardware nodes, so that it has the ability to deliver data packet communication. On the other hand, mobile IP is aprotocol that allow the IP address moving dynamically.

The terminal user movement has a great influence for both, the transmitting and receiving process of data packet on wireless communication and computing. Therefore, a robust mobility management is needed. The mobility management generally has some goals, i.e. to support the mobility of user terminal, to inform the existence of a user terminal to the network & to protect the user identity whether it is done by user terminal or by the network.

The various ways in the development of that both can hopely support each other. The integration proses between mobile IP and GPRS can give a very well-needed support to create an internet access methods that can be accessed whether by using smartphone or laptop dinamically.

This final project will discuss the methods of mobility management on GPRS and mobile IP by using several of mobility parameters, i.e. Registration, Tunnelling and Routing. In addition, The interworking process of both technologies will be discussed in brief.