

## ABSTRACT

Two methods to access packet data network (such as internet), that can be done in dynamic way are proposed. Those are GPRS and Mobile IPv6. Those methods were additional features on the existing network.

GPRS is the current enhancement in the GSM infrastructure, by adding some nodes so that it has the ability to transmit the real packet data communication, and offered internet services for mobile user. On the other hand, Mobile IPv6 is an internet protocol which the enhancement of *mobile* IPv4, and support the mobility of mobile node. So mobile node keep connect to internet without ignore location and change its IP-address.

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

The differences between those methods hopely can support and complementary each other. The integration between GPRS and Mobile IPv6 can give a very well-needed support to create an internet access methods that can be accessed wether by using smartphone or laptop dynamically.

This final task will discuss the methods of mobility management on GPRS and Mobile IPv6 by using several mobility parameters, those are registration, tunnelling, and routing. In addition, the interworking between GPRS and Mobile IPv6 will be discussed too.