

ABSTRACT

One of the favourite service that is given to the customer of traditional SS7 network is SMS. On several operators, the traffic growth of data service is so significant which is not only lead to benefit but also loss; traffic of service it resulted makes traditional SS7 network overloaded. Beside, the fast increasing rate of mobile and even fixed wireless access user also contributes dramatically on SMS traffic volume. Without capacity expansion of SS7 network, data traffic growth will influence the operation of traditional network

One solution provided to solve that problem above is by using Sigtran technology; a standard protocol developed by IETF (International Engineering Task Force) which can send Signaling System No 7 (SS7) traffic over IP network (SS7 over IP). By using the simplicity and the excess of current IP network, it is hoped that the cost will be relatively cheap and will be able to act as medium to migrate Signaling System No 7 on telecommunication technology of signaling network to IP domain network system

This minithesis will talk about gateway system setting of SMS center by using SS7 over IP to connect Telkom Flexi with Excelcomindo and compare GSMSC using SS7 conventional network, and give system recommended for solution weakness at system Existing

Keyword : Sigtran, gsmc,sms