

ABSTRACT

At this time, the growth data services continues to increase with the growing use of mobile subscriber and fixed wireless access. This has an impact on increasing the volume of SMS traffic. To handle this, the SS7 network is selected which has the functions and advantages as compared to before. The use of SS7 networks are intended to be able to cope with changes in demand and the faster data is large.

To handle the problem that occur then selected the ITP SIGTRAN technologies (IP Transfer Point) is a standard protocol developed by the IETF that is able to channel traffic Signalling System No 7 (SS7) over IP networks. This technology is also called IP Transfer Point (ITP) or technology SS7oIP/SIGTRAN.

At the end of the project are researchers trying to test the performance of these application in the use of MTU applications (MAP Test Utility). Use of this applications aim to understand the process of sending a message that occurs at the MAP layer SS7 SIGTRAN passed through a network of services M2PA (MTP 2 Peer to Peer Adaptation Layer).

From the result of experiments that have been conducted which plays an important role is located on the configuration of *point code* information between devices. In addition, the information link that used to be very influential on the work of this application. This application can only send as many as 1023 messages with the number of character per message is 93 characters.

Keywords : MAP, M2PA, MTU, MTR, SCTP, SS7, Sigtran.