

ABSTRACT

This time, *Short Message Service* feature has expanded to the Fixed Line PSTN network. Provider of fixed line telephone (PSTN), PT.Telkom has applying the Fixed SMS feature at some Divre II (Jakarta) and Divre V (Surabaya).

SMSC PSTN (*Short Message Service Centre – PSTN*) is kind of server for SMS that connect to the PSTN central exchange. It can accept *short message* from SMTE (*Short Message Terminal Equipment*) PSTN, then deliver the message to the other SMTE destination number or also another terminal such as MS (*Mobile Station*). The service that offered of Telephone Fixed SMS user is can transfer *short message* To the other PSTN user or to seluler user. Interconnection happen between Fixed SMS and GSM use MAP (*Mobile Application Part*) protocol and CCS#7 signalling to carried the parameter. Both communication between its use ETSI 912 protocol for *Fixed SMS*, this protocol used in GSM network.

This final project focuses on data transfer in Fixed Phone network, including its protocol, configuration which support data transfer SMS and also the visualization of protocol system.