

## ABSTRACT

PT. Telekomunikasi Indonesia, Tbk is one of the biggest telecommunication company in Indonesia. Since 2002, the company has provided a service in short message delivery, which is commonly known as Short Message Service (SMS). The company first product was a short message delivery using fixed telephone (PSTN) in a brand name of TSMS (Telkom SMS). And after that, the company launch ed a new product in CDMA (Code Division Multiple Access) base, which is known as Telkom Flexi.

SMS technology has become a favorite service used by cellular phone user. Either because the cost of SMS cheap, this service also able to store message in long period. But, there is a small obstacle in the message delivery; the standard of CDMA is different from the exist standard of GSM. CDMA use IS-41 protocol; meanwhile GSM uses MAP. To handle this, a converter is needed to act as bridge between CDMA and GSM. The converter is SMS Gateway, which is well known as GSMSC (Gateway SMS Center) and SMPP (Short Message Peer-to-Peer) Protocol, which function is to change the format in CDMA standard into format of GSM Standard.

This Final Paper discuss about Telkomsel GSMSC Service connecting Telkom and Telkomsel. It is because the traffic of message sent to Telkomsel is very high. This will need special treatment to keep the message sending performance in line with the standard.

*STTTTELKOM*