

ABSTRACT

The volume of sending sms from PSTN to GSM more increase in this time. One of store and forward server in telecommunication network is SMSC Gateway. This server contribute for delay sms's sending and capacity of signaling channel.

. The function of SMS Gateway as protocol converter can be seen as a proxy (which store the information for a while and then forwarded) for sending sms between two network which different it's protocol signalling, that are GSM and PSTN. This server using GSM-MAP protocol to communicate with GSM network and TCP/IP protocol for PSTN network..

Sending SMS to GSM network use two step, first step is interrogation to HLR, and the second is sending sms to MSC. The signalling channel used in this sending, not data/voice channel.

With adding TLR algoritm in existing system, it hope increase the performace. With adding the database cheking procedure, the interogatin to HLR is not needed to customer which the data is in it (the database). It hope, the channel signalling more efficient and the time more short.