ABSTRACT

Signalling System No.7 (SS#7) is a method of signaling that employs in common channel signalling. SS#7 is an important infrastructure that serves as a platform for various services in the network like ISDN, IN, and GSM. SS#7 is a type of multifunction signalling that possibly brought all information data such as voices, high speed data, imaging, etc which controlled by SS#7 network.

This final project studying two main problem in implementating SS#7 to 5ESS exchange, thats are: **Digits sending mode** (En-Bloc and Overlap) with the analyzing parameters, like: PDD (Post Dialling Delay), signalling process time, total call number, link efficiency, length of MSU (Message Signal Unit) in a call setup, and a total of called party number, also involving problem in **interworking SS#7 – R2** that analyzing time out (timer SS#7 and R2) and mapping from SS#7 to R2 and the contrary.