

ABSTRACT

The expansion of communication technology especially the cellular communication can be shown by increasing its total users year on year. Cellular communication carried as an easy in subscribing process and has many kinds of facilities than wireline communication. Beside that, it has been influenced the way the wireline operator look in developing network and accommodate services that be needed by communication technology users, especially the new innovative services, high speed process, satisfied the users and efficiently in expending of money that can be predicated by making the backbone PSTN network existing works effectively.

The Wireless Intelligent Network (WIN) based on CDMA2000 has been built a new hope for wireline operator in serving those services. Prepaid charging (PPC) is one of services that be implemented in WIN. This service gives subscribers to organize their account balance consumption easier than post-paid service. This final project will to analyze what kinds of function of support component must be available so that prepaid charging mechanism can be done by WIN CDMA2000 service.

From the research that has been done, could be described WIN Prepaid Charging System architecture, some scenario call flow prepaid charging for voice communication and data communication based on charging parameters duration, volume and content. The output from MSC produces parameters [MSCID, MSID, MDN, BILLID, TRIGTYPE, RELCAUSE, TOD, TDO] that consists of subscribers' profile, the usage of services, called party number and the start and the end of the services will be used by SCP to process charging as a number of services that be used and then it will be multiplied by tariff that be progress in for each service. The routing of data packet is done by PDSN and all informations that content the usage of data service hold by PPSG and will be sent to PPS to process data charging to customers.

Keywords : authentication, account balance, charging