ABSTRACT

In this paper, we present a research of comparison of 3 different resource managements models, Markov chain, Partial sharing, and Complete sharing, evaluated by Erlang capacity and number of subscribers supported by the system. The quality of service parameter, the call blocking probability is used in the analysis. The integration of 2 main services, voice and data, are the main specification modality of analysis in each model. Furthermore the effect of new standard, CDMA2000, and call blocking probability are considered. Finally the greater supportable size of voice/data services introduced by models and the cost of implementation are the factors that help service providers to decide for implementation.