

ABSTRACT

In ICT (Information and Communication Technology) infrastructure Roadmap 2007, MNP will be implemented in 2011. But until now, MNP has not been implemented in Indonesia. It is necessary to do an analysis of the MNP to preserve the implementation of MNP in the future. So the results of the analysis can then be used as input for the Operator and Regulator.

Previously, there has been some research related to MNP in IT Telkom. Which has not been done in these studies is the selection of MNP configuration, such as network architecture approach and routing type. And calculation of required local NPDB. Then determination of minimal cost of porting. From the results of technical analysis concluded that the most suitable architectural approach to be applied in Indonesia is the SRF approach. By using two routing methods simultaneously, namely All Call Query and Onward Routing. The number of required local NPDB are as many as 57 pieces. From the result of cost calculation obtained that NPV value of Rp 302,899,432,653, IRR of 16% and payback period for 5 years and 9 months. With the minimum porting cost of Rp 11,000

Keywords : Number Portability, MNP, IN, SRF, IMS, NPDB