

ABSTRACT

Because of believed that softswitch technology will be potential technology on the future, excellent performance will be fundamental condition. Then traffic performance evaluation and network system on PT. Telkom's trunk gateway include region on Bandung wish can help to prediction system condition from provider side and customer ob the five years ahead.

For softswitch voice parameter evaluation, doing at three connection that is : Flexi (FWA), Local Exchange (LE) and Trunk Exchange (TE). Total existing circuit on central Bandung region that is Flexi total 310 circuit, Local Exchange (LE) total 335 circuit, and Trunk Exchange total 310 circuit. Existing bandwidth on the IP channel total 46 Mbps. And maximum BHCA standard from vendor total 1,5 million.

From result calculation conclusion that circuit use from Flexi (FWA) connection total 98 circuit, Local Exchange (LE) total 105 circuit, and Trunk Exchange (TE) total 3 circuit. Success level call ASR total 61,97 %. Mean Holding Time Seizure (MHTS) total 1,19 minute/call. Mean from SCH value total 19,39 call/cct/hour. Mean OCC total 1,79 %. After calculation, conclusion that bandwidth use total 2,7 Mbps. BHCA total 10.347. From customer demand forecasting, bandwidth used on year 2010 total 2,8 Mbps. Finally conclusion from all analysis is total circuit and bandwidth existing now still can fill customer needs until year 2010.

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