

## ABSTRACT

NGN (Next Generation Network) is a concept of future network which become the hottest issue in the telecommunications world nowadays. NGN is developed with aim to provide a open network and able to give the integrated service. NGN uses the softswitch (network based on the softswitch) with open interface standard to make the integrated network by combining the intelligence service ability in handling voice, data, and multimedia traffic in more efficient way with the value added service potency bigger than PSTN.

PT Telekomunikasi Indonesia as an telecommunications operator PSTN begins to conduct the migration from circuit switched network to network based on packet controlled by softswitch. Implementation concept matching with circumstance of existing network is going through some phase, those are phase of learning curve (the lab and field test-drive), phase of implementation 1 (class 4 switch replacement), and phase of implementation 2 (class 5 switch replacement).

In this article, study of NGN network planning is in the early stage by using literature study and case study method. The case study takes sample in Bandung (at BD Trunk level) to give the patterned thinking of early stage planning in Indonesia. Its end result is configuration of softswitch network design in Bandung based on Softswitch System Standard of Telkom network configuration. Analyzed from the network planning study pursuant to traffic trend of Bandung Trunk central for calculating the system capacities of network, such as softswitch capacity, trunk port, and also signaling data link. Result of the planning that is expected can become one of reference in development or implementation of future network.