

## ABSTRACT

Infrastructure development of access broadband which can support the Next Generation Network ( NGN) And transition from PSTN, required by network concept access the multiservice which can accommodate the change of layer service node flexibly and economic. Without this concept, each transition of service node ( for example from TDM network to the packet network) will peep out the variant access the node new.

No wonder field met by the peripheral access the node destined only for service POTS, access gateway for the service of voice packet, access node for the service of access the broadband ( DSLAM) which not rarely implementation by collocated. As a result by dozens constraint and problem that happened in activity operate for and the peripheral conservancy.

Conception The Multi Service Access Node ( MSAN) represent network concept access integrated which can provide the variant of service data,voice, and video in one peripheral platform. Solution given by Multi Service Access Node ( MSAN) will become the efficient solution at era of Next Generation Network ( NGN).

This Final duty study to hit the network planning base on the Next Generation Network (NGN) by using Multi Service Access Node ( MSAN), where intention of this can plan the network base on the NGN by using MSAN in some region which direct by STO Ujung Berung so that the network applicable to various application like voice,data and multimedia.

Result from this final duty is new network configuraton being based on packet. network configuration, capacities of node and link and also calculation bandwidth. Expected by a this final duty implementation in Kandatel Bandung area .