

Analysis and Simulation Path Protection Routing with SRLG-disjoint in WDM Mesh for Supporting IPTV Application

ABSTRACT

In the near future, communication services will have higher complexity level, which requires low delay channels and very high bitrates. Based on recent research results, network channels nowadays is not possible to be used as channels for applications which requires very high bitrates, such as IPTV which requires bitrates up to 10 Mbps. One alternative of such problems is to use physical network using fiber optic cables. One main deficiency of fiber optic is link fail due to severed fiber optic.

SRLG-disjoint is one of the solutions to solve WDM mesh routing problems. Using SRLG-disjoint will give several significant improvements over the link fail problems. Network recovery on WDM mesh is based on pre-recovery using path protection method, due to their low time cost.

This final task analyze a network model with the lowest possible load and efficiency while considering high bandwidth distribution reliability using SRLG-disjoint path protection on WDM mesh network.

Keyword : IPTV, Mesh WDM, SRLG-disjoint