

Abstract

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New Optical Parameters Dependent Metric for Effect of Link Open Shortest Path First Routing Protocol for Optical Burst Switching Networks

Based on an extensive simulation analyses on various optical parameters effect on burst loss ratio (BLR) for optical burst switching (OBS) networks. A comparison between routing decision based on standard open shortest path first (OSPF) routing protocol and a proposed new OSPF metric is performed. The proposed new OSPF metric takes into account optical parameters in its dependency as number of channels, load and link bandwidth. The result shows better routing decisions leading to better BLR and utilization for OBS networks.