Abstract

Traffic Grooming has become a very important issue on optical Network, as optical networks provide a very high speed data transmission for huge amount of data. A Sparse grooming Network with only a fractional of nodes having grooming functionalities may achieve the same performance as the one in which all the nodes are grooming, but with much lower cost. In literature different algorithms, models and techniques have been proposed to design the sparse grooming networks. With Proper assignment of routing and wavelengths in the network reduces the blocking probability ultimately increases the bandwidth of the network. In this paper, we studied and analyzed the different sparse traffic grooming and RWA assignment strategies with its performance metrics for optical mesh networks.

References

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Index Terms

Computer Science

Networks
Keywords

- OXC - Optical Cross Connect
- OC - Optical carrier
- RWA - Routing & wavelength assignment
- WDM - wavelength division multiplexing

G-Fabric - Grooming Fabric
G-Node – Grooming Node
G-OXC – Grooming Optical Cross Connect