

Traffic Grooming In Optical Wdm Mesh Networks Optical Networks

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Traffic Grooming In Optical Wdm

Abstract:In wavelength-division multiplexing (WDM) optical networks, the bandwidth request of a traffic stream can be much lower than the capacity of a lightpath. Efficiently grooming low-speed connections onto high-capacity lightpaths will improve the network throughput and reduce the network cost.

Traffic grooming in an optical WDM mesh network - IEEE ...

Traffic Grooming in Optical WDM Mesh Networks captures the state-of-the-art in the design and analysis of network architectures, protocols, and algorithms for implementing efficient traffic grooming in optical WDM mesh networks. Key topics include: * Static traffic grooming * Dynamic traffic grooming * Grooming models and policies

Traffic Grooming in Optical WDM Mesh Networks (Optical ...

A fixed order multi-hop traffic grooming based on fixed alternate routing has been used to address grooming node selection in WDM optical network without wavelength conversion capabilities . Unlike the previous decomposition approaches, a multilevel decomposition approach which decomposes traffic at four different levels has been proposed to evaluate the blocking performance.

Traffic grooming in WDM optical network with grooming ...

Traffic Grooming in Optical WDM Mesh Networks captures the state-of-the-art in the design and analysis of network architectures, protocols, and algorithms for implementing efficient traffic grooming in optical WDM mesh networks. Key topics include: * Static traffic grooming * Dynamic traffic grooming * Grooming models and policies

Traffic Grooming in Optical WDM Mesh Networks | SpringerLink

This book investigates the optimized design, provisioning, and performance analysis of traffic-groomable WDM networks, and proposes and evaluates new WDM network architectures. Organization of the...

Traffic Grooming in Optical WDM Mesh Networks - Zhu Keyao ...

We investigate the survivable traffic-grooming problem for optical mesh networks employing wavelength-division multiplexing (WDM) and dedicated protection. We consider the dynamic-provisioning environment in which a connection arrives at random, holds for a random amount of time, and then departs. A typical connection request may require bandwidth less than that of a wavelength, and it may ...

OSA | Traffic grooming for survivable WDM networks ...

Fang, Jing, "Traffic grooming in IP over WDM optical networks " (2004).Retrospective Theses and Dissertations. 1158.

<https://lib.dr.iastate.edu/rtd/1158>. Traffic grooming in IP over WDM optical networks by Jing Fang A dissertation submitted to the graduate faculty

Traffic grooming in IP over WDM optical networks

Recent advances in wavelength-division multiplexing (WDM) technology will provide bandwidth intensive multicast applications with large transmit capacities. This article provides two new grooming schemes that lead to efficient resource utilization in WDM networks. They are called Light-Tree Division-Destination Branch Node-based Grooming scheme (LTD-DBNG) and Light-Tree Division-Adjacent Node ...

Light-tree configuration for multicast traffic grooming in ...

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Traffic Grooming in Mesh Optical Networks Pages 1 - 3 ...

Traffic grooming techniques aggregate low-bandwidth traffic streams onto high-bandwidth wavelength channels. In this paper, we study the optimization problem of grooming the static traffic in mesh Synchronous Optical Network (SONET) over WDM networks. The problem is formulated as a constrained integer linear programming problem and an ...

CiteSeerX — A Lagrangian-Relaxation Based Network Profit ...

Traffic grooming is the process of grouping many small telecommunications flows into larger units, which can be processed as single entities. For example, in a network using both time-division multiplexing (TDM) and wavelength-division multiplexing (WDM), two flows which are destined for a common node can be placed on the same wavelength, allowing them to be dropped by a single optical add-drop multiplexer.

Traffic grooming - Wikipedia

WDM is the mostly preferred technology for multicasting because of its providing efficiency in the routing and wavelength assignment subjects [7]. The multicast traffic is frequently studied on WDM network with light-trees and lightpaths as all-optical. In [8] a multicast dynamic light-tree grooming algorithm is developed.

Optical WDM Networks and Multicasting - CEUR-WS.org

This book provides detailed coverage of survivability (dealing with the risk of losing large volumes of traffic data due to a failure of a node or a single fiber span) and traffic grooming (managing the increased complexity of smaller user requests over high capacity data pipes), both of which are key issues in modern optical networks.

Survivability and Traffic Grooming in WDM Optical Networks ...

Traffic grooming problem (TGP) deals with efficiently combining low-speed traffic streams into high-capacity wavelength channels in order to

improve bandwidth utilization and minimize network cost.

A Lagrangian-based Heuristic for Traffic Grooming in WDM ...

There is a mismatch between lightpath channel capacity and traffic request capacity in wavelength division multiplexed (WDM) optical mesh networks. Traffic grooming is needed to resolve this mismatch in an efficient way. We study the dynamic traffic grooming problem in WDM mesh networks using the fixed-alternate routing (FAR) approach.

[PDF] Dynamic Traffic Grooming using Fixed-Alternate ...

Supporting such multicast traffic in Flexible optical WDM (FWDM) networks that can provision light-trees using optimum amount of spectrum within flexible channel spacing leads to higher wavelength and spectral efficiencies compared to the conventional ITU-T fixed grid networks.

Multicast traffic grooming in flexible optical WDM networks

By efficiently grooming low-speed traffic streams onto high-capacity optical channels, it is possible to minimize this electronic processing and eventually increase the network performance[16]. Traffic Grooming in WDM can be defined as a family of techniques for combining a number of low-speed traffic streams from users so that the high capacity of each lightpath may be used as efficiently as possible [17].

RESOURCE PLANNING FOR DYNAMIC TRAFFIC GROOMING IN WDM ...

Traffic grooming is the term used to describe how different traffic streams are packed into higher speed streams. In a synchronous optical network-wavelength division multiplexing (SONET-WDM) ring ...

Wonhong Cho's research works | University of California ...

Because SONET is the most widely deployed optical network architecture, traffic grooming in SONET/WDM ring networks has been a research focus for several years. With the development of optical switching cross-connects, IP/WDM seems to be a promising architecture to meet the tremendous traffic increase of Internet.

Wang Yao : abstract | Department of Mathematics

In this paper, we propose a protection scheme known as shared segment protection with grooming (SSPG) for dynamic multicast traffic in meshed WDM optical networks. On arrival of dynamic multicast requests, SSPG establishes dependable route from source to required set of destinations.

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