

DATA CHANNEL RESERVATION IN OPTICAL
BURST-SWITCHED NETWORKS

ABSTRACT OF THE DISCLOSURE

The present invention provides a system and method for reserving data channels in an optical burst-switched network. A data channel (or a multiple
5 of data channels) along an optical path in an optical burst-switched network is reserved by first transmitting a data channel reservation request from an electronic ingress edge router to a reservation termination node. Next, the data channel reservation
10 request is processed at all nodes along the optical path, including the reservation termination node. A data channel reservation acknowledgement is then transmitted from the reservation termination node to the electronic ingress edge router. Finally, the data
15 channel path is reserved once an initial burst(s) which contains a reserve data channel bit reaches the reservation termination node.

This Sheet Has Been Replaced
