

Abstract

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OBS networks enhanced performance: A smart adaptive technique

In this study, a simple, smart and adaptive algorithm is proposed for data burst creation. It depends on modifying some characteristics in data burst assembly algorithms in Optical Burst Switching (OBS) networks by taking into consideration the Quality of Service (QoS) for multiple data priorities. Simulating the OBS network using the proposed algorithm shows that it deals with the burst assembly mechanism with a smart technique as it adaptively modifies the data burst size according to the offered load. It reduces the maximum end to end delay and the burst rate for high priority packets. It also provides high data burst utilization.