The Improvement of QOS by Using a Dynamic Distributed Routing Algorithm Over OBS Networks

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NS2 (Network Simulator), manycast, Optical Burst Switched (OBS), Quality of Service (QoS), Simulation

Abstract: *Recently there is an emergence of many internet applications such as internet telephony and video conferencing require a higher quality of service than electronic mail and general web browsing. These applications require huge amount of bandwidth and available communication paradigm to coordinate with multiple sources and destinations.In this work we propose variation of multicasting called quorum casting or manycasting. In manycasting destinations are to be determined rather than given unlike in the case of multicasting. However in multicasting, if at least one of the members in the group can not satisfy the service then the request is said to be blocked. On the contrary, in quorumcasting, destinations can join or leave the group, depending on whether it satisfies the service requirement or not. This dynamic membership based destination group decreases request blocking. Due to multiple constraints request blocking could be high. We propose MCM-SPT algorithm to minimize request blocking for the quorumcast problems using NS2 based simulation results, we have analyzed these parameters and then we have improved Quality of Service (QOS).*