IMPLEMENTATION ON ADAPTIVE TRANSMISSION OF REAL TIME MULTIMEDIA DATA

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ABSTRACT

Several mechanisms for adaptive transmission of multimedia data, which is based on real time protocols RTP/RTCP.RTCP offers capabilities for monitoring the transmission quality of multimedia data. When multimedia data (audio, video) are transmitted over a network with low Quality of Service Management there is a high possibility of router queue overflow. To overcome this problem Adaptive Transmission Rate Algorithm is used. To do this Packet size of each source is adjusted according to network bandwidth. A controller is used to trace the data transmission rate at the router. An algorithm is developed and coded in Tool Command Language. Simulation is performed on NS2. The present work is developed using JMF over RTP only.

KEYWORDS: NS2, JMF, RTP, RTCP, TCL, Adaptive Transmission Rate Algorithm, QOS, TCP, UDP