

Title (en)

METHOD FOR IMPROVING THE QUALITY OF DATA TRANSMISSION IN A PACKET-BASED COMMUNICATION NETWORK

Title (de)

VERFAHREN ZUM ERHÖHEN DER QUALITÄT DER DATENÜBERTRAGUNG IN EINEM PAKETBASIERTEM KOMMUNIKATIONSNETZ

Title (fr)

PROCÉDÉ D'AUGMENTATION DE LA QUALITÉ DE LA TRANSMISSION DE DONNÉES DANS UN RÉSEAU DE COMMUNICATION À BASE DE PAQUETS

Publication

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Application

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Abstract (en)

[origin: CA2825830A1] The invention relates to a method for improving the quality of data transmission in a packet-based communication network comprising a plurality of network nodes (K). Each of the network nodes (K) has a number of ports (P) with which at least one queue (Q) is associated respectively, and by means of which ports a communication connection (KV) to another network node (K) can be produced. According to the method of the invention, at least the queues (Q) of those ports which are arranged, in the network nodes (K), along respective communication paths that are formed in the communication network, are monitored for their queue length. In addition, a degree of overload of the affected port(s) (P) is determined from the queue length, and on the basis of the degree of overload of the communication path(s) (PF1, PF2, PF3) running across the affected overloaded port (P), a runtime delay (delay) and/or a delay variation (jitter) in the data transmission can be inferred. Finally, the overload amount rises above a predetermined threshold value for at least one of the communication paths (PF1, PF2, PF3) running across an overloaded port (P). An alternative communication path (PF2') is configured, the overloaded ports (P) thus being bypassed.

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