

Title (en)

METHOD AND DEVICE FOR DATA TRAFFIC SHAPING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DATENVERKEHRSFORMUNG

Title (fr)

PROCEDE ET DISPOSITIF DE MISE EN FORME DU TRAFIC DE DONNEES

Publication

EP 1258114 A1 20021120 (EN)

Application

EP 01904830 A 20010111

Priority

- US 0100910 W 20010111
- US 51105900 A 20000223

Abstract (en)

[origin: WO0163860A1] A method and device for traffic shaping is provided for multiple level or multi-layer shaping in parallel, which can also provide priority "shaping" to multiple data streams comprised of data packets. Data streams transmitted over connections or groups of connections comprised of a common channel or interface are "shaped" in order to control the data transfer rate allowed each user or group of users to be within a subscription rate. The traffic shaper uses software configured to provide logical circular queues to confirm, without a search, when data packets are conformant with a provisioned bandwidth. The traffic shaper also schedules the provisioned bandwidth to a logical link and thereafter to an output port. The traffic shaper also allows for transmission of bursts of data packets as permitted by a subscription schedule. Shaping is also possible to control data packet transmission to be within different bandwidths (i.e., a total rate and a sub-rate) and at multiple levels or layers to enable the shaping of, for example, oversubscribed bandwidth provided to groups of users.

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H04L 12/56; **H04Q 11/04**

IPC 8 full level

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CPC (source: EP)

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