

Title (en)

APPARATUS AND METHOD FOR TRAFFIC SHAPING IN A NETWORK SWITCH

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERKEHRSFORMUNG IN EINER NETZWERKVERMITTLUNGSSTELLE

Title (fr)

APPAREIL ET PROCEDE DE CONDITIONNEMENT DU TRAFIC DANS UN AUTOCOMMUTATEUR

Publication

EP 1183833 A1 20020306 (EN)

Application

EP 00941149 A 20000526

Priority

- US 0014549 W 20000526
- US 13695399 P 19990528

Abstract (en)

[origin: WO0074321A1] An apparatus and method for traffic shaping in a network switch, which provides for per-connection shaping. A Cell Descriptor (CD)-processing block and a ShapeID processing block operate to de-couple the management of the CDs from the scheduling of the CD output times. The CD-processing block outputs a token (ShapeID) to the ShapeID block. If the token is conforming, it is immediately passed back to the CD-processing block, otherwise it is processed. When the token is "mature" the token is passed back to the CD-processing block. Use of "now" and "later" lists with per-connection ShapeIDs provides priority within a virtual connection (VC) and a virtual path (VP), respectively. This effectively preserves the relative priority for connections being shaped within a VP. Also, the use of a Calendar Queue reduces the complexity of a "virtual finishing time" (VFT) calculation.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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WO 0074321 A1 20001207; **WO 0074321 A9 20020627**; AU 5589800 A 20001218; EP 1183833 A1 20020306; IL 146767 A0 20020725; IL 146767 A 20070515; JP 2003501885 A 20030114; JP 4504606 B2 20100714; RU 2001135829 A 20030827

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