

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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