Title (en)

    A TRAFFIC SHAPING ATM NETWORK SWITCH

Title (de)

    NETZWERKVERMITTLUNG MIT VERKEHRSFORMUNG

Title (fr)

    COMMUTATEUR DE RESEAU ATM A AMENAGEMENT DE TRAFIC

Publication

    EP 0823158 A4 20010425 (EN)

Application

    EP 96913033 A 19960422

Priority

- GB 9508225 A 19950422
- GB 9509483 A 19950510
- US 9605606 W 19960422

Abstract (en)

    [origin: WO9634469A1] An ATM network switch includes a switch fabric (14), and a plurality of slot controllers (11) coupled to the switch fabric. Each slot controller has at least one external data link (12, 13), cell receiving circuitry (21) for receiving ATM cells from the data link and cell transmitting circuitry (22) for transmitting ATM cells outwardly on the data link. The cell transmitting circuitry of each slot controller includes traffic shaping circuitry (23) arranged to set, for each cell presented to the transmitting circuitry, a current onward transmission time where onward transmission at the input rate meets a predetermined flow rate criterion, and a delayed onward transmission time where onward transmission at the current time would cause the traffic on a VC to exceed a predetermined flow rate criterion. The traffic shaping circuitry includes a buffer (24) which stores each new cell at an address corresponding to the onward transmission time, and output logic (32 or 44) for outputting cells from the buffer at a time corresponding to the address thereof.

IPC 1-7

    H04J 3/16; H04J 3/22; H04J 3/24; H04Q 11/04; H04L 12/56

IPC 8 full level

    H04L 49/111 (2022.01)

CPC (source: EP)

    H04L 49/503 (2013.01); H04L 49/30 (2013.01)

Citation (search report)

- [Y] JONATHAN CHAO H: "A GENERAL ARCHITECTURE FOR LINK-LAYER CONGESTION CONTROL IN ATM NETWORKS", PROCEEDINGS OF THE INTERNATIONAL SWITCHING SYMPOSIUM,JP,TOKYO, IEICE, vol. SYMP. 14, 25 October 1992 (1992-10-25), pages 229 - 233, XP000337649
- [Y] BOYER P E ET AL: "THE SPACER-CONTROLLER: AN EFFICIENT UPC/NPC FOR ATM NETWORKS", PROCEEDINGS OF THE INTERNATIONAL SWITCHING SYMPOSIUM,JP,TOKYO, IEICE, vol. SYMP. 14, 25 October 1992 (1992-10-25), pages 316 - 320, XP000337736
- See references of WO 9634469A1

Designated contracting state (EPC)

    DE FR GB

DOCDB simple family (publication)

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