Title (en)

ALLOCATED AND DYNAMIC BANDWIDTH MANAGEMENT

Title (de)

ZUGEORDNETE UND DYNAMISCHE BANDBREITENVERWALTUNG

Title (fr)

GESTION DE LARGEURS DE BANDE ATTRIBUEES ET DYNAMIQUES

Publication

EP 0839420 A4 20010718 (EN)

Application

EP 96924622 A 19960718

Priority

- US 9611943 W 19960718
- US 149895 P 19950719

Abstract (en)

[origin: WO9704564A1] An ATM network switch and method of utilization for adaptively providing integrated services therein is disclosed. In providing such integrated services, if the allocated bandwidth for one connection has been consumed, or if the connection is not entitled to allocated bandwidth, the connection can optionally use dynamic bandwidth arbitration, or a combination of both allocated and dynamic. The switch includes an input port processor (14), a bandwidth arbiter (12), and an output port processor (16). Cells are transmitted from the input to the output, under the control of respective port processors and the bandwidth arbiter. Flow control is implemented on a per-connection basis. Individual queues are then assigned to traffic type groups in order to provide traffic type flow control. Based upon prioritization information associated with the cell at the input, cells are prioritized and transmitted from the output, with each cell maintained in the same order, relative to other cells on a connection, in which it was received.

IPC 1-7

H04L 12/56

IPC 8 full level

G06F 12/02 (2006.01); **G06F 9/46** (2006.01); **G06F 15/173** (2006.01); **H04L 1/22** (2006.01); **H04L 12/18** (2006.01); **H04L 12/24** (2006.01); **H04L 12/46** (2006.01); **H04L 12/54** (2013.01); **H04L 13/08** (2006.01); **H04L 29/06** (2006.01); **H04L 29/08** (2006.01); **H04M 3/00** (2006.01); **H04M 3/08** (2006.01); **H04M 3/22** (2006.01); **H04Q 3/00** (2006.01); **H04Q 3/545** (2006.01); **H04Q 11/04** (2006.01); H04J 3/06 (2006.01); H04L 7/04 (2006.01)

CPC (source: EP)

G06F 15/17375 (2013.01); **H04L 12/4608** (2013.01); **H04L 12/5601** (2013.01); **H04L 12/5602** (2013.01); **H04L 41/0896** (2013.01); **H04L 47/10** (2013.01); **H04L 47/11** (2013.01); **H04L 47/18** (2013.01); **H04L 47/26** (2013.01); **H04L 47/266** (2013.01); **H04L 47/29** (2013.01); **H04L 47/30** (2013.01); **H04L 47/621** (2013.01); **H04L 49/106** (2013.01); **H04L 49/107** (2013.01); **H04L 49/153** (2013.01); **H04L 49/1553** (2013.01); **H04L 49/1576** (2013.01); **H04L 49/203** (2013.01); **H04L 49/253** (2013.01); **H04L 49/255** (2013.01); **H04L 49/256** (2013.01); **H04L 49/3081** (2013.01); **H04L 49/309** (2013.01); **H04L 49/455** (2013.01); **H04L 49/552** (2013.01); **H04L 49/555** (2013.01); **H04L 69/324** (2013.01); **H04Q 11/0478** (2013.01); **H04W 28/14** (2013.01); H04J 3/0682 (2013.01); H04J 3/0685 (2013.01); H04L 7/046 (2013.01); H04L 2012/5614 (2013.01); H04L 2012/5616 (2013.01); H04L 2012/5627 (2013.01); H04L 2012/5628 (2013.01); H04L 2012/5629 (2013.01); H04L 2012/5631 (2013.01); H04L 2012/5632 (2013.01); H04L 2012/5634 (2013.01); H04L 2012/5635 (2013.01); H04L 2012/5642 (2013.01); H04L 2012/5643 (2013.01); H04L 2012/5647 (2013.01); H04L 2012/5648 (2013.01); H04L 2012/5649 (2013.01); H04L 2012/5651 (2013.01); H04L 2012/5652 (2013.01); H04L 2012/5672 (2013.01); H04L 2012/5679 (2013.01); H04L 2012/5681 (2013.01); H04L 2012/5682 (2013.01); H04L 2012/5683 (2013.01); H04L 2012/5685 (2013.01)

Citation (search report)

- [XY] FAN R ET AL: "EXPANDABLE ATOM SWITCH ARCHITECTURE (XATOM) FOR ATM LANS", NEW ORLEANS, MAY 1 - 5, 1994,NEW YORK, IEEE,US, vol. -, 1 May 1994 (1994-05-01), pages 402 - 409, XP000438948
- [Y] NOBORU ENDO: "SHARED BUFFER MEMORY SWITCH FOR AN ATM EXCHANGE", IEEE TRANSACTIONS ON COMMUNICATIONS,US,IEEE INC. NEW YORK, vol. 41, no. 1, 1993, pages 237 - 245, XP000367768, ISSN: 0090-6778
- See references of WO 9704564A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9704564 A1 19970206; AU 6502496 A 19970218; EP 0839420 A1 19980506; EP 0839420 A4 20010718; JP H11510010 A 19990831

DOCDB simple family (application)

US 9611943 W 19960718; AU 6502496 A 19960718; EP 96924622 A 19960718; JP 50688097 A 19960718