



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04L 12/64, 12/40, 12/42	A1	(11) International Publication Number: WO 97/24846 (43) International Publication Date: 10 July 1997 (10.07.97)
(21) International Application Number: PCT/SE96/01750 (22) International Filing Date: 23 December 1996 (23.12.96) (30) Priority Data: 9504681-9 28 December 1995 (28.12.95) SE (71) Applicant (for all designated States except US): DYNARC AB [SE/SE]; Hagavägen 10, S-171 53 Solna (SE). (72) Inventors; and (75) Inventors/Applicants (for US only): BOHM, Christer [SE/SE]; S:t Paulsgatan 28A, S-118 48 Stockholm (SE). LIND- GREN, Per [SE/SE]; Maria Prästgårdsgatan 12, S-118 52 Stockholm (SE). RÅMFELT, Lars [SE/SE]; Svanekegränd 1, 2tr., S-164 40 Kista (SE). HIDEELL, Markus [SE/SE]; Kyrkvägen 38, S-181 42 Lidingö (SE). SJÖDIN, Peter [SE/SE]; Linnégatan 18B, S-753 32 Uppsala (SE). (74) Agent: L.A. GROTH & CO. KB; P.O. Box 6107, S-102 32 Stockholm (SE).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. With amended claims. In English translation (filed in Swedish).	

(54) Title: METHOD AND ARRANGEMENT FOR NETWORK RESOURCE ADMINISTRATION

(57) Abstract

The present invention relates to a method and an arrangement for centralized and distributed management of the capacity in a circuit-switched network with a bus or ring structure, especially a network of DTM-type (Dynamic Synchronous Transfer Mode), which network uses a bandwidth which is partitioned in cycles, which in turn are partitioned in control time slots for signalling and data time slots for transfer of data, and wherein each data time slot is associated with a token. In the centralized version, a first node, called server node, is allocated tokens corresponding to all data time slots which are flowing in one direction in a bus or a ring. A second node is requesting tokens corresponding to a certain capacity from the server node, and the server node makes reservations for and transfers tokens corresponding to requested capacity to the other node in event the server node has requested capacity unutilized. The number of server nodes in the distributed version is between two and the total number of nodes in the bus or ring.