

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
17 January 2002 (17.01.2002)

PCT

(10) International Publication Number
WO 02/05068 A3

(51) International Patent Classification?: G01R 31/08, G06F 11/00, G08C 15/00, H04J 1/16, 3/14, H04L 1/00, 12/26, 12/28, 12/66

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(21) International Application Number: PCT/US01/04803

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(22) International Filing Date: 14 February 2001 (14.02.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/220,711 7 July 2000 (07.07.2000) US

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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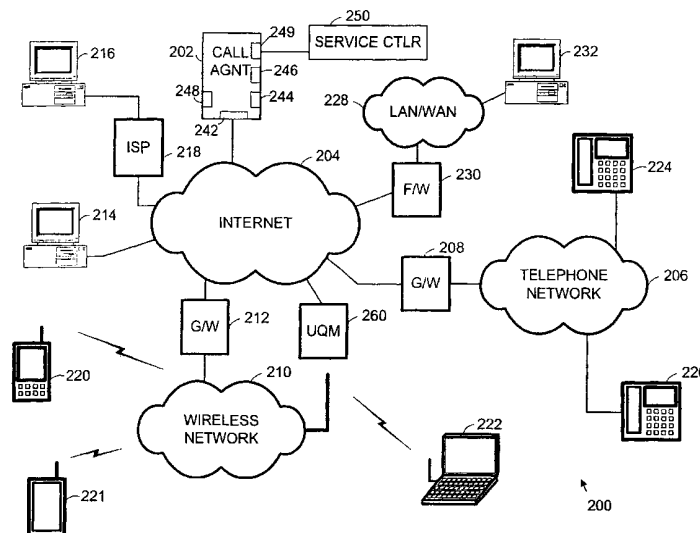
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Published:
— with international search report

(88) Date of publication of the international search report:
11 April 2002

[Continued on next page]

(54) Title: END-TO-END QOS IN A SOFTSWITCH BASED NETWORK



(57) Abstract: The present invention provides end-to-end (ETE) quality of service (QoS) for voice and other real time applications in a Softswitch-based network, and more particularly, in a packet data network or IP network (200) that is capable of setting up and routing voice calls through Softswitch. The soft switch system comprises a call agent (202) that sets up and routes the calls. A universal quality of service manager (UQM) is formed to work with the call agent and the gateways (208, 212) and routers of the IP network (200) to provision, control, and guarantee the ETE QoS for voice and other real time applications. The UQM consists of five components: Bandwidth Manager, Policy Engine, Real Time Performance Monitor, Admission Controller, and Bandwith Broker. With different levels of interactions between the above five components, the QoS for voice and other real time applications can be achieved by QoS provisioning, QoS controlling, and an ETE QoS guarantee.



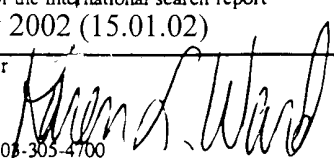
WO 02/05068 A3



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/04803

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| A. CLASSIFICATION OF SUBJECT MATTER | | |
| IPC(7) : G01R 31/08; G06F 11/00; G08C 15/00; H04J 1/16, 3/14; H04L 1/00, 12/26, 12/28, 12/66; US CL : 370/231, 356 | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | |
| B. FIELDS SEARCHED | | |
| Minimum documentation searched (classification system followed by classification symbols) U.S. : 370/229-238, 351-356; 709/223-235 | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X --- | US 6,064,653 A (FARRIS) 16 May 2000, Figure 3. | 1, 3-5, 8 and 20-23 |
| Y | | 2, 6-7 and 9-19 |
| X --- | US 6,084,872 A (MUNSON et al) 04 July 2000, abstract and Figure 1. | 1, 3-5, 8 and 20-23 |
| Y | | 2, 6-7 and 9-19 |
| X --- | US 6,078,582 A (CURRY et al) 20 June 2000, Figure 6. | 1, 3-5, 8 and 20-23 |
| Y | | 2, 6-7 and 9-19 |
| Y | US 6,092,113 A (MAESHIMA et al) 18 July 2000, abstract and Figure 1. | 2, 6-7 and 9-19 |
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| Date of the actual completion of the international search | Date of mailing of the international search report | |
| 16 April 2001 (16.04.2001) | 15 January 2002 (15.01.02) | |
| Name and mailing address of the ISA/US | Authorized officer | |
| Commissioner of Patents and Trademarks Box PCT Washington, D C 20231 | Kevin C. Harper  | |
| Facsimile No. (703)305-3230 | Telephone No. 703-305-4700 | |

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/04803

Continuation of B. FIELDS SEARCHED Item 3: East search terms: qos, internet, voice, call