

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/019536 A3

(51) International Patent Classification⁷: **H04J 3/24**

(21) International Application Number:
PCT/US2003/025534

(22) International Filing Date: 14 August 2003 (14.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/227,117 23 August 2002 (23.08.2002) US

(71) Applicant: **MOTOROLA, INC.** [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US).

(72) Inventor: **KHAWAND, Charbel**; 13411 S.W. 2nd Street, Miami, FL 33184 (US).

(74) Agents: **DULANEY, Randi, L.** et al.; 8000 West Sunrise Boulevard, Room 1610, Fort Lauderdale, FL 33322 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

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

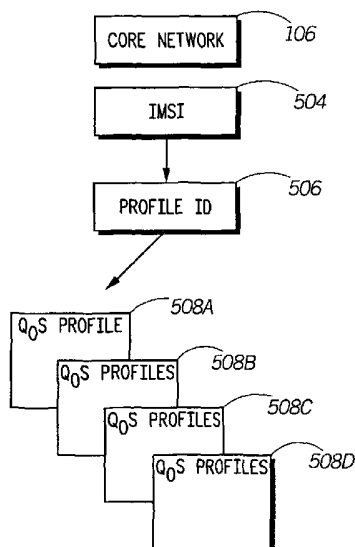
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
26 August 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PRE-NEGOTIATED QUALITY OF SERVICE



(57) Abstract: The invention relates to a system and method for use in wireless packet data mode communications, for enabling faster connection time for communications between a mobile station (102) and a base station (106). The invention provides for the use of a profile identifier to reference and activate on a base station (106) a quality of service related to the communication between the mobile station (102) and the base station (106). The profile identifier (506) is uniquely associated with a quality of service profile (508), which was pre-negotiated by the mobile station (102) or is a quality of service profile (508), which is permanent for the type of mobile station (102).



WO 2004/019536 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25534

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04J 3/24
US CL : 370/349, 325

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. : 370/349, 325, 254, 310, 328, 329, 331, 338, 342, 343, 344, 345, 349, 352, 395.21, 468; 455/403, 412.1, 422.1, 426.1

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 2002/0114305 A1 (OYAMA) 22 August 2002, paragraphs 0070, 0046, 0043, 0068, 0089; fig. 12	1-4
A,P	US 2003/0095527 A1 (SHANBHAG) 22 May 2003, see entire document.	1-4
A,E	US 6,636,502 B1 (LAGER et al) 21 October 2003, see entire document.	1-4



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
"B" earlier application or patent published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search

17 June 2004 (17.06.2004)

Date of mailing of the international search report

24 JUN 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Kenneth Wieder

Telephone No. 703-305-4700

INTERNATIONAL SEARCH REPORT

PCT/US03/25534

Continuation of B. FIELDS SEARCHED Item 3:
USPAT; US-PG-PUB; EPO; JPO; DERWENT
wireless or radio