

(19) World Intellectual Property
Organization
International Bureau



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

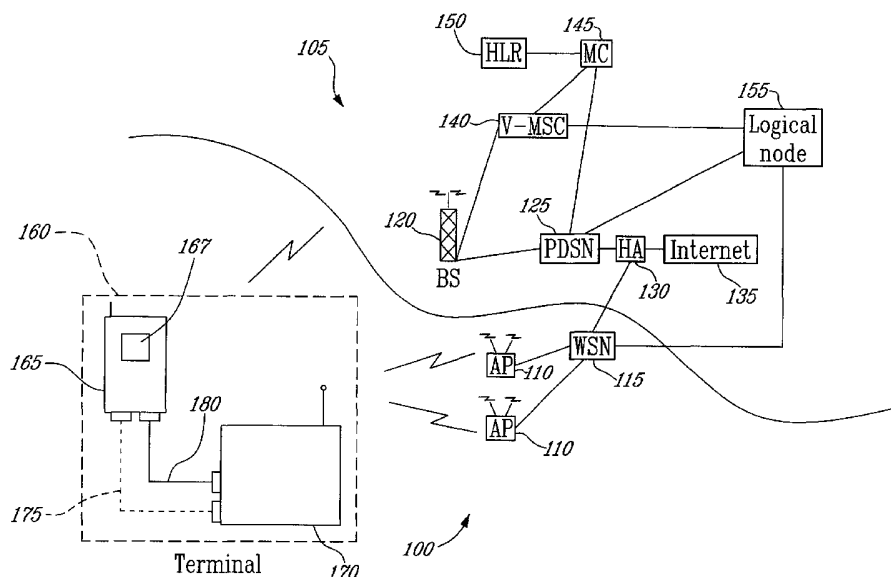
PCT

(10) International Publication Number
WO 2004/019557 A3

- (51) International Patent Classification⁷: **H04L 12/28**, H04Q 7/38
- (21) International Application Number: PCT/CA2003/000962
- (22) International Filing Date: 10 July 2003 (10.07.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/226,334 23 August 2002 (23.08.2002) US
- (71) Applicant (for all designated States except US): **TELEFONAKTIEBOLAGET LM ERICSSON** (publ) [SE/SE]; S-164 83 Stockholm (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **JOONG, Donald** [CA/CA]; 9147 25th Avenue, Montreal, Québec H1Z 4C7 (CA). **SANMUGAM, Raj** [CA/CA]; 2870 Cedarwood Drive, Ottawa, Ontario K1V 8Y5 (CA). **TOUATI, Samy** [CA/CA]; 383 Vaudreuil, Rosemere, Québec J7A 4E8 (CA).
- (74) Agents: **BEAUCHESNE, Sandra** et al.; Ericsson Canada Inc., 8400 Decarie Boulevard, Town of Mount-Royal, Québec H4P 2N2 (CA).
- (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, US, 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

[Continued on next page]

(54) Title: SIGNALING WIRELESS WIDE AREA NETWORK MECHANISM FOR A TERMINAL LOCATED IN A WIRELESS LOCAL AREA NETWORK



(57) Abstract: The present invention relates to a text message for carrying control information from a Wireless Wide Area Network (WWAN) to a terminal in a Wireless Local Area Network (WLAN). The text message has a code for indicating to the terminal that the text message contains control information and a text portion being the control information. A logical node located in the WWAN sends control information to the terminal located in a WLAN. The logical node receives information regarding the terminal from a Wireless Serving Node (WSN) located in the WLAN. The logical node has knowledge of an access point connected to the WSN that currently serves the terminal in the WLAN. The logical node triggers in a message center of the WWAN the sending of the text message the terminal.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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.

(88) Date of publication of the international search report:

3 June 2004

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/00962

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04L12/28 H04Q7/38

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)

IPC 7 H04Q H04L

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 practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 944 203 A (NOKIA MOBILE PHONES LTD) 22 September 1999 (1999-09-22) column 4, paragraph 17 - column 7, paragraph 31 -----	1-14
A	WO 01/99441 A (NOKIA CORP ; NOKIA INC (US)) 27 December 2001 (2001-12-27) page 6, line 6 - page 8, line 6 page 13, line 20 - page 18, line 16 figures 3-7 -----	1-14
A	EP 1 191 763 A (ROKE MANOR RESEARCH) 27 March 2002 (2002-03-27) the whole document -----	1-14

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but 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.

G document member of the same patent family

Date of the actual completion of the international search

5 April 2004

Date of mailing of the international search report

14/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Brezmes Alonso, F

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/00962

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0944203	A	22-09-1999	FI 980291 A EP 0944203 A2 US 6477644 B1	10-08-1999 22-09-1999 05-11-2002
WO 0199441	A	27-12-2001	AU 6416801 A WO 0199441 A2	02-01-2002 27-12-2001
EP 1191763	A	27-03-2002	GB 2367213 A EP 1191763 A2 US 2002037708 A1	27-03-2002 27-03-2002 28-03-2002