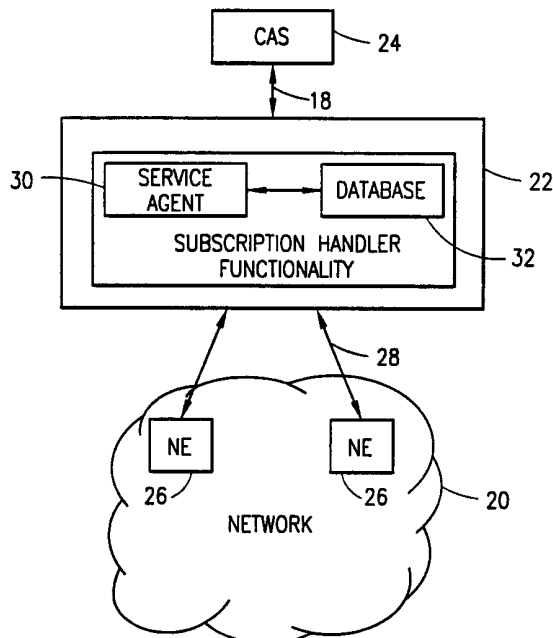




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : H04Q 7/00	A3	(11) International Publication Number: WO 00/38437 (43) International Publication Date: 29 June 2000 (29.06.00)
(21) International Application Number: PCT/SE99/02233 (22) International Filing Date: 30 November 1999 (30.11.99) (30) Priority Data: 09/217,768 21 December 1998 (21.12.98) US (71) Applicant: TELEFONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-126 25 Stockholm (SE). (72) Inventors: GLITHO, Roch; 4530 Beaconsfield, Montréal, Québec H4A 2H7 (CA). GOURRAUD, Christophe; 3820 rue de Mentana, Apt. 101, Montréal, Québec H2L 3R6 (CA). (74) Agent: NORIN, Klas; Ericsson Radio Systems AB, Common Patent Department, S-164 80 Stockholm (SE).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report. (88) Date of publication of the international search report: 2 November 2000 (02.11.00)

(54) Title: SUBSCRIPTION HANDLER INTERFACE BETWEEN A CUSTOMER ADMINISTRATIVE SYSTEM AND DATABASE NETWORK ELEMENTS OF A COMMUNICATIONS NETWORK



(57) Abstract

A customer administrative system (24) of a wireless communications system is interfaced with one or more system database network elements (26) to support a subscription handling functionality. A subscription handler service agent (30) is included in the interface (22) to process received orders concerning a subscription management activity or task. The interface (22) further includes a database (32) storing certain network over-view knowledge (network modeling) concerning the subscriptions maintained in the database network elements (26). The interface (22), through the service agent (30), updates the network over-view knowledge to record customer administrative orders and database network element responses relating to subscription management activities or tasks. Furthermore, utilizing the information comprising the network over-view knowledge, the interface (22), again through the service agent (30), evaluates each received order against the database stored network over-view knowledge, and responsive to such an evaluation operates to identify and intercept incoherent orders that are not understandable by, or are inapplicable to, the database network elements (26).

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece			TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/02233

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04Q 7/00

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)

IPC7: H04Q

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 9927733 A1 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)), 3 June 1999 (03.06.99), page 1, line 6 - page 3, line 17; page 3, line 33 - page 7, line 6, figure 2 --	1-11
P,X	WO 9931566 A1 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)), 24 June 1999 (24.06.99), page 1, line 27 - page 3, line 6, figure 1 --	1-11
X	US 5592664 A (JAMES A. STARKEY), 7 January 1997 (07.01.97), column 3, line 65 - column 4, line 51 --	1,4,7,8,11

☒ 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

"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

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

9 June 2000

26. 07. 2000

Name and mailing address of the International Searching Authority
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

Stefan Hanssson/mj

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/02233

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5805886 A (RUNE A. SKARBO ET AL), 8 Sept 1998 (08.09.98), abstract --	1-11
A	US 5781737 A (MICHAEL ANTHONY SCHMIDT), 14 July 1998 (14.07.98), abstract -- -----	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SE 99/02233

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9927733 A1	03/06/99	AU 1181699 A	15/06/99
WO 9931566 A1	24/06/99	AU 1896499 A	05/07/99
US 5592664 A	07/01/97	NONE	
US 5805886 A	08/09/98	NONE	
US 5781737 A	14/07/98	NONE	