



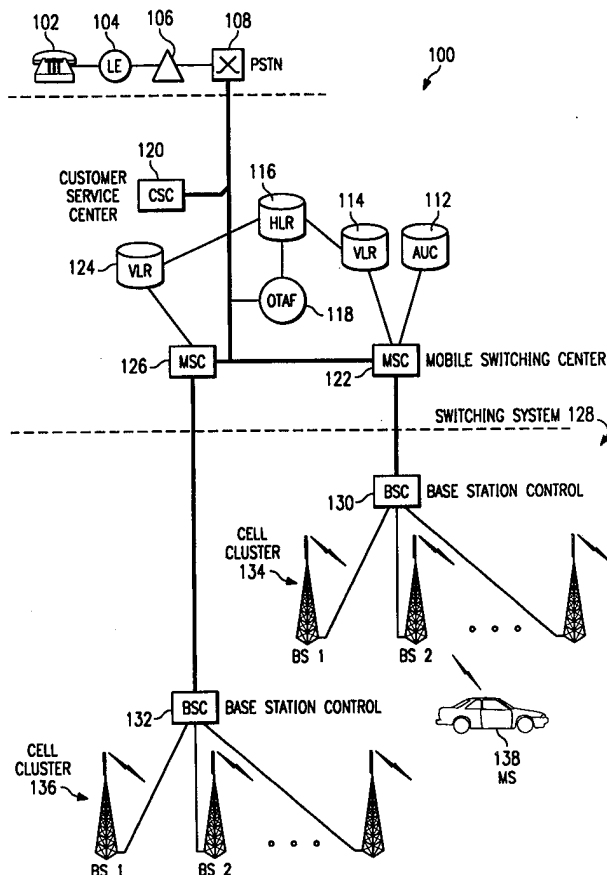
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : H04Q 7/32</p>	<p>A3</p>	<p>(11) International Publication Number: WO 98/41044</p> <p>(43) International Publication Date: 17 September 1998 (17.09.98)</p>
<p>(21) International Application Number: PCT/US98/05096</p> <p>(22) International Filing Date: 13 March 1998 (13.03.98)</p> <p>(30) Priority Data: 60/041,093 14 March 1997 (14.03.97) US</p> <p>(71) Applicant: NORTHERN TELECOM INC. [US/US]; 2221 Lakeside Boulevard, Richardson, TX 75082-4399 (US).</p> <p>(72) Inventors: YAU-FAN, Leung; 1604 Belgrade Drive, Plano, TX 75023 (US). DENMAN, Robert, E.; 2420 San Gabriel Drive, Plano, TX 75074 (US). WAMBSGANZ, Kevin; 1809 Papeete Drive, Plano, TX 75075 (US). CHANG, Kim; 3114 Park Gark Place, Richardson, TX 75082 (US).</p> <p>(74) Agent: CARR, Gregory, W.; Winstead Sechrest & Minick P.C., 5400 Renaissance Tower, 1201 Elm Street, Dallas, TX 75270-2199 (US).</p>		<p>(81) Designated States: JP, KR.</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 14 January 1999 (14.01.99)</p>

(54) Title: METHOD AND APPARATUS FOR NETWORK INITIATED PARAMETER UPDATING

(57) Abstract

Disclosed is an apparatus for initiating an over the air parameter administration (OTAPA) of a mobile station without the need for interacting with a mobile station user. A unique service option number included with the initial page indicates to the mobile station that an update is being requested. The mobile station performs a network validation check (SPASM) before permitting the update to take place. Flags are used in the network to alert the system that an attempted update was not completed because a mobile station was not update accessible for any of several reasons. The flags cause the system to update when the mobile station next becomes update accessible.



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			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/US 98/05096

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04Q7/32

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 6 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 practical, 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.
X	US 5 722 084 A (CHAKRIN ET AL.) 24 February 1998 see column 2, line 1 - column 4, line 13; figures ---	1,4,6,8, 10,12,23
X	WO 96 27270 A (ERICSSON) 6 September 1996 see page 8, line 19 - page 20, line 10; figures ---	1,4,6,8, 10,12,23
X	DE 196 33 919 C (SIEMENS) 5 June 1997 see column 1, line 62 - column 3, line 55; figure ---	21,22
A	EP 0 767 426 A (SIEMENS) 9 April 1997 see page 2, line 1 - page 4, line 20; figures ---	1-20
	-/--	

Further documents are listed in the continuation of box C. Patent family members are listed in annex.

Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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.</p> <p>"&" document member of the same patent family</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Date of the actual completion of the international search	Date of mailing of the international search report
23 November 1998	30/11/1998

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 <p style="text-align: center;">Geoghegan, C</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 98/05096

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 675 661 A (ALCATEL) 4 October 1995 see page 2, column 2, line 47 - page 4, column 5, line 18; figures -----	1-10
A	EP 0 478 231 A (AT&T) 1 April 1992 see page 4, line 14 - page 6, line 43; figures -----	1-20
A	EP 0 459 344 A (ALCATEL) 4 December 1991 see page 3, column 3, line 31 - page 5, column 8, line 34; figures -----	1-20
A	DE 43 21 381 A (ALCATEL) 5 January 1995 see column 2, line 21 - column 3, line 66; figures -----	21,22

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 98/05096

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5722084	A	24-02-1998	US 5297192 A	22-03-1994
			US 5297191 A	22-03-1994
			CN 1101469 A	12-04-1995
			EP 0630167 A	21-12-1994
			JP 7107187 A	21-04-1994
			CA 2045801 A,C	29-03-1992
			DE 69124445 D	13-03-1997
			DE 69124445 T	26-06-1997
			EP 0478231 A	01-04-1992
			ES 2096631 T	16-03-1997
			JP 2593599 B	26-03-1997
			JP 6343108 A	13-12-1994
			CA 2045800 A,C	29-03-1992
			JP 2801445 B	21-09-1998
			JP 6284078 A	07-10-1994
WO 9627270	A	06-09-1900	US 5603084 A	11-02-1997
			AU 5300896 A	18-09-1996
			CA 2213464 A	06-09-1996
			CN 1182522 A	20-05-1998
DE 19633919	C	05-06-1997	NONE	
EP 767426	A	09-04-1900	NONE	
EP 675661	A	04-10-1995	FR 2718263 A	06-10-1995
			AU 698341 B	29-10-1998
			AU 1612395 A	12-10-1995
			CA 2145602 A	01-10-1995
			FI 951493 A	01-10-1995
			JP 7271692 A	20-10-1995
			NZ 270702 A	29-01-1997
EP 478231	A	01-04-1992	CA 2045800 A,C	29-03-1992
			DE 69124445 D	13-03-1997
			DE 69124445 T	26-06-1997
			ES 2096631 T	16-03-1997
			JP 2801445 B	21-09-1998
			JP 6284078 A	07-10-1994
			US 5297191 A	22-03-1994
			US 5722084 A	24-02-1998
			CA 2045801 A,C	29-03-1992
			JP 2593599 B	26-03-1997
			JP 6343108 A	13-12-1994
			US 5297192 A	22-03-1994
EP 459344	A	04-12-1991	FR 2662891 A	06-12-1991
			AU 643526 B	18-11-1993
			AU 7739591 A	05-12-1991
DE 4321381	A	05-01-1995	NONE	