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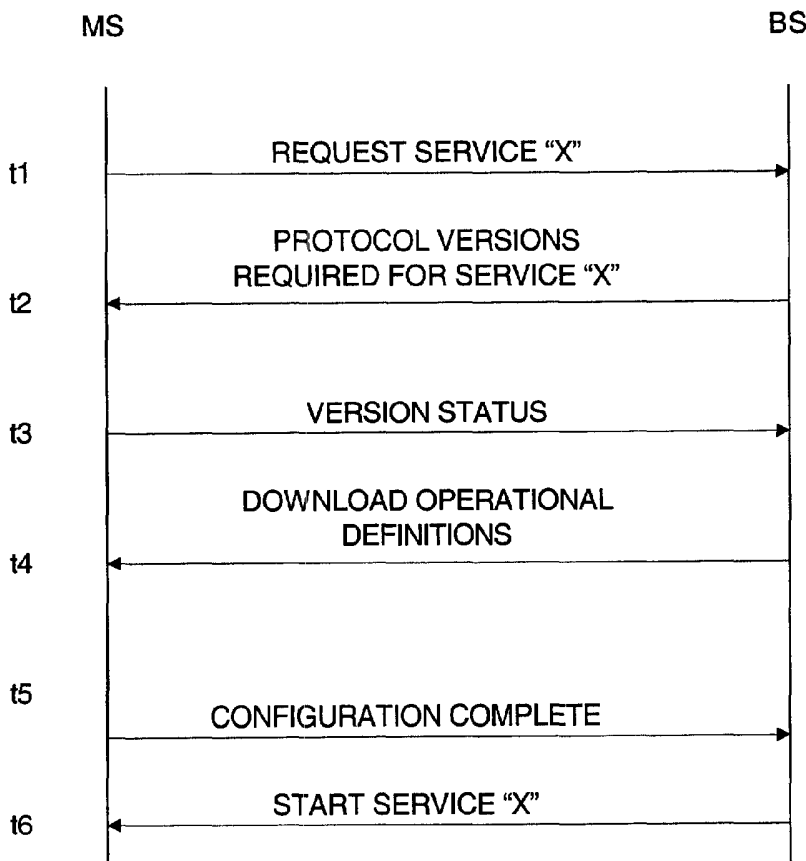
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[Continued on next page]

(54) Title: PROVISION OF OPERATIONAL DEFINITIONS IN A WIRELESS COMMUNICATION SYSTEM



(57) Abstract: A wireless configurable radio application. When a wireless device requests a wireless service, the carrier network identifies protocol versions required for the service. A protocol version list is then provided to the wireless device. The wireless device requests any protocol versions not currently resident in the wireless device. The carrier network provides such protocols and the wireless device implements the protocols.

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

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q/32 H04M1/725

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 H04M G06F

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/019237 A1 (USKELA SAMI) 14 February 2002 (2002-02-14) paragraph '0031! paragraphs '0035!-'0038!	7,10-12
Y	paragraph '0049!	8,9
A	paragraph '0054! paragraph '0059!	1,5,13, 14
Y	---	
Y	WO 02 43422 A (MOESSNER KLAUS ;UNIV SURREY (GB); VAHID SEIAMAK (GB); TAFAZOLLI RA) 30 May 2002 (2002-05-30) page 2, line 18 -page 3, line 6 page 6, line 1 -page 7, line 3	8,9
A	---	
A	EP 0 804 045 A (TELIA AB) 29 October 1997 (1997-10-29) column 2, line 11 -column 3, line 49	1,5,7, 13,14

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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Int al Application No
PCT/US 03/25412

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 90890 A (ROKE MANOR RESEARCH ;MEHTA MEHUL (GB)) 29 November 2001 (2001-11-29) page 4, line 11 -page 5, line 12 page 8, line 7 - line 12 page 11, line 22 - line 26 page 12, line 3 - line 20 page 14, line 14 - line 30 ---	1,5,7, 13,14
A	US 6 223 030 B1 (WHINNETT NICHOLAS ET AL) 24 April 2001 (2001-04-24) column 2, line 66 -column 4, line 16 -----	1,5,7, 13,14

INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/US 03/25412

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002019237	A1	14-02-2002	FI 990844 A	16-10-2000
			AU 3969600 A	02-11-2000
			CN 1346578 T	24-04-2002
			EP 1169872 A1	09-01-2002
			WO 0064202 A1	26-10-2000
WO 0243422	A	30-05-2002	AU 2308202 A	03-06-2002
			EP 1338161 A1	27-08-2003
			WO 0243422 A1	30-05-2002
EP 0804045	A	29-10-1997	SE 515251 C2	02-07-2001
			EP 0804045 A2	29-10-1997
			NO 971783 A	27-10-1997
			SE 9601558 A	25-10-1997
WO 0190890	A	29-11-2001	EP 1283994 A1	19-02-2003
			WO 0190890 A1	29-11-2001
			GB 2366957 A	20-03-2002
			AT 254777 T	15-12-2003
			DE 60101271 D1	24-12-2003
			EP 1283995 A1	19-02-2003
			WO 0190891 A1	29-11-2001
			GB 2364218 A	16-01-2002
US 6223030	B1	24-04-2001	GB 2294844 A	08-05-1996
			AU 700136 B2	24-12-1998
			AU 3980095 A	31-05-1996
			DE 19581443 T0	27-02-1997
			FI 962789 A	03-09-1996
			JP 9507986 T	12-08-1997
			CN 1141111 A ,B	22-01-1997
			WO 9614719 A1	17-05-1996
			RU 2153237 C2	20-07-2000