

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
NOKIA USA INC.		11/16/2018
RECEIVING PARTY DATA		
Name:	PROVENANCE ASSET GROUP, LLC	
Street Address:	10040 BROMPTON DRIVE	
City:	TAMPA	
State/Country:	FLORIDA	
Postal Code:	33626	
PROPERTY NUMBERS Total: 107		
Property Type	Number	
Patent Number:	7164909	
Patent Number:	7218913	
Patent Number:	7710955	
Patent Number:	7949735	
Patent Number:	7580700	
Patent Number:	7590062	
Patent Number:	7180998	
Patent Number:	7477678	
Patent Number:	7378921	
Patent Number:	7848656	
Patent Number:	7126997	
Patent Number:	8509216	
Patent Number:	7593397	
Patent Number:	7599366	
Patent Number:	7684325	
Patent Number:	6816668	
Patent Number:	7917944	
Patent Number:	7158478	
Patent Number:	6744868	
Patent Number:	7171120	

PATENT

Property Type	Number
Patent Number:	7596093
Patent Number:	7206287
Patent Number:	7180872
Patent Number:	7907518
Patent Number:	7872993
Patent Number:	7167529
Patent Number:	7372920
Patent Number:	7157963
Patent Number:	7940182
Patent Number:	7860085
Patent Number:	7929574
Patent Number:	7944858
Patent Number:	7889665
Patent Number:	7876785
Patent Number:	7953017
Patent Number:	7953004
Patent Number:	8948774
Patent Number:	8674762
Patent Number:	8971357
Patent Number:	8958544
Patent Number:	9043883
Patent Number:	7424273
Patent Number:	7860044
Patent Number:	7187715
Patent Number:	7885661
Patent Number:	7174177
Patent Number:	7929864
Patent Number:	7903605
Patent Number:	7676215
Patent Number:	7929499
Patent Number:	7810057
Patent Number:	6970721
Patent Number:	7908546
Patent Number:	7215963
Patent Number:	7183819
Patent Number:	7907558
Patent Number:	7161425
Patent Number:	7197024

Property Type	Number
Patent Number:	7885658
Patent Number:	7948942
Patent Number:	7333567
Patent Number:	7224993
Patent Number:	7929580
Patent Number:	7181219
Patent Number:	7869416
Patent Number:	7088679
Patent Number:	7451241
Patent Number:	7941558
Patent Number:	7949363
Patent Number:	8380195
Patent Number:	7227905
Patent Number:	7929653
Patent Number:	7257114
Patent Number:	7336947
Patent Number:	7158793
Patent Number:	7170865
Patent Number:	7656830
Patent Number:	7940745
Patent Number:	7162667
Patent Number:	7224705
Patent Number:	7961713
Patent Number:	7069052
Patent Number:	8971899
Patent Number:	7782889
Patent Number:	7193979
Patent Number:	7885193
Patent Number:	7444665
Patent Number:	7961597
Patent Number:	7864117
Patent Number:	8922453
Patent Number:	7200174
Patent Number:	7894399
Patent Number:	7058034
Patent Number:	7236523
Patent Number:	7061430
Patent Number:	7917669

Property Type	Number
Patent Number:	7151920
Patent Number:	7218939
Patent Number:	7183983
Patent Number:	8964812
Patent Number:	9043532
Patent Number:	8913527
Patent Number:	7911773
Patent Number:	7873863
Patent Number:	9054856
Patent Number:	9037095
Application Number:	13941698

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NAME OF SUBMITTER:	RALPH SCHROEDER
SIGNATURE:	/Ralph Schroeder/
DATE SIGNED:	12/12/2018

Total Attachments: 12

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PARTIAL RELEASE OF SECURITY INTEREST IN PATENTS

THIS PARTIAL RELEASE OF SECURITY INTEREST IN PATENTS (this "Release") is made as of November 16, 2018 ("Effective Date") by Nokia USA Inc., a Delaware limited liability company, ("Nokia"), in favor of Provenance Asset Group, LLC, a Delaware limited liability company ("Grantor").

WHEREAS, pursuant to the terms and conditions of that certain Patent Security Agreement by and among Grantor, Provenance Asset Group, LLC, and Nokia, dated September 13, 2017 (the "Patent Security Agreement"), Grantor granted to Nokia a lien on and security interest in all of Grantor's right, title and interest in, to and under the Patent Collateral (as defined in the Patent Security Agreement), including the patents set forth on Schedule A attached hereto (the "Released Patents");

WHEREAS, the Patent Security Agreement was recorded with the United States Patent and Trademark Office on September 29, 2017 at Reel/Frame 2017 6523176; and

WHEREAS, Nokia has agreed to release its security interest in the Released Patents as set forth in Schedule 1 attached hereto.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Nokia hereby terminates the Patent Security Agreement solely with respect to the Released Patents, and hereby terminates, cancels and releases any and all security interests it has in, to and under the Released Patents.

Nokia represents and warrants that: (i) it has the full power and authority to execute this Release; and (ii) it has not assigned, transferred, restricted or otherwise encumbered any security interest it has in, to and under the Released Patents.

Nokia shall take all further actions, and provide to Grantor, its successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments) requested by Grantor to more fully and effectively effectuate the purposes of this Release.

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IN WITNESS WHEREOF, Nokia has caused this Release to be executed by its duly authorized representative as of the Effective Date.

NOKIA USA INC.

By: Ronald A. Antosh

Name: Ronald Antosh

Title: President

By: Clare Andrews

Name: CLARE ANDREWS

Title: AUTHORIZED SIGNATORY

SCHEDULE 1

RELEASED PATENTS

Patent No.	App. No.	Pub. No.	Country	Description	Effective Date
00403623.2	EP1124392	EP1124392	DE	Mixed mobile telecommunications terminal for use in a first collective network and a second preferred network	2000-12-21
00403623.2	EP1124392	EP1124392	FR	Mixed mobile telecommunications terminal for use in a first collective network and a second preferred network	2000-12-21
00403623.2	EP1124392	EP1124392	GB	Mixed mobile telecommunications terminal for use in a first collective network and a second preferred network	2000-12-21
0001000860	JP4657459	JP4657459	JP	In order in base station of portable communication terminal null public cellular network of multi standard in order to use in the both of 1st	2001-01-05
09/754212	US7164909	US7164909	US	Multi-standard mobile telecommunications terminal for use both in a public first network and in a preferred local second network	2001-01-05
0001421	FR2804825	FR2804825	FR	Convenience of the business network	2000-02-04
09/773729	US7218913	US7218913	US	Company telephone network	2001-02-02
02291748.8	EP1278343	EP1278343	DE	Active network	2002-07-11
02291748.8	EP1278343	EP1278343	FR	Active network	2002-07-11
02291748.8	EP1278343	EP1278343	GB	Active network	2002-07-11
02291748.8	EP1278343	EP1278343	IT	Active network	2002-07-11
10/197402	US7710955	US7710955	US	Taking account of information relating to the environment of active nodes when determining the code associated with an active application	2002-07-18
200410069778.4	CN200410069778	CN200410069778	CN	TRANSACTION FRAMEWORK FOR	2004-07-18
04291563.7	EP1501241	EP1501241	DE	Method for supplying policy-rules to a policy-rule based managed network	2004-06-21
04291563.7	EP1501241	EP1501241	FR	Method for supplying policy-rules to a policy-rule based managed network	2004-06-21
04291563.7	EP1501241	EP1501241	GB	Method for supplying policy-rules to a policy-rule based managed network	2004-06-21
2004187587	JP4707973	JP4707973	JP	Being the transaction process which offers the rule in the network which includes with	2004-06-25
10/885754	US7949735	US7949735	US	Transaction process for the provisioning of rules in a rule-based network	2004-07-02
200400024070.5	CN688926	CN688926	CN	RACH SLOTTED ALOHA RECEIPT	2004-06-30
04291657.7	EP1508981	EP1508981	DE	Method and system for communication management in a random access network	2004-06-30
04291657.7	EP1508981	EP1508981	FR	Method and system for communication management in a random access network	2004-06-30
04291657.7	EP1508981	EP1508981	GB	Method and system for communication management in a random access network	2004-06-30
04291657.7	EP1508981	EP1508981	IT	Method and system for communication management in a random access network	2004-06-30
10/558743	US7580700	US7580700	US	Method of managing access to a random-access communication network	2004-06-30
11/118991	US7590062	US7590062	US	Correlating end-to-end passive measurements using hierarchical filters	2005-04-26
03293356.6	EP1548951	EP1548951	DE	A regulator for impedance balancing of a transmission wire pair	2003-12-26
03293356.6	EP1548951	EP1548951	FR	A regulator for impedance balancing of a transmission wire pair	2003-12-26
03293356.6	EP1548951	EP1548951	GB	A regulator for impedance balancing of a transmission wire pair	2003-12-26
11/002202	US7180996	US7180996	US	Regulator for impedance balance of a transmission wire pair	2004-12-03
03178420.8	CN1218533	CN1218533	CN	Method for input order to OMC	2003-07-16
02360229.5	EP1387525	EP1387525	DE	A method for entering of commands for an operation and maintenance centre (OMC)	2002-08-02
02360229.5	EP1387525	EP1387525	EP	A method for entering of commands for an operation and maintenance centre (OMC)	2002-08-02
02360229.5	EP1387525	EP1387525	FR	A method for entering of commands for an operation and maintenance centre (OMC)	2002-08-02
02360229.5	EP1387525	EP1387525	GB	A method for entering of commands for an operation and maintenance centre (OMC)	2002-08-02

200410086635.4	CN200410086635	CN200410086635	CN	Resource Efficient Path S	2004-11-19
03027037.7	EP1533912	EP1533912	DE	A method of finding delays of a multipath channel	2003-11-22
03027017.7	EP1533912	EP1533912	FR	A method of finding delays of a multipath channel	2003-11-22
03027021.7	EP1533912	EP1533912	GB	A method of finding delays of a multipath channel	2003-11-22
00/975376	US7477676	US7477676	US	Method of finding delays of a multipath channel	2004-10-29
200510073802.8	CN200510073802	CN200510073802	CN	Symmetrical radio frequen	2005-07-07
04360063.4	EP1615335	EP1615335	DE	Coupling arrangement for RF-based differential signal transmission	2004-07-08
04360063.4	EP1615335	EP1615335	FR	Coupling arrangement for RF-based differential signal transmission	2004-07-08
04360063.4	EP1615335	EP1615335	GB	Coupling arrangement for RF-based differential signal transmission	2004-07-08
01/174625	US7378921	US7378921	US	Coupling arrangement for RF-based differential signal transmission	2005-07-08
200710102228.1	CN200710102228	CN200710102228	CN	Adaptive Pre/Post compens	2007-04-30
06290921.3	EP1855399	EP1855399	DE	Method of operating and optimising a WDM transmission system and corresponding computer program product	2006-05-08
06290921.3	EP1855399	EP1855399	FR	Method of operating and optimising a WDM transmission system and corresponding computer program product	2006-05-08
06290921.3	EP1855399	EP1855399	GB	Method of operating and optimising a WDM transmission system and corresponding computer program product	2006-05-08
01/733161	US7848856	US7848856	US	Method of operating and optimising a WDM transmission system and computer program product	2007-04-09
01440309.1	EP1296492	EP1296492	DE	Multicarrier receiver with a sliding window Fourier transform and a Fourier transform	2001-09-21
01440309.1	EP1296492	EP1296492	FR	Multicarrier receiver with a sliding window Fourier transform and a Fourier transform	2001-09-21
01440309.1	EP1296492	EP1296492	GB	Multicarrier receiver with a sliding window Fourier transform and a Fourier transform	2001-09-21
00/247476	US7126997	US7126997	US	Multicarrier receiver	2002-09-26
201410124290.0	CN201410124290	CN201410124290	CN	HOME IP PLUG CONTROLLER	2014-03-28
200510085774.5		CN1661255	CN	HOME IP PLUG CONTROLLER	2005-03-21
04290905.1	EP1585253	EP1585253	DE	Method for management of communication devices in an access network and a related access unit	2004-04-05
04290905.1	EP1585253	EP1585253	ES	Method for management of communication devices in an access network and a related access unit	2004-04-05
04290905.1	EP1585253	EP1585253	FR	Method for management of communication devices in an access network and a related access unit	2004-04-05
04290905.1	EP1585253	EP1585253	GB	Method for management of communication devices in an access network and a related access unit	2004-04-05
04290905.1	EP1585253	EP1585253	IT	Method for management of communication devices in an access network and a related access unit	2004-04-05
200587760	JP4458848	JP4458848	JP	Management manner of the communication device in access network and the access unit which is related	2005-03-25
200527958	KR101102132	KR101102132	KR	METHOD FOR MANAGEMENT OF COMMUNICATION DEVICES IN AN ACCESS NETWORK AND A RELATED ACCESS UNIT	2005-04-04
04290905.1	EP1585253	EP1585253	NL	Method for management of communication devices in an access network and a related access unit	2004-04-05
04290905.1	EP1585253	EP1585253	PL	Method for management of communication devices in an access network and a related access unit	2004-04-05
04290905.1	EP1585253	EP1585253	TR	Method for management of communication devices in an access network and a related access unit	2004-04-05
03/941696		US20130301476	US	HOME IP PLUG CONTROLLER	2013-07-15
01/091888	US8509216	US8509216	US	Method for management of communication devices in an access network and a related access unit	2005-03-29
200510080622.0	CN10080622	CN10080622	CN	SECURED MAC LEARNING	2005-07-04
04291831.8	EP1617619	EP1617619	DE	Method for securing communication in a local area network switch	2004-07-16
04291831.8	EP1617619	EP1617619	ES	Method for securing communication in a local area network switch	2004-07-16
04291831.8	EP1617619	EP1617619	FR	Method for securing communication in a local area network switch	2004-07-16
04291831.8	EP1617619	EP1617619	GB	Method for securing communication in a local area network switch	2004-07-16
04291831.8	EP1617619	EP1617619	IT	Method for securing communication in a local area network switch	2004-07-16
01/177313	US7593397	US7593397	US	Method for securing communication in a local area network switch	2005-07-11
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04292820.6	EP1662718	EP1662718	FR	Flow-aware Ethernet Digital Subscriber Line Access Multiplexer DSLAM	2004-11-30
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4081/UKNP/2007	IN259726	IN259726	IN	FLOW CONCEPT	2005-11-11
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11/285247	US7599366	US7599366	US	Flow-aware ethernet digital subscriber line access multiplexer DSLAM	2005-11-03
200610126499.6	CN200510126499	CN200610126499	CN	QOS EVALUATOR AND CONTROL	2006-09-01
05291927.1	EP1764948	EP1764948	DE	Method and module for network analysis	2005-09-16
05291927.1	EP1764948	EP1764948	ES	Method and module for network analysis	2005-09-16
05291927.1	EP1764948	EP1764948	FR	Method and module for network analysis	2005-09-16
05291927.1	EP1764948	EP1764948	GB	Method and module for network analysis	2005-09-16
05291927.1	EP1764948	EP1764948	IT	Method and module for network analysis	2005-09-16
0020077090249	KR101194149	KR101194149	KR	METHOD AND MODULE FOR NETWORK ANALYSIS	2006-07-12
11/487306	US7684325	US7684325	US	Method for network analysis and network analyser module	2006-07-17
01409159.5	EP1215752	EP1215752	DE	Phase shifter	2001-12-07
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10/603071	US6816668	US6816668	US	Phase shifter having differently shaped interactive elements and an antenna system formed therefrom	2001-12-06
200510134293.4	CN10134293	CN10134293	CN	SECURE AUTHENTICATION ADV	2005-12-13
05026930.7	EP1670205	EP1670205	DE	Method and apparatuses for pre-authenticating a mobile user to multiple network nodes using a secure authentication advertisement protocol	2005-12-05
05026930.7	EP1670205	EP1670205	FR	Method and apparatuses for pre-authenticating a mobile user to multiple network nodes using a secure authentication advertisement protocol	2005-12-05
05026930.7	EP1670205	EP1670205	GB	Method and apparatuses for pre-authenticating a mobile user to multiple network nodes using a secure authentication advertisement protocol	2005-12-05
11/011876	US7917944	US7917944	US	Secure authentication advertisement protocol	2004-12-13
002140551.2	CN02140551	CN02140551	CN	SIGNALING IN A SHARED PRO	2002-07-09
02012578.7	EP1276263	EP1276263	DE	Method and apparatus and signaling in a shared protection ring architecture	2002-06-06
02012578.7	EP1276263	EP1276263	FR	Method and apparatus and signaling in a shared protection ring architecture	2002-06-06
02012578.7	EP1276263	EP1276263	GB	Method and apparatus and signaling in a shared protection ring architecture	2002-06-06
09/561268	US7198478	US7198478	US	Method and apparatus for signaling in a shared protection ring architecture	2001-07-11
02121563.0	CN02121563	CN02121563	CN	CALL PARTY ID/PROFILE PRE	2002-05-30
02009324.1	EP1263244	EP1263244	DE	Call party profile presentation service in a multimedia network	2002-05-02
02009324.1	EP1263244	EP1263244	ES	Call party profile presentation service in a multimedia network	2002-05-02
02009324.1	EP1263244	EP1263244	FR	Call party profile presentation service in a multimedia network	2002-05-02
02009324.1	EP1263244	EP1263244	GB	Call party profile presentation service in a multimedia network	2002-05-02
02009324.1	EP1263244	EP1263244	IT	Call party profile presentation service in a multimedia network	2002-05-02
02009324.1	EP1263244	EP1263244	NL	Call party profile presentation service in a multimedia network	2002-05-02
08/871410	US6744868	US6744868	US	Call party profile presentation service in a multimedia-capable network	2001-05-31
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03012381.2	EP1370108	EP1370108	FR	Optical switch controller for fair and effective lightpath reservation in an optical network	2003-05-30
03012381.2	EP1370108	EP1370108	GB	Optical switch controller for fair and effective lightpath reservation in an optical network	2003-05-30
10/716902	US7171120	US7171120	US	Optical switch controller for fair and effective lightpath reservation in an optical network	2002-06-05

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02298215.6	EP1324538	EP1324538	GB	Method and system for isolation of a fault location in a communications device	2002-12-23
02298215.6	EP1324538	EP1324538	IT	Method and system for isolation of a fault location in a communications device	2002-12-23
11/023720	US7596093	US7596093	US	Method and system for isolation of a fault location in a communications device	2007-01-16
10/025741	US7206287	US7206287	US	Method and system for isolation of a fault location in a communications device	2001-12-26
03019239.7	EP1395079	EP1395079	DE	OSLAM-hosted information storage functionality	2003-08-26
03019239.7	EP1395079	EP1395079	ES	OSLAM-hosted information storage functionality	2003-08-26
03019239.7	EP1395079	EP1395079	FR	OSLAM-hosted information storage functionality	2003-08-26
03019239.7	EP1395079	EP1395079	GB	OSLAM-hosted information storage functionality	2003-08-26
03019239.7	EP1395079	EP1395079	IT	OSLAM-hosted information storage functionality	2003-08-26
10/227934	US7180872	US7180872	US	OSLAM-hosted information storage functionality	2002-08-26
11/266822	US7907518	US7907518	US	Communication traffic isolation and control	2005-11-08
200980143335.6	CN200950143335	CN200980143335	CN	Method And System For Cla	2009-10-20
09/48863.9		EP2342871	EP	Method And System For Cla	2009-10-20
20117009984	KR101244604	KR101244604	KR	METHOD AND SYSTEM FOR CLASSIFYING DATA PACKETS	2009-10-20
12/261396	US7872933	US7872933	US	Method and system for classifying data packets	2008-10-30
10/312058	US7167529	US7167529	US	Method and device for radio signal reception	2001-06-20
03292839.2	EP1427156	EP1427156	DE	Method and receiver for burst detection	2003-11-14
03292839.2	EP1427156	EP1427156	FR	Method and receiver for burst detection	2003-11-14
03292839.2	EP1427156	EP1427156	GB	Method and receiver for burst detection	2003-11-14
10/715423	US7372920	US7372920	US	Method for detecting a signal and receiver system for the implementation of the method	2003-11-20
10/887264	US7157963	US7157963	US	Methods and apparatus for controlling the output voltage of a switched-mode power supply	2004-07-08
12/112939	US7940182	US7940182	US	RFID encoding for identifying system interconnect cables	2008-04-30
200860015974.X	CN200860015974	CN200860015974	CN	Dual OSS Management of an	2008-05-14
08755435.8	EP2149225	EP2149225	DE	DUAL OSS MANAGEMENT OF AN ETHERNET ACCESS NETWORK	2008-05-14
08755435.8	EP2149225	EP2149225	FR	DUAL OSS MANAGEMENT OF AN ETHERNET ACCESS NETWORK	2008-05-14
08755435.8	EP2149225	EP2149225	GB	DUAL OSS MANAGEMENT OF AN ETHERNET ACCESS NETWORK	2008-05-14
0637/CHENP/2009		IN6637/CHENP/2009	IN	Dual OSS Management of an	2008-05-14
2010508554	JP5142238	JP5142238	JP	Duplex OSS management null head end of Ethernet	2008-05-14
20097023739	KR101160402	KR101160402	KR	DUAL OSS MANAGEMENT OF AN ETHERNET ACCESS NETWORK	2008-05-14
11/748358	US7860065	US7860065	US	Dual OSS management of an Ethernet access network	2007-05-14
11/987458	US7929574	US7929574	US	Advanced clock distribution mechanism for circuit emulation applications	2007-11-30
07291440.1	EP2066103	EP2066103	DE	Switchable impedance xdsl splitter	2007-11-30
07291440.1	EP2066103	EP2066103	EP	Switchable impedance xdsl splitter	2007-11-30
07291440.1	EP2066103	EP2066103	FR	Switchable impedance xdsl splitter	2007-11-30
07291440.1	EP2066103	EP2066103	GB	Switchable impedance xdsl splitter	2007-11-30
200910001603.2	CN200910001603	CN200910001603	CN	Method for protecting a n	2009-01-06
08290016.8	EP2079196	EP2079196	DE	Method for protecting a network configuration set up by a spanning tree protocol	2008-01-08
08290016.8	EP2079196	EP2079196	FR	Method for protecting a network configuration set up by a spanning tree protocol	2008-01-08
08290016.8	EP2079196	EP2079196	GB	Method for protecting a network configuration set up by a spanning tree protocol	2008-01-08
3092/CHENP/2010		IN3092/CHENP/2010	IN	Method for protecting a n	2008-12-19
2010541739	JP4938135	JP4938135	JP	Being manner in order conservation the network configuration which is set up mannered null computer network	2008-12-19

20107015189	KR101143767	KR101143767	KR	METHOD FOR PROTECTING A NETWORK CONFIGURATION SET UP BY A SPANNING TREE PROTOCOL	2008-12-10
12/318486	US7944858	US7944858	US	Method for protecting a network configuration set up by a spanning tree protocol	2009-01-06
200980106767.X	CN200980106767	CN200980106767	CN	Bridgeport Private MAC Ad	2009-02-17
08715302.9	EP2248328	EP2248328	DE	BRIDGE PORT MAC ADDRESS DISCOVERY MECHANISM IN ETHERNET NETWORKS	2009-02-17
09715202.9	EP2248328	EP2248328	FR	BRIDGE PORT MAC ADDRESS DISCOVERY MECHANISM IN ETHERNET NETWORKS	2009-02-17
08715302.9	EP2248328	EP2248328	GB	BRIDGE PORT MAC ADDRESS DISCOVERY MECHANISM IN ETHERNET NETWORKS	2009-02-17
12/071893	US7889665	US7889665	US	Bridge port MAC address discovery mechanism in ethernet networks	2008-02-28
200810187148.5	CN200810187148	CN200810187148	CN	Packet transport with red	2008-12-17
08155314.1	EP2079204	EP2079204	DE	Transport of aggregated client packets	2008-04-28
08155314.1	EP2079204	EP2079204	FR	Transport of aggregated client packets	2008-04-28
08155314.1	EP2079204	EP2079204	GB	Transport of aggregated client packets	2008-04-28
2008/CHNEP/2010		N2008/CHNEP/2010	IN	Packet transport with red	2008-12-11
2010538097	JP5145716	JP5145716	JP	Aggregated transport client packet	2008-12-15
1006107919276	KR101130608	KR101130608	KR	TRANSPORT OF AGGREGATED CLIENT PACKETS	2008-12-15
12/316285	US7876783	US7876783	US	Transport of aggregated client packets	2008-12-11
12/0979108	US7953017	US7953017	US	Application specific service ping packet	2008-02-28
12/349324	US7953004	US7953004	US	Minimizing effects of packet delay variation in time-division multiplexing pseudowire services	2009-01-06
201089042844.5	CN201089042844	CN201089042844	CN	Traffic and interference	2010-09-20
08280715.3	EP2299753	EP2299753	DE	Adaptive traffic and interference aware radio resource management	2009-09-18
09280715.3	EP2299753	EP2299753	FR	Adaptive traffic and interference aware radio resource management	2009-09-18
09280715.3	EP2299753	EP2299753	GB	Adaptive traffic and interference aware radio resource management	2009-09-18
2014193477		JP2014193889	JP	Traffic and interference	2014-06-25
20127009815	KR101461372	KR101461372	KR	ADAPTIVE TRAFFIC AND INTERFERENCE AWARE RADIO RESOURCE MANAGEMENT	2010-09-20
10/496315	US8068774	US8068774	US	Adaptive traffic and interference aware radio resource management	2010-09-20
1126120687835		KR1120120087825	KR	Feed Resonator based Spec	2010-10-04
201080046672.3	CN201080046572	CN201080046572	CN	Feed Resonator based Spec	2010-10-04
09280715.0	EP2312749	EP2312749	DE	RF power amplifier with spectrally grouped nanosized switches	2009-10-15
09280715.0	EP2312749	EP2312749	FR	RF power amplifier with spectrally grouped nanosized switches	2009-10-15
09280715.0	EP2312749	EP2312749	GB	RF power amplifier with spectrally grouped nanosized switches	2009-10-15
0912/CHNEP/2012		IN3712/CHNEP/2012	IN	Feed Resonator based Spec	2010-10-04
2012538567	JP5373975	JP5373975	JP	The to group it was converted at the spectrum the RF power amplifier which possesses the switch of nano - size	2010-10-04
1020127012217	KR101356099	KR101356099	KR	RF POWER AMPLIFIER WITH SPECTRALLY GROUPED NANOSIZED SWITCHES	2010-10-04
10/489696	US8674762	US8674762	US	RF power amplifier with spectrally grouped nanosized switches	2010-10-04
201100654183.X	CN201100654183X	CN201100654183X	CN	Multi-link (delay) Asymme	2011-10-27
11776774.9	EP2641348	EP2641348	DE	METHOD FOR SYNCHRONIZING MASTER AND SLAVE CLOCKS OF PACKET-SWITCHED NETWORK WITH AGGREGATED CONNECTIONS BETWEEN NODES, AND ASSOCIATED SYNCHRONIZATION DEVICES	2011-10-27
11776774.9	EP2641348	EP2641348	FR	METHOD FOR SYNCHRONIZING MASTER AND SLAVE CLOCKS OF PACKET-SWITCHED NETWORK WITH AGGREGATED CONNECTIONS BETWEEN NODES, AND ASSOCIATED SYNCHRONIZATION DEVICES	2011-10-27
11776774.9	EP2641348	EP2641348	GB	METHOD FOR SYNCHRONIZING MASTER AND SLAVE CLOCKS OF PACKET-SWITCHED NETWORK WITH AGGREGATED CONNECTIONS BETWEEN NODES, AND ASSOCIATED SYNCHRONIZATION DEVICES	2011-10-27
1059941	FR2967536	FR2967536	FR	Brief description of the master and slave clock synchronization of a network a packet switching and aggregated links between nodes, and synchronization devices associated	2010-11-15
11776774.9	EP2641348	EP2641348	GB	METHOD FOR SYNCHRONIZING MASTER AND SLAVE CLOCKS OF PACKET-SWITCHED NETWORK WITH AGGREGATED CONNECTIONS BETWEEN NODES, AND ASSOCIATED SYNCHRONIZATION DEVICES	2011-10-27

2013038127	JP5658375	JP5658375	JP	Method for synchronizing a master clock and the slave clock in the packet-switched network using a connection that has been aggregated across nodes, and associated synchronization device	2011-10-27
20137011778	KR101481396	KR101481396	KR	METHOD FOR SYNCHRONIZING MASTER AND SLAVE CLOCKS OF PACKET-SWITCHED NETWORK WITH AGGREGATED CONNECTIONS BETWEEN NODES, AND ASSOCIATED SYNCHRONIZATION DEVICES	2011-10-27
13/825604	US8971357	US8971357	US	Method for synchronizing master and slave clocks of a packet-switched network with aggregated connections between nodes, and associated synchronization devices	2011-10-27
2011B0059762.3	CN201180089762	CN201180089762	CN	Optimized Parallel Initia	2011-12-07
10306390.5	EP2464026	EP2464026	DE	Time-Alignment of Crosstalk Acquisition Phases between Multiple Joining Lines	2010-12-10
10306390.5	EP2464026	EP2464026	FR	Time-Alignment of Crosstalk Acquisition Phases between Multiple Joining Lines	2010-12-10
10306390.5	EP2464026	EP2464026	GB	Time-Alignment of Crosstalk Acquisition Phases between Multiple Joining Lines	2010-12-10
2013-542525	JP5681812	JP5681812	JP	Time alignment of crosstalk acquisition phase between multiple lines applied	2011-12-07
10-2013-7017813	KR1015209313	KR1015209313	KR	Optimized Parallel Initia	2011-12-07
13/930330	US8958544	US8958544	US	Time-alignment of crosstalk acquisition phases between multiple joining lines	2011-12-07
13/051051	US9043883	US9043883	US	Secure authentication advertisement protocol	2011-09-18
04256702.4	EP1533935	EP1533935	DE	Evaluating performance of a multiple-input multiple output (mimo) communications link	2004-10-29
04256702.4	EP1533935	EP1533935	FR	Evaluating performance of a multiple-input multiple output (mimo) communications link	2004-10-29
04256702.4	EP1533935	EP1533935	GB	Evaluating performance of a multiple-input multiple output (mimo) communications link	2004-10-29
1220/CHE/2004	IN262363	IN262363	IN	Evaluating Performance Of	2004-11-18
2004333917	JP4584339	JP4584339	JP	Evaluation of the performance of multiple-input multiple-output (MIMO) communication link	2004-11-18
20040092296	KR101080624	KR101080624	KR	Evaluating performance of a multiple-input multiple output (MIMO) communications link	2004-11-12
10/713913	US7424273	US7424273	US	Evaluating performance of a multiple-input multiple output (MIMO) communications link	2003-11-18
12/130253	US7860044	US7860044	US	Methods and apparatus for providing synchronization in a multi-channel communication system	2008-05-30
10/252351	US7187715	US7187715	US	Systems and methods for providing adaptive pulse position modulated code division multiple access for ultra-wideband communication links	2002-09-23
08713127.2	EP2127352	EP2127352	DE	SYSTEMS AND METHODS FOR MOBILE VIRTUAL NETWORK OPERATOR MOBILE TO MOBILE SERVICE BILLING	2008-01-14
08713127.2	EP2127352	EP2127352	FR	SYSTEMS AND METHODS FOR MOBILE VIRTUAL NETWORK OPERATOR MOBILE TO MOBILE SERVICE BILLING	2008-01-14
08713127.2	EP2127352	EP2127352	GB	SYSTEMS AND METHODS FOR MOBILE VIRTUAL NETWORK OPERATOR MOBILE TO MOBILE SERVICE BILLING	2008-01-14
11/624963	US7885661	US7885661	US	Systems and methods for mobile virtual network operator mobile to mobile service	2007-01-19
09/480013	US7174177	US7174177	US	System and method for providing indication of maximum teleservice payload size in a wireless communication network	2000-01-10
11/366145	US7929864	US7929864	US	Optical beamforming transmitter	2006-03-02
200780020239.3	CN80020239	CN80020239	CN	Coordinating Transmission	2007-05-29
07735466.7	EP2030473	EP2030473	EP	Coordinating Transmission	2007-05-29
0422/CHE/2008	IN8422/CHE/2008	IN8422/CHE/2008	IN	Coordinating Transmission	2007-05-29
2009513243	JP4966374	JP4966374	JP	Adjustment of the transmission scheduling between the plurality of base stations	2007-05-29
20087029802	KR101101722	KR101101722	KR	COORDINATING TRANSMISSION SCHEDULING AMONG MULTIPLE BASE STATIONS	2007-05-29
12/684250	US7903605	US7903605	US	Coordinating transmission scheduling among multiple base stations	2010-01-06
200310101083.5	CN10101083	CN10101083	CN	An Emergency Call Back Me	2003-10-15
03256372.8	EP1411743	EP1411743	DE	An emergency call back method	2003-10-09
03256372.8	EP1411743	EP1411743	ES	An emergency call back method	2003-10-09
03256372.8	EP1411743	EP1411743	FR	An emergency call back method	2003-10-09
03256372.8	EP1411743	EP1411743	GB	An emergency call back method	2003-10-09
03256372.8	EP1411743	EP1411743	IT	An emergency call back method	2003-10-09
2003356367	JP4935636	JP4935636	JP	Being urgent call-back	2003-10-16

2003070526	KR101010868	KR101010869	KR	An emergency call back method	2003-10-10
10/270629	US7676215	US7676215	US	Emergency call back method	2002-10-16
11/179575	US7929486	US7929489	US	Methods of multipath acquisition for dedicated traffic channels	2005-07-13
04255952.6	EP1643636	EP1643636	DE	Characterizing Linearity	2004-09-29
04255952.6	EP1643636	EP1643636	FR	Characterizing Linearity	2004-09-29
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04/853892	US7810057	US7810057	US	Characterizing linearity of amplifiers	2004-09-29
00306667.4	EP1120983	EP1120983	DE	Apparatus and method for measuring and controlling the performance of an adjustable antenna on a sub-sector basis	2000-08-07
00306667.4	EP1120983	EP1120983	FR	Apparatus and method for measuring and controlling the performance of an adjustable antenna on a sub-sector basis	2000-08-07
00306667.4	EP1120983	EP1120983	GB	Apparatus and method for measuring and controlling the performance of an adjustable antenna on a sub-sector basis	2000-08-07
00306667.4	EP1120983	EP1120983	IT	Apparatus and method for measuring and controlling the performance of an adjustable antenna on a sub-sector basis	2000-08-07
05/480605	US6970721	US6970721	US	Apparatus and method for measuring and controlling the performance of an adjustable antenna on a sub-sector basis	2000-01-25
11/747526	US7900546	US7900546	US	Methods and apparatus for detection of performance conditions in a processing system	2007-05-11
02/755602	US7215563	US7215563	US	Wireless communication network for processing call traffic over a backhaul network	2004-02-24
11/527996	US7183810	US7183812	US	Method and circuit configuration for synchronous resetting of a multiple clock domain circuit	2004-12-30
20060040131.6	CN20060040131	CN20060040131	CN	A Method For Providing A	2006-10-16
06836376.4	EP1941684	EP1941684	DE	A METHOD FOR PROVIDING A MULTICAST SERVICE WITHIN A WIRELESS COMMUNICATIONS SYSTEM	2006-10-16
06836376.4	EP1941684	EP1941684	FR	A METHOD FOR PROVIDING A MULTICAST SERVICE WITHIN A WIRELESS COMMUNICATIONS SYSTEM	2006-10-16
06836376.4	EP1941684	EP1941684	GB	A METHOD FOR PROVIDING A MULTICAST SERVICE WITHIN A WIRELESS COMMUNICATIONS SYSTEM	2006-10-16
20060537775	JP5059016	JP5059016	JP	Being the manner which gives multicast service to the mannered multi-multiplex	2006-10-16
2006030643	KR101452767	KR101452767	KR	A METHOD FOR PROVIDING A MULTICAST SERVICE WITHIN A WIRELESS COMMUNICATIONS SYSTEM	2006-10-16
11/267485	US7967558	US7967558	US	Method for providing a multicast service within a wireless communications system	2009-10-28
11/011988	US7161425	US7161425	US	Radio frequency power amplifier for lossless power combining	2004-12-14
2002177020	JP2014100	JP2014100	JP	The manner which the communication system and the network device and radio link control data block logical link control protocol data unit definitively is done	2002-06-18
09/093363	US7197024	US7197024	US	Telecommunications system having layered protocol with delimiter of payload	2001-06-27
200510129571.0	CN200510129571	CN200510129571	CN	Method For Detecting Ray	2005-12-15
05257515.4	EP1672951	EP1672951	DE	Method for detecting reverse link collisions on an air interface	2005-12-13
05257515.4	EP1672951	EP1672951	FR	Method for detecting reverse link collisions on an air interface	2005-12-13
05257515.4	EP1672951	EP1672951	GB	Method for detecting reverse link collisions on an air interface	2005-12-13
2002062252	JP5165844	JP5165844	JP	Manner in order to detect the reverse link collision with respect to air interface	2005-12-16
20050124860	KR101187586	KR101187586	KR	Method for detecting reverse link collisions on an air interface	2005-12-16
11/014298	US7285658	US7285658	US	Method for detecting reverse link collisions on an air interface	2004-12-16
200610130906.0	CN200610130906	CN200610130906	CN	Method And System Of Using	2006-12-29
07867789.5	EP2100416	EP2100416	DE	METHOD AND SYSTEM OF USING A WIRELESS LINK IN THE BACKHAUL CONNECTION	2007-12-17
07867789.5	EP2100416	EP2100416	EP	METHOD AND SYSTEM OF USING A WIRELESS LINK IN THE BACKHAUL CONNECTION	2007-12-17
07867789.5	EP2100416	EP2100416	FR	METHOD AND SYSTEM OF USING A WIRELESS LINK IN THE BACKHAUL CONNECTION	2007-12-17
07867789.5	EP2100416	EP2100416	GB	METHOD AND SYSTEM OF USING A WIRELESS LINK IN THE BACKHAUL CONNECTION	2007-12-17
0796/CHERP/2009		IN3796/CHERP/2009	IN	Method And System Of Using	2007-12-17
2009044025	JP5127967	JP5127967	JP	Being manner and the system multi-communication system which use radio link at the time of	2007-12-17
20090413582	KR101172724	KR101172724	KR	Method and system of using a wireless link in the backhaul connection	2007-12-17

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04257383.7	EP1548929	EP1548929	FR	Digital detector utilisable in providing closed-loop gain control in a transmitter	2004-11-25
04257383.7	EP1548929	EP1548929	FR	Digital detector utilisable in providing closed-loop gain control in a transmitter	2004-11-25
04257383.7	EP1548929	EP1548929	GB	Digital detector utilisable in providing closed-loop gain control in a transmitter	2004-11-25
04257383.7	EP1548929	EP1548929	SE	Digital detector utilisable in providing closed-loop gain control in a transmitter	2004-11-25
10/744750	US7939567	US7939567	US	Digital detector utilisable in providing closed-loop gain control in a transmitter	2003-12-23
04252625.1	EP1478103	EP1478103	DE	Power control method with DTX frame detection for a communication channel	2004-05-05
04252625.1	EP1478103	EP1478103	FR	Power control method with DTX frame detection for a communication channel	2004-05-05
04252625.1	EP1478103	EP1478103	GB	Power control method with DTX frame detection for a communication channel	2004-05-05
2004165275	JP4463001	JP4463001	JP	Being the manner which does the outer part looping power control for the aforementioned secondary	2004-05-14
20040332279	KR101092870	KR101092870	KR	Power control method with DTX frame detection for a communication channel	2004-05-07
10/438105	US7224993	US7224993	US	Power control method with DTX frame detection for a communication channel	2003-05-15
200780034603.1	CN200780034603	CN200780034603	CN	Inexpensive Terahertz Pul	2007-09-19
07838502.8	EP2069759	EP2069759	DE	INEXPENSIVE TERAHERTZ PULSE WAVE GENERATOR	2007-09-19
07838502.8	EP2069759	EP2069759	EP	INEXPENSIVE TERAHERTZ PULSE WAVE GENERATOR	2007-09-19
07838502.8	EP2069759	EP2069759	FR	INEXPENSIVE TERAHERTZ PULSE WAVE GENERATOR	2007-09-19
07838502.8	EP2069759	EP2069759	GB	INEXPENSIVE TERAHERTZ PULSE WAVE GENERATOR	2007-09-19
2009527467	JP5197605	JP5197605	JP	Being the method of forming the pulse	2007-09-19
20097005803	KR101050631	KR101050631	KR	pulse generation method and apparatus	2007-09-19
11/525787	US7929580	US7929580	US	Inexpensive terahertz pulse wave generator	2006-09-22
10/444092	US7181219	US7181219	US	Wireless handover using anchor termination	2003-05-22
11/070437	US7869418	US7869418	US	Method for enabling use of secondary pilot signals across a forward link of a CDMA network employing a slotted transmission scheme and time multiplexed pilot channel	2006-03-02
02827962.X	CN02827962	CN02827962	CN	Method And System For Pro	2002-12-11
02795840.4	EP1454152	EP1454152	DE	METHOD AND SYSTEM FOR PROVIDING FAILURE PROTECTION IN A RING NETWORK THAT UTILIZES LABEL SWITCHING	2002-12-11
02795840.4	EP1454152	EP1454152	FR	METHOD AND SYSTEM FOR PROVIDING FAILURE PROTECTION IN A RING NETWORK THAT UTILIZES LABEL SWITCHING	2002-12-11
02795840.4	EP1454152	EP1454152	GB	METHOD AND SYSTEM FOR PROVIDING FAILURE PROTECTION IN A RING NETWORK THAT UTILIZES LABEL SWITCHING	2002-12-11
2003551554	JP4130806	JP4130806	JP	Method and system for providing failure protection in a ring network that utilizes label switching	2002-12-11
20047009113	KR100912684	KR100912684	KR	METHOD AND SYSTEM FOR PROVIDING FAILURE PROTECTION IN A RING NETWORK THAT UTILIZES LABEL SWITCHING	2002-12-11
10/321754	US7088679	US7088679	US	Method and system for providing failure protection in a ring network that utilizes label switching	2001-12-12
01/412337	US7451241	US7451241	US	Method and system for providing failure protection in a ring network that utilizes label switching	2006-04-26
10/314680	US7941558	US7941558	US	Loop elimination in a communications network	2002-12-09
11/145392	US7949363	US7949363	US	Methods and systems for efficient conveyance of bandclass information in wireless networks	2005-06-03
200510104074.0	CN200510104074	CN200510104074	CN	Method Of Conducting Rate	2005-09-15
05255350.0	EP1638361	EP1638361	DE	Method for routing downlink control information from multiple active base stations through a single serving base station	2005-09-01
05255350.0	EP1638361	EP1638361	FR	Method for routing downlink control information from multiple active base stations through a single serving base station	2005-09-01
05255350.0	EP1638361	EP1638361	GB	Method for routing downlink control information from multiple active base stations through a single serving base station	2005-09-01
2005266140	JP5051992	JP5051992	JP	The manner in which does the rate control, scheduling, and response of the radio communication	2005-09-14
20050085804	KR101164581	KR101164581	KR	METHOD OF CONDUCTING RATE CONTROL, SCHEDULING AND ACKNOWLEDGEMENT IN WIRELESS COMMUNICATION SYSTEM	2005-09-14
10/641266	US8380195	US8380195	US	Method of conducting rate control, scheduling and acknowledgement in wireless communication system	2004-09-15
09/965368	US7227905	US7227905	US	Open-loop diversity technique for systems employing multi-transmitter antennas	2001-09-18

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00844093.4	DE60011085	DE60011085	DE	A method for a cell via central position by way of a packet switched network	2000-07-06
00944095.4	EP1192821	EP1192821	GB	METHOD FOR TRANSMITTING CALLS OVER PACKET NETWORK	2000-07-06
00810111.6	CN00810111	CN00810111	CN	METHOD FOR TRANSMITTING C	2000-07-06
10/036,353	US7257114	US7257114	US	Method for transmitting calls over packet network	2000-07-06
01960127.7	DE50101567	DE50101567	DE	A process for the provision of software in a radio-based cellular communication networks, as well as a communication network for carrying out the method	2001-07-19
01960127.7	EP1302088	EP1302088	FR	METHOD FOR PROVIDING SOFTWARE IN RADIO-BASED CELLULAR COMMUNICATIONS NETWORKS, AND A COMMUNICATIONS NETWORK FOR IMPLEMENTING SAID METHOD	2001-07-19
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01907079.3	DE50115520	DE50115520	DE	Beam shaping method	2001-10-12
01811137.8	CN203735	CN203735	CN	Strahlformungsverfahren	2001-10-12
10/309,103	US7158793	US7158793	US	Beam-shaping method	2001-10-12
01901236.8	DE60135730	DE60135730	DE	Communication system with improved error tolerance	2001-01-12
2006287	CA2396287	CA2396287	CA	COMMUNICATIONS SYSTEM HAVING ENHANCED FAULT TOLERANCE	2001-01-12
10/169944	US7170865	US7170865	US	Communications system having enhanced fault tolerance	2001-01-12
11/654,755	US7258830	US7258830	US	Communications system having enhanced fault tolerance	2006-12-28
10/481,079	US7040745	US7040745	US	Flexible and economical provision of service characteristics for voice transmission in a packet network	2002-08-12
10/499,082	US7162667	US7162667	US	Method for preventing total failure of a processing unit for protocol information	2002-12-05
10/731,427	US7224705	US7224705	US	Synchronization of a multi-mode base station using a common system clock	2001-08-19
10/622,826	US7061713	US7061713	US	Efficient connection of ISDN private branch exchanges to a packet-switched network	2003-06-11
10/206979	US7069052	US7069052	US	Data transmission method in base station of radio system, base station of radio system, and antenna array of base station	2002-11-04
08103988.6	DE60843600	DE60843600	DE	Data transmission method	2002-10-28
10359909.7	DE10350909	DE10350909	DE	Method for signalling a path to radio stations of a radio communication system	2003-10-31
20040032541.7	CN005872	CN005872	CN	Verfahren zur Signalisierung	2004-10-21
1854/DELNP/2006		N1854/DELNP/2006	NL	Verfahren zur Signalisierung	2004-10-21
2005-7010703	KR1068365	KR1068365	KR	Verfahren zur Signalisierung	2004-10-21
10/577,664	US6971899	US6971899	US	Method for signaling a path to radio stations of a radio communications system	2004-10-21
04787260.1	DE502064009154	DE502064009154	DE	A method for adjusting the transmission parameters of in a group of combined, broadband transmission channels	2004-09-30
04787260.1	EP1668857	EP1668857	ES	METHOD FOR REGULATING THE TRANSMISSION PARAMETERS OF BROADBAND TRANSMISSION CHANNELS ASSEMBLED TO FORM A GROUP	2004-09-30
04787260.1	EP1668857	EP1668857	FR	METHOD FOR REGULATING THE TRANSMISSION PARAMETERS OF BROADBAND TRANSMISSION CHANNELS ASSEMBLED TO FORM A GROUP	2004-09-30
04787260.1	EP1668857	EP1668857	GB	METHOD FOR REGULATING THE TRANSMISSION PARAMETERS OF BROADBAND TRANSMISSION CHANNELS ASSEMBLED TO FORM A GROUP	2004-09-30
04787260.1	EP1668857	EP1668857	IT	METHOD FOR REGULATING THE TRANSMISSION PARAMETERS OF BROADBAND TRANSMISSION CHANNELS ASSEMBLED TO FORM A GROUP	2004-09-30
20040030412.0	CN671848	CN671848	CN	Verfahren zum Einstellen	2004-09-30
10/571,396	US7782889	US7782889	US	Method for regulating the transmission parameters of broadband transmission channels assembled to form a group	2004-09-30
10/638,266	US7193979	US7193979	US	Method and apparatus for use by a GPRS device in responding to change in SAPI connection	2003-07-11
05020775.0	DE502005010868	DE502005010868	DE	A process for the expansion of a network	2005-09-23
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