

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 8,839,388 B2
APPLICATION NO. : 12/380780
DATED : September 16, 2014
INVENTOR(S) : Raleigh

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

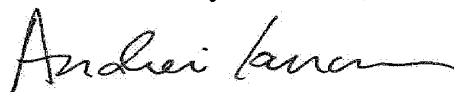
In the Claims

In Column 167, Line 9, (the second line of Claim 34) the word “include” should be changed to
--includes--

In Column 167, Line 16, (the ninth line of Claim 34) the word “version” should be changed to
--versions--

In Column 167, Line 19, (the second line of Claim 35) the word “include” should be changed to
--includes--

Signed and Sealed this
Thirteenth Day of March, 2018



Andrei Iancu
Director of the United States Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Raleigh	Patent No.: 8,839,388
Serial No.: 12/380,780	Issue Date: September 16, 2014
Filing Date: March 2, 2009	Conf. No.: 1775
Title: Automated Device Provisioning and Activation	

Commissioner for Patents
Office of Data Management
ATTN: Certificate of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450

MISCELLANEOUS COMMUNICATION REGARDING
CERTIFICATE OF CORRECTION

Applicant/Patentee (hereinafter, "Applicant") respectfully requests that the Office issue a Certificate of Correction for U.S. Patent No. 8,839,388 to correct typographical errors in claims 34 and 35. The errors being corrected are Applicant's errors.

Claim 34:

In both Applicant's supplemental amendment filed on September 21, 2012 and in the issued patent, claim 34 recites:

34. The system recited in claim 26, wherein the first set of device credentials **include** one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or

more service processor settings or version, a user identification, a user type, a user group, and a user class.

The word “include” should be changed to “includes” and the word “version” should be changed to “versions”.

Claim 35:

In both Applicant’s supplemental amendment filed on September 21, 2012 and in the issued patent, claim 35 recites:

35. The system recited in claim 26, wherein the first set of device credentials include one or more provisioning actions.

The word “include” should be changed to “includes”.

CONCLUSION

Applicant respectfully requests issuance of the Certificate of Correction to correct the typographical errors in claims 34 and 35. Because the errors were Applicant's error, Applicant is submitting the fee for a Certificate of Correction with this request. The Office is authorized to charge any fee deficiency or credit any overpayment to Deposit Account 50-5876.

Respectfully submitted,

Date: February 9, 2018

By: /James E. Harris/

James E. Harris
Reg. No. 40,013
Patent Counsel
Headwater Research LLC
1011 Pruitt Place
Tyler, TX 75703
(903) 201-6212

CERTIFICATE OF ELECTRONIC TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being filed electronically via EFS-Web addressed to the Commissioner for Patents on:

Date: Feb. 9, 2018

By: /Ann Taylor/
Ann Taylor

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 8,839,388

APPLICATION NO.: 12/380,780

ISSUE DATE : September 16, 2014

INVENTOR(S) : Raleigh

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 167, line 9, (the second line of claim 34) the word "include" should be changed to --includes--

In column 167, line 16, (the ninth line of claim 34) the word "version" should be changed to --versions--

In column 167, line 19, (the second line of claim 35) the word "include" should be changed to --includes--

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Headwater Research LLC
1011 Pruitt Place
Tyler, TX 75703

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		12380780		
Filing Date:		02-Mar-2009		
Title of Invention:		AUTOMATED DEVICE PROVISIONING AND ACTIVATION		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		James E. Harris/Ann Taylor		
Attorney Docket Number:		RALEP007 [26WV-160488]		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
CERTIFICATE OF CORRECTION	2811	1	150	150

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				150

Electronic Acknowledgement Receipt	
EFS ID:	31749207
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	James E. Harris/Ann Taylor
Filer Authorized By:	James E. Harris
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	09-FEB-2018
Filing Date:	02-MAR-2009
Time Stamp:	12:54:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$150
RAM confirmation Number	020918INTEFSW00009643505876
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	P007_ReqforCoC.pdf	65800	no	3
			c6690bff74ff29f6e924e4f34068b0d8af62a28		
Warnings:					
Information:					
2	Request for Certificate of Correction	P007_COCForm.pdf	164141	no	2
			049a09bab72416ec689d8b871129c66fb8c62507		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30359	no	2
			c4fc2149f7a9cf628f069b04b3959b95618d4d9b		
Warnings:					
Information:					
Total Files Size (in bytes):			260300		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/380,780	09/16/2014	8839388	RALEP007 [26WV-160488]	1775

107265 7590 08/27/2014
Headwater Partners I LLC - Outside Firm 1
555 Twin Dolphin Drive, Suite 310
Redwood Shores, CA 94065

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 386 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Gregory G. Raleigh, Woodside, CA;

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
	Filing Date	2009-03-02
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J. Rudy
	Attorney Docket Number	26VV-160488 [RALEP007]

	3	20040021697		2004-02-05	BEATON et al.	
	4	20040249918		2004-12-09	SUNSHINE	
	5	20050048950		2005-03-03	MORPER	Change(s) applied to document, /K.M./ 7/16/2014
	6	20060112016		2006-05-25	ISHIBASHI	
	7	20060258341		2006-11-16	MILLER et al.	
	8	20070061243		2007-03-15	RAMER et al.	
	9	20080010452		2008-01-10	HOLTZMAN et al.	
	10	20080060066		2008-03-06	WYNN et al.	
	11	20080062900		2008-03-13	RAO	
	12	20080164304		2008-07-10	NARASIMHAN	
	13	20080184127		2008-07-10	RAFEY et al.	July 31, 2008

Substitute for form 1449/PTO				<i>Complete if Known</i>	
Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	2	of	4	Atty Docket No.	RALEP007

Change(s) applied
to document,
/K.M./
7/16/2014

	OO.	US 2007/0140275	06-21-2007	BOWMAN et al.	
	PP.	US 2003/0182435	09-25-2003	REDLICH et al.	
	QQ.	US 6,263,055	07-17-2001	GARLAND et al.	
	RR.	US 5,940,472	08-17-1999	NEWMAN et al.	
	SS.	US 2008/0318550	12-25-2008	Deatley	
	TT.	US 2008/0298230	12-01-2008	LUFT et al.	
	UU.	US 2007/0220251	09-20-2007	ROSENBERG et al.	
	VV.	US 2007/0100981	05-03-2007	ADAMCZYK et al.	
	WW.	US 2007/0022289	01-25-2007	ALT et al.	
	XX.	US 2008/0095339	04-24-2008	ELLIOTT et al.	
	YY.	US 2006/0233166	10-19-2006	BOU-DIAB et al.	
	ZZ.	US 2008/0168523	07-10-2008	ANSARI et al.	
	AAA.	US 2006/0183462	08-17-2006	KOLEHAINEN et al.	
	BBB.	US 2006/0165060	07-27-2006	Dua	
	CCC.	US 2008/0177998	07-24-2008	APSANGI et al.	
	DDD.	US 2008/0064367	03-13-2008	NATH et al.	
	EEE.	US 2004/0168052	08-26-2004	CLISHAM et al.	
	FFF.	US 2005/0198377	09-08-2005	FERGUSON et al.	
	GGG.	US 2005/0216421	09-29-2005	BARRY et al.	
	HHH.	US 2006/0218395	09-28-2006	Maes	
	III.	US 2005/0055309	03-10-2005	WILLIAMS et al.	
	JJJ.	US 2003/0050837	03-13-2003	Kim	
	KKK.	US 2005/0266825	12-01-2005	Clayton	
	LLL.	US 2006/0178917	08-10-2006	Mikurak	Merriam; Ray; et al.
	MMM.	US 2007/0055694	03-08-2007	RUGE et al.	
	NNN.	US 2005/0097516	05-05-2005	DONNELLY et al.	
	OOO.	US 7,356,337	04-08-2008	Florence	
	PPP.	US 2007/0019670	01-25-2007	Falardeau	
	QQQ.	US 2004/0127200	07-01-2004	SHAW et al.	
	RRR.	US 2005/0166043	07-28-2005	ZHANG et al.	
	SSS.	US 7,349,695	03-25-2008	OOMMEN et al.	
	TTT.	US 2004/0098715	05-20-2004	AGHERA et al.	
	UUU.	US 2006/0072646	04-06-2006	FEHER et al.	
	VVV.	US 2006/0206904	09-14-2006	WATKINS et al.	
	WWW.	US 2005/0060266	03-17-2005	DEMELLO et al.	
	XXX.	US 6,047,268	04-04-2000	BARTOLI et al.	
	YYY.	US 6,639,975	10-28-2003	O'NEAL et al.	
	ZZZ.	US 6,539,082	03-25-2003	LOWE et al.	
	AAAA.	US 2008/0134330	06-05-2008	KAPOOR et al.	
	BBBB.	US 2004/0047358	03-11-2004	CHEN et al.	
	CCCC.	US 2007/0274327	11-29-2007	KAARELA et al.	
	DDDD.	US 2003/0161265	08-28-2003	CAO et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.R./

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	12/380,780
Filing Date	March 2, 2009
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26WV-160488 [RALEP007]

Sheet 3 of 3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		2007/0263558	11-15-2007	SALOMONE	
		2008/0049630	02-28-2008	KOZISEK et al	
		2008/0162637	07-03-2008	ADAMCZYK et al	
		2008/0167027	07-10-2008	GAUTIER et al	
		2008/0180391	07-16-2009	PETERSEN et al	20090180391
		2008/0318547	12-25-2008	BALLOU et al	
		2009/0197585	08-06-2009	AARON, Jeffrey A.	
		2009/0257379	10-15-2009	ROBINSON et al	
		2010/0082431	04-01-2010	RAMER et al	
		2010/0188975	07-29-2010	RALEIGH, Gregory G.	
		2010/0188990	07-29-2010	RALEIGH, Gregory G.	
		2010/0188992	07-29-2010	RALEIGH, Gregory G.	
		2010/0188994	07-29-2010	RALEIGH, Gregory G.	
		2010/0191846	07-29-2010	RALEIGH, Gregory G.	
		2010/0192170	07-29-2010	RALEIGH, Gregory G.	

Change(s) applied
to document,
/M.I.G./
7/23/2014

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ "Number" ⁴ "Kind Code" ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

Examiner Signature	/Andrew Joseph Rudy/	Date Considered	05/08/2012
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO				<i>Complete if Known</i>	
Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	3	of	4	Atty Docket No.	RALEP007

	EEEE.	US 2008/0305793	12-11-2008	GALLAGHER et al.	
	FFFF.	US 2008/0083013	04-03-2008	SOLIMAN et al.	
	GGGG.	US 2004/0030705	02-12-2004	BOWMAN-AMUAH et al.	
	HHHH.	US 6,574,321	06-03-2003	COX et al.	
	IIII.	US 2006/0291477	12-28-2006	CROAK et al.	
	JJJJ.	US 2005/0266880	12-01-2005	Gupta	
	KKKK.	US 2003/0229900	12-11-2003	Reisman	
	LLLL.	US 2007/0198656	08-23-2007	MAZZAFERRI et al.	
	MMMM.	US 2003/0182420	09-25-2003	JONES et al.	
	NNNN.	US 2008/0225748	09-18-2008	KHEMANI et al.	
	OOOO.	US 2005/0250508	11-10-2005	GUO et al.	
	PPPP.	US 2008/0127304	05-29-2008	GINTER et al.	
	QQQQ.	US 7,289,489	10-30-2007	KUNG et al.	
	RRRR.	US 2003/0050070	03-13-2003	MASHINSKY et al.	
	SSSS.	US 6,996,076	02-07-2006	FORBES et al.	
	TTTT.	US 2008/0183710	07-31-2008	PAUL et al. Williamson	20080183710
	UUUU.	US 2007/0226225	09-27-2007	YIU et al.	
	VVVV.	US 2007/0130315	06-07-2007	FRIEND et al.	
	WWWW.	US 2008/0059743	03-06-2008	BYCHKOV et al.	
	XXXX.	US 2008/0132268	06-05-2008	CHOI-GROGAN et al.	
	YYYY.	US 2003/0133408	07-17-2003	CHENG et al.	
	ZZZZ.	US 2005/0128967	06-16-2005	Scobbie	
	AAAAA.	US 2007/0140113	06-21-2007	Gemelos	
	BBBBB.	US 2002/0138601	09-26-2002	PIPONIUS et al.	
	CCCCC.	US 2002/0176377	11-28-2002	Hamilton	
	DDDDD.	US 2006/0034256	02-16-2006	ADDAGATLA et al.	
	EEEEE.	US 2005/0228985	10-13-2005	YLIKOSKI et al.	
	FFFFF.	US 2007/0036312	02-15-2007	CAI et al.	
	GGGGG.	US 2004/0082346	04-29-2004	SKYTT et al.	
	HHHHH.	US 7,142,876	11-28-2006	TROSSEN et al.	
	IIIII.	US 2008/0005561	01-03-2008	BROWN et al.	
	JJJJJ.	US 2007/0101426	05-03-2007	LEE et al.	
	KKKKK.	US 2008/0222692	09-11-2008	ANDERSSON et al.	
	LLLLL.	US 2008/0160958	04-03-2008	ABICHANDANI et al.	July 3, 2008
	MMMMM.	US 2006/0048223	03-02-2006	LEE et al.	
	NNNNN.	US 2007/0104126	5-10-2007	CALHOUN et al.	
	OOOOO.	US 2007/0243862	10-18-2007	COSKUN et al.	
	PPPPP.	US 2008/0109679	05-08-2008	WRIGHT et al.	
	QQQQQ.	US 2006/0242685	10-26-2006	HEARD et al.	
	RRRRR.	US 2008/0130656	06-05-2008	KIM et al.	
	SSSSS.	US 2005/0021995	01-27-2005	LAL et al.	
	TTTTT.	US 2008/0162704	04-03-2008	POPLETT et al.	July 3, 2008

Change(s) applied
to document,
/K.M./
7/16/2014

Change(s) applied
to document,
/D.H.P./
7/28/2014

Change(s) applied
to document,
/M.I.G./
7/23/2014

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007 [26WV-160488]	1775
107265	7590	08/11/2014	EXAMINER	
Headwater Partners I LLC - Outside Firm 1 555 Twin Dolphin Drive, Suite 310 Redwood Shores, CA 94065			RUDY, ANDREW J	
			ART UNIT	PAPER NUMBER
			3687	
			NOTIFICATION DATE	DELIVERY MODE
			08/11/2014	ELECTRONIC

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12/380,780

02 March, 2009

RALEIGH, GREGORY G.

RALEP007 [26WV-

160488]

Headwater Partners I LLC - Outside Firm 1 555 Twin Dolphin Drive, Suite 310 Redwood Shores, CA 94065		EXAMINER	
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Applicant's two Information Disclosure Statement (IDS's) each submitted August 4, 2014 have been reviewed. Note the attached IDS's.

/ANDREW JOSEPH RUDY/
Primary Examiner
Art Unit: 3687

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WV-160488]	

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	1	5131020	A	1992-07-14	Liebesny et al.	
	2	5325532	A	1994-06-28	Crosswy et al.	
	3	6640334	B	2003-10-28	Rasmussen, John H.	
	4	7409447	B	2008-08-05	Assadzadeh, Alireza	
	5	7614051	B	2009-11-03	Glaum et al.	
	6	7668612	B	2010-02-23	Okkonen, Harri	
	7	7805140	B2	2010-09-28	Friday et al.	
	8	8370483	B	2013-02-05	Choong Jason et al.	

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STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J RUDY
Attorney Docket Number	RALEP007 [26WV-160488]

9	8605691	B2	2013-12-10	Soomro et al.	
10	8645518	B	2014-02-04	David, Scott L.	
11	8655357	B1	2014-02-18	Gazzard et al.	
12	8670334	B	2014-03-11	Keohane et al.	
13	8676925	B	2014-03-18	Liu et al.	
14	8693323		2014-04-08	McDysan, David E.	
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	1	20020188732	A1	2002-12-12	Buckman et al.	

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STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J RUDY
Attorney Docket Number	RALEP007 [26WV-160488]

2	20040243992	A	2004-12-02	Gustafson et al.	
3	20070226775	A	2007-09-27	Andreasen et al.	
4	20080010379	A	2008-01-10	Zhao, Hang	
5	20080034419	A	2008-02-07	Mullick et al.	
6	20080139210	A	2008-06-12	Gisby et al.	
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	1	1878160	CN	A	2006-12-13	Jiang, Yong		☐

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	Filing Date	2009-03-02
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	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WV-160488]	

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Krista S. Jacobsen	(Depositor's name)
	(Signature)
August 5, 2014	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007 [26WV-160488]	1775

TITLE OF INVENTION: AUTOMATED DEVICE PROVISIONING AND ACTIVATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	08/06/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
RUDY, ANDREW J	3687	705-016000

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- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
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1. Krista S. Jacobsen
 2. Marc A. Sockol
 3.

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Redwood City, CA

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Authorized Signature

Date August 5, 2014

Typed or printed name Krista S. Jacobsen

Registration No. 59374

Electronic Patent Application Fee Transmittal				
Application Number:		12380780		
Filing Date:		02-Mar-2009		
Title of Invention:		AUTOMATED DEVICE PROVISIONING AND ACTIVATION		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Krista Susan Jacobsen		
Attorney Docket Number:		RALEP007 [26WV-160488]		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	2501	1	480	480
Publ. Fee- Early, Voluntary, or Normal	1504	1	0	0

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

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EFS ID:	19776114
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen
Filer Authorized By:	
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	05-AUG-2014
Filing Date:	02-MAR-2009
Time Stamp:	13:05:40
Application Type:	Utility under 35 USC 111(a)

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WV-160488]	

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	1	5131020	A	1992-07-14	Liebesny et al.	
	2	5325532	A	1994-06-28	Crosswy et al.	
	3	6640334	B	2003-10-28	Rasmussen, John H.	
	4	7409447	B	2008-08-05	Assadzadeh, Alireza	
	5	7614051	B	2009-11-03	Glaum et al.	
	6	7668612	B	2010-02-23	Okkonen, Harri	
	7	7805140	B2	2010-09-28	Friday et al.	
	8	8370483	B	2013-02-05	Choong Jason et al.	

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	Examiner Name	Andrew J RUDY		
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	9	8605691	B2	2013-12-10	Soomro et al.	
	10	8645518	B	2014-02-04	David, Scott L.	
	11	8655357	B1	2014-02-18	Gazzard et al.	
	12	8670334	B	2014-03-11	Keohane et al.	
	13	8676925	B	2014-03-18	Liu et al.	
	14	8693323		2014-04-08	McDysan, David E.	
	15	8706863		2014-04-22	Fadell, Anthony	
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	1	20020188732	A1	2002-12-12	Buckman et al.	

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	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WV-160488]	

	2	20040243992	A	2004-12-02	Gustafson et al.	
	3	20070226775	A	2007-09-27	Andreasen et al.	
	4	20080010379	A	2008-01-10	Zhao, Hang	
	5	20080034419	A	2008-02-07	Mullick et al.	
	6	20080139210	A	2008-06-12	Gisby et al.	
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	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WV-160488]	

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	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26WV-160488]

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

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Signature	/Krista S. Jacobsen/	Date (YYYY-MM-DD)	2014-08-04
Name/Print	Krista S. Jacobsen	Registration Number	59374

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
	Filing Date		2009-03-02	
	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WV-160488]		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WV-160488]	

1	7/29/2014 European Search Report and Opinion in European Application No. 10736214.7	☐
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		
<small> ¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached. </small>		

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
	Filing Date	2009-03-02
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26WV-160488]

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☒ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Krista S. Jacobsen/	Date (YYYY-MM-DD)	2014-08-04
Name/Print	Krista S. Jacobsen	Registration Number	59374

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		12380780		
Filing Date:		02-Mar-2009		
Title of Invention:		AUTOMATED DEVICE PROVISIONING AND ACTIVATION		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Krista Susan Jacobsen		
Attorney Docket Number:		RALEP007 [26WV-160488]		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
Total in USD (\$)				90

Electronic Acknowledgement Receipt	
EFS ID:	19770501
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen
Filer Authorized By:	
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	04-AUG-2014
Filing Date:	02-MAR-2009
Time Stamp:	18:29:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 90
RAM confirmation Number	5156
Deposit Account	505876
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1	Transmittal Letter	P007_IDS_trans_letter.pdf	823014 0f1f280063f4a992e5e4835aa31c50be9c070579	no	2
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	P007IDS1.pdf	612774 b703750549b9ecddae34d3959d3be74cd30cf30	no	6
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	P007IDS2.pdf	612148 d684c4d85f300b2c229bf5f1b45b87fd2eaf0f9a	no	4
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4	Non Patent Literature	P007EP_Search_report.pdf	447101 26daad0c46c514bc76aa7c3453e62a15e77ec29	no	7
Warnings:					
Information:					
5	Foreign Reference	Jiang.pdf	10963497 3beb6debdff2ebd6470e65bb7d92def5fd16d49ae	no	34
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	30441 422fa442a4027c8c1911c2db7f8dd331ad32fab7	no	2
Warnings:					
Information:					
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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Examiner:

Gregory G. Raleigh

RUDY, Andrew J.

Serial No. 12/380,780

Art Unit: 3687

Filed: March 2, 2009

Conf. No.: 1775

Title: Automated Device Provisioning and Activation

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P.O. Box 1450
Alexandria, VA 22313-1450

**SUBMISSION OF INFORMATION DISCLOSURE STATEMENT AFTER RECEIPT
OF NOTICE OF ALLOWANCE BUT PRIOR TO PAYMENT OF ISSUE FEE**

Madam:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and pursuant to 37 C.F.R. §§ 1.97-1.98, Applicant hereby submits the references listed on the enclosed Form PTO-SB/08A.

The present Information Disclosure Statement is being filed after Applicant received the Notice of Allowance in the above-captioned application, but before Applicant has paid the Issue Fee. Accordingly, pursuant to 37 C.F.R. § 1.97(d), Applicant is submitting both the fee set forth in 37 C.F.R. § 1.17(p) and the certification statement set forth in 37 C.F.R. § 1.97(e).

Applicant respectfully requests consideration of the listed references.

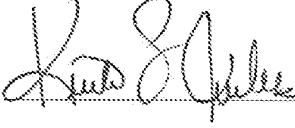
CONCLUSION

Applicant respectfully requests that the Examiner consider the references listed in the IDS submitted herewith. In accordance with 37 C.F.R. § 1.97(d)-(e), the IDS is being filed prior to payment of the issue fee, with both the certification statement and fee specified in 37 C.F.R. § 1.97(d)-(e).

The Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account 50-5876.

Respectfully submitted,

Date: August 4, 2014

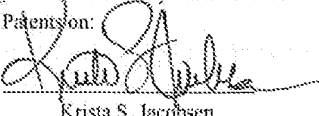
By: 

Krista S. Jacobsen
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I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being filed electronically via EFS-Web addressed to the Commissioner for Patents on:

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007 [26WV-160488]	1775
107265 7590 07/01/2014 Headwater Partners I LLC - Outside Firm 1 555 Twin Dolphin Drive, Suite 310 Redwood Shores, CA 94065			EXAMINER RUDY, ANDREW J	
			ART UNIT 3687	PAPER NUMBER
			NOTIFICATION DATE 07/01/2014	DELIVERY MODE ELECTRONIC

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The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patent@headwaterllc.com
krista@jacobseniplaw.com

**UNITED STATES DEPARTMENT OF COMMERCE****U.S. Patent and Trademark Office**

Address : COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
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12/380,780

02 March, 2009

RALEIGH, GREGORY G.

RALEP007 [26WV-

160488]

Headwater Partners I LLC - Outside Firm 1 555 Twin Dolphin Drive, Suite 310 Redwood Shores, CA 94065		EXAMINER	
		ANDREW JOSEPH RUDY	
		ART UNIT	PAPER
		3687	20140625

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

Applicant's Information Disclosure Statement (IDS) submitted May 21, 2014 has been reviewed. Also, Applicant's IDS submitted July 15, 2013 has been reviewed. The claims remain allowed. Note the attached IDS's.

/ANDREW JOSEPH RUDY/
Primary Examiner
Art Unit: 3687

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
	Filing Date	2009-03-02
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26WV-160488]

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6185576	B1	2001-02-06	Mcintosh, Lowrie	
	2	7320029	B2	2008-01-15	Rinne et al.	
	3	7539132	B2	2009-05-26	Werner et al.	
	4	7805606	B2	2010-09-28	Birger et al.	
	5	8347378	B2	2013-01-01	Merkin et al.	
	6	8180881	B2	2012-05-15	Seo et al.	
	7	8191124	B2	2012-05-29	Wynn et al.	
	8	8275415	B2	2012-09-25	Huslak, Nicholas S.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Art Unit	3687
Examiner Name	Andrew J RUDY
Attorney Docket Number	RALEP007 [26WV-160488]

9	8300575	B2	2012-10-30	Willars, Per	
10	8315593	B2	2012-11-20	Gallant et al.	
11	8554876	B2	2013-10-08	Winsor, Gerald W.	
12	8666395	B2	2014-03-04	Silver, Andrew	

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	1	20110110309	A	2011-05-12	Bennett, James D.	
	2	20040170191	A	2004-09-02	Guo et al.	
	3	20040203833	A	2004-10-14	Rathunde, Dale F. et al.	
	4	20050186948	A	2005-08-25	Gallagher et al.	
	5	20070147317	A	2007-06-28	Smith et al.	

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STATEMENT BY APPLICANT**
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Examiner Name	Andrew J RUDY
Attorney Docket Number	RALEP007 [26WV-160488]

6	20080025230	A	2008-01-31	Patel et al.	
7	20080056273	A	2008-03-06	Pelletier et al.	
8	20080270212	A	2008-10-30	Blight et al.	
9	20100030890	A	2010-02-04	Dutta et al.	

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	1	1310401	CN	A	2001-08-29	Wang, Di Xing		☐
	2	2007133844	WO	A	2007-11-22	Camiant, Inc.		☐
	3	1999027723	WO		1999-06-03	Telefonaktiebolaget LM Ericsson		☐

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	First Named Inventor	Gregory G. Raleigh
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	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26WV-160488]

1	"End to End QoS Solution for Real-time Multimedia Application;" Computer Engineering and Applications, 2007, 43 (4): 155-159, by Tan Zu-guo, Wang Wen-juan; Information and Science School, Zhanjian Normal College, Zhan jiang, Guangdong 524048, China	☐
2	"ASA/PIX: Allow Split Tunneling for VPN Clients on the ASA Configuration Example," Document ID 70917, January 10, 2008	☐

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Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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	2	6996393		2006-02-07	Pyhalammi, Seppo et al.	
	3	7760711		2010-07-20	Kung, Fen-Chung et al.	
	4	8000318		2011-08-16	Wiley, William L. et al.	
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	Attorney Docket Number	RALEP007

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	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

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	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

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	Attorney Docket Number	RALEP007

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	47	7593417		2009-09-22	Wang, James et al.	
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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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	Attorney Docket Number	RALEP007		

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	1	1889777A	CN		2006-07-19	Huawei Tech. Co. Ltd.		☐
	2	101155343A	CN		2006-09-29	Huawei Tech. Co. Ltd.		☐
	3	101035308A	CN		2006-03-09	Huawei Tech. Co. Ltd.		☐

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	4	2007124279	WO		2007-11-01	Cisco Technology, Inc.		☐
	5	2005008995	WO		2005-01-27	Starhub Ltd.		☐

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	Attorney Docket Number	RALEP007 [26WV-160488]	

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6185576	B1	2001-02-06	Mcintosh, Lowrie	
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	1	20110110309	A	2011-05-12	Bennett, James D.	
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	1	1310401	CN	A	2001-08-29	Wang, Di Xing		☐
	2	2007133844	WO	A	2007-11-22	Camiant, Inc.		☐
	3	1999027723	WO		1999-06-03	Telefonaktiebolaget LM Ericsson		☐

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	Examiner Name	Andrew J RUDY
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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☐ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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Signature	/Krista S. Jacobsen/	Date (YYYY-MM-DD)	2014-05-21
Name/Print	Krista S. Jacobsen	Registration Number	59374

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Application Number:		12380780		
Filing Date:		02-Mar-2009		
Title of Invention:		AUTOMATED DEVICE PROVISIONING AND ACTIVATION		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Krista Susan Jacobsen		
Attorney Docket Number:		RALEP007 [26WV-160488]		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
Total in USD (\$)				90

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EFS ID:	19098323
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen
Filer Authorized By:	
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	21-MAY-2014
Filing Date:	02-MAR-2009
Time Stamp:	21:41:34
Application Type:	Utility under 35 USC 111(a)

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Payment was successfully received in RAM	\$ 90
RAM confirmation Number	8437
Deposit Account	505876
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<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</p>	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)					
Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)					
Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	P007_trans_letter.pdf	273769	no	2
			bf0e0c165462a897397337521b12afb7dbcd10ec		
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	P007IDS.pdf	613183	no	6
			818cc34ef7fd46cf2b87dbf8b35211a1132a5069		
Warnings:					
Information:					
3	Foreign Reference	2044_WO1999027723A1.pdf	904456	no	36
			a688012e12d1ad3b8550a0c726a94bd72b28a6fa		
Warnings:					
Information:					
4	Foreign Reference	2045_WO2007133844.pdf	1180849	no	30
			f4c87541e0759ae271d1a7f67a656801997a5558		
Warnings:					
Information:					
5	Foreign Reference	2046_CN1310401A.pdf	992440	no	13
			a1b82929f3d1ce8d217485b34de268afea8f7863		
Warnings:					
Information:					
6	Non Patent Literature	3037_EndtoEnd.pdf	1097643	no	5
			c0f57a22ab875fecfc286cd70be1ebcae7fc806b		
Warnings:					
Information:					
7	Non Patent Literature	3038_ASA.pdf	786693	no	24
			5580855f6934ae1eab1a3251238ecc9c8076e7a9		
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	30440	no	2
			b59e4fc0c5be4f4fb76a4dbeea1b066b198bddfd		

Warnings:	
Information:	
Total Files Size (in bytes):	5879473
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Examiner:

Gregory G. Raleigh

RUDY, Andrew J.

Serial No. 12/380,780

Art Unit: 3687

Filed: March 2, 2009

Conf. No.: 1775

Title: Automated Device Provisioning and Activation

Mail Stop Petitions
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**SUBMISSION OF INFORMATION DISCLOSURE STATEMENT AFTER RECEIPT
OF NOTICE OF ALLOWANCE BUT PRIOR TO PAYMENT OF ISSUE FEE**

Madam:

In accordance with the duty of disclosure under 37 CFR §1.56 and pursuant to 37 CFR §§ 1.97-1.98, Applicant hereby submits the references listed on the enclosed Form PTO-SB/08A.

The present Information Disclosure Statement is being filed after Applicant received the Notice of Allowance in the above-captioned application, but before Applicant has paid the Issue Fee. Accordingly, pursuant to 37 C.F.R. § 1.97(d), Applicant is submitting both the fee set forth in 37 C.F.R. § 1.17(p) and the certification statement set forth in 37 C.F.R. § 1.97(e).

Applicant respectfully requests consideration of the listed references.

CONCLUSION

Applicant respectfully requests that the Examiner consider the references listed in the IDS submitted herewith. In accordance with 37 C.F.R. § 1.97(d)-(e), the IDS is being filed prior to payment of the issue fee, with both the certification statement and fee specified in 37 C.F.R. § 1.97(d)-(e).

The Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account 50-5876.

Respectfully submitted,

Date: May 21, 2014

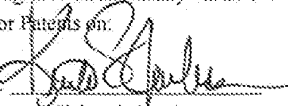
By: 

Krista S. Jacobsen
Reg. No. 59,374
Tel: 408-455-5539

CERTIFICATE OF ELECTRONIC TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being filed electronically via EPS-Web addressed to the Commissioner for Patents on:

Date: May 21, 2014

By: 

Krista S. Jacobsen



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

107265 7590 05/06/2014
Headwater Partners I LLC - Outside Firm 1
350 Marine Parkway, Suite 300
Redwood Shores, CA 94065

EXAMINER

RUDY, ANDREW J

ART UNIT

PAPER NUMBER

3687

DATE MAILED: 05/06/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007 [26WV-160488]	1775
TITLE OF INVENTION: AUTOMATED DEVICE PROVISIONING AND ACTIVATION				

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	08/06/2014

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

107265 7590 05/06/2014
Headwater Partners I LLC - Outside Firm 1
350 Marine Parkway, Suite 300
Redwood Shores, CA 94065

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

12/380,780 03/02/2009 Gregory G. Raleigh RALEP007 1775

TITLE OF INVENTION: AUTOMATED DEVICE PROVISIONING AND ACTIVATION

[26WV-160488]

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	08/06/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
RUDY, ANDREW J	3687	705-016000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007 [26WV-160488]	1775
107265 7590 05/06/2014 Headwater Partners I LLC - Outside Firm 1 350 Marine Parkway, Suite 300 Redwood Shores, CA 94065			EXAMINER RUDY, ANDREW J	
			ART UNIT 3687	PAPER NUMBER

DATE MAILED: 05/06/2014

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 12/380,780	Applicant(s) RALEIGH, GREGORY G.	
	Examiner ANDREW JOSEPH RUDY	Art Unit 3687	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the 09 July 2012 RCE.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1-64. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. ☒ Notice of References Cited (PTO-892) | 5. ☒ Examiner's Amendment/Comment |
| 2. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. ☒ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. ☐ Other _____. |
| 4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 9, 2012 has been entered.
3. Further pertinent references of interest are noted on the attached PTO-892.
4. Applicant's Information Disclosure Statements (IDS's) submitted June 7, 2012; July 9, 2012; August 9, 2012; September 21, 2012; October 15, 2012; December 4, 2012; January 22, 2013; March 22, 2013; May 21, 2013; July 15, 2013; July 17, 2013; September 3, 2013; September 7, 2013; November 26, 2013; January 31, 2014 and March 19, 2014 have been reviewed. Note the attached IDS's.

Allowable Subject Matter

5. Pursuant to Applicant's July 9, 2012 Amendment and Remarks, claims 1-64 are allowed.

6. The following is an examiner's statement of reasons for allowance: The prior art of record, either alone or in combination, does not disclose, or suggest, Applicant's claim language, e.g. an access request, activating billing and limited temporary access.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW JOSEPH RUDY whose telephone number is (571)272-6789. The examiner can normally be reached on Monday thru Friday.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Application/Control Number: 12/380,780
Art Unit: 3687

Page 4

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ANDREW JOSEPH RUDY/
Primary Examiner
Art Unit 3687

Notice of References Cited	Application/Control No. 12/380,780	Applicant(s)/Patent Under Reexamination RALEIGH, GREGORY G.	
	Examiner ANDREW JOSEPH RUDY	Art Unit 3687	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-8,554,876	10-2013	Winsor, Gerald W.	709/219
*	B	US-8,527,410	09-2013	Markki et al.	705/40
*	C	US-8,375,128	02-2013	Tofighbakhsh et al.	709/226
*	D	US-8,356,336	01-2013	Johnston et al.	726/3
*	E	US-8,191,124	05-2012	Wynn et al.	726/6
*	F	US-8,175,574	05-2012	Panda et al.	455/406
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

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	Filing Date		2009-03-02	
	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WW-160488]		

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	Attorney Docket Number	RALEP007	

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Issue Classification 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	12/380,780	RALEIGH, GREGORY G.	
	Examiner	Art Unit	
	ANDREW JOSEPH RUDY	3687	

ISSUE CLASSIFICATION												
ORIGINAL					CROSS REFERENCE(S)							
CLASS		SUBCLASS			CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)						
726		7										
INTERNATIONAL CLASSIFICATION												
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XXXXXXXXXXXXXXXXXXXXX (Assistant Examiner) (Date)		/Andrew Joseph Rudy/ 4/25/2014 (Primary Examiner) (Date)		Total Claims Allowed: 64	
(Legal Instruments Examiner) (Date)				O.G. Print Claim(s) 1	O.G. Print Fig. 44B

☒ Claims renumbered in the same order as presented by applicant												☐ CPA		☐ T.D.		☐ R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original		
1	1	31	31	61	61		91		121		151		181				
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Search Notes 	Application/Control No.		Applicant(s)/Patent under Reexamination	
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	Examiner		Art Unit	
	ANDREW JOSEPH RUDY		3687	

SEARCHED			
Class	Subclass	Date	Examiner
705	16,22,28,30,34,40	4/24/2014	AJR
709	219,226	4/24/2014	AJR
726	2,3,6,7	4/24/2014	AJR
455	406	4/24/2014	AJR
455	414.1	4/24/2014	AJR

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner
726	2,3,6,7	4/24/2014	AJR

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
Continuity data reviewed.	4/24/2014	AJR

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Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

U.S.PATENTS								
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
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	Attorney Docket Number	RALEP007

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	Examiner Name	Rudy, Andrew J.
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	Art Unit	3687
	Examiner Name	Rudy, Andrew J.
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Art Unit	3687
Examiner Name	RUDY, ANDREW J.
Attorney Docket Number	RALEP007 [26WV-160488]

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	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

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Attorney Docket Number		RALEP007

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	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
	Attorney Docket Number	26VV-160488 [RALEP007]	

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	Examiner Name	Andrew J. Rudy
	Attorney Docket Number	26VV-160488 [RALEP007]

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	Examiner Name	Andrew J. Rudy
	Attorney Docket Number	26VV-160488 [RALEP007]

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Filing Date	March 2, 2009
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26WV-160488 [RALEP007]

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	13	8548427	B2	2013-10-01	Chow et al.	
	14	8566236	B2	2013-10-22	Busch, James David	
	15	8572117	B2	2013-10-29	Rappaport, Theodore S.	
	16	8589955	B2	2013-11-19	Roundtree et al.	
	17	8601125	B2	2013-12-03	Huang et al.	
	18	8635164	B2	2014-01-21	Rosenhaft et al.	
	19	8660853	B2	2014-02-25	Robb et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WV-160488]	

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20030188006	A	2003-10-02	Bard, Steven R.	
	2	20030188117	A	2003-10-02	Yoshino et al.	
	3	20040255145	A	2004-12-16	Chow, Jerry	
	4	20050055595	A	2005-03-10	Frazer et al.	
	5	20060160536	A	2006-07-20	Chou, Joey	
	6	20060168128	A	2006-07-27	Sistla et al.	
	7	20070259656	A	2007-11-08	Jeong, Jong Woo	
	8	20080263348	A	2008-10-23	Zaltsman et al.	
	9	20080313315	A	2008-12-18	Karaoguz et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
	Filing Date		2009-03-02	
	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WV-160488]		

	10	20090282127	A	2009-11-12	Leblanc et al.	
	11	20100167696	A	2010-07-01	Smith, Christopher David et al.	
	12	20110019574	A	2011-01-27	Malomsoky et al.	

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	1	101123553A	CN		2007-09-11	Southeast University		☐
	2	1937511A	CN		2007-03-28	ZTE		☐

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	Filing Date	2009-03-02
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	Art Unit	3687
	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26WV-160488]

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
	Filing Date	2009-03-02
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26WV-160488]

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Krista S. Jacobsen/	Date (YYYY-MM-DD)	2014-03-19
Name/Print	Krista S. Jacobsen	Registration Number	59374

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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EFS ID:	18522068
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen
Filer Authorized By:	
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	19-MAR-2014
Filing Date:	02-MAR-2009
Time Stamp:	14:01:46
Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	P007IDS.pdf	613006 d9a0d6f0170f581c12a861a352e2af606894be17	no	7

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2	Foreign Reference	2041_CN101123553A.pdf	1975496 77fe4b0fe9cae8cb2bf4c46f64443dee1117f80e	no	16
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3	Foreign Reference	2042_CN1937511A.pdf	3222683 57d4f0e05771df6cf8790dcaecf3a418734fec42	no	29
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WW-160488]	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5774532	A	1998-06-30	Gottlieb et al.	
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U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20040225898	A	2004-11-11	Frost, D. et al.	
	2	20050079863	A	2005-04-14	Macaluso, Anthony G.	
	3	20060114832	A	2006-06-01	Hamilton et al.	
	4	20060156398	A	2006-07-13	Ross et al.	
	5	20060173959	A	2006-08-03	Mckelvie et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26VV-160488]	

	6	20070033194	A	2007-02-08	Srinivas et al.	
	7	20080070550	A	2008-03-20	Hose, David Alan	
	8	20080201266	A	2008-08-21	Chua et al.	
	9	20100284327	A	2010-11-11	Miklos, Gyorgy	

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FOREIGN PATENT DOCUMENTS

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	1	"Communication Concepts for Mobile Agent Systems," by Joachim Baumann et al.; Inst. Of Parallel and Distributed High-Performance Systems, Univ. of Stuttgart, Germany, pp. 123-135, 1997	☐

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	Filing Date	2009-03-02
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26VV-160488]

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

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	Filing Date	2009-03-02
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26VV-160488]

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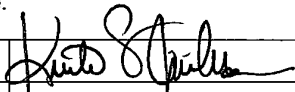
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2014-01-31
Name/Print	Krista S. Jacobsen	Registration Number	59374

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Electronic Acknowledgement Receipt	
EFS ID:	18088430
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	31-JAN-2014
Filing Date:	02-MAR-2009
Time Stamp:	19:20:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	P007IDS.pdf	831630 <small>b49045534ae78f668ada7ac123015815a0976189</small>	no	4

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2	Non Patent Literature	3034_Baumann.pdf	2145168 <small>7dcd8af1f9cab4f61cecb7522d5e0d9c220729a</small>	no	13
Warnings:					
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	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J RUDY	
	Attorney Docket Number	RALEP007 [26WV-160488]	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5983270	A	1999-11-09	Abraham et al.	
	2	6104700	A	2000-08-15	Haddock, Stephen R. et al.	
	3	6542992		2003-04-01	Peirce, Kenneth L. et al.	
	4	6598034	B1	2003-07-22	Kloth, Axel K.	
	5	6748195	B1	2004-06-08	Phillips, W. Garland	
	6	6873988	B2	2005-03-29	Herrmann et al.	
	7	7013469	B2	2006-03-14	Smith et al.	
	8	7032072	B1	2006-04-18	Quinn et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
	Filing Date		2009-03-02	
	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WV-160488]		

	9	7043268	B2	2006-05-09	Yukie et al.	
	10	7113780	B2	2006-09-26	Mckenna Daniel et al.	
	11	7203169	B1	2007-04-10	Okholm, Jon et al.	
	12	7286834	B2	2007-10-23	Walter	
	13	7310424		2007-12-18	Gehring, Stephan Walter et al.	
	14	7356011		2008-04-08	Waters, Christopher J.F. et al.	
	15	7460837	B2	2008-12-02	Diener, Neil R.	
	16	7540408	B2	2009-06-02	Levine, Judah et al.	
	17	7546460		2009-06-09	Maes, Stephane H.	
	18	7555757	B2	2009-06-30	Smith et al.	
	19	7574509	B2	2009-08-11	Nixon et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
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	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WV-160488]		

	20	7580356	B1	2009-08-25	Mishra et al.	
	21	7596373	B2	2009-09-29	Mcgregor, Christopher et al.	
	22	7610396	B2	2009-10-27	Taglienti et al.	
	23	7616962	B2	2009-11-10	Oswal, Anand K. et al.	
	24	7653394	B2	2010-01-26	McMillin, Brian K.	
	25	7697540	B2	2010-04-13	Haddad et al.	
	26	7742406	B1	2010-06-22	Muppala, Suresh	
	27	7774323	B2	2010-08-10	Helfman, Nadav	
	28	7826427	B2	2010-11-02	Sood et al.	
	29	7826607	B1	2010-11-02	De Carvalho Resende et al.	
	30	7921463		2011-04-05	Sood, Kapil et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
	Filing Date		2009-03-02	
	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WV-160488]		

	31	7940685	B1	2011-05-10	Breslau, Lee et al.	
	32	7940751		2011-05-10	Hansen, Christopher J.	
	33	7953877	B2	2011-05-31	Vemula et al.	
	34	7957381	B2	2011-06-07	Clermidy et al.	
	35	7958029	B1	2011-06-07	Bobich et al.	
	36	7984511	B2	2011-07-19	Kocher Paul et al.	
	37	7987510	B2	2011-07-26	Kocher et al.	
	38	8031601	B2	2011-10-04	Feroz et al.	
	39	8122249		2012-02-21	Falk, Rainer et al.	
	40	8130793	B2	2012-03-06	Edwards, Stephen K. et al.	
	41	8166554	B2	2012-04-24	John, Pramod	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
	Filing Date		2009-03-02	
	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WV-160488]		

	42	8185093		2012-05-22	Jheng, Yu-Syuan et al.	
	43	8185127	B1	2012-05-22	Cai, Zheng et al.	
	44	8571474		2013-10-29	Chavez et al.	
	45	8195163	B2	2012-06-05	Gisby, Doug et al.	
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	49	8255534	B2	2012-08-28	Assadzadeh, Alireza	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
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	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26WV-160488]

	53	8352360	B2	2013-01-08	De Judicibus et al.	
	54	8411691	B2	2013-04-02	Aggarwal	
	55	8437734		2013-05-07	Ray, Amar N. et al.	
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	Filing Date		2009-03-02	
	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WV-160488]		

	64	8583499		2013-11-12	De Judicibus, Dario et al.	
	65	8520589		2013-08-27	Bhatt, Yogesh et al.	
	66	8521110		2013-08-27	Rofougaran, Ahmadreza	
	67	8522039	B2	2013-08-27	Hyndman et al.	
	68	8526329	B2	2013-09-03	Mahany, Ronald L. et al.	
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	70	8543265	B2	2013-09-24	Ekhuagere et al.	
	71	8544105	B2	2013-09-24	Mclean et al.	
	72	8561138	B2	2013-10-15	Rothman, Michael M. et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
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	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Andrew J RUDY		
	Attorney Docket Number	RALEP007 [26WV-160488]		

	1	20060174035	A	2006-08-03	Tufail, Mudassir	
	2	20070025301	A	2007-02-01	Petersson et al.	
	3	20070140145	A	2007-06-21	Kumar et al.	
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	6	20070168499	A	2007-07-19	Chu, Jing-Long	
	7	20080120129	A	2008-05-22	Seubert et al.	
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	9	20100131584		2010-05-27	Johnson, William J.	
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	11	20130144789		2013-06-06	Aaltonen, Janne et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
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FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	101115248A	CN		2008-01-30	Lenovo Beijing Ltd.		☐
	2	101341764A	CN		2009-01-07	Telefonaktiebolaget LM Ericsson		☐
	3	1538730A	CN		2004-10-20	Zhongxing Communication Co., Ltd.		☐
	4	1802839A	CN		2006-07-12	Motorola Inc.		☐
	5	2004064306	WO		2004-07-29	Motorola Inc.		☐
	6	2007068288	WO		2007-06-21	Telefonaktiebolaget LM Ericsson		☐

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	1	"The Construction of Intelligent Residential District in Use of Cable Television Network," Shandong Science, Vol. 13, No. 2, June 2000	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
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	2	VerizonWireless.com news, "Verizon Wireless Adds to Portfolio of Cosumer-Friendly Tools With Introduction of Usage Controls, Usage Controls and Chaperone 2.0 Offer Parents Full Family Security Solution," August 18, 2008	☐
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<small> ¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached. </small>			

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	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J RUDY
	Attorney Docket Number	RALEP007 [26WV-160488]

CERTIFICATION STATEMENT

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☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

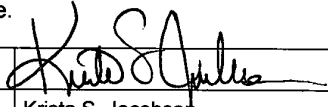
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2013-11-25
Name/Print	Krista S. Jacobsen	Registration Number	59374

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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EFS ID:	17502082
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	26-NOV-2013
Filing Date:	02-MAR-2009
Time Stamp:	00:57:25
Application Type:	Utility under 35 USC 111(a)

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	P007IDS.pdf	382170 da8b160255d8e09b79a2f947c6c75937a8a6008a	no	12

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

U.S.PATENTS								
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1	8150431		2012-04-03	Wolovitz, Lionel et al.			
	2	8483135		2013-07-09	Cai, Yigang et al.			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

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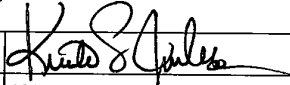
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2013-09-06
Name/Print	Krista S. Jacobsen	Registration Number	59374

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Electronic Acknowledgement Receipt	
EFS ID:	16791522
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	07-SEP-2013
Filing Date:	02-MAR-2009
Time Stamp:	01:43:36
Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	P007.pdf	692422 f1347a89107d86534d025a44d3606a803a6615f8	no	3

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

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	Attorney Docket Number	RALEP007	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5630159	A	1997-05-13	Zancho, William F.	
	2	5633484	A	1997-05-27	Zancho, William F. et al.	
	3	5814798	A	1998-09-29	Zancho, William F.	
	4	5915008	A	1999-06-22	Dulman, Scott	
	5	6654814		2003-11-25	Britton, Kathryn H. et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
	Filing Date		2009-03-02	
	First Named Inventor	Gregory G. Raleigh		
	Art Unit	3687		
	Examiner Name	Rudy, Andrew J.		
	Attorney Docket Number	RALEP007		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
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	Attorney Docket Number	RALEP007	

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	Art Unit	3687		
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	Attorney Docket Number	RALEP007		

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	32	7948953	B2	2011-05-24	Melkote, Keerti G. et al.	
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	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

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	Attorney Docket Number	RALEP007	

	53	8242959	B2	2012-08-14	Mia, Rashidus S. et al.	
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	Attorney Docket Number	RALEP007		

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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	Art Unit	3687
	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

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	Art Unit	3687		
	Examiner Name	Rudy, Andrew J.		
	Attorney Docket Number	RALEP007		

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FOREIGN PATENT DOCUMENTS

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	1	1998058505	WO		1998-12-23	Sonera Oy		☐

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	Art Unit	3687		
	Examiner Name	Rudy, Andrew J.		
	Attorney Docket Number	RALEP007		

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	1	ANTON, B. et al., "Best Current Practices for Wireless Internet Service Provider (WISP) Roaming"; Release Date February 2003, Version 1.0; Wi-Fi Alliance – Wireless ISP Roaming (WISPr)	☐

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	Filing Date	2009-03-02
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

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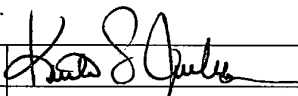
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☒ None

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Signature		Date (YYYY-MM-DD)	2013-09-03
Name/Print	Krista S. Jacobsen	Registration Number	59374

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EFS ID:	16753063
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	03-SEP-2013
Filing Date:	02-MAR-2009
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Application Type:	Utility under 35 USC 111(a)

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	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

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	1	20100241544		2010-09-23	Benson, Dan et al.			
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	Art Unit	3687	
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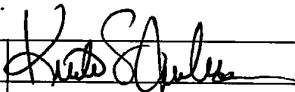
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Name/Print	Krista S. Jacobsen	Registration Number	59374

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EFS ID:	16347590
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	17-JUL-2013
Filing Date:	02-MAR-2009
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Application Type:	Utility under 35 USC 111(a)

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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	Attorney Docket Number	RALEP007	

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

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	10	7929973		2011-04-19	Zavalkovsky, Arthur et al.	
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	Attorney Docket Number	RALEP007	

	20	7043226		2006-05-09	Yamauchi, Toshiaki	
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	31	8320949		2012-11-27	Matta, Sudheer Poorna Chandra	
	32	8279864		2012-10-02	Wood, Daniel M.	
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	Art Unit	3687	
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	Attorney Docket Number	RALEP007	

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	43	7778176		2010-08-17	Morford, Michael Robert	
	44	7725570		2010-05-25	Lewis, Lundy	
	45	7634388		2009-12-15	Archer, Charles J. et al.	
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	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

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	54	5889477		1999-03-30	Fastenrath, Ulrich	
	55	8447980		2013-05-21	Godfrey, James A. et al.	
	56	8429403		2013-04-23	Moret, Eric et al.	
	57	8411587		2013-04-02	Curtis, William et al.	
	58	8396929		2013-03-12	Helfman, Nadav et al.	
	59	8363658		2013-01-29	Delker, Jason R. et al.	
	60	8265004		2012-09-11	Toutonghi, Michael J.	
	61	8233895		2012-07-31	Tysowski, Piotr Konrad	
	62	7685254		2010-03-23	Pandya, Ashish A.	
	63	7181017		2007-02-20	Nagel, Robert H. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780	
	Filing Date		2009-03-02	
	First Named Inventor	Raleigh, Gregory G.		
	Art Unit	3687		
	Examiner Name	Rudy, Andrew J.		
	Attorney Docket Number	RALEP007		

	64	6965872		2005-11-15	Grdina, Jerome M.	
	65	8402540		2013-03-19	Kapoor, Harsh et al.	
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	70	8468337		2013-06-18	Gaur, Santosh P. et al.	
	71	8477778		2013-07-02	Lehmann, Jr., L. Curtis et al.	
	72	6640097		2003-10-28	Corrigan, Louis et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
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	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

	1	20080120668		2008-05-22	Yau, Frank Chuen-Foo	
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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	1889777A	CN		2006-07-19	Huawei Tech. Co. Ltd.		☐
	2	101155343A	CN		2006-09-29	Huawei Tech. Co. Ltd.		☐
	3	101035308A	CN		2006-03-09	Huawei Tech. Co. Ltd.		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
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	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

	4	2007124279	WO		2007-11-01	Cisco Technology, Inc.		☐
	5	2005008995	WO		2005-01-27	Starhub Ltd.		☐

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NON-PATENT LITERATURE DOCUMENTS

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	First Named Inventor	Raleigh, Gregory G.
	Art Unit	3687
	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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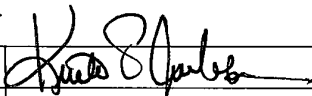
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2013-07-15
Name/Print	Krista S. Jacobsen	Registration Number	59374

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EFS ID:	16323373
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	15-JUL-2013
Filing Date:	02-MAR-2009
Time Stamp:	22:34:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	P007.pdf	1823880 f8bc50c2cb9b6edc8258bb20eb94f566a5c07e61	no	10

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U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6754470		2004-06-22	Hendrickson, Keith et al.	
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	First Named Inventor	Raleigh, Gregory G.
	Art Unit	3687
	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

	9	6154738		2000-11-28	Call, Charles Gainor	
	10	8423016		2013-04-16	Buckley, Adrian et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20110173678		2011-07-14	Kaippallimalil, John et al.	
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	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

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FOREIGN PATENT DOCUMENTS

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	1	2006120558A1	WO		2006-11-16	Nokia Corp.		☐

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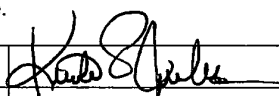
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☐ See attached certification statement.			
☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.			
☒ None			
SIGNATURE			
A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.			
Signature		Date (YYYY-MM-DD)	2013-05-21
Name/Print	Krista S. Jacobsen	Registration Number	59374
<p>This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p>			

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EFS ID:	15837555
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	21-MAY-2013
Filing Date:	02-MAR-2009
Time Stamp:	22:48:40
Application Type:	Utility under 35 USC 111(a)

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<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	8135388		2012-03-13	Gailloux, Michael A. et al.	
	2	6947723		2005-09-20	Gurnani, Roger et al.	
	3	8350700		2013-01-08	Fast, Raymond D. et al.	
	4	8204190		2012-06-19	Bang, Jung-Hee et al.	
	5	7962622		2011-06-14	Friend, John et al.	
	6	7583964		2009-09-01	Wong, Gregory A.	
	7	7565141		2009-07-21	Macaluso, Anthony G.	
	8	7373179		2008-05-13	Stine, Ted et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
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	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

	9	7236780		2007-06-26	Benco, David S. et al.	
	10	7039403		2006-05-02	Wong, Gregory A.	
	11	7865182		2011-01-04	Macaluso, Anthony G.	
	12	8370477		2013-02-05	Short, Joel E. et al.	
	13	8364806		2013-01-29	Short, Joel E. et al.	
	14	8279067		2012-10-02	Berger, Thomas R. et al.	
	15	8213296		2012-07-03	Shannon, Frank M. et al.	
	16	8019868		2011-09-13	Rao, Goutham et al.	
	17	8005988		2011-08-23	Maes, Stephane H.	
	18	7978627		2011-07-12	Taylor, William Scott et al.	
	19	7711848		2010-05-04	Maes, Stephane H.	

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	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

	20	6782412		2004-08-24	Brophy, Kevin et al.	
	21	6081591		2000-06-27	Skoog, Frederick H.	
	22	6064878		2000-05-16	Denker, John Stewart et al.	
	23	7730123		2010-06-01	Erickson, Richard R. et al.	
	24	8024397		2011-09-20	Erickson, Richard R. et al.	
	25	8156206		2012-04-10	Kiley, Kevin J. et al.	
	26	8126722		2012-02-28	Robb, Terence Alan et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20090299857		2009-12-03	Brubaker, Curtis M.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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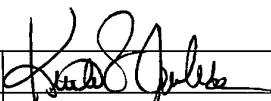
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	Attorney Docket Number	RALEP007

CERTIFICATION STATEMENT			
Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):			
☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).			
OR			
☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).			
☐ See attached certification statement.			
☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.			
☒ None			
SIGNATURE			
A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.			
Signature		Date (YYYY-MM-DD)	2013-03-21
Name/Print	Krista S. Jacobsen	Registration Number	59374
<p>This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p>			

Electronic Acknowledgement Receipt	
EFS ID:	15331254
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	22-MAR-2013
Filing Date:	02-MAR-2009
Time Stamp:	13:39:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	P007IDS.pdf	1018798 4480aad3846082382080a32256736bea4e c61b0	no	5

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Doc code: IDS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	8291238		2012-10-16	Ginter, Karl L. et al.	
	2	8068824		2011-11-29	Shan, Xueshan et al.	
	3	7228354		2007-06-05	Chambliss, David Darden et al.	
	4	5283904		1994-02-01	Carson, David G. et al.	
	5	8208919		2012-06-26	Kotecha, Lalit Ratilal	
	6	8185152		2012-05-22	Goldner, Alla	
	7	7844728		2010-11-30	Anderson, Thomas W. et al.	
	8	7873344		2011-01-18	Bowser, Robert et al.	

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	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

	9	7856226		2010-12-21	Wong, Ellis L. et al.	
	10	7948952		2011-05-24	Hurta, Tuija et al.	
	11	7957020		2011-06-07	Mine, Ryuta et al.	
	12	7346410		2008-03-18	Uchiyama, Kenji	
	13	7167078		2007-01-23	Pourchot, Shawn C.	
	14	8102814		2012-01-24	Rahman, Shahriar I. et al.	
	15	7970350		2011-06-28	Sheynman, Arnold et al.	
	16	8094551		2012-01-10	Huber, Kurt Donald et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

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	1	20090307746		2009-12-10	DI, Jinwen et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
	Filing Date	2009-03-02
	First Named Inventor	Raleigh, Gregory G.
	Art Unit	3687
	Examiner Name	Rudy, Andrew J.
Attorney Docket Number		RALEP007

	2	20050009499		2005-01-13	Koster, Karl	
	3	20100041364		2010-02-18	Lott, Robert Wayne et al.	
	4	20100027469		2010-02-04	Gurajala, Ravindra Babu et al.	
	5	20010053694		2001-12-20	Igarashi, Yoichiro et al.	

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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ^{2j}	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
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	Art Unit	3687
	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

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	Examiner Name	Rudy, Andrew J.
	Attorney Docket Number	RALEP007

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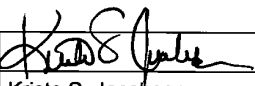
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2013-01-22
Name/Print	Krista S. Jacobsen	Registration Number	59374

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Electronic Acknowledgement Receipt	
EFS ID:	14763914
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	22-JAN-2013
Filing Date:	02-MAR-2009
Time Stamp:	20:47:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	P007IDS.pdf	980984 <small>7ce3db7ed4caf29ee4712edb8a65b5ed827cecd</small>	no	5

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	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	7609700		2009-10-27	Ying, Wen-Ping et al.	
	2	8255515		2012-08-28	Melman, David et al.	
	3	7945240		2011-05-17	Klock, Jacqueline et al.	
	4	7912056		2011-03-22	Brassem, Wayne	
	5	7920529		2011-04-05	Mahler, Roger et al.	
	6	8184530		2012-05-22	Swan, Tim L. et al.	
	7	8213363		2012-07-03	Ying, Wen-Ping et al.	
	8	8214536		2012-07-03	Zhao, Wen	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		12380780
Filing Date		2009-03-02
First Named Inventor	Raleigh, Gregory G.	
Art Unit	3687	
Examiner Name	Rudy, Andrew J.	
Attorney Docket Number	RALEP007	

	9	8255689		2012-08-28	Kim, Eun Ah et al.	
	10	7746854		2010-06-29	Ambe, Shekhar et al.	
	11	7068600		2006-06-27	Cain, Joseph Bibb	
	12	6876653		2005-04-05	Ambe, Shekhar et al.	
	13	6631122		2003-10-07	Arunachalam, Vaidhyanathan et al.	
	14	7599288		2009-10-06	Cole, Raymond E. et al.	
	15	7546629		2009-06-09	Albert, Anthony et al.	
	16	7747730		2010-06-29	Harlow, James D.	
	17	7609650		2009-10-27	Roskowski, Steve et al.	
	18	6581092		2003-06-17	Motoyama, Tetsuro et al.	
	19	7283963		2007-10-16	Fitzpatrick, John E. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

	20	8271049		2012-09-18	Silver, Andrew et al.	
	21	7644151		2010-01-05	Jerrim, John et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20080085707		2008-04-10	Fadell, Tony	
	2	20090046723		2009-02-19	Rahman, Reshad A. et al.	
	3	20080219268		2008-09-11	Dennison, Larry R.	
	4	20080005285		2008-01-03	Robinson, James David et al.	
	5	20090315735		2009-12-24	Bhavani, Neeraj S. et al.	
	6	20090219170		2009-09-03	Clark, Ryan C. et al.	
	7	20090067372		2009-03-12	Shah, Keyur C. et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
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	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

	8	20080262798		2008-10-23	KIM, Eun Ah et al.	
	9	20100103820		2010-04-29	FULLER, Randy et al.	
	10	20100153781		2010-06-17	HANNA, Stephen R.	

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Raleigh, Gregory G.
Art Unit	3687
Examiner Name	Rudy, Andrew J.
Attorney Docket Number	RALEP007

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Raleigh, Gregory G.
Art Unit	3687
Examiner Name	Rudy, Andrew J.
Attorney Docket Number	RALEP007

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

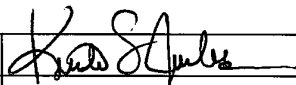
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2012-12-04
Name/Print	Krista S. Jacobsen	Registration Number	59374

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Electronic Acknowledgement Receipt	
EFS ID:	14384230
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	04-DEC-2012
Filing Date:	02-MAR-2009
Time Stamp:	20:42:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	P007IDS.pdf	1138649 <small>a1f53cd812f311211e8cb3bfae3b41d287fb3d6</small>	no	6

Warnings:

Information:

This is not an USPTO supplied IDS fillable form	
Total Files Size (in bytes):	1138649
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	7890084		2011-02-15	Dudziak, Thaddeus Jude et al.	
	2	7890111		2011-02-15	Bugenhagen, Michael K.]	
	3	6226277		2001-05-01	Chuah, Mooi Choo	
	4	6839340		2005-01-04	Voit, Eric A. et al.	
	5	6922562		2005-07-26	Ward, Stephen L. et al.	
	6	7620041		2009-11-17	Dunn, Jeffrey H. et al.	
	7	7627314		2009-12-01	Carlson, Steven I. et al.	
	8	7792538		2010-09-07	Kozisek, Steven E.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		12380780
Filing Date		2009-03-02
First Named Inventor	Raleigh, Gregory G.	
Art Unit	3687	
Examiner Name	Rudy, Andrew J.	
Attorney Docket Number	RALEP007	

9	7801523		2010-09-21	Kenderov, Stoyan	
10	7877090		2011-01-25	Maes, Stephane H.	
11	7912025		2011-03-22	Pattenden, Christopher E. S. et al.	
12	7948968		2011-05-24	Voit, Eric A. et al.	
13	7970426		2011-06-28	Poe, Brian R. et al.	
14	8185158		2012-05-22	Tamura, Motoshi et al.	
15	8254915		2012-08-28	Kozisek, Steven E.	
16	7418257		2008-08-26	Kim, Myong-Ju	
17	8126123		2012-02-28	Cai, Yigang et al.	
18	7903553		2011-03-08	Liu, Enhui	
19	8155620		2012-04-10	Wang, Jun et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		12380780
Filing Date		2009-03-02
First Named Inventor	Raleigh, Gregory G.	
Art Unit	3687	
Examiner Name	Rudy, Andrew J.	
Attorney Docket Number	RALEP007	

	20	8238287		2012-08-07	Gopi, Paramesh et al.	
	21	7113997		2006-09-26	Jayapalan, Jay et al.	
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	23	8244241		2012-08-14	Montemurro, Michael	
	24	7756534		2010-07-13	Anupam, Vinod et al.	
	25	7636574		2009-12-22	Poosala, Viswanath	
	26	6678516		2004-01-13	Nordman, Ian et al.	
	27	6477670		2002-11-05	Ahmadvand, Nima	
	28	6038452		2000-03-14	Strawczynski, Leo et al.	
	29	8108520		2012-01-31	Ruutu, Jussi et al.	
	30	7778643		2010-08-17	Laroia, Rajiv et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	Rudy, Andrew J.	
	Attorney Docket Number	RALEP007	

	31	7668176		2010-02-23	Chuah, Mooi Choo	
	32	7515608		2009-04-07	Yuan, Yuan et al.	
	33	7251218		2007-07-31	Jorgensen, Jacob W.	
	34	7002920		2006-02-21	Ayyagari, Deepak et al.	
	35	7685131		2010-03-23	Batra, Vishal Singh et al.	
	36	7283561		2007-10-16	Picher-Dempsey, Heidi	
	37	7212491		2007-05-01	Koga, Takahiro	
	38	6683853		2004-01-27	Kannas, Chris et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Raleigh, Gregory G.
Art Unit	3687
Examiner Name	Rudy, Andrew J.
Attorney Docket Number	RALEP007

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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	Date Considered
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¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

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(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Raleigh, Gregory G.
Art Unit	3687
Examiner Name	Rudy, Andrew J.
Attorney Docket Number	RALEP007

CERTIFICATION STATEMENT

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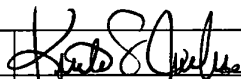
OR

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2012-10-15
Name/Print	Krista S. Jacobsen	Registration Number	59374

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Electronic Acknowledgement Receipt	
EFS ID:	13991182
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	15-OCT-2012
Filing Date:	02-MAR-2009
Time Stamp:	21:32:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	P007Trans.pdf	320831 98f6a3c1ea0b2ea2c6ac6e5eb4174a437d6e6251	no	1

Warnings:

Information:

2	Information Disclosure Statement (IDS) Form (SB08)	P007IDS.pdf	1282358	no	6
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Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
Total Files Size (in bytes):			1603189		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Doc Code: TRAN.LET

Document Description: Transmittal Letter

PTO/SB/21 (07-09)

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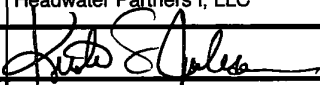
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	12/380,780	
	Filing Date	March 2, 2009	
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687 Conf. 1775	
	Examiner Name	Rudy, Andrew J.	
Total Number of Pages in This Submission	7	Attorney Docket Number	RALEP007

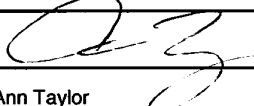
ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☒ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☐ Other Enclosure(s) (please identify below):
Remarks You are hereby authorized to charge any additional fee required or credit any overpayment to Deposit Account No. 50-5876.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Headwater Partners I, LLC		
Signature			
Printed name	Krista S. Jacobsen		
Date	October 15, 2012	Reg. No.	59374

CERTIFICATE OF TRANSMISSION/MAILING

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Signature			
Typed or printed name	Ann Taylor	Date	October 15, 2012

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: RALEIGH, GREGORY G.	Examiner: RUDY, ANDREW J.
Application No.: 12/380,780	Art Unit: 3687
Filed: March 02, 2009	Confirmation No.: 1775
Title: AUTOMATED DEVICE PROVISIONING AND ACTIVATION	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL AMENDMENT

Dear Sir:

Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims that begins on page 2 of this paper.

Remarks/Arguments begin on page 16 of this paper.

The following listing of claims will replace all previous versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A system, comprising:
 - one or more processors of an end-user device configured to:
 - obtain a first set of one or more device credentials for activating a first group of one or more data services for the end-user device;
 - receive an indication of a user intention to access a first data service of the one or more data services on a first network;
 - send an access request to access the first data service, the access request identifying the first set of one or more device credentials;
 - await a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device; and
 - provide at least limited temporary access to the first data service before receiving the response from the network element; and
 - memory of the end-user device coupled to the one or more processors and configured to provide the one or more processors with instructions.
2. (Previously Presented) The system recited in claim 1, wherein the end-user device is a mobile communications device, and the first data service includes one or more Internet based services.
3. (Currently Amended) The system recited in claim 1, wherein the first set of one or more device credentials ~~[[are]]~~ comprises permanent credentials, temporary credentials, or partial credentials.
4. (Currently Amended) The system recited in claim 1, wherein the first set of one or more device credentials ~~[[are]]~~ comprises permanent credentials, temporary credentials, or partial credentials, and wherein the temporary credentials include a temporary phone number.

5. (Currently Amended) The system recited in claim 1, wherein the first set of **one or more** device credentials includes one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class.
6. (Currently Amended) The system recited in claim 1, wherein the first set of **one or more** device credentials identifies one or more provisioning actions.
7. (Currently Amended) The system recited in claim 1, wherein the end-user device is provisioned with the first set of **one or more device** credentials prior to a point of sale of the end-user device.
8. (Currently Amended) The system recited in claim 1, wherein the end-user device is provisioned with the first set of **one or more device** credentials after a point of sale of the end-user device and prior to an activation of the end-user device.
9. (Currently Amended) The system recited in claim 1, wherein the end-user device is provisioned with the first set of **one or more device** credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon a first access request to the first network.
10. (Currently Amended) The system recited in claim 1, wherein the end-user device is associated with a first service plan based at least in part on the first set of **one or more** device credentials.
11. (Currently Amended) The system recited in claim 1, wherein the **one or more** processors of the end-user device **[[is]] are** further configured to:

provision the end-user device for the first data service on the first network, based at least in part on the first set of **one or more** device credentials.

12. (Currently Amended) The system recited in claim 1, wherein the **one or more** processors of the end-user device **[[is]] are** further configured to:

receive a second set of device credentials for provisioning the end-user device for the first data service on the first network.

13. (Currently Amended) The system recited in claim 1, wherein the **one or more** processors of the end-user device **[[is]] are** further configured to:

receive a second set of device credentials for provisioning the end-user device for the first data service on the first network, wherein the first set of **one or more** device credentials **[[is]] comprises** temporary credentials, and the second set of device credentials **[[are]] comprises** permanent credentials.

14. (Currently Amended) The system recited in claim 1, wherein the **one or more** processors of the end-user device **[[is]] are** further configured to:

provision the end-user device for the first data service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of **one or more** device credentials.

15. (Currently Amended) The system recited in claim 1, wherein the **one or more** processors of the end-user device **[[is]] are** further configured to:

provision the end-user device for the first data service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of **one or more** device credentials, wherein the network provisioning function is provided by an activation server.

16. (Currently Amended) The system recited in claim 1, wherein the **one or more** processors of the end-user device **[[is]] are** further configured to:

provision the end-user device for the first data service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials.

17. (Currently Amended) The system recited in claim 1, wherein the one or more processors of the end-user device **[[is]] are** further configured to:

send an activation request to the first network to activate the end-user device for the first data service on the first network, the activation request including the first set of one or more device credentials.

18. (Currently Amended) The system recited in claim 1, wherein the one or more processors of the end-user device **[[is]] are** further configured to:

send an activation request to the first network to activate the end-user device for the first data service on the first network, the activation request including the first set of one or more device credentials; and

send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of one or more device credentials.

19. (Currently Amended) The system recited in claim 1, wherein the one or more processors of the end-user device **[[is]] are** further configured to:

associate the end-user device with a service account based at least in part on the first set of one or more device credentials, wherein the service account is a permanent service account or a temporary service account.

20. (Currently Amended) The system recited in claim 1, wherein the one or more processors of the end-user device **[[is]] are** further configured to:

associate the end-user device with a service account based at least in part on the first set of one or more device credentials, wherein the service account is a reactivated service account that was previously suspended.

21. (Currently Amended) The system recited in claim 1, wherein the one or more processors of the end-user device **[[is]] are** further configured to:

suspend the end-user device upon an expiration of a period of time of inactivity.

22. (Currently Amended) The system recited in claim 1, wherein the one or more processors of the end-user device **[[is]] are** further configured to:

suspend the end-user device upon an expiration of a period of time of inactivity; and

send a reactivation request to access the first data service after the expiration of the period of time of inactivity.

23. (Currently Amended) The system recited in claim 1, wherein the one or more processors of the end-user device **[[is]] are** further configured to:

suspend the end-user device upon an expiration of a period of time of inactivity; and

send a reactivation request to access the first data service after the expiration of the period of time of inactivity using a second set of device credentials.

24. (Previously Presented) A method, comprising:

storing a first set of one or more device credentials in a storage of an end-user device, the one or more device credentials for activating a first group of one or more services for the end-user device;

receiving an indication of a user intention to access a first data service of the one or more data services on the first network;

sending an access request to access the first data service, the access request identifying the first set of one or more device credentials;

awaiting a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device; and

providing at least limited temporary access to the first data service before receiving the response from the network element.

25. (Previously Presented) A computer program product, the computer program product being embodied in a computer readable storage medium and comprising computer instructions for:

storing a first set of one or more device credentials in a storage of an end-user device, the one or more device credentials for activating a first group of one or more services for the end-user device;

receiving an indication of a user intention to access a first data service of the one or more data services on the first network;

sending an access request to access the first data service, the access request identifying the first set of one or more device credentials;

awaiting a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device; and

providing at least limited temporary access to the first data service before receiving the response from the network element.

26. (Previously Presented) A system, comprising:

a processor of a network device configured to:

receive an access request from a first end-user device, the access request identifying a first set of device credentials and a first data service;

initiating a first set of actions to activate billing for the first data service for the first end-user device; and

before completing the first set of actions, set a plurality of access control settings to activate at least limited temporary access by the first end-user device to the first data service on the first network in response to the access request, thereby providing user access to the first data service with reduced delay; and

a memory of the network device coupled to the processor and configured to provide the processor with instructions.

27. (Previously Presented) The system recited in claim 26, wherein the network device is in communication with the first network, and the network device includes one or more of the following: an activation server; a billing system; an authentication, authorization and accounting (AAA) system; a gateway; a router; a switch; a network server; a device that generates,

aggregates, manages or stores charge data records (CDRs); a base station controller; and a base station.

28. (Previously Presented) The system recited in claim 26, wherein the network device is an activation server in communication with the first network.

29. (Previously Presented) The system recited in claim 26, wherein the network device is in communication with a device credential database.

30. (Previously Presented) The system recited in claim 26, wherein the network device is in communication with a plurality of central provider networks for activating the first end-user device.

31. (Previously Presented) The system recited in claim 26, wherein the first end-user device is a mobile communications device, and the first data service includes one or more Internet based services.

32. (Previously Presented) The system recited in claim 26, wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials.

33. (Previously Presented) The system recited in claim 26, wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials, and wherein the temporary credentials include a temporary phone number.

34. (Previously Presented) The system recited in claim 26, wherein the first set of device credentials include one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class.

35. (Previously Presented) The system recited in claim 26, wherein the first set of device credentials include one or more provisioning actions.

36. (Currently Amended) The system recited in claim 26, wherein the first end-user device is provisioned with the first set of device credentials prior to a point of sale of the first end-user device.

37. (Currently Amended) The system recited in claim 26, wherein the first end-user device is provisioned with the first set of device credentials after a point of sale of the first end-user device and prior to activation of the first end-user device.

38. (Currently Amended) The system recited in claim 26, wherein the first end-user device is provisioned with the first set of device credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon an access request to the first data network.

39. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

verify the first set of device credentials.

40. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

set a plurality of access control settings in one or more of the following: a billing system; an authentication, authorization and accounting (AAA) system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores charge data records (CDRs); a base station controller; and a base station.

41. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

set a plurality of service controls to prepare for activation of the first end-user device in one or more of the following: a billing system; an authentication, authorization and accounting

(AAA) system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores charge data records (CDRs); a base station controller; and a base station.

42. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

set a plurality of service controls to prepare for activation of the first end-user device for the first data service on the first network, based at least in part on the first set of device credentials.

43. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

set a plurality of service controls to prepare for activation of the first end-user device for the first data service on the first network, based at least in part on the first set of device credentials, wherein the plurality of service controls include one or more service profiles for the first end-user device stored in an authentication, authorization and accounting (AAA) function for the first network.

44. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user device with one or more provisioning requirements based at least in part on the first set of device credentials.

45. (Currently Amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user device with one or more provisioning actions based at least in part on the first set of device credentials, wherein the first set of device credentials are temporary credentials, and wherein the first set of device credentials are shared by a second **communications end-user** device.

46. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user device with one or more provisioning actions based at least in part on the first set of device credentials; and
perform one or more provisioning actions prior to an activation of the first end-user device.

47. (Currently Amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user device with one or more provisioning actions based at least in part on the first set of device credentials; and

send to the first ~~communications~~ end-user device a second set of device credentials for provisioning the first end-user device for the first data service on the first network.

48. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user device with one or more provisioning actions based at least in part on the first set of device credentials; and

send to the first end-user device a second set of device credentials for provisioning the first end-user device for the first data service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials.

49. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user device with one or more provisioning actions based at least in part on the first set of device credentials; and

send to the first end-user device a second set of device credentials for provisioning the first end-user device for the first data service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials, and wherein the first set of device credentials are recycled for later use by a second end-user device.

50. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user device with one or more provisioning actions based at least in part on the first set of device credentials, wherein the first set of device credentials is shared by a second end-user device.

51. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

provision the first end-user device for the first data service on the first network by providing provisioning information based at least in part on the first set of device credentials.

52. (Previously Presented) The system recited in claim 26, wherein the processor of the first end-user device is further configured to:

provision the first end-user device for the first data service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the network device includes an activation server or is in communication with the activation server.

53. (Previously Presented) The system recited in claim 26, wherein the processor of the first end-user device is further configured to:

provision the first end-user device for the first data service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials.

54. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

receive an activation request of the first end-user device for the first data service on the first network, the activation request including the first set of device credentials.

55. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

receive an activation request for the first end-user device for the first data service on the first network, the activation request including the first set of device credentials; and

activate the first end-user device for the first data service on the first network, based at least in part on the first set of device credentials.

56. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

receive an activation request for the first end-user device for the first data service on the first network, the activation request including the first set of device credentials;

activate the first end-user device for the first data service on the first network, based at least in part on the first set of device credentials; and

send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials.

57. (Previously Presented) The system recited in claim 26, wherein the processor of a network device is further configured to:

associate the first end-user device with a service account based at least in part on the first set of device credentials, wherein the service account is a permanent service account or a temporary service account.

58. (Previously Presented) The system recited in claim 26, wherein the processor of a network device is further configured to:

associate the first end-user device with a service account based at least in part on the first set of device credentials, wherein the service account is a reactivated service account that was previously suspended.

59. (Previously Presented) The system recited in claim 26, wherein the processor of a network device is further configured to:

associate the first end-user device with a service plan based at least in part on the first set of device credentials.

60. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

suspend the first end-user device upon an expiration of a period of time of inactivity.

61. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

suspend the first end-user device upon an expiration of a period of time of inactivity; and

redirect the first end-user device to a reactivation request to access the first data service after the expiration of the period of time of inactivity.

62. (Previously Presented) The system recited in claim 26, wherein the processor of the network device is further configured to:

suspend the first end-user device upon an expiration of a period of time of inactivity; and

redirect the first end-user device to a reactivation request to access the first data service after the expiration of the period of time of inactivity, wherein the reactivation request is based at least in part on a second set of device credentials.

63. (Currently Amended) A method, comprising:

receiving an access request from a first end-user device, the access request identifying a first set of device credentials;

initiating a ~~the~~ first set of actions to activate billing for a ~~the~~ first data service for the first end-user device; and

before completing the first set of actions, setting a plurality of access control settings to activate at least a limited temporary access by the first end-user device for the first data service on a ~~the~~ first network in response to the access request, thereby providing user access to the first data service with reduced delay.

64. (Currently Amended) A computer program product, the computer program product being embodied in a computer readable storage medium and comprising computer instructions for:

receiving an access request from a first end-user device, the access request identifying a first set of device credentials;

initiating a ~~the~~ first set of actions to activate billing for a ~~the~~ first data service for the first end-user device; and

before completing the first set of actions, setting a plurality of access control settings to activate at least a limited temporary access by the first end-user device for the first data service on a ~~the~~ first network in response to the access request, thereby providing user access to the first data service with reduced delay.

REMARKS

Claims 1-64 are pending.

Claims 1, 3-23, 36-38, 45, 47, 63, and 64 are amended herein to correct minor grammatical errors and to provide proper antecedent basis.

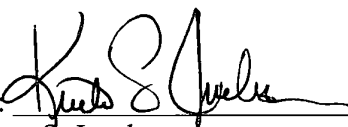
On July 5, 2012, an Examiner interview was held, and agreement was reached that Applicant had overcome all outstanding rejections of the claims as previously submitted. Applicant subsequently filed an RCE with an IDS.

This supplemental amendment is presented before any office action on the RCE and only corrects informalities in the claims. Thus, Applicant respectfully requests that the amendment provided herein be entered.

If the Examiner has any questions, needs any additional information or believes that a telephone conference would expedite prosecution of this application, the Examiner is invited to contact the undersigned at the telephone number set out below.

Respectfully submitted,

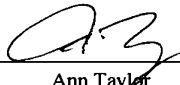
Date: September 21, 2012

By: 
Krista S. Jacobsen
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	RUDY, ANDREW J.	
	Attorney Docket Number	RALEP007 [26WV-160488]	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	7953808		2011-05-31	Sharp, Christopher Brooke et al.	
	2	8135392		2012-03-13	Marcellino, Chris et al.	
	3	6502131		2002-12-31	Vaid, Aseem et al.	
	4	6505114		2003-01-07	Luciani, Sergio	
	5	6763000		2004-07-13	Walsh, Peter J.	
	6	6967958		2005-11-22	Ono, Yoshiyuki et al.	
	7	7644267		2010-01-05	Ylikoski, Martti et al.	
	8	7710932		2010-05-04	Muthuswamy, Sivakumar et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
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First Named Inventor	Raleigh, Gregory G.
Art Unit	3687
Examiner Name	RUDY, ANDREW J.
Attorney Docket Number	RALEP007 [26WV-160488]

9	7881199		2011-02-01	Krstulich, Zlatko	
10	7886047		2011-02-08	Potluri, Dora	
11	7911975		2011-03-22	Droz, Patrick et al.	
12	8050275		2011-11-01	Iyer, Jayaraman R.	
13	8194553		2012-06-05	Liang, Zhi Yong et al.	
14	8239520		2012-08-07	Grah, Adrian et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20080132201		2008-06-05	Karlberg, Johan	
	2	20080081606		2008-04-03	Cole, Terry L.	
	3	20090248883		2009-10-01	SURYANARAYANA, Lalitha et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Raleigh, Gregory G.
Art Unit	3687
Examiner Name	RUDY, ANDREW J.
Attorney Docket Number	RALEP007 [26WV-160488]

4	20100144310	2010-06-10	Bedingfield, SR, James Carlton, et al.
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Raleigh, Gregory G.
Art Unit	3687
Examiner Name	RUDY, ANDREW J.
Attorney Docket Number	RALEP007 [26WV-160488]

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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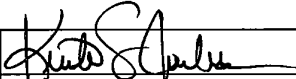
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2012-09-21
Name/Print	Krista S. Jacobsen	Registration Number	59374

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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EFS ID:	13812235
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	107265
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	RALEP007 [26WV-160488]
Receipt Date:	21-SEP-2012
Filing Date:	02-MAR-2009
Time Stamp:	18:36:45
Application Type:	Utility under 35 USC 111(a)

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1	Transmittal Letter	Trans.pdf	319766 d123f2bef5178527d276396f020c60fdd225d770	no	1

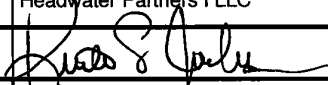
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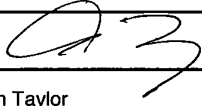
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2		Amend.pdf	3710049 7d07b8d3798e4f724baaf1029914a5fffe8acfec	yes	16
Multipart Description/PDF files in .zip description					
	Document Description	Start	End		
	Supplemental Response or Supplemental Amendment	1	1		
	Claims	2	15		
	Applicant Arguments/Remarks Made in an Amendment	16	16		
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	1405573 e464ac5fd0afd2b7c2ed7f2a03f98af3b7c86e84	no	5
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
Total Files Size (in bytes):			5435388		
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	12/380,780	
	Filing Date	March 2, 2009	
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687 Conf. No.: 1775	
	Examiner Name	Rudy, Andrew J.	
Total Number of Pages in This Submission	22	Attorney Docket Number	RALEP007 [26WV-160488]

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☒ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☒ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☐ Other Enclosure(s) (please identify below):
Remarks You are hereby authorized to charge any additional fee required or credit any overpayment to Deposit Account No. 50-5876.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Headwater Partners I LLC		
Signature			
Printed name	Krista S. Jacobsen		
Date	September 21, 2012	Reg. No.	59374

CERTIFICATE OF TRANSMISSION/MAILING			
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Signature			
Typed or printed name	Ann Taylor	Date	September 21, 2012

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/380,780	03/02/2009	Gregory G. Raleigh	26WV-160488 [RALEP007]

CONFIRMATION NO. 1775

POA ACCEPTANCE LETTER

107265

Headwater Partners I LLC - Outside Firm 1
350 Marine Parkway, Suite 300
Redwood Shores, CA 94065



OC000000056056582

Date Mailed: 08/22/2012

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/08/2012.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/sleutchit/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/380,780	03/02/2009	Gregory G. Raleigh	26WV-160488 [RALEP007]

CONFIRMATION NO. 1775

POWER OF ATTORNEY NOTICE

69849
SHEPPARD, MULLIN, RICHTER & HAMPTON LLP
379 Lytton Avenue
Palo Alto, CA 94301



OC000000056056486

Date Mailed: 08/22/2012

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/08/2012.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	RUDY, Andrew J	
	Attorney Docket Number	RALEP007	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	7984130		2011-07-19	Bogineni, Kalyani Flynn, Gerard J. Stone, Jr., Wil	
	2	8019687		2011-09-13	Wang, Feng Chi Poulidis, Philip	
	3	8144591		2012-03-27	Ghai, Rajat Towey, Jim	
	4	7336960		2008-02-26	Zavalkovsky, Arthur Stieglitz, Jeremy Schieber, Am	
	5	8194549		2012-06-05	Huber, Kurt Donald Brisebois, Arthur Richard Flynn	
	6	6606744		2003-08-12	Mikurak, Michael G.	
	7	8190675		2012-05-29	Tribbett, David	
	8	8200775		2012-06-12	Moore, James F.	
If you wish to add additional U.S. Patent citation information please click the Add button.						

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	RUDY, Andrew J	
	Attorney Docket Number	RALEP007	

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20030018524		2003-01-23	Fishman, Dan Buzzard, Greg Wolters, Hans Mukherjea	
	2	20070282896		2007-12-06	Wydroug, Zoe M. Ostermeier, Todd D. Abdelrahman, N	
	3	20090079699		2009-03-26	SUN, JIAN	
	4	20110126141		2011-05-26	King, Bennett M. Kaleas, Dimosthenis Dahl, Sten Jo	

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FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Raleigh, Gregory G.	
	Art Unit	3687	
	Examiner Name	RUDY, Andrew J	
	Attorney Docket Number	RALEP007	

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			
<small> ¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached. </small>			

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
	Filing Date	2009-03-02
	First Named Inventor	Raleigh, Gregory G.
	Art Unit	3687
	Examiner Name	RUDY, Andrew J
	Attorney Docket Number	RALEP007

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

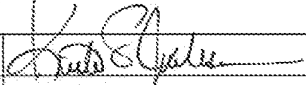
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2012-08-09
Name/Print	Krista S. Jacobsen	Registration Number	59374

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	13464323
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	69849
Filer:	Krista Susan Jacobsen/Ann Taylor
Filer Authorized By:	Krista Susan Jacobsen
Attorney Docket Number:	26WV-160488 [RALEP007]
Receipt Date:	09-AUG-2012
Filing Date:	02-MAR-2009
Time Stamp:	23:22:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	TranF.pdf	367827 <small>ae5a1f12b8e049510384b446c83e68348a77c13a</small>	no	1

Warnings:

Information:

2	Transmittal Letter	TransL.pdf	299622 6dbe8b0404189f1fe88d49b5ee35be03feff37a9	no	2
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	998101 c98ce24f806c011f7aefd06462ee724c224d8af9	no	5
Warnings:					
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<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Doc Code: TRAN.LET

Document Description: Transmittal Letter

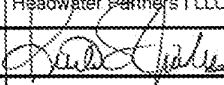
PTO/SB/21 (07-09)

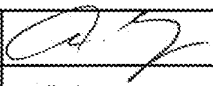
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TRANSMITTAL FORM	Application Number	12/380,780
	Filing Date	March 2, 2009
	First Named inventor	Raleigh, Gregory G.
	Art Unit	3687 Cont. No. 1775
	Examiner Name	Rudy, Andrew J
(to be used for all correspondence after initial filing)		
Total Number of Pages in This Submission	Attorney Docket Number	RALEP007

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☒ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☐ Other Enclosure(s) (please identify below):
Remarks You are authorized to charge any additional fee required or credit any overpayment to Deposit Account No. 50-5876.		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	Headwater Partners I LLC	
Signature		
Printed name	Krista S. Jacobsen	
Date	August 8, 2012	Reg. No. 59,374

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Signature	
Typed or printed name	Ann Taylor
Date	August 8, 2012

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Examiner:

Gregory G. Raleigh

Andrew J. Rudy

Serial No. 12/380,780

Art Unit: 3687

Filed: March 2, 2009

Conf. No.: 1775

Title: Automated Device Provisioning and Activation

Mail Stop Petitions
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT PURSUANT TO
37 C.F.R. §§ 1.97-1.98**

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56 and pursuant to 37 CFR §§ 1.97-1.98, Applicant hereby notifies the U.S. Patent and Trademark Office of the references listed on the enclosed Form PTO-SB/08A. Pursuant to the USPTO's waiver of the requirements under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent, we are not submitting copies of U.S. patents and/or patent publications cited.

The present Information Disclosure Statement is being filed before receiving an office action after the filing of an RCE. Accordingly, no certification or fee is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant reserves the right to dispute any of the listed documents as prior art during examination. Furthermore, Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. The submission of this Information Disclosure Statement is not to be

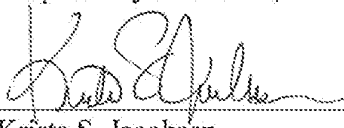
construed as a representation that a search has been made or that no other material information may exist.

The Examiner is requested to initial the enclosed Form PTO/SB/08A and return a copy thereof to the undersigned.

No fee is believed to be due relative to this submission, but if for any reason an insufficient fee has been paid, please charge the insufficiency to Deposit Account No. 50-5876.

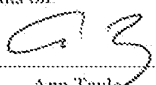
Respectfully submitted,

Date: August 9, 2012

By: 
Krista S. Jacobsen
Reg. No. 59,374
Head Counsel
Headwater Partners I LLC
350 Marine Parkway, Suite 300
Redwood Shores, CA 94065
(650) 517-2798

CERTIFICATE OF ELECTRONIC TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being filed electronically via EFS-Web addressed to the Commissioner for Patents on:

Date: August 9, 2012 By: 
Ann Taylor

AUG 08 2012

PTO/SB/80 (11-08)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

107265

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

107265

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone			Email

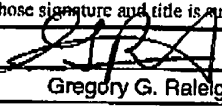
Assignee Name and Address:

Headwater Partners I LLC
350 Marine Parkway, Suite 300
Redwood City, CA 94065 U.S.A.

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	July 5, 2012
Name	Gregory G. Raleigh	Telephone	650-517-2781
Title	Manager		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.17 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/98 (08-08)

Approved for use through 08/30/2008. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Gregory G. RaleighApplication No./Patent No.: 12/380,780Filed/Issue Date: March 2, 2009Entitled: Automated Device Provisioning and Activation

Headwater Partners I LLC

(Name of Assignee)

a limited liability company

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
 2. ☐ an assignee of less than the entire right, title and interest
 (The extent (by percentage) of its ownership interest is _____ %)

In the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 022796, Frame 0779, or for which a copy therefore is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Krista S. Jacobsen
Signature

August 8, 2012

Date

Krista S. Jacobsen, Reg. No. 59,374

Printed or Typed Name

650-517-2798

Telephone Number

Attorney of Record

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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CENTRAL FAX CENTER
AUG 08 2012

Date: August 8, 2012
Send To: Commissioner for Patents
Fax No.: 571-273-8300
From: Krista S. Jacobsen, Head Counsel, Headwater Partners I LLC
Phone Number: 650-517-2798

Total Pages Including Cover: 3

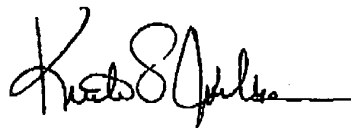
Fax

Sir:

Following this cover sheet, please find form SB/80, granting power of attorney to prosecute applications before the USPTO to practitioners associated with the Customer Number 107265, and form SB/96, a statement under 37 C.F.R. § 3.73(b) establishing the right of assignee Headwater Partners I LLC to take action in application number 12/380,780.

Please let me know if you need any additional information to complete the Customer Number change in the application.

Sincerely,



Krista S. Jacobsen
Head Counsel, Headwater Partners I LLC
Reg. No. 59,374

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Request
for
Continued Examination (RCE)
Transmittal**Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

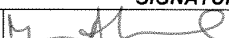
Application Number	12/380,780	
Filing Date	March 2, 2009	
First Named Inventor	Gregory G. Raleigh	
Art Unit	3687	Conf. No. 1775
Examiner Name	Andrew J. Rudy	
Attorney Docket Number	26WV-160488 [RALEP007]	

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).
- a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
- i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ii. ☐ Other _____
- b. ☒ Enclosed
- i. ☒ Amendment/Response (4 pgs.)
- ii. ☐ Affidavit(s)/ Declaration(s)
- iii. ☒ Information Disclosure Statement (IDS) (6 pgs.)
- iv. ☐ Other _____
2. **Miscellaneous**
- Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a
- a. ☐ period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- b. ☐ Other _____
3. **Fees**
- The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to
- a. ☒ Deposit Account No. 50-4561
- i. ☒ RCE fee required under 37 CFR 1.17(e)
- ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)
- iii. ☐ Other _____
- b. ☐ Check in the amount of \$ _____ enclosed
- c. ☐ Payment by credit card (Form PTO-2038 enclosed)

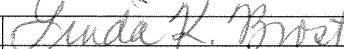
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature		Date	July 9, 2012
Name (Print/Type)	Marc A. Sockol	Registration No.	40,823

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being filed electronically via EFS-Web addressed to the Commissioner for Patents on the date shown below:

Signature		Date	July 9, 2012
Name (Print/Type)	Linda K. Brost		

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

American LegalNet, Inc.
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Gregory G. Raleigh	Examiner: Andrew J. Rudy
Serial No.: 12/380,780	Art Unit: 3687
Filed: March 2, 2009	Conf. No.: 1775
Title: Automated Device Provisioning and Activation	

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE WITH RCE

Sir:

In response to the Final Office Action dated May 10, 2012, the deadline for response ending on August 10, 2012 with the enclosed RCE, please consider the following remarks:

REMARKS

Claims 1-64 were pending and rejected. Reconsideration is respectfully requested.

In section 3, the Examiner rejected claims 1-64 under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. In particular, the Examiner stated that claims 1, 24-26, 63, and 64 include limitations that are not clearly supported from the descriptive portion of the specification nor the drawing figures.

In section 5, the Examiner rejected claims 1-64 under 35 U.S.C. § 112, second paragraph, as being indefinite for the reasons described in section 3.

Applicant thanks the Examiner for the telephonic interview of July 5, 2012, during which the Examiner, the undersigned, and Krista S. Jacobsen, Head Counsel for the assignee, discussed the 35 USC § 112 rejections.

During the interview, Applicant directed the Examiner's attention to support in the application as follows:

In support of "one or more processors of an end-user device," Applicant directed the Examiner's attention to paragraph [00134].

In support of "receive an indication of a user intention to access a first data service," Applicant directed the Examiner's attention to Figure 44A.

In support of "await a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device," Applicant directed the Examiner's attention to Figure 44B.

In support of “provide at least limited temporary access to the first data service before receiving the response from the network element,” Applicant directed the Examiner’s attention to paragraph [00466].

In support of “memory of the end-user device coupled to the processor,” Applicant directed the Examiner’s attention to Figure 9 and paragraph [0069].

Agreement was reached that all the claims are supported and definite, and that Applicant has overcome the 35 USC § 112, first and second paragraph, rejections. Having overcome all outstanding rejections, Applicant respectfully requests a notice of allowance.

Because all outstanding rejections were overcome without amending the claims, Applicant respectfully suggests that, if the Examiner were to perform an updated prior art search to supplement the search performed on May 7, 2012, and subsequently raise new rejections or objections and issue an Office Action, it would not be proper for the Office Action to be final; instead, the Office Action should be non-final so that Applicant has an opportunity to respond to the new rejections that could have been earlier raised and since any new rejections would not have been necessitated by Applicant’s response.

CONCLUSION

The Applicant respectfully requests entry of these amendments as provided herein. The application is believed to be in condition for allowance, and a Notice of Allowance is hereby respectfully requested. If the Examiner has any questions or needs any additional information, the Examiner is invited to telephone the undersigned.

The Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account 50-4561.

Respectfully submitted,

Date: July 9, 2012

By: 

Marc A. Sockol, Reg. No. 40,823
Attorney for Applicants
Customer Number 69849
Sheppard, Mullin, Richter & Hampton LLP
379 Lytton Avenue
Palo Alto, CA 94301-1432
Telephone: (650) 815-2600

CERTIFICATE OF ELECTRONIC TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being filed electronically via EFS-Web addressed to the Commissioner for Patents on:

Date: July 9, 2012

By: 

Linda K. Brost

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
	Attorney Docket Number	26WV-160488 [RALEP007]	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6078953		2000-06-20	VAID et al.	
	2	6829596		2004-12-07	FRAZEE, Steve	
	3	7620162		2009-11-17	AARON et al.	
	4	8023425		2011-09-20	RALEIGH, Gregory G.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20030013434		2003-01-16	ROSENBERG et al.	
	2	20030220984		2003-11-27	JONES et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26VV-160488 [RALEP007]

	3	20040021697		2004-02-05	BEATON et al.	
	4	20040249918		2004-12-09	SUNSHINE	
	5	20050048950		2005-03-03	MORPER	
	6	20060112016		2006-05-25	ISHIBASHI	
	7	20060258341		2006-11-16	MILLER et al.	
	8	20070061243		2007-03-15	RAMER et al.	
	9	20080010452		2008-01-10	HOLTZMAN et al.	
	10	20080060066		2008-03-06	WYNN et al.	
	11	20080062900		2008-03-13	RAO	
	12	20080164304		2008-07-10	NARASIMHAN	
	13	20080184127		39660	RAFEY et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26VV-160488 [RALEP007]

	14	20080207167		2008-08-28	BUGENHAGEN	
	15	20080221951		2008-09-11	STANFORTH et al.	
	16	20080311885		2008-12-18	DAWSON et al.	
	17	20080319879		2008-12-25	CARROLL et al.	
	18	20090013157		2009-01-08	BEAULE	
	19	20090068984		2009-03-12	BURNETT	
	20	20090286507		2009-11-19	O'NEAL et al.	
	21	20100191576		2010-07-29	RALEIGH, Gregory G.	
	22	20100191612		2010-07-29	RALEIGH, Gregory G.	
	23	20100192212		2010-07-29	RALEIGH, Gregory G.	
	24	20100195503		2010-08-05	RALEIGH, Gregory G.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
	Attorney Docket Number	26WV-160488 [RALEP007]	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2010088413	WO		2010-08-05	Headwater Partners I LLC		☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12380780
Filing Date	2009-03-02
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26VV-160488 [RALEP007]

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Marc A. Sockol/	Date (YYYY-MM-DD)	2012-07-09
Name/Print	Marc A. Sockol	Registration Number	40823

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		12380780		
Filing Date:		02-Mar-2009		
Title of Invention:		Automated device provisioning and activation		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Marc A. Sockol/Linda Brost		
Attorney Docket Number:		26WV-160488 [RALEP007]		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for continued examination	2801	1	465	465
Total in USD (\$)				465

Electronic Acknowledgement Receipt	
EFS ID:	13207866
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	69849
Filer:	Marc A. Sockol/Linda Brost
Filer Authorized By:	Marc A. Sockol
Attorney Docket Number:	26WV-160488 [RALEP007]
Receipt Date:	09-JUL-2012
Filing Date:	02-MAR-2009
Time Stamp:	18:50:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$465
RAM confirmation Number	6320
Deposit Account	504561
Authorized User	
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)</p>	

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		160488-RALEP007-RCEwithResponseandIDS-070912.pdf	253385	yes	12
			cf3e7fc6d4b63f4b2b5c68124966e6f6c3d8510f		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	1	
	Request for Continued Examination (RCE)		2	2	
	Amendment Submitted/Entered with Filing of CPA/RCE		3	3	
	Applicant Arguments/Remarks Made in an Amendment		4	6	
	Information Disclosure Statement (IDS) Form (SB08)		7	12	
Warnings:					
Information:					
2	Foreign Reference	F28-WO2010-088413A1.pdf	8105145	no	97
			eaf404d7cb2a7b4a94c9dc61b6560fc490913e29		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30416	no	2
			57666f437f8592abc4f9987062bd2bbb8f6eeec2		
Warnings:					
Information:					
Total Files Size (in bytes):			8388946		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	12/380,780
	Filing Date	March 2, 2009
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687 Conf. No. 1775
	Examiner Name	Andrew J. Rudy
Total Number of Pages in This Submission		109
Attorney Docket Number		26WV-160488 [RALEP007]

ENCLOSURES <small>(Check all that apply)</small>		
☐ Fee Transmittal Form ☐ Fee Attached ☒ Amendment/Response (4 pgs.) ☒ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☒ Information Disclosure Statement with PTO/SB/08a/b (6 pgs.) ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation, Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): Request for Continued Examination (RCE) (1 pg.); copy of cited foreign reference (97 pgs.)
<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Remarks You are hereby authorized to charge any additional fee required or credit any overpayment to Deposit Account No. 50-4561. </div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Sheppard, Mullin, Richter & Hampton LLP		Customer No. 69849
Signature			
Printed name	Marc A. Sockol		
Date	July 9, 2012	Reg. No.	40,823

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I hereby certify that this correspondence is being filed electronically via EFS-Web addressed to the Commissioner for Patents on the date shown below:			
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Typed or printed name	Linda K. Brost	Date	July 9, 2012

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
	Attorney Docket Number	26WV-160488 [RALEP007]	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5794142		1998-08-11	VANTTILA et al.	
	2	5903845		1999-05-11	BUHRMANN et al.	
	3	5933778		1999-08-03	BUHRMANN et al.	
	4	6317584		2001-11-13	ABU-AMARA et al.	
	5	6418147		2002-07-09	WIEDEMAN	
	6	6574465		2003-06-03	MARSH et al.	
	7	6765864		2004-07-20	NATARAJAN et al.	
	8	7024200		2006-04-04	McKENNA et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
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	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
	Attorney Docket Number	26WV-160488 [RALEP007]	

	9	7069248		2006-06-27	HUBER	
	10	7366497		2008-04-29	NAGATA	
	11	7388950		2008-06-17	ELSEY et al.	
	12	7450927		2008-11-11	CRESWELL et al.	
	13	7499537		2009-03-03	ELSEY et al.	
	14	7610328		2009-10-27	HAASE et al.	
	15	7650137		2010-01-19	JOBS et al.	
	16	7693720		2010-04-06	KENNEWICK et al.	
	17	7734784		2010-06-08	ARAUJO et al.	
	18	7747699		2010-06-29	PRUEITT et al.	
	19	7792708		2010-09-07	ALVA	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
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	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
	Attorney Docket Number	26WV-160488 [RALEP007]	

	20	7797401		2010-09-14	STEWART et al.	
	21	7822837		2010-10-26	URBAN et al.	
	22	7949529		2011-05-24	WEIDER et al.	
	23	8095666		2012-01-10	SCHMIDT et al.	
	24	8099077		2012-01-17	CHOWDHURY et al.	
	25	8099517		2012-01-17	JIA et al.	
	26	8170553		2012-05-01	BENNETT	

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	1	20030046396		2003-03-06	RICHTER et al.	
	2	20040107360		2004-06-03	HERRMANN et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
	Attorney Docket Number	26WV-160488 [RALEP007]	

	3	20070254675		2007-11-01	ZORLU OZER et al.	
	4	20080005285		2008-01-03	ROBINSON et al.	
	5	20080256593		2008-10-16	VINBERG	
	6	20090077622		2009-03-19	BAUM et al.	
	7	20090113514		2009-04-30	HU	
	8	20090288140		2009-11-19	HUBER et al.	
	9	20100042675		2010-02-18	FUJII	
	10	20100103820		2010-04-29	FULLER et al.	
	11	20100325420		2010-12-23	KANEKAR	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12380780
	Filing Date		2009-03-02
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
	Attorney Docket Number	26WV-160488 [RALEP007]	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
	Filing Date	2009-03-02
	First Named Inventor	Gregory G. Raleigh
	Art Unit	3687
	Examiner Name	Andrew J. Rudy
	Attorney Docket Number	26WV-160488 [RALEP007]

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Marc A. Sockol/	Date (YYYY-MM-DD)	2012-06-07
Name/Print	Marc A. Sockol	Registration Number	40823

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Electronic Patent Application Fee Transmittal				
Application Number:		12380780		
Filing Date:		02-Mar-2009		
Title of Invention:		Automated device provisioning and activation		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Marc A. Sockol/Anne Collette		
Attorney Docket Number:		26WV-160488 [RALEP007]		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt	
EFS ID:	12963611
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	69849
Filer:	Marc A. Sockol/Anne Collette
Filer Authorized By:	Marc A. Sockol
Attorney Docket Number:	26WV-160488 [RALEP007]
Receipt Date:	07-JUN-2012
Filing Date:	02-MAR-2009
Time Stamp:	18:15:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	5411
Deposit Account	504561
Authorized User	
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	26WV-160488_Transmittal.pdf	95064 3ff210aefaf25823e3a8508bef7a4418b28c7fa7	no	1

Warnings:

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2	Information Disclosure Statement (IDS) Form (SB08)	26WV-160488_IDS.pdf	613056 2b0caac0af59bb1b8a83e4ceae2221077622f49b	no	7
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Warnings:

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3	Fee Worksheet (SB06)	fee-info.pdf	30350 ac9914bf33db6a66bd03d4f6fbc2bac25d6413b	no	2
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Document Description: Transmittal Letter

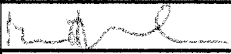
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	12/380,780	
	Filing Date	2009-03-02	
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687	
	Examiner Name	Andrew J. Rudy	
Total Number of Pages in This Submission	8	Attorney Docket Number	26WV-160488 [RALEP007]

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form	☐ Drawing(s)	☐ After Allowance Communication to TC
☐ Fee Attached	☐ Licensing-related Papers	☐ Appeal Communication to Board of Appeals and Interferences
☐ Amendment/Reply	☐ Petition	☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
☐ After Final	☐ Petition to Convert to a Provisional Application	☐ Proprietary Information
☐ Affidavits/declaration(s)	☐ Power of Attorney, Revocation	☐ Status Letter
☐ Extension of Time Request	☐ Change of Correspondence Address	☐ Other Enclosure(s) (please identify below):
☐ Express Abandonment Request	☐ Terminal Disclaimer	
☒ Information Disclosure Statement	☐ Request for Refund	
☐ Certified Copy of Priority Document(s)	☐ CD, Number of CD(s) _____	
☐ Reply to Missing Parts/Incomplete Application	☐ Landscape Table on CD	
☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Sheppard, Mullin, Richter & Hampton LLP		
Signature			
Printed name	Marc A. Sockol		
Date	<u>June 7, 2012</u>	Reg. No.	40823

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Typed or printed name	Anne Collette	Date	<u>6/7/12</u>

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/380,780	03/02/2009	Gregory G. Raleigh	26WV-160488 [RALEP007]	1775
69849 7590 05/10/2012 SHEPPARD, MULLIN, RICHTER & HAMPTON LLP 379 Lytton Avenue Palo Alto, CA 94301			EXAMINER RUDY, ANDREW J	
			ART UNIT 3687	PAPER NUMBER
			MAIL DATE 05/10/2012	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 12/380,780	Applicant(s) RALEIGH, GREGORY G.	
	Examiner ANDREW JOSEPH RUDY	Art Unit 3687	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 09 January 2012 and March 27, 2012.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5) ☒ Claim(s) 1-64 is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 1-64 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date ____.

4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date. ____.

5) ☐ Notice of Informal Patent Application

6) ☐ Other: ____.

DETAILED ACTION

1. Claims 1-64 are pending. Pursuant to Applicant's March 27, 2012 Amendment and REMARKS, the September 28, 2011 Non-Final rejection is withdrawn.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-64 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1, line 3, "one or more processors of an end-user device" is not clearly supported from the descriptive portion of the specification, nor the drawing figures.

Claim 1, line 6, "receive an indication of a user intention to access a first data service" is not clearly supported from the descriptive portion of the specification, nor the drawing figures.

Claim 1, lines 10-11, are not clearly supported from the descriptive portion of the specification, nor the drawing figures.

Claim 1, lines 12-13, are not clearly supported from the descriptive portion of the specification, nor the drawing figures.

Claim 1, line 14, "memory of the end-user device coupled to the processor" is not clearly supported from the descriptive portion of the specification, nor the drawing figures.

Claims 24-26, 63 and 64 contain similar issues.

Clarification is required.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-64 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The above noted comments regarding the 35 USC 112, first paragraph, lend the claims not clear and indefinite.

6. Applicant's January 9, 2012 and March 27, 2012 Information Disclosure Statements (IDS's) have been reviewed. Note the attached IDS's.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW JOSEPH RUDY whose telephone number is (571)272-6789. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Gart can be reached on 571-272-3955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Application/Control Number: 12/380,780
Art Unit: 3687

Page 5

Customer Service Representative or access to the automated information system, call
800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ANDREW JOSEPH RUDY/

Primary Examiner, Art Unit 3687

Search Notes 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	12/380,780	RALEIGH, GREGORY G.	
	Examiner	Art Unit	
	ANDREW JOSEPH RUDY	3687	

SEARCHED			
Class	Subclass	Date	Examiner
705	16,22,28,30,34	5/7/2012	AJR
726	2,3,6,7	5/7/2012	AJR

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
Continuity data reviewed.	5/7/2012	AJR

Approved for use through 07/31/2012. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

(Use as many sheets as necessary)

Complete if Known

Application Number	12/380,780
Filing Date	March 2, 2009
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26WV-160488 [RALEP007]

Sheet	1	of	2
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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ "Number" ⁴ "Kind Code" ⁵ (if known)				

Examiner Signature	/Andrew Joseph Rudy/	Date Considered	05/08/2012
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

2

Attorney Docket Number

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12/380,780

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First Named Inventor

Gregory G. Raleigh

Art Unit

3687

Examiner Name

Andrew J. Rudy

Attorney Docket Number

26WV-160488 [RALEP007]

NON PATENT LITERATURE DOCUMENTS

Examiner
Initials*Cite
No¹

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

 T^2

Search Report and Written Opinion mailed April 20, 2010 from International Serial Number PCT/US2010/021302 filed January 18, 2010.

Examiner
Signature

/Andrew Joseph Rudy/

Date _____

Considered

05/08/2012

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	12/380,780
Filing Date	March 2, 2009
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
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Sheet	1	of	3
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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		6,449,479	09-10-2002	SANCHEZ, Eduardo	
		6,603,969	08-05-2003	VUORISTO, et al.	
		6,785,889	08-31-2004	WILLIAMS	
		6,829,696	12-07-2004	BALMER et al	
		6,920,455	07-19-2005	WESCHLER, Paul	
		6,998,985	02-14-2006	REISMAN et al	
		7,027,408	04-11-2006	NABKEL, et al.	
		7,092,696	08-15-2006	HOSAIN et al	
		7,158,792	01-02-2007	COOK et al	
		7,180,855	02-20-2007	LIN	
		7,280,818	10-09-2007	CLAYTON, Steve	
		7,324,447	01-29-2008	MORFORD	
		7,421,004	09-02-2008	FEHER, Kamilo	
		7,450,591	11-11-2008	KORLING, et al.	
		7,486,185	02-03-2009	CULPEPPER et al	
		7,574,731	08-11-2009	FASCENDA, Anthony C.	
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		7,620,065	11-17-2009	FALARDEAU, Eric	
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Examiner Signature	/Andrew Joseph Rudy/	Date Considered	05/08/2012
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		Number-Kind Code ² (if known)			
		7,720,505	05-18-2010	GOPI, et al.	
		7,848,768	12-07-2010	OMORI, et al.	
		7,868,778	01-11-2011	KENWRIGHT, David Norris	
		7,873,705	01-18-2011	KALISH, Dan	
		7,882,029	02-01-2011	WHITE, Craig R.	
		7,941,184	05-10-2011	PRENDERGAST et al	
		7,975,184	07-05-2011	GOFF et al	
		7,986,935	07-26-2011	D'SOUZA et al	
		8,010,080	08-30-2011	THENTHIRUPERAI, et al.	
		8,010,081	08-30-2011	ROSKOWSKI, Steve	
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		2006/0014519	01-19-2006	MARSH et al	
		2006/0199608	09-07-2006	DUNN et al	
		2007/0093243	04-26-2007	KAPADEKAR et al	
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Examiner Signature	/Andrew Joseph Rudy/	Date Considered	05/08/2012
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		2007/0263558	11-15-2007	SALOMONE	
		2008/0049630	02-28-2008	KOZISEK et al	
		2008/0162637	07-03-2008	ADAMCZYK et al	
		2008/0167027	07-10-2008	GAUTIER et al	
		2008/0180391	07-16-2009	PETERSEN et al	
		2008/0318547	12-25-2008	BALLOU et al	
		2009/0197585	08-06-2009	AARON, Jeffrey A.	
		2009/0257379	10-15-2009	ROBINSON et al	
		2010/0082431	04-01-2010	RAMER et al	
		2010/0188975	07-29-2010	RALEIGH, Gregory G.	
		2010/0188990	07-29-2010	RALEIGH, Gregory G.	
		2010/0188992	07-29-2010	RALEIGH, Gregory G.	
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		2010/0191846	07-29-2010	RALEIGH, Gregory G.	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Gregory G. Raleigh	Examiner: Andrew J. Rudy
Serial No.: 12/380,780	Art Unit: 3687
Filed: March 2, 2009	Conf. No.: 1775
Title: Automated Device Provisioning and Activation	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE

Sir:

In response to the Office Action dated September 28, 2011, the deadline for response ending on March 28, 2012 with the enclosed request for a three-month extension of time, please amend the above-identified application as follows:

Listing of Claims begins on page 2.

Remarks start at page 17.

In the Claims:

1. (Currently amended) A system, comprising:

[[a]] one or more processors of an end-user ~~communications~~ device configured to:

obtain ~~store~~ a first set of one or more device credentials for activating a first group of one or more data services for the end-user ~~communications~~ device for a first service on a first network; and

receive an indication of a user intention to access a first data service of the one or more data services on a first network;

send an access request to access the first data service ~~network~~, the access request identifying ~~including~~ the first set of one or more device credentials;

await a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device; and

provide at least limited temporary access to the first data service before receiving the response from the network element; and

[[a]] memory of the end-user ~~communications~~ device coupled to the processor and configured to provide the processor with instructions.

2. (Currently amended) The system recited in claim 1, wherein the end-user ~~communications~~ device is a mobile communications device, and the first data service includes one or more Internet based services.

3. (Original) The system recited in claim 1, wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials.

4. (Original) The system recited in claim 1, wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials, and wherein the temporary credentials include a temporary phone number.

5. (Original) The system recited in claim 1, wherein the first set of device credentials include

one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class.

6. (Currently amended) The system recited in claim 1, wherein the first set of device credentials identifies ~~include~~ one or more provisioning actions.
7. (Currently amended) The system recited in claim 1, wherein the end-user ~~communications~~ device is provisioned with the first set of credentials prior to a point of sale of the end-user ~~communications~~ device.
8. (Currently amended) The system recited in claim 1, wherein the end-user ~~communications~~ device is provisioned with the first set of credentials after a point of sale of the end-user ~~communications~~ device and prior to an activation of the end-user ~~communications~~ device.
9. (Currently amended) The system recited in claim 1, wherein the end-user ~~communications~~ device is provisioned with the first set of credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon a first access request to the first network.
10. (Currently amended) The system recited in claim 1, wherein the end-user ~~communications~~ device is associated with a first service plan based at least in part on the first set of device credentials.
11. (Currently amended) The system recited in claim 1, wherein the processor of the end-user ~~communications~~ device is further configured to:

provision the end-user ~~communications~~ device for the first data service on the first network, based at least in part on the first set of device credentials.

12. (Currently amended) The system recited in claim 1, wherein the processor of the end-user ~~communications~~ device is further configured to:

receive a second set of device credentials for provisioning the end-user ~~communications~~ device for the first data service on the first network.

13. (Currently amended) The system recited in claim 1, wherein the processor of the end-user ~~communications~~ device is further configured to:

receive a second set of device credentials for provisioning the end-user ~~communications~~ device for the first data service on the first network, wherein the first set of device credentials is ~~is~~ temporary credentials, and the second set of device credentials are permanent credentials.

14. (Currently amended) The system recited in claim 1, wherein the processor of the end-user ~~communications~~ device is further configured to:

provision the end-user ~~communications~~ device for the first data service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials.

15. (Currently amended) The system recited in claim 1, wherein the processor of the end-user ~~communications~~ device is further configured to:

provision the end-user ~~communications~~ device for the first data service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the network provisioning function is provided by an activation server.

16. (Currently amended) The system recited in claim 1, wherein the processor of the end-user ~~communications~~ device is further configured to:

provision the end-user communications device for the first data service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials.

17. (Currently amended) The system recited in claim 1, wherein the processor of the end-user communications device is further configured to:

send an activation request to the first network to activate the end-user communications device for the first data service on the first network, the activation request including the first set of device credentials.

18. (Currently amended) The system recited in claim 1, wherein the processor of the end-user communications device is further configured to:

send an activation request to the first network to activate the end-user communications device for the first data service on the first network, the activation request including the first set of device credentials; and

send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials.

19. (Currently amended) The system recited in claim 1, wherein the processor of the end-user communications device is further configured to:

associate the end-user communications device with a service account based at least in part on the first set of device credentials, wherein the service account is a permanent service account or a temporary service account.

20. (Currently amended) The system recited in claim 1, wherein the processor of the end-user communications device is further configured to:

associate the end-user communications device with a service account based at least in part on the first set of device credentials, wherein the service account is a reactivated service account that was previously suspended.

21. (Currently amended) The system recited in claim 1, wherein the processor of the end-user communications device is further configured to:

suspend the end-user communications device upon an expiration of a period of time of inactivity.

22. (Currently amended) The system recited in claim 1, wherein the processor of the end-user communications device is further configured to:

suspend the end-user communications device upon an expiration of a period of time of inactivity; and

send a reactivation request to access the first data service after the expiration of the period of time of inactivity.

23. (Currently amended) The system recited in claim 1, wherein the processor of the end-user communications device is further configured to:

suspend the end-user communications device upon an expiration of a period of time of inactivity; and

send a reactivation request to access the first data service after the expiration of the period of time of inactivity using a second set of device credentials.

24. (Currently amended) A method, comprising:

storing a first set of one or more device credentials in a storage of an end-user communications device, the one or more device credentials for activating a first group of one or more services for the end-user communications device for a first service on a first network; and
receiving an indication of a user intention to access a first data service of the one or more data services on the first network;

sending an access request to access the first data service network, the access request identifying including the first set of one or more device credentials;

awaiting a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device; and

providing at least limited temporary access to the first data service before receiving the response from the network element.

25. (Currently amended) A computer program product, the computer program product being embodied in a computer readable storage medium and comprising computer instructions for:

storing a first set of one or more device credentials in a storage of an end-user communications device, the one or more device credentials for activating a first group of one or more services for the end-user communications device for a first service on a first network; and receiving an indication of a user intention to access a first data service of the one or more data services on the first network;

sending an access request to access the first data service network, the access request identifying including the first set of one or more device credentials;

awaiting a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device; and

providing at least limited temporary access to the first data service before receiving the response from the network element.

26. (Currently amended) A system, comprising:

a processor of a network device configured to:

receive an access request from a first end-user communications device, the access request identifying including a first set of device credentials and a first data service;

initiating a identify the first set of actions to activate billing for the first data service device credentials for the first end-user communications device; and

before completing the first set of actions, set a plurality of access control settings to activate at least limited temporary access by prepare for activation of the first end-user communications device to for the first data service on the first network in response to the access request, thereby providing user access to the first data service with reduced delay based at least in part on the first set of device credentials; and

a memory of the network device coupled to the processor and configured to provide the processor with instructions.

27. (Currently amended) The system recited in claim 26, wherein the network device is in communication with the first network, and the network device includes one or more of the following: an activation server; a billing system; an authentication, authorization and accounting (AAA) system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores charge data records (CDRs); a base station controller; and a base station.

28. (Original) The system recited in claim 26, wherein the network device is an activation server in communication with the first network.

29. (Original) The system recited in claim 26, wherein the network device is in communication with a device credential database.

30. (Currently amended) The system recited in claim 26, wherein the network device is in communication with a plurality of central provider networks for activating the first end-user communications device.

31. (Currently amended) The system recited in claim 26, wherein the first end-user communications device is a mobile communications device, and the first data service includes one or more Internet based services.

32. (Original) The system recited in claim 26, wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials.

33. (Original) The system recited in claim 26, wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials, and wherein the temporary credentials include a temporary phone number.

34. (Original) The system recited in claim 26, wherein the first set of device credentials

include one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class.

35. (Original) The system recited in claim 26, wherein the first set of device credentials include one or more provisioning actions.

36. (Currently amended) The system recited in claim 26, wherein the first end-user ~~communications~~ device is provisioned with the first set of credentials prior to a point of sale of the first end-user ~~communications~~ device.

37. (Currently amended) The system recited in claim 26, wherein the first end-user ~~communications~~ device is provisioned with the first set of credentials after a point of sale of the first end-user ~~communications~~ device and prior to activation of the first end-user ~~communications~~ device.

38. (Currently amended) The system recited in claim 26, wherein the first end-user ~~communications~~ device is provisioned with the first set of credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon an access request to the first data network.

39. (Original) The system recited in claim 26, wherein the processor of the network device is further configured to:

verify the first set of device credentials.

40. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

set a plurality of access control settings in one or more of the following: a billing system; an authentication, authorization and accounting (AAA) system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores charge data records (CDRs); a base station controller; and a base station.

41. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

set a plurality of service controls to prepare for activation of the first end-user communications device in one or more of the following: a billing system; an authentication, authorization and accounting (AAA) system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores charge data records (CDRs); a base station controller; and a base station.

42. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

set a plurality of service controls to prepare for activation of the first end-user communications device for the first data service on the first network, based at least in part on the first set of device credentials.

43. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

set a plurality of service controls to prepare for activation of the first end-user communications device for the first data service on the first network, based at least in part on the first set of device credentials, wherein the plurality of service controls include one or more service profiles for the first end-user communications device stored in an [[a]] authentication, authorization and accounting (AAA) function for the first network.

44. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user ~~communications~~ device with one or more provisioning requirements based at least in part on the first set of device credentials.

45. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user ~~communications~~ device with one or more provisioning actions based at least in part on the first set of device credentials, wherein the first set of device credentials are temporary credentials, and wherein the first set of device credentials are shared by a second communications device.

46. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user ~~communications~~ device with one or more provisioning actions based at least in part on the first set of device credentials; and

perform one or more provisioning actions prior to an activation of the first end-user ~~communications~~ device.

47. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user ~~communications~~ device with one or more provisioning actions based at least in part on the first set of device credentials; and

send to the first communications device a second set of device credentials for provisioning the first end-user ~~communications~~ device for the first data service on the first network.

48. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user ~~communications~~ device with one or more provisioning actions based at least in part on the first set of device credentials; and

send to the first end-user ~~communications~~ device a second set of device credentials for provisioning the first end-user ~~communications~~ device for the first data service on the first

network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials.

49. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user ~~communications~~ device with one or more provisioning actions based at least in part on the first set of device credentials; and

send to the first end-user ~~communications~~ device a second set of device credentials for provisioning the first end-user ~~communications~~ device for the first data service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials, and wherein the first set of device credentials are recycled for later use by a second end-user ~~communications~~ device.

50. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

associate the first end-user ~~communications~~ device with one or more provisioning actions based at least in part on the first set of device credentials, wherein the first set of device credentials is ~~is~~ shared by a second end-user ~~communications~~ device.

51. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

provision the first end-user ~~communications~~ device for the first data service on the first network by providing provisioning information based at least in part on the first set of device credentials.

52. (Currently amended) The system recited in claim 26, wherein the processor of the first end-user ~~communications~~ device is further configured to:

provision the first end-user ~~communications~~ device for the first data service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the network device includes an activation server or is in communication

with the activation server.

53. (Currently amended) The system recited in claim 26, wherein the processor of the first end-user communications device is further configured to:

provision the first end-user communications device for the first data service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials.

54. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

receive an activation request of the first end-user communications device for the first data service on the first network, the activation request including the first set of device credentials.

55. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

receive an activation request for the first end-user communications device for the first data service on the first network, the activation request including the first set of device credentials;
and

activate the first end-user communications device for the first data service on the first network, based at least in part on the first set of device credentials.

56. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

receive an activation request for the first end-user communications device for the first data service on the first network, the activation request including the first set of device credentials;

activate the first end-user communications device for the first data service on the first network, based at least in part on the first set of device credentials; and

send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials.

57. (Currently amended) The system recited in claim 26, wherein the processor of a network device is further configured to:

associate the first end-user ~~communications~~ device with a service account based at least in part on the first set of device credentials, wherein the service account is a permanent service account or a temporary service account.

58. (Currently amended) The system recited in claim 26, wherein the processor of a network device is further configured to:

associate the first end-user ~~communications~~ device with a service account based at least in part on the first set of device credentials, wherein the service account is a reactivated service account that was previously suspended.

59. (Currently amended) The system recited in claim 26, wherein the processor of a network device is further configured to:

associate the first end-user ~~communications~~ device with a service plan based at least in part on the first set of device credentials.

60. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

suspend the first end-user ~~communications~~ device upon an expiration of a period of time of inactivity.

61. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

suspend the first end-user ~~communications~~ device upon an expiration of a period of time of inactivity; and

redirect the first end-user ~~communications~~ device to a reactivation request to access the first data service after the expiration of the period of time of inactivity.

62. (Currently amended) The system recited in claim 26, wherein the processor of the network device is further configured to:

suspend the first end-user communications device upon an expiration of a period of time of inactivity; and

redirect the first end-user communications device to a reactivation request to access the first data service after the expiration of the period of time of inactivity, wherein the reactivation request is based at least in part on a second set of device credentials.

63. (Currently amended) A method, comprising:

receiving an access request from a first end-user communications device, the access request identifying including a first set of device credentials;

initiating a identifying the first set of actions to activate billing for the first data service device credentials for the first end-user communications device using a processor of a network device; and

before completing the first set of actions, setting a plurality of access control settings to activate at least a limited temporary access by prepare for activation of the first end-user communications device for the first data service on the first network in response to the access request, thereby providing user access to the first data service with reduced delay based at least in part on the first set of device credentials.

64. (Currently amended) A computer program product, the computer program product being embodied in a computer readable storage medium and comprising computer instructions for:

receiving an access request from a first end-user communications device, the access request identifying including a first set of device credentials;

initiating a identifying the first set of actions to activate billing for the first data service device credentials for the first end-user communications device using a processor of a network device; and

before completing the first set of actions, setting a plurality of access control settings to activate at least a limited temporary access by prepare for activation of the first end-user communications device for the first data service on the first network in response to the access

request, thereby providing user access to the first data service with reduced delay ~~based at least in part on the first set of device credentials.~~

REMARKS

Claims 1-64 were pending and rejected. Claims 1, 2, 6-27, 30, 31, 36-38 and 40-64 are being amended. Reconsideration is respectfully requested.

In paragraphs 2 and 3, the Examiner rejected claims 36 and 37 under 35 USC § 102 as anticipated by Kolehmainen.

Kolehmainen describes a system, apparatus, and method directed towards automatically managing an access account at an access point using near field communications and credentials stored on a mobile device. The mobile device receives, out-of-band, information for use in creating an account for accessing network resources from the access point. As the mobile device is brought into proximity with the access point, a wireless network connection is established using a near field communication (NFC) protocol. The information, which may include a user credential, account information, and so forth, is communicated to the access point. The access point employs the information to establish an account and create an environment from which access to the network resources may be obtained. Upon termination, the access point removes from itself any user specific data. The access point may provide also session related information useable in billing the user of the mobile device..

Claims 36 and 37 depend from independent claim 26, which as amended recites a network element configured to "before completing the first set of actions, set a plurality of access control settings to activate at least limited temporary access by the first end-user device to the first data service on the first network in response to the access request, thereby providing user access to the first data service with reduced delay."

Kohlemainen does not teach "before completing the first set of actions, set[ting] a plurality of access control settings to activate at least limited temporary access by the first end-user device to the first data service on the first network in response to the access request, thereby providing user access to the first data service with reduced delay."

Accordingly, Applicant respectfully submits that claims 36 and 37 are patentable over Kohlemainen, and respectfully requests the rejection be withdrawn.

In paragraphs 4 and 5, the Examiner rejected claims 5-18, 21-23, 27, 34-56 and 59-62 under 35 USC § 103 as obvious over Kolehmainen in view of Dua.

Dua describes a system and methodology for conducting financial and other transactions using a wireless device. Credentials may be selectively issued by issuers such as credit card companies, banks, and merchants to consumers permitting the specific consumer to conduct a transaction according to the authorization given as reflected by the credential or set of credentials. The mechanism for controlling and distributing credentials is through one or more publicly accessible networks such as the Internet wherein the system design and operating characteristics are in conformance with the standards and other specific requirements of the chosen network or set of networks. Credentials are ultimately supplied to a handheld device such as a mobile telephone via a wireless network. The user holding the credential may then use the handheld device to conduct the authorized transaction or set of transactions via, for example, a short range wireless link with a point-of-sale terminal.

Claims 5-18 and 21-23 depend from claim 1, which as amended recites an end-user device configured to "await a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device; and provide at least limited temporary access to the first data service before receiving the response from the network element"

Claims 27, 34-56 and 59-62 depend from claim 26, which as amended recites a network element configured to "before completing the first set of actions, set a plurality of access control settings to activate at least limited temporary access by the first end-user device to the first data service on the first network in response to the access request, thereby providing user access to the first data service with reduced delay."

Neither Kohlemainen nor Dua teaches an "end-user device" configured to "await a response to the access request from a network element indicating whether billing associated with the first data service is provisioned for the end-user device; and provide at least limited temporary access to the first data service before receiving the response from the network element" or a "network element" configured to "before completing the first set of actions, set a plurality of access control settings to activate at least limited temporary access by the first end-user device to the first data service on the first network in response to the access request, thereby providing user access to the first data service with reduced delay."

Accordingly, Applicant respectfully submits that claims 5-18, 21-23, 27, 34-56 and 59-62 are patentable over Kohlemainen in view of Dua, and respectfully requests the rejection be withdrawn.

The Examiner did not provide any explanation of a rejection of claims 1-4, 19, 20, 24,-26, 28-33, 57, 58, 63 and 64. However, claims 1 and 26 are patentable for the reasons described above. Claim 24 and 25 are being amended similarly to claim 1, and are believed to be patentable for at least the same reasons. Claims, 63 and 64 are being amended similarly to claim 26, and are believed to be patentable for at least the same reasons. Claims 2-4 and 19 depend from claim 1, and claims 28-33, 57 and 58 depend from claim 26. Thus, Applicant respectfully submits that they too are patentable for at least the same reasons.

CONCLUSION

The Applicants respectfully request entry of these amendments as provided herein. The application is believed to be in condition for allowance, and a Notice of Allowance is hereby respectfully requested. If the Examiner has any questions or needs any additional information, the Examiner is invited to telephone the undersigned.

The Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account 50-4561.

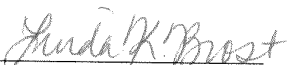
Respectfully submitted,

Date: March 27, 2012

By: 
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Linda K. Brost

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Gregory G. Raleigh

Application No.: 12/380,780

Filed: March 2, 2009

For: Automated Device Provisioning
and Activation

Examiner:

Andrew J. Rudy

Group Art Unit: 3687

Confirmation No.: 1775

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT PURSUANT TO
37 C.F.R. §§1.97-1.98 WITH FEE**

Sirs:

In accordance with the duty of disclosure under 37 CFR §1.56 and pursuant to 37 CFR §§1.97-1.98, Applicant hereby notifies the U.S. Patent and Trademark Office of the references listed on the enclosed Form PTO-SB/08A. Pursuant to the USPTO's waiver of the requirements under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent, we are not submitting copies of U.S. patents and/or patent publications cited.

The present Information Disclosure Statement is being submitted after receiving the first office action but before an action closing prosecution on the merits. Accordingly, please charge Deposit Account No. 50-4561 in the amount of \$180.00 as specified in 37 CFR §1.97(c) and 37 CFR §1.17(p).

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant reserves the right to dispute any of the listed documents as prior art during examination. Furthermore,

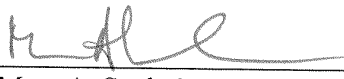
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The Examiner is requested to initial the enclosed Form PTO-SB/08A and return a copy thereof to the undersigned.

If for any reason an insufficient fee has been paid, please charge the insufficiency to Deposit Account No. 50-4561.

Respectfully submitted,

Date: March 27, 2012

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(Use as many sheets as necessary)

Complete if Known

Application Number	12/380,780
Filing Date	March 2, 2009
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26WV-160488 [RALEP007]

Sheet	1	of	2
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U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ "Number" ⁴ "Kind Code" ⁵ (if known)				

Examiner Signature		Date Considered	
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2

of

2

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Application Number

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Art Unit

3687

Examiner Name

Andrew J. Rudy

Attorney Docket Number

26WV-160488 [RALEP007]

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Search Report and Written Opinion mailed April 20, 2010 from International Serial Number PCT/US2010/021302 filed January 18, 2010.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference RALEP007PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US 10/21302	International filing date (day/month/year) 18 January 2010 (18.01.2010)	(Earliest) Priority Date (day/month/year) 28 January 2009 (28.01.2009)
Applicant HEADWATER PARTNERS I LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed.
☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1
☒ as suggested by the applicant.
☐ as selected by this Authority, because the applicant failed to suggest a figure.
☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figures is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 10/21302

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - H04M 1/66 (2010.01) USPC - 455/411 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(8): H04M 1/66 (2010.01) USPC: 455/411 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 455/26.1, 403, 410-411; 713/150, 155-156; 726/22-23; 380/247-250 (keyword limited - see terms below) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(PGPB, USPT, EPAB, JPAB); Google; Search Terms: device provision, machine provision, provision, equipping, supplying, furnishing, providing, storing, automat device, computerized device, programmed device, machine, communicat device, communicat machine, processor, CPU, microprocessor, central processing unit, access, request, stor, memor, c																				
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X ---</td> <td>US 2006/0183462 A1 (KOLEHMAINEN) 17 August 2006 (17.08.2006), entire document, especially abstract, para. [0001], [0004]-[0007], [0013], [0017]-[0018], [0021], [0026], [0030], [0033], [0035]-[0036], [0038]-[0039], [0041], [0043], [0047], [0060]-[0061], and [0068].</td> <td>1-4, 19-20, 24-26, 28-33, 57-58, 63-64</td> </tr> <tr> <td>Y</td> <td>US 2006/0165060 A1 (DUA) 27 July 2006 (27.07.2006), entire document, especially abstract, para. [0013], [0016], [0018], [0026], [0035], [0041], [0044], [0048], [0051], [0057]-[0058], [0123], [0128], [0156], [0177], [0180], [0188], [0193], [0199], [0212], [0231], [0246], [0248], [0272], [0280], [0288]-[0289], [0303], [0307], [0341], [0344], [0346], [0361], [0383], [0385], [0400]-[0402], [0405], [0410], [0417], [0425], [0427], [0448], [0450], [0471], [0487], [0490]-[0492], [0498], [0518], [0522], [0533], and [0534].</td> <td>5-18, 21-23, 27, 34-56, 59-62</td> </tr> <tr> <td>Y</td> <td>US 2006/0165060 A1 (DUA) 27 July 2006 (27.07.2006), entire document, especially abstract, para. [0013], [0016], [0018], [0026], [0035], [0041], [0044], [0048], [0051], [0057]-[0058], [0123], [0128], [0156], [0177], [0180], [0188], [0193], [0199], [0212], [0231], [0246], [0248], [0272], [0280], [0288]-[0289], [0303], [0307], [0341], [0344], [0346], [0361], [0383], [0385], [0400]-[0402], [0405], [0410], [0417], [0425], [0427], [0448], [0450], [0471], [0487], [0490]-[0492], [0498], [0518], [0522], [0533], and [0534].</td> <td>5-18, 21-23, 27, 34-56, 59-62</td> </tr> <tr> <td>A</td> <td>US 2008/0177998 A1 (APSANGI et al.) 24 July 2008 (24.07.2008), entire document</td> <td>1-64</td> </tr> <tr> <td>A</td> <td>US 2008/0064367 A1 (NATH et al.) 13 March 2008 (13.03.2008), entire document</td> <td>1-64</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X ---	US 2006/0183462 A1 (KOLEHMAINEN) 17 August 2006 (17.08.2006), entire document, especially abstract, para. [0001], [0004]-[0007], [0013], [0017]-[0018], [0021], [0026], [0030], [0033], [0035]-[0036], [0038]-[0039], [0041], [0043], [0047], [0060]-[0061], and [0068].	1-4, 19-20, 24-26, 28-33, 57-58, 63-64	Y	US 2006/0165060 A1 (DUA) 27 July 2006 (27.07.2006), entire document, especially abstract, para. [0013], [0016], [0018], [0026], [0035], [0041], [0044], [0048], [0051], [0057]-[0058], [0123], [0128], [0156], [0177], [0180], [0188], [0193], [0199], [0212], [0231], [0246], [0248], [0272], [0280], [0288]-[0289], [0303], [0307], [0341], [0344], [0346], [0361], [0383], [0385], [0400]-[0402], [0405], [0410], [0417], [0425], [0427], [0448], [0450], [0471], [0487], [0490]-[0492], [0498], [0518], [0522], [0533], and [0534].	5-18, 21-23, 27, 34-56, 59-62	Y	US 2006/0165060 A1 (DUA) 27 July 2006 (27.07.2006), entire document, especially abstract, para. [0013], [0016], [0018], [0026], [0035], [0041], [0044], [0048], [0051], [0057]-[0058], [0123], [0128], [0156], [0177], [0180], [0188], [0193], [0199], [0212], [0231], [0246], [0248], [0272], [0280], [0288]-[0289], [0303], [0307], [0341], [0344], [0346], [0361], [0383], [0385], [0400]-[0402], [0405], [0410], [0417], [0425], [0427], [0448], [0450], [0471], [0487], [0490]-[0492], [0498], [0518], [0522], [0533], and [0534].	5-18, 21-23, 27, 34-56, 59-62	A	US 2008/0177998 A1 (APSANGI et al.) 24 July 2008 (24.07.2008), entire document	1-64	A	US 2008/0064367 A1 (NATH et al.) 13 March 2008 (13.03.2008), entire document	1-64
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☐ Further documents are listed in the continuation of Box C. ☐																				
* 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 application or patent 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 15 February 2010 (15.02.2010)		Date of mailing of the international search report 20 APR 2010																		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774																		

Form PCT/ISA/210 (second sheet) (July 2009)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

To: MICHAEL J. SCHALLOP VAN PELT, YI & JAMES LLP 10050 N. FOOTHILL BLVD. SUITE 200 CUPERTINO, CA 95014		Date of mailing (day/month/year) 20 APR 2010
Applicant's or agent's file reference RALEP007PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US 10/21302	International filing date (day/month/year) 18 January 2010 (18.01.2010)	
Applicant HEADWATER PARTNERS I LLC		

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:
 The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 8270

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to the protest against payment of (an) additional fee(s) under Rule 40.2,** the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774
--	---

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: MICHAEL J. SCHALLOP
VAN PELT, YI & JAMES LLP
10050 N. FOOTHILL BLVD.
SUITE 200
CUPERTINO, CA 95014

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year)

20 APR 2010

Applicant's or agent's file reference
RALEP007PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/US 10/21302

International filing date (day/month/year)
18 January 2010 (18.01.2010)

Priority date (day/month/year)
28 January 2009 (28.01.2009)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04M 1/66 (2010.01)
USPC - 455/411

Applicant HEADWATER PARTNERS I LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Date of completion of this opinion

17 February 2010 (17.02.2010)

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US 10/21302

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	5-18, 21-23, 27, 34-56, 59-62	YES
	Claims	1-4, 19-20, 24-26, 28-33, 57-58, 63-64	NO
Inventive step (IS)	Claims	None.	YES
	Claims	1-64	NO
Industrial applicability (IA)	Claims	1-64	YES
	Claims	None.	NO

2. Citations and explanations:

Claims 1-4, 19-20, 24-26, 28-33, 57-58, and 63-64 lack novelty under PCT Article 33(2) as being anticipated by US 2006/0183462 A1 (Kolehmainen).

Regarding claim 1, Kolehmainen teaches a system, comprising: a processor of a communications device configured to (The processor is in communication with the transceiver, and the memory is in communication with the processor and stores data and machine instructions that cause the processor, para [0007]): store a first set of device credentials for activating the communications device for a first service on a first network (credentials stored on a mobile device, abstract; managing an access account at an access point using near field communications and credentials stored on a mobile device, para [0001]; Mobile device 200 is also shown with two types of external notification mechanisms: LED 240 and audio interface 274. These devices may be directly coupled to power supply 270 so that when activated, para [0035]); and send an access request to the first network, the access request including the first set of device credentials (remote access manager 269 which is configured to manage access to and communication with another computing device, such as access point . . . Remote access manager 269 may obtain an appropriate credential from credential storage, para [0041]; to access and become authenticated to another computing device. Credentials may include, para [0038]); and a memory of the communications device coupled to the processor and configured to provide the processor with instructions (the memory is in communication with the processor and stores data and machine instructions that cause the processor to perform a plurality of operations. . . . receiving over the NFC network link from the mobile device a credential, para [0007]; As shown in the figure, mobile device 200 includes processor 260, memory 262, display 228, and keypad 232. Memory 262 generally includes both volatile memory (e.g., RAM) and non-volatile memory (e.g., ROM, Flash Memory, or the like), para [0033]).

Regarding claim 2, Kolehmainen further teaches the system wherein the communications device is a mobile communications device, and the first service includes one or more Internet based services (mobile device 104. Network 105 is enabled to employ any form of computer readable media for communicating information from one electronic device to another. Also, network 105 can include the Internet in addition to local area networks (LANs), wide area networks (WANs), para [0026]; network device 300. As illustrated in FIG. 3, network device 300 also can communicate with the Internet, para [0043]).

Regarding claim 3, Kolehmainen further teaches the system wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials (The access point employs provided information, potentially including a credential, to establish an account and create an environment from which access to the network resources may be obtained. Upon termination, the access point removes from itself any user specific data, para [0004]; the other computing device, automatically providing the end-user credential to the other computing device; if the mobile device is authenticated based, in part, on the end-user credential, enabling a login to a session with the other computing device, para [0005]; the mobile device a credential for use in authentication, wherein the mobile device is configured to provide the credential automatically upon establishment of the NFC network link, para [0006]; credentials that enable the mobile device to then request a login to the created environment including a temporary account. In one embodiment, this may include an ability to login at an operating system level using OS-level login, para [0061]; credentials stored on a mobile device. . . . mobile device may receive the information, including the credential, using virtually any mechanism, para [0017]).

Regarding claim 4, Kolehmainen further teaches the system wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials, and wherein the temporary credentials include a temporary phone number (devices that typically connect using a wireless communications medium such as cell phones, smart phones, para [0021]; communication links between networks may utilize analog telephone lines, para [0026]; Keypad 232 may be a push button numeric dialing pad (such as on a typical telephone), para [0033]).

-- Please See Supplemental Sheet --

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 10/21302

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V. 2. Citations and explanations:

Regarding claim 19, Kolehmainen further teaches the system wherein the processor of a communications device is further configured to: associate the communications device with a service account based at least in part on the first set of device credentials, wherein the service account is a permanent service account or a temporary service account (automatically managing an access account . . . creating an account for accessing network resources from the access point . . . a user credential, account information, and so forth, is communicated to the access point, abstract; automatically managing an access account at an access point using near field communications and credentials stored on a mobile device . . . a credential, to establish an account and create an environment from which access to the network resources may be obtained, para [0004]; automatically creating an access account for use, in part, to establish the session for accessing the computing resource, para [0005]; If the mobile device is authenticated based, at least in part, on the received credential, the method automatically creates an account environment for use in accessing the computing resource. The method further enables access to the account environment, and if the mobile device logs out of the account environment, securely removing the account environment and information associated with an end-user of the mobile device, para [0006]).

Regarding claim 20, Kolehmainen further teaches the system wherein the processor of a communications device is further configured to: associate the communications device with a service account based at least in part on the first set of device credentials, wherein the service account is a reactivated service account that was previously suspended (remote access manager 269 may, in one embodiment, perform other actions, including, requesting an account environment be established at the other computing device, obtaining access to the account environment, and enabling the end-user to communicate messages, . . . Remote access manager 269 may further ensure the clearance of data from the other computing devices when logging out of the other computing devices, para [0041]; the invention is not so limited, and login-creator 416 may also automatically create a secure account . . . Upon acknowledgement that the mobile device is authenticated, login-creator 416 may create a secured environment, . . . login-creator 416 may employ operating system root account access rights, para [0080]; a set of created login-credentials that enable the mobile device to then request a login to the created environment including a temporary account, para [0061]; a determination is made whether the end-user of the mobile devices indicates intent to log-off. . . process 500 may also include an exit, if the communications is considered to be idle, a time-out case has arisen, and the like, para [0068]).

Regarding claim 24, Kolehmainen teaches a method, comprising: storing a first set of device credentials in a storage of a communications device for activating the communications device for a first service on a first network (credentials stored on a mobile device, abstract; managing an access account at an access point using near field communications and credentials stored on a mobile device, para [0001]; Mobile device 200 is also shown with two types of external notification mechanisms: LED 240 and audio interface 274. These devices may be directly coupled to power supply 270 so that when activated, para [0035]); and sending an access request to the first network, the access request including the first set of device credentials (remote access manager 269 which is configured to manage access to and communication with another computing device, such as access point 102 of FIG. 1 through a PAN mechanism, such as NFC. Remote access manager 269 may, for example, be alerted by NFC daemon 271 that a PAN connection has been established with another computing device and that authentication is requested. Remote access manager 269 may obtain an appropriate credential from credential storage, para [0041]; to access and become authenticated to another computing device. Credentials may include any of a variety of information, which may be needed by the other computing device to create an account for accessing the other computing device, and through it, another computing device, para [0038]).

Regarding claim 25, Kolehmainen teaches a computer program product, the computer program product being embodied in a computer readable storage medium and comprising computer instructions for: storing a first set of device credentials in a storage of a communications device for activating the communications device for a first service on a first network (credentials stored on a mobile device, abstract; managing an access account at an access point using near field communications and credentials stored on a mobile device, para [0001]; Mobile device 200 is also shown with two types of external notification mechanisms: LED 240 and audio interface 274. These devices may be directly coupled to power supply 270 so that when activated, para [0035]); and sending an access request to the first network, the access request including the first set of device credentials (remote access manager 269 which is configured to manage access to and communication with another computing device, such as access point 102 of FIG. 1 through a PAN mechanism, such as NFC. Remote access manager 269 may, for example, be alerted by NFC daemon 271 that a PAN connection has been established with another computing device and that authentication is requested. Remote access manager 269 may obtain an appropriate credential from credential storage, para [0041]; to access and become authenticated to another computing device. Credentials may include any of a variety of information, which may be needed by the other computing device to create an account for accessing the other computing device, and through it, another computing device, para [0038]).

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Box V. 2. Citations and explanations:

Regarding claim 26, Kolehmainen teaches a system, comprising: a processor of a network device configured to (The processor is in communication with the transceiver, and the memory is in communication with the processor and stores data and machine instructions that cause the processor, para [0007]): receive an access request from a first communications device, the access request including a first set of device credentials (mobile device may receive the information, including the credential, para [0017]; remote access manager 269 which is configured to manage access to and communication with another computing device, such as access point 102 of FIG. 1 through a PAN mechanism, such as NFC. Remote access manager 269 may, for example, be alerted by NFC daemon 271 that a PAN connection has been established with another computing device and that authentication is requested. Remote access manager 269 may obtain an appropriate credential from credential storage, para [0041]; to access and become authenticated to another computing device. Credentials may include, para [0038]); identify the first set of device credentials for the first communications device (determining whether the mobile device is authentic based, at least in part on the received credential, and if the mobile device is authentic, para [0007]; The mobile device includes a data store that is configured to receive and to store an end-user credential); and set a plurality of access control settings to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials (for automatically managing an access account at an access point using near field communications and credentials stored on a mobile device, para [0017]); and a memory of the network device coupled to the processor and configured to provide the processor with instructions (the memory is in communication with the processor and stores data and machine instructions that cause the processor to perform a plurality of operations. . . receiving over the NFC network link from the mobile device a credential, para [0007]; As shown in the figure, mobile device 200 includes processor 260, memory 262, display 228, and keypad 232. Memory 262 generally includes both volatile memory (e.g., RAM) and non-volatile memory (e.g., ROM, Flash Memory, or the like), para [0033]).

Regarding claim 28, Kolehmainen further teaches the system wherein the network device is an activation server in communication with the first network (a server device operating as an access point that may be included in a system implementing the invention, para [0013]; the access point is a server, para [0017]).

Regarding claim 29, Kolehmainen further teaches the system wherein the network device is in communication with a device credential database (a database, para [0030]; databases, para [0039]; database programs, para [0047]).

Regarding claim 30, Kolehmainen further teaches the system wherein the network device is in communication with a plurality of central provider networks for activating the first communications device (As the mobile device is brought into proximity with the access point, a wireless network connection is established using, such as near field communication (NFC) protocol, or similar personal area network (PAN), para [0004]; Network interface 272 facilitates, for example, wireless connectivity between mobile device 200, and the outside world, via a communications carrier or service provider, para [0036]; mobile device 104. Network 105 is enabled to employ any form of computer readable media for communicating information from one electronic device to another. Also, network 105 can include the Internet in addition to local area networks (LANs), wide area networks (WANs), para [0026]).

Regarding claim 31, Kolehmainen further teaches the system wherein the first communications device is a mobile communications device, and the first service includes one or more Internet based services (mobile device 104. Network 105 is enabled to employ any form of computer readable media for communicating information from one electronic device to another. Also, network 105 can include the Internet in addition to local area networks (LANs), wide area networks (WANs), para [0026]; network device 300. As illustrated in FIG. 3, network device 300 also can communicate with the Internet, para [0043]).

Regarding claim 32, Kolehmainen further teaches the system wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials (The access point employs provided information, potentially including a credential, to establish an account and create an environment from which access to the network resources may be obtained. Upon termination, the access point removes from itself any user specific data, para [0004]; the other computing device, automatically providing the end-user credential to the other computing device; if the mobile device is authenticated based, in part, on the end-user credential, enabling a login to a session with the other computing device, para [0005]; the mobile device a credential for use in authentication, wherein the mobile device is configured to provide the credential automatically upon establishment of the NFC network link, para [0006]; credentials that enable the mobile device to then request a login to the created environment including a temporary account. In one embodiment, this may include an ability to login at an operating system level using OS-level login, para [0061]; credentials stored on a mobile device. . . mobile device may receive the information, including the credential, using virtually any mechanism, para [0017]).

Regarding claim 33, Kolehmainen further teaches the system wherein the first set of device credentials are permanent credentials, temporary credentials, or partial credentials, and wherein the temporary credentials include a temporary phone number (devices that typically connect using a wireless communications medium such as cell phones, smart phones, para [0021]; communication links between networks may utilize analog telephone lines, para [0026]; Keypad 232 may be a push button numeric dialing pad (such as on a typical telephone), para [0033]).

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Regarding claim 57, Kolehmainen further teaches the system wherein the processor of a network device is further configured to: associate the first communications device with a service account based at least in part on the first set of device credentials, wherein the service account is a permanent service account or a temporary service account (automatically managing an access account . . . creating an account for accessing network resources from the access point . . . a user credential, account information, and so forth, is communicated to the access point, abstract; automatically managing an access account at an access point using near field communications and credentials stored on a mobile device . . . a credential, to establish an account and create an environment from which access to the network resources may be obtained, para [0004]; automatically creating an access account for use, in part, to establish the session for accessing the computing resource, para [0005]; If the mobile device is authenticated based, at least in part, on the received credential, the method automatically creates an account environment for use in accessing the computing resource. The method further enables access to the account environment, and if the mobile device logs out of the account environment, securely removing the account environment and information associated with an end-user of the mobile device, para [0006]).

Regarding claim 58, Kolehmainen further teaches the system wherein the processor of a network device is further configured to: associate the first communications device with a service account based at least in part on the first set of device credentials, wherein the service account is a reactivated service account that was previously suspended (remote access manager 269 may, in one embodiment, perform other actions, including, requesting an account environment be established at the other computing device, obtaining access to the account environment, and enabling the end-user to communicate messages. . . . Remote access manager 269 may further ensure the clearance of data from the other computing devices when logging out of the other computing devices, para [0041]; the invention is not so limited, and login-creator 416 may also automatically create a secure account . . . Upon acknowledgement that the mobile device is authenticated, login-creator 416 may create a secured environment, . . . login-creator 416 may employ operating system root account access rights, para [0060]; a set of created login-credentials that enable the mobile device to then request a login to the created environment including a temporary account, para [0061]; a determination is made whether the end-user of the mobile devices indicates intent to log-off. . . process 500 may also include an exit, if the communications is considered to be idle, a time-out case has arisen, and the like, para [0068]).

Regarding claim 63, Kolehmainen teaches a method, comprising: receiving an access request from a first communications device, the access request including a first set of device credentials (mobile device may receive the information, including the credential, para [0017]; remote access manager 269 which is configured to manage access to and communication with another computing device, such as access point 102 of FIG. 1 through a PAN mechanism, such as NFC. Remote access manager 269 may, for example, be alerted by NFC daemon 271 that a PAN connection has been established with another computing device and that authentication is requested. Remote access manager 269 may obtain an appropriate credential from credential storage, para [0041]; to access and become authenticated to another computing device. Credentials may include, para [0038]); identifying the first set of device credentials for the first communications device using a processor of a network device (determining whether the mobile device is authentic based, at least in part on the received credential, and if the mobile device is authentic, para [0007]; The mobile device includes a data store that is configured to receive and to store an end-user credential); and setting a plurality of access control settings to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials (control the user's access to selected resources, para [0018]; for automatically managing an access account at an access point using near field communications and credentials stored on a mobile device, para [0017]; Mobile device 200 is also shown with two types of external notification mechanisms: LED 240 and audio interface 274. These devices may be directly coupled to power supply 270 so that when activated, para [0035]).

Regarding claim 64, Kolehmainen teaches a computer program product, the computer program product being embodied in a computer readable storage medium and comprising computer instructions for: receiving an access request from a first communications device, the access request including a first set of device credentials (mobile device may receive the information, including the credential, para [0017]; remote access manager 269 which is configured to manage access to and communication with another computing device, such as access point 102 of FIG. 1 through a PAN mechanism, such as NFC. Remote access manager 269 may, for example, be alerted by NFC daemon 271 that a PAN connection has been established with another computing device and that authentication is requested. Remote access manager 269 may obtain an appropriate credential from credential storage, para [0041]; to access and become authenticated to another computing device. Credentials may include, para [0038]); identifying the first set of device credentials for the first communications device (determining whether the mobile device is authentic based, at least in part on the received credential, and if the mobile device is authentic, para [0007]; The mobile device includes a data store that is configured to receive and to store an end-user credential); and setting a plurality of access control settings to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials (control the user's access to selected resources, para [0018]; for automatically managing an access account at an access point using near field communications and credentials stored on a mobile device, para [0017]; Mobile device 200 is also shown with two types of external notification mechanisms: LED 240 and audio interface 274. These devices may be directly coupled to power supply 270 so that when activated, para [0035]).

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Claims 5-18, 21-23, 27, 34-56, and 59-62 lack an inventive step under PCT Article 33(3) as being obvious over Kolehmainen, in view of US 2006/0165060 A1 (Dua).

Regarding claim 5, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the first set of device credentials include one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class. However, Dua teaches the system wherein the first set of device credentials include one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class (identification, and/or other credentials, para [0018]; credentials may be selectively issued by issuers such as credit card companies, banks, and merchants to consumers permitting the specific consumer to conduct a transaction according to the authorization given as reflected by the credential or set of credentials, para [0026]; credentials and confidential data, including but not limited to credit card, debit card, ATM card, loyalty card, driver's license, electronic ticket, coupons and other information. In addition, an E.164 phone number . . . an Internet address is also possible for the purposes mentioned above, para [0048]; his/her personal digital signature PIN. This last option requires a security module (SIM/WIM) in the terminal, para [0427]; credential issuers may use the MAC address . . . Credential issuers in this case would retain the MAC address for the wallet device in its user database, and validate the MAC address . . . credential issuer includes a new E.164 phone number, para [0487]; manufacturer, the financial institution, para [0013]; mobile operator or a "wallet service provider", para [0491]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the first set of device credentials include one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 6, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system recited wherein the first set of device credentials include one or more provisioning actions. However, Dua teaches the system recited wherein the first set of device credentials include one or more provisioning actions (applications can be provisioned to the terminal, para [0498]; application can be provisioned on the user's device . . . software provisioning system for wireless and wireline devices are important aspects, para [0199]; The ENUM Provisioner is an application for mobile operators, para [0272]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the first set of device credentials include one or more provisioning actions, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 7, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the communications device is provisioned with the first set of credentials prior to a point of sale of the communications device. However, Dua teaches the system wherein the communications device is provisioned with the first set of credentials prior to a point of sale of the communications device (point of sale terminal 860, via RF reader 820 can be used to capture and transmit an electronic credential from a wireless device, para [0405]; The card management system 830 validates the PIN or PIN offset . . . the point-of-sale, para [0410]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the communications device is provisioned with the first set of credentials prior to a point of sale of the communications device, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Regarding claim 8, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the communications device is provisioned with the first set of credentials after a point of sale of the communications device and prior to an activation of the communications device. However, Dua teaches the system wherein the communications device is provisioned with the first set of credentials after a point of sale of the communications device and prior to an activation of the communications device (store credentials, personal information, and other confidential information in the electronic wallet, . . . allows a user to access the entire "electronic wallet" from virtually any Internet-based channel such as a wireless device, a PC, or point-of-sale terminal, para [0533]; to activate the wallet application and to control the transmission of information to an external device via RFID (or some other short-range communication mechanism). A credential with a "reader key" . . . RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials, para [0383]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the communications device is provisioned with the first set of credentials after a point of sale of the communications device and prior to an activation of the communications device, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 9, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the communications device is provisioned with the first set of credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon a first access request to the first network. However, Dua teaches the system wherein the communications device is provisioned with the first set of credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon a first access request to the first network (manufacturing, personalizing, and fulfilling magnetic-stripe cards for issuance to customers. . . to generate a personal identification number (PIN) which may be mailed to the customer. This information or a subset thereof makes up the personalization file record that is transmitted by issuer cardholder system 120 to WCM 110 in connection with a credential issuance request according to the present invention, para [0058]; The ENUM Provisioner can be used to add NAPTR records to the ENUM database for user's that have enrolled in the mobile wallet service and activated their wallet on the phone, para [0280]; applications can be provisioned to the terminal using an over-the-air mechanism, para [0498]; a button in an RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials via RF, para [0383]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the communications device is provisioned with the first set of credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon a first access request to the first network, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 10, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the communications device is associated with a first service plan based at least in part on the first set of device credentials. However, Dua teaches the system wherein the communications device is associated with a first service plan based at least in part on the first set of device credentials (managing credentials on wireless device . . . multimedia services . . . communication services within a mobile operator's network, para [0051]; Public/Private Dialing Plans--supports both public and private dialing plans, para [0231]; Wireless Credential Manager (WCM) 510 is used . . . SIP proxy servers that act on behalf of Sample Bank and Bob's mobile operator (MobileCo) to facilitate session establishment. This typical arrangement, para [0128]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the communications device is associated with a first service plan based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 11, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network, based at least in part on the first set of device credentials. However, Dua teaches the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network, based at least in part on the first set of device credentials (the application can be provisioned on the user's device over-the-air. Once installed, the application can inform the Presence Service of its new status to allow it to inform the Sample Bank WCM that it is ready to communicate. The use of an Application Status in conjunction with a Presence Service and an over-the-air software provisioning system for wireless and wireline devices are important aspects of the present invention, para [0199]; The ENUM Provisioner . . . The mobile operator's existing user management system can enforce rules for validating users, activating services, billing, and other functions, para [0280]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network, based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Regarding claim 12, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: receive a second set of device credentials for provisioning the communications device for the first service on the first network. However, Dua teaches the system wherein the processor of the communications device is further configured to: receive a second set of device credentials for provisioning the communications device for the first service on the first network (holding a myriad of different electronic credentials, para [0288]; The open-architecture of the wallet platform allows credential issuers to deploy their own commerce-specific applications called "extensions". Extensions literally "extend" the capability of the wallet platform by enabling a new set of features defined by the credential issuer. Different credentials serve many unique purposes and are not all used in the same way, para [0289]; Credentials are ultimately supplied to a handheld device such as a mobile telephone via a wireless network. The user holding the credential may then use the handheld device to conduct the authorized transaction, abstract). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: receive a second set of device credentials for provisioning the communications device for the first service on the first network, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 13, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: receive a second set of device credentials for provisioning the communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials. However, Dua teaches the system wherein the processor of the communications device is further configured to: receive a second set of device credentials for provisioning the communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials (A financial institution may have specified via settings in the credential issuance record that a temporary PIN assigned by the financial institution be changed to a user designated PIN when it is first received. PIN changes for credentials that have issuer PINs, para [0400]; The address is permanently assigned to the hardware, so credential issuers may use the MAC address . . . Credential issuers in this case would retain the MAC address for the wallet device in its user database, and validate the MAC address . . . credential issuer includes a new E.164 phone number, para [0487]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: receive a second set of device credentials for provisioning the communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 14, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials. However, Dua teaches the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials (to store credentials, . . . the same functionality of the wallet application described above (operating on a wireless device), para [0533]; Opening these API functionalities on the JAVA side . . . applications can be provisioned to the terminal using an over-the-air mechanism, para [0498]; This functionality may be built into the Wallet Application or could rely on an API. For example, the SIP Profile API Specification, para [0522]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Box V. 2. Citations and explanations:

Regarding claim 15, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the network provisioning function is provided by an activation server. However, Dua teaches the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the network provisioning function is provided by an activation server (The ENUM Provisioner . . . mobile wallet service and activated, para [0280]; to store credentials, . . . The server-based wallet system, para [0533]; a server hosted and managed by the wallet service provider. The wallet server uses . . . to establish a username and password/PIN for web access to the account (the username and password/PIN are also tokens). The server-based wallet application . . . accessing the server-based wallet, para [0534]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the network provisioning function is provided by an activation server, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 16, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials. However, Dua teaches the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials (Primary and secondary credential categories, para [0307]; to classify different credentials within the wallet application . . . credentials directly under a primary category or under a secondary category, para [0344]; An issuer of credentials may specify the primary category and secondary category (if applicable) that a particular credential should be linked to in the wallet application's credential tree; this information can be specified in the credential issuance record that is sent by the issuer to the wallet application on the wireless device, para [0346]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: provision the communications device for the first service on the first network based on communications with a network provisioning function to receive provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 17, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: send an activation request to the first network to activate the communications device for the first service on the first network, the activation request including the first set of device credentials. However, Dua teaches the system wherein the processor of the communications device is further configured to: send an activation request to the first network to activate the communications device for the first service on the first network, the activation request including the first set of device credentials (the wireless device that can be used to activate the wallet application . . . an RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials . . . transmission of a credential that has a "reader key" and is approved for PIN-less transactions, para [0383]; a PIN to the user via an alternative channel in order to allow the user to decrypt and "activate" the credential, but may not require the PIN for use with every transaction, para [0401]; Other credential issuers may issue a credential to a wireless device, require the wallet PIN with every transaction, but also prompt the user for an issuer PIN (or PIN set with the issuer) on the POS terminal during each transaction, para [0402]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: send an activation request to the first network to activate the communications device for the first service on the first network, the activation request including the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Box V. 2. Citations and explanations:

Regarding claim 18, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: send an activation request to the first network to activate the communications device for the first service on the first network, the activation request including the first set of device credentials; and send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials. However, Dua teaches the system wherein the processor of the communications device is further configured to: send an activation request to the first network to activate the communications device for the first service on the first network, the activation request including the first set of device credentials (A financial institution may have specified via settings in the credential issuance record that a temporary PIN assigned by the financial institution be changed to a user designated PIN when it is first received. PIN changes for credentials that have issuer PINs, para [0400]; The address is permanently assigned to the hardware, so credential issuers may use the MAC address. . . . Credential issuers in this case would retain the MAC address for the wallet device in its user database, and validate the MAC address. . . . credential issuer includes a new E.164 phone number, para [0487]); and send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials (storing billing, para [0425]; billing address, . . . a credential that is transmitted to the wireless device, para [0180]; activating services, billing, and other functions, para [0280]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: send an activation request to the first network to activate the communications device for the first service on the first network, the activation request including the first set of device credentials; and send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 21, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity. However, Dua teaches the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity (a device status, user status, or application status might be captured as a Presence Status (for example "Device Status=Off-Hook", "User Status=Online", or "Application Status=Not Loaded"). Starting with a simple definition of "Online/Offline" status, Presence Status has been extended to include other context information around the status such as disposition (out-to-lunch, away-from the-computer) and activity status (on the phone, idle, etc.), para [0193]; Expiration date of credential, para [0303]; expiration date for usage, para [0341]; credentials were first issued and when issuers made other changes. This log captures, date/time, credential, and description of activity/change made by issuer, para [0490]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 22, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity; the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity. However, Dua teaches the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity (a device status, user status, or application status might be captured as a Presence Status (for example "Device Status=Off-Hook", "User Status=Online", or "Application Status=Not Loaded"). Starting with a simple definition of "Online/Offline" status, Presence Status has been extended to include other context information around the status such as disposition (out-to-lunch, away-from the-computer) and activity status (on the phone, idle, etc.), para [0193]; Expiration date of credential, para [0303]; expiration date for usage, para [0341]; credentials were first issued and when issuers made other changes. This log captures, date/time, credential, and description of activity/change made by issuer, para [0490]); and send a reactivation request to access the first service after the expiration of the period of time of inactivity (the user has re-asserted his identity and that it is ok to re-activate the credential on the device, para [0445]; initiating the process include the use of computer via the requesting party's ISP 178, . . . to initiate the credential issuance process may be either the device to receive the credential or another wireless device, para [0044]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity; the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Regarding claim 23, Kolehmainen teaches the system of claim 1 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity; and send a reactivation request to access the first service after the expiration of the period of time of inactivity using a second set of device credentials. However, Dua teaches the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity (a device status, user status, or application status might be captured as a Presence Status (for example "Device Status=Off-Hook", "User Status=Online", or "Application Status=Not Loaded"). Starting with a simple definition of "Online/Offline" status, Presence Status has been extended to include other context information around the status such as disposition (out-to-lunch, away-from-the-computer) and activity status (on the phone, idle, etc.). para [0193]; Expiration date of credential, para [0303]; expiration date for usage, para [0341]; credentials were first issued and when issuers made other changes. This log captures, date/time, credential, and description of activity/change made by issuer, para [0490]; and send a reactivation request to access the first service after the expiration of the period of time of inactivity using a second set of device credentials (make changes to a credential in the wallet application. Examples of changes could include, a change to the credential's expiration date, . . . In such cases, the issuer can connect to the wallet application with a valid key, make the appropriate changes to the stored credential, para [0450]; expiration date, . . . The issuer could also request a special code or PIN . . . certain input information could be used as a decryption key for a credential that is transmitted to the wireless device, para [0180]; Credential issuers will have the ability to remotely cancel credentials, re-issue credentials, or manage credentials in other ways on a wireless device. During the initial issuance process, credential issuers will send a unique "credential issuer key" along with the credential they are issuing to the wallet application, para [0448]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: suspend the communications device upon an expiration of a period of time of inactivity; and send a reactivation request to access the first service after the expiration of the period of time of inactivity using a second set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 27, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the network device is in communication with the first network, and the network device includes one or more of the following: an activation server; a billing system; a AAA system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores CDRs; a base station controller; and a base station. However, Dua teaches the system wherein the network device is in communication with the first network, and the network device includes one or more of the following: an activation server (the SIP server, para [0248]; ENUM database for user's that have enrolled in the mobile wallet service and activated . . . activating services, para [0280]); a billing system (billing, para [0280]; storing billing, para [0425]); a AAA system (WCM 110 supports authentication, authorization, and accounting, para [0248]); a gateway (gateway service, para [0123]); a router (the proxy is working on behalf of WCM 510 to route the INVITE to the destination, para [0156]; proxy servers can make flexible "routing decisions", para [0177]); a switch (The POS at the grocery store will switch the transaction to its central host, para [0417]); a network server (the issuer's web server, para [0044]; SIP proxy server, para [0518]); a device that generates, aggregates, manages or stores CDRs (The WCM logging service also permits issuers to create, encode, and export communication records (CDRs) with end-user wallet applications for export into user management systems and visibility by issuer customer care departments. WCM 110 supports flexible configuration of CDR extensions, para [0246]); a base station controller (wireless device 200 is preferably a device that is capable of wirelessly connecting to the Internet using network protocols such as GSM/GPRS, CDMA2000, W-CDMA, EDGE, HDR, 1xRTT, UMTS, IMT-2000, 802.11a, 802.11b, 802.11g, or BLUETOOTH or other relevant protocols developed hereinafter. Preferably, wireless device, para [0041]); and a base station (Common short-range communications network standards defined by the International Electrical and Electronic Engineers association (IEEE) include 802.11a, 802.11b, and 802.11g. Many mobile devices employ these IEEE network standards to establish wireless LAN (WLAN) connectivity. Various other short-range technologies currently in use for device-to-device communication include Bluetooth and infra-red, para [0016]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the network device is in communication with the first network, and the network device includes one or more of the following: an activation server; a billing system; a AAA system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores CDRs; a base station controller; and a base station, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Box V. 2. Citations and explanations:

Regarding claim 34, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the first set of device credentials include one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class. However, Dua teaches the system wherein the first set of device credentials include one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class (identification, and/or other credentials, para [0018]; credentials may be selectively issued by issuers such as credit card companies, banks, and merchants to consumers permitting the specific consumer to conduct a transaction according to the authorization given as reflected by the credential or set of credentials, para [0026]; credentials and confidential data, including but not limited to credit card, debit card, ATM card, loyalty card, driver's license, electronic ticket, coupons and other information. In addition, an E.164 phone number . . . an Internet address is also possible for the purposes mentioned above, para [0048]; his/her personal digital signature PIN. This last option requires a security module (SIMWIM) in the terminal, para [0427]; credential issuers may use the MAC address . . . Credential issuers in this case would retain the MAC address for the wallet device in its user database, and validate the MAC address . . . credential issuer includes a new E.164 phone number, para [0487]; manufacturer, the financial institution, para [0013]; mobile operator or a "wallet service provider", para [0491]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the first set of device credentials include one or more of the following: a temporarily assigned device identifier, a phone number, a device identification, a device security signature, a subscriber identity module (SIM), a device type identifier, an IP address, a MAC address, a device group, a device class, a device service owner, a service provider, a virtual service provider, a device manufacturer, a device distributor, a service distributor, one or more service processor settings or version, a user identification, a user type, a user group, and a user class, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 35, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the first set of device credentials include one or more provisioning actions. However, Dua teaches the system wherein the first set of device credentials include one or more provisioning actions (applications can be provisioned to the terminal, para [0498]; application can be provisioned on the user's device . . . software provisioning system for wireless and wireline devices are important aspects, para [0199]; The ENUM Provisioner is an application for mobile operators, para [0272]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the first set of device credentials include one or more provisioning actions, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 36, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the first communications device is provisioned with the first set of credentials prior to a point of sale of the communications device. However, Dua teaches the system wherein the first communications device is provisioned with the first set of credentials prior to a point of sale of the communications device (point of sale terminal 860, via RF reader 820 can be used to capture and transmit an electronic credential from a wireless device, para [0405]; The card management system 830 validates the PIN or PIN offset . . . the point-of-sale, para [0410]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the first communications device is provisioned with the first set of credentials prior to a point of sale of the communications device, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 37, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the first communications device is provisioned with the first set of credentials after a point of sale of the communications device and prior to activation of the communications device. However, Dua teaches the system wherein the first communications device is provisioned with the first set of credentials after a point of sale of the communications device and prior to activation of the communications device (store credentials, personal information, and other confidential information in the electronic wallet, . . . allows a user to access the entire "electronic wallet" from virtually any Internet-based channel such as a wireless device, a PC, or point-of-sale terminal, para [0533]; to activate the wallet application and to control the transmission of information to an external device via RFID (or some other short-range communication mechanism). A credential with a "reader key" . . . RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials, para [0383]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the first communications device is provisioned with the first set of credentials after a point of sale of the communications device and prior to activation of the communications device, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Box V. 2. Citations and explanations:

Regarding claim 38, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the first communications device is provisioned with the first set of credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon an access request to the first network. However, Dua teaches the system wherein the first communications device is provisioned with the first set of credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon an access request to the first network (manufacturing, personalizing, and fulfilling magnetic-stripe cards for issuance to customers. . . to generate a personal identification number (PIN) which may be mailed to the customer. This information or a subset thereof makes up the personalization file record that is transmitted by issuer cardholder system 120 to WCM 110 in connection with a credential issuance request according to the present invention, para [0058]; The ENUM Provisioner can be used to add NAPTR records to the ENUM database for user's that have enrolled in the mobile wallet service and activated their wallet on the phone, para [0280]; applications can be provisioned to the terminal using an over-the-air mechanism, para [0498]; a button in an RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials via RF, para [0383]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the first communications device is provisioned with the first set of credentials at a time of manufacture, during distribution, at a point of sale, after a point of sale, or upon an access request to the first network, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 39, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: verify the first set of device credentials. However, Dua teaches the system wherein the processor of the network device is further configured to: verify the first set of device credentials (Another type of PIN verification scheme for credentials stored in the wallet application is unique to the system of the present invention. This on-line verification technique, para [0404]; the over-the-air PIN verification scheme, para [0035]; transference of credentials . . . verify S/MIME certificates, para [0212]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: verify the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 40, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: set a plurality of access control settings in one or more of the following: a billing system; a AAA system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores CDRs; a base station controller; and a base station. However, Dua teaches the system wherein the processor of the network device is further configured to: set a plurality of access control settings in one or more of the following: a billing system (billing, para [0280]; storing billing, para [0425]); a AAA system (WCM 110 supports authentication, authorization, and accounting, para [0248]); a gateway (gateway service, para [0123]); a router (the proxy is working on behalf of WCM 510 to route the INVITE to the destination, para [0156]; proxy servers can make flexible "routing decisions", para [0177]); a switch (The POS at the grocery store will switch the transaction to its central host, para [0417]); a network server (the issuer's web server, para [0044]; SIP proxy server, para [0518]); a device that generates, aggregates, manages or stores CDRs (The WCM logging service also permits issuers to create, encode, and export communication records (CDRs) with end-user wallet applications for export into user management systems and visibility by issuer customer care departments. WCM 110 supports flexible configuration of CDR extensions, para [0246]); a base station controller (wireless device 200 is preferably a device that is capable of wirelessly connecting to the Internet using network protocols such as GSM/GPRS, CDMA2000, W-CDMA, EDGE, HDR, 1xRTT, UMTS, IMT-2000, 802.11a, 802.11b, 802.11g, or BLUETOOTH or other relevant protocols developed hereinafter. Preferably, wireless device, para [0041]); and a base station (Common short-range communications network standards defined by the International Electrical and Electronic Engineers association (IEEE) include 802.11a, 802.11b, and 802.11g. Many mobile devices employ these IEEE network standards to establish wireless LAN (WLAN) connectivity. Various other short-range technologies currently in use for device-to-device communication include Bluetooth and infra-red, para [0016]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: set a plurality of access control settings in one or more of the following: a billing system; a AAA system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores CDRs; a base station controller; and a base station, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Continuation of:

Box V. 2. Citations and explanations:

Regarding claim 41, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: set a plurality of access control settings in one or more of the following: a billing system; a AAA system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores CDRs; a base station controller; and a base station. However, Dua teaches the system wherein the processor of the network device is further configured to: set a plurality of service controls to prepare for activation of the first communications device in one or more of the following: a billing system (billing, para [0280]; storing billing, para [0425]); a AAA system (WCM 110 supports authentication, authorization, and accounting, para [0248]); a gateway (gateway service, para [0123]); a router (the proxy is working on behalf of WCM 510 to route the INVITE to the destination, para [0156]; proxy servers can make flexible "routing decisions", para [0177]); a switch (The POS at the grocery store will switch the transaction to its central host, para [0417]); a network server (the issuer's web server, para [0044]; SIP proxy server, para [0518]); a device that generates, aggregates, manages or stores CDRs (The WCM logging service also permits issuers to create, encode, and export communication records (CDRs) with end-user wallet applications for export into user management systems and visibility by issuer customer care departments. WCM 110 supports flexible configuration of CDR extensions, para [0246]); a base station controller (wireless device 200 is preferably a device that is capable of wirelessly connecting to the Internet using network protocols such as GSM/GPRS, CDMA2000, W-CDMA, EDGE, HDR, 1xRTT, UMTS, IMT-2000, 802.11a, 802.11b, 802.11g, or BLUETOOTH or other relevant protocols developed hereinafter. Preferably, wireless device, para [0041]); and a base station (Common short-range communications network standards defined by the International Electrical and Electronic Engineers association (IEEE) include 802.11a, 802.11b, and 802.11g. Many mobile devices employ these IEEE network standards to establish wireless LAN (WLAN) connectivity. Various other short-range technologies currently in use for device-to-device communication include Bluetooth and infra-red, para [0016]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: set a plurality of access control settings in one or more of the following: a billing system; a AAA system; a gateway; a router; a switch; a network server; a device that generates, aggregates, manages or stores CDRs; a base station controller; and a base station, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 42, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: set a plurality of service controls to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials. However, Dua teaches the system wherein the processor of the network device is further configured to: set a plurality of service controls to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials (Wireless Credential Manager (WCM) 110 maintains, controls and distributes credentials, para [0043]; an RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials, para [0383]; managing credentials on wireless device . . . multimedia services . . . communication services within a mobile operator's network, para [0051]; Public/Private Dialing Plans--supports both public and private dialing plans, para [0231]; Wireless Credential Manager (WCM) 510 is used . . . SIP proxy servers that act on behalf of Sample Bank and Bob's mobile operator (MobileCo) to facilitate session establishment. This typical arrangement, para [0128]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: set a plurality of service controls to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 43, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: set a plurality of service controls to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials, wherein the plurality of service controls include one or more service profiles for the first communications device stored in an AAA function for the first network. However, Dua teaches the system wherein the processor of the network device is further configured to: set a plurality of service controls to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials, wherein the plurality of service controls include one or more service profiles for the first communications device stored in an AAA function for the first network (wireless device that controls activation of the wallet application and transmission of credentials, para [0383]; Profile Selector options previously described. In these cases, the appropriate credential or profile is selected, para [0385]; the storage server to create a profile. The mobile operator or service provider may request some personal information to authenticate the identity of the user in order to create a storage profile, para [0492]; Authorization and authentication are handled in SIP either on a request-by-request basis with a challenge/response mechanism, or by using a lower layer scheme as discussed in Section 26 of RFC 3261. The use of authorization and authentication schemes, para [0188]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: set a plurality of service controls to prepare for activation of the first communications device for the first service on the first network, based at least in part on the first set of device credentials, wherein the plurality of service controls include one or more service profiles for the first communications device stored in an AAA function for the first network, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V. 2. Citations and explanations:

Regarding claim 44, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning requirements based at least in part the first set of device credentials. However, Dua teaches the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning requirements based at least in part the first set of device credentials (the application can be provisioned on the user's device over-the-air. Once installed, the application can inform the Presence Service of its new status to allow it to inform the Sample Bank WCM that it is ready to communicate. The use of an Application Status in conjunction with a Presence Service and an over-the-air software provisioning system for wireless and wireline devices are important aspects of the present invention, para [0199]; The ENUM Provisioner . . . The mobile operator's existing user management system can enforce rules for validating users, activating services, billing, and other functions, para [0280]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning requirements based at least in part the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 45, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials, wherein the first set of device credentials are temporary credentials, and wherein the first set of device credentials are shared by a second communications device. However, Dua teaches the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials, wherein the first set of device credentials are temporary credentials, and wherein the first set of device credentials are shared by a second communications device (A financial institution may have specified via settings in the credential issuance record that a temporary PIN assigned by the financial institution be changed to a user designated PIN when it is first received. PIN changes for credentials that have issuer PINs, para [0400]; The address is permanently assigned to the hardware, so credential issuers may use the MAC address . . . Credential issuers in this case would retain the MAC address for the wallet device in its user database, and validate the MAC address . . . credential issuer includes a new E.164 phone number, para [0487]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials, wherein the first set of device credentials are temporary credentials, and wherein the first set of device credentials are shared by a second communications device, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 46, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials; and perform one or more provisioning actions prior to an activation of the first communications device. However, Dua teaches the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials (to store credentials, . . . the same functionality of the wallet application described above (operating on a wireless device), para [0533]; Opening these API functionalities on the JAVA side . . . applications can be provisioned to the terminal using an over-the-air mechanism, para [0498]; This functionality may be built into the Wallet Application or could rely on an API. For example, the SIP Profile API Specification, para [0522]); and perform one or more provisioning actions prior to an activation of the first communications device (perform a PIN validation through the WCM before it sends an approval/denial back through the card network, para [0416]; the issuer will perform to a credential, para [0450]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials; and perform one or more provisioning actions prior to an activation of the first communications device, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Continuation of:

Box V. 2. Citations and explanations:

Regarding claim 47, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials; and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network. However, Dua teaches the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials (store credentials, . . . the same functionality of the wallet application described above (operating on a wireless device), para [0533]; Opening these API functionalities on the JAVA side . . . applications can be provisioned to the terminal using an over-the-air mechanism, para [0498]; This functionality may be built into the Wallet Application or could rely on an API. For example, the SIP Profile API Specification, para [0522]); and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network (send a message with the credential issuer key to its WCM in order to establish communication, para [0451]; Primary and secondary credential categories, para [0307]; to classify different credentials within the wallet application . . . credentials directly under a primary category or under a secondary category, para [0344]; An issuer of credentials may specify the primary category and secondary category (if applicable) that a particular credential should be linked to in the wallet application's credential tree; this information can be specified in the credential issuance record that is sent by the issuer to the wallet application on the wireless device, para [0346]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials; and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 48, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials; and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials. However, Dua teaches the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials (to store credentials, . . . the same functionality of the wallet application described above (operating on a wireless device), para [0533]; Opening these API functionalities on the JAVA side . . . applications can be provisioned to the terminal using an over-the-air mechanism, para [0498]; This functionality may be built into the Wallet Application or could rely on an API. For example, the SIP Profile API Specification, para [0522]); and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials (The address is permanently assigned to the hardware, so credential issuers may use the MAC address . . . Credential issuers in this case would retain the MAC address for the wallet device in its user database, and validate the MAC address . . . credential issuer includes a new E.164 phone number, para [0487]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials; and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Continuation of:

Box V. 2. Citations and explanations:

Regarding claim 49, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials; and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials, and wherein the first set of device credentials are recycled for later use by a second communications device. However, Dua teaches the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials (to store credentials, . . . the same functionality of the wallet application described above (operating on a wireless device), para [0533]; Opening these API functionalities on the JAVA side . . . applications can be provisioned to the terminal using an over-the-air mechanism, para [0498]; This functionality may be built into the Wallet Application or could rely on an API. For example, the SIP Profile API Specification, para [0522]); and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials, and wherein the first set of device credentials are recycled for later use by a second communications device (cycling through the records, para [0084]; A financial institution may have specified via settings in the credential issuance record that a temporary PIN assigned by the financial institution be changed to a user designated PIN when it is first received. PIN changes for credentials that have issuer PINs, para [0400]; The address is permanently assigned to the hardware, so credential issuers may use the MAC address . . . Credential issuers in this case would retain the MAC address for the wallet device in its user database, and validate the MAC address . . . credential issuer includes a new E.164 phone number, para [0487]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials; and send to the first communications device a second set of device credentials for provisioning the first communications device for the first service on the first network, wherein the first set of device credentials are temporary credentials, and the second set of device credentials are permanent credentials, and wherein the first set of device credentials are recycled for later use by a second communications device, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 50, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials, wherein the first set of device credentials are shared by a second communications device. However, Dua teaches the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials, wherein the first set of device credentials are shared by a second communications device (using shared secrets, para [0241]; "reader key" may be securely shared . . . During a transaction, a credential being transmitted from the wireless device, para [0361]; A link key is derived that is shared between the existing device and the new device, para [0471]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: associate the first communications device with one or more provisioning actions based at least in part the first set of device credentials, wherein the first set of device credentials are shared by a second communications device, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 51, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials. However, Dua teaches the system wherein the processor of the network device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials (to store credentials, . . . the same functionality of the wallet application described above (operating on a wireless device), para [0533]; Opening these API functionalities on the JAVA side . . . applications can be provisioned to the terminal using an over-the-air mechanism, para [0498]; This functionality may be built into the Wallet Application or could rely on an API. For example, the SIP Profile API Specification, para [0522]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Supplemental Box

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Continuation of:

Box V. 2. Citations and explanations:

Regarding claim 52, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the network device includes an activation server or is in communication with the activation server. However, Dua teaches the system wherein the processor of the communications device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the network device includes an activation server or is in communication with the activation server (The ENUM Provisioner . . . mobile wallet service and activated, para [0280]; to store credentials, . . . The server-based wallet system, para [0533]; a server hosted and managed by the wallet service provider. The wallet server uses . . . to establish a username and password/PIN for web access to the account (the username and password/PIN are also tokens). The server-based wallet application . . . accessing the server-based wallet, para [0534]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the network device includes an activation server or is in communication with the activation server, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 53, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the communications device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials. However, Dua teaches the system wherein the processor of the communications device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials (Primary and secondary credential categories, para [0307]; to classify different credentials within the wallet application . . . credentials directly under a primary category or under a secondary category, para [0344]; An issuer of credentials may specify the primary category and secondary category (if applicable) that a particular credential should be linked to in the wallet application's credential tree; this information can be specified in the credential issuance record that is sent by the issuer to the wallet application on the wireless device, para [0346]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the communications device is further configured to: provision the first communications device for the first service on the first network by providing provisioning information based at least in part on the first set of device credentials, wherein the provisioning information includes a second set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 54, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system recited in claim 26, wherein the processor of the network device is further configured to: receive an activation request of the first communications device for the first service on the first network, the activation request including the first set of device credentials. However, Dua teaches the system recited in claim 26, wherein the processor of the network device is further configured to: receive an activation request of the first communications device for the first service on the first network, the activation request including the first set of device credentials (receiving a request from the issuer's card or user management system 120 to issue electronic credentials, para [0057]; the wireless device that can be used to activate the wallet application . . . an RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials . . . transmission of a credential that has a "reader key" and is approved for PIN-less transactions, para [0383]; a PIN to the user via an alternative channel in order to allow the user to decrypt and "activate" the credential, but may not require the PIN for use with every transaction, para [0401]; Other credential issuers may issue a credential to a wireless device, require the wallet PIN with every transaction, but also prompt the user for an issuer PIN (or PIN set with the issuer) on the POS terminal during each transaction, para [0402]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system recited in claim 26, wherein the processor of the network device is further configured to: receive an activation request of the first communications device for the first service on the first network, the activation request including the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

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Box V. 2. Citations and explanations:

Regarding claim 55, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: receive an activation request for the first communications device for the first service on the first network, the activation request including the first set of device credentials; and activate the first communications device for the first service on the first network, based at least in part on the first set of device credentials. However, Dua teaches the system wherein the processor of the network device is further configured to: receive an activation request for the first communications device for the first service on the first network, the activation request including the first set of device credentials (receiving a request from the issuer's card or user management system 120 to issue electronic credentials, para [0057]; the wireless device that can be used to activate the wallet application . . . an RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials . . . transmission of a credential that has a "reader key" and is approved for PIN-less transactions, para [0383]; a PIN to the user via an alternative channel in order to allow the user to decrypt and "activate" the credential, but may not require the PIN for use with every transaction, para [0401]; Other credential issuers may issue a credential to a wireless device, require the wallet PIN with every transaction, but also prompt the user for an issuer PIN (or PIN set with the issuer) on the POS terminal during each transaction, para [0402]; and activate the first communications device for the first service on the first network, based at least in part on the first set of device credentials (activating services, billing, and other functions, para [0280]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: receive an activation request for the first communications device for the first service on the first network, the activation request including the first set of device credentials; and activate the first communications device for the first service on the first network, based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 56, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: receive an activation request for the first communications device for the first service on the first network, the activation request including the first set of device credentials; activate the first communications device for the first service on the first network, based at least in part on the first set of device credentials; and send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials. However, Dua teaches the system wherein the processor of the network device is further configured to: receive an activation request for the first communications device for the first service on the first network, the activation request including the first set of device credentials (receiving a request from the issuer's card or user management system 120 to issue electronic credentials, para [0057]; the wireless device that can be used to activate the wallet application . . . an RFID-enabled wireless device that controls activation of the wallet application and transmission of credentials . . . transmission of a credential that has a "reader key" and is approved for PIN-less transactions, para [0383]; a PIN to the user via an alternative channel in order to allow the user to decrypt and "activate" the credential, but may not require the PIN for use with every transaction, para [0401]; Other credential issuers may issue a credential to a wireless device, require the wallet PIN with every transaction, but also prompt the user for an issuer PIN (or PIN set with the issuer) on the POS terminal during each transaction, para [0402]; activate the first communications device for the first service on the first network, based at least in part on the first set of device credentials (activating services, billing, and other functions, para [0280]); and send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials (storing billing, para [0425]; billing address, . . . a credential that is transmitted to the wireless device, para [0180]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: receive an activation request for the first communications device for the first service on the first network, the activation request including the first set of device credentials; activate the first communications device for the first service on the first network, based at least in part on the first set of device credentials; and send activation tracking service information to a billing server, wherein the activation tracking service information is based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 59, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of a network device is further configured to: associate the first communications device with a service plan based at least in part on the first set of device credentials. However, Dua teaches the system wherein the processor of a network device is further configured to: associate the first communications device with a service plan based at least in part on the first set of device credentials (managing credentials on wireless device . . . multimedia services . . . communication services within a mobile operator's network, para [0051]; Public/Private Dialing Plans--supports both public and private dialing plans, para [0231]; Wireless Credential Manager (WCM) 510 is used . . . SIP proxy servers that act on behalf of Sample Bank and Bob's mobile operator (MobileCo) to facilitate session establishment. This typical arrangement, para [0128]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of a network device is further configured to: associate the first communications device with a service plan based at least in part on the first set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

-- Please See Supplemental Sheet --

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US 10/21302

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V. 2. Citations and explanations:

Regarding claim 60, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity. However, Dua teaches the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity (a device status, user status, or application status might be captured as a Presence Status (for example "Device Status=Off-Hook", "User Status=Online", or "Application Status=Not Loaded"). Starting with a simple definition of "Online/Offline" status, Presence Status has been extended to include other context information around the status such as disposition (out-to-lunch, away-from the-computer) and activity status (on the phone, idle, etc.), para [0193]; Expiration date of credential, para [0303]; expiration date for usage, para [0341]; credentials were first issued and when issuers made other changes. This log captures, date/time, credential, and description of activity/change made by issuer, para [0490]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 61, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity; and redirect the first communications device to a reactivation request to access the first service after the expiration of the period of time of inactivity. However, Dua teaches the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity (a device status, user status, or application status might be captured as a Presence Status (for example "Device Status=Off-Hook", "User Status=Online", or "Application Status=Not Loaded"). Starting with a simple definition of "Online/Offline" status, Presence Status has been extended to include other context information around the status such as disposition (out-to-lunch, away-from the-computer) and activity status (on the phone, idle, etc.), para [0193]; Expiration date of credential, para [0303]; expiration date for usage, para [0341]; credentials were first issued and when issuers made other changes. This log captures, date/time, credential, and description of activity/change made by issuer, para [0490]); and redirect the first communications device to a reactivation request to access the first service after the expiration of the period of time of inactivity (the user has re-asserted his identity and that it is ok to re-activate the credential on the device, para [0445]; initiating the process include the use of computer via the requesting party's ISP 178, . . . to initiate the credential issuance process may be either the device to receive the credential or another wireless device, para [0044]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity; and redirect the first communications device to a reactivation request to access the first service after the expiration of the period of time of inactivity, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Regarding claim 62, Kolehmainen teaches the system of claim 26 as described above. But, Kolehmainen does not explicitly teach the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity; and redirect the first communications device to a reactivation request to access the first service after the expiration of the period of time of inactivity, wherein the reactivation request is based at least in part on a second set of device credentials. However, Dua teaches the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity (a device status, user status, or application status might be captured as a Presence Status (for example "Device Status=Off-Hook", "User Status=Online", or "Application Status=Not Loaded"). Starting with a simple definition of "Online/Offline" status, Presence Status has been extended to include other context information around the status such as disposition (out-to-lunch, away-from the-computer) and activity status (on the phone, idle, etc.), para [0193]; Expiration date of credential, para [0303]; expiration date for usage, para [0341]; credentials were first issued and when issuers made other changes. This log captures, date/time, credential, and description of activity/change made by issuer, para [0490]); and redirect the first communications device to a reactivation request to access the first service after the expiration of the period of time of inactivity, wherein the reactivation request is based at least in part on a second set of device credentials (make changes to a credential in the wallet application. Examples of changes could include, a change to the credential's expiration date, . . . In such cases, the issuer can connect to the wallet application with a valid key, make the appropriate changes to the stored credential, para [0450]; expiration date, . . . The issuer could also request a special code or PIN . . . certain input information could be used as a decryption key for a credential that is transmitted to the wireless device, para [0180]; Credential issuers will have the ability to remotely cancel credentials, re-issue credentials, or manage credentials in other ways on a wireless device. During the initial issuance process, credential issuers will send a unique "credential issuer key" along with the credential they are issuing to the wallet application, para [0448]). It would have been obvious to one skilled in the art to combine the teachings of Kolehmainen with those of Dua in order to provide the system wherein the processor of the network device is further configured to: suspend the first communications device upon an expiration of a period of time of inactivity; and redirect the first communications device to a reactivation request to access the first service after the expiration of the period of time of inactivity, wherein the reactivation request is based at least in part on a second set of device credentials, because both of them teach automatically managing an access account at an access point by employing near field communications and issuing, managing, storing and using credentials authorizing the legitimate holder of such a credential, and to do so would improve the performance of managing credentials and an access account on a mobile device using personal area networks.

Claims 1-64 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

Electronic Patent Application Fee Transmittal				
Application Number:		12380780		
Filing Date:		02-Mar-2009		
Title of Invention:		Automated device provisioning and activation		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Marc A. Sockol/Linda Brost		
Attorney Docket Number:		26WV-160488 [RALEP007]		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	2253	1	635	635

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				815

Electronic Acknowledgement Receipt	
EFS ID:	12407813
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	69849
Filer:	Marc A. Sockol/Linda Brost
Filer Authorized By:	Marc A. Sockol
Attorney Docket Number:	26WV-160488 [RALEP007]
Receipt Date:	27-MAR-2012
Filing Date:	02-MAR-2009
Time Stamp:	20:51:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$815
RAM confirmation Number	7282
Deposit Account	504561
Authorized User	
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)</p>	

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		160488-RALEP007-AmendandRespNotofChgofEntityIDS-032712.pdf	1713717 c8f51b306fb172a3df9c6a6333f3fadfe17559e8	yes	51
Multipart Description/PDF files in .zip description					
	Document Description		Start	End	
	Transmittal Letter		1	1	
	Miscellaneous Incoming Letter		2	2	
	Extension of Time		3	3	
	Amendment/Req. Reconsideration-After Non-Final Reject		4	4	
	Claims		5	19	
	Applicant Arguments/Remarks Made in an Amendment		20	23	
	Miscellaneous Incoming Letter		24	25	
	Information Disclosure Statement (IDS) Form (SB08)		26	27	
	Non Patent Literature		28	51	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32316 1b8aa12092308c7c6b804e3457cfa18843294492	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1746033		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	12/380,780			
	Filing Date	March 2, 2009			
	First Named Inventor	Gregory G. Raleigh			
	Art Unit	3687	Conf. No. 1775		
	Examiner Name	Andrew J. Rudy			
Total Number of Pages in This Submission		51	Attorney Docket Number		26WV-160488 [RALEP007]

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☒ Amendment/Reply (20 pgs.) ☐ After Final ☐ Affidavits/declaration(s) ☒ Extension of Time Request (1 pg.) ☐ Express Abandonment Request ☒ Information Disclosure Statement with PTO/SB/08a/b (4 pgs.) ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation, Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): Notice of Change of Entity Status from Large to Small (1 pg.); copy of International Search Report and Written Opinion for PCT/US2010/021302 (24 pgs.)
<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Remarks You are hereby authorized to charge any additional fee required or credit any overpayment to Deposit Account No. 50-4561. </div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Sheppard, Mullin, Richter & Hampton LLP		Customer No. 69849
Signature			
Printed name	Marc A. Sockol		
Date	March 27, 2012	Reg. No.	40,823

CERTIFICATE OF ELECTRONIC TRANSMISSION			
I hereby certify that this correspondence is being filed electronically via EFS-Web addressed to the Commissioner for Patents on the date shown below:			
Signature			
Typed or printed name	Linda K. Brost	Date	March 27, 2012

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Gregory G. Raleigh

Application No.: 12/380,780

Filed: March 2, 2009

For: Automated Device Provisioning
and Activation

Examiner:

Andrew J. Rudy

Group Art Unit: 3687

Confirmation No.: 1775

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NOTICE OF CHANGE OF ENTITY STATUS FROM LARGE TO SMALL

Dear Sir:

The Applicant herein is now entitled to claim small entity status for the above-referenced patent application, and shall henceforth pay fees due at the small entity rate, including those paid for extension and extra claim fees with respect to the Amendment and Response which has also been filed on this date.

Please change your records to reflect this change in entity status.

No fee should be required for this change of entity status, but if such fee is determined to be owed, please charge Deposit Account No. 50-4561 for the same.

Respectfully submitted,

Date: March 27, 2012

By: 

Marc A. Sockol
Reg. No. 40,823
Customer Number 69849
Sheppard Mullin Richter & Hampton LLP
379 Lytton Avenue
Palo Alto, CA 94301-1432
Telephone: (650) 815-2600

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)	Docket Number (Optional) 26VV-160488 [RALEP007]																								
Application Number: 12/380,770	Filed: March 2, 2009																								
For: Automated Device Provisioning and Activation																									
Art Unit: 3687	Examiner: Andrew J. Rudy																								
<p>This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.</p> <p>The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):</p> <table style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 40%;"></th><th style="width: 15%; text-align: center;">Fee</th><th style="width: 15%; text-align: center;">Small Entity Fee</th><th style="width: 30%;"></th></tr></thead><tbody><tr><td>☐ One month (37 CFR 1.17(a)(1))</td><td style="text-align: center;">\$150</td><td style="text-align: center;">\$75</td><td>\$ _____</td></tr><tr><td>☐ Two months (37 CFR 1.17(a)(2))</td><td style="text-align: center;">\$560</td><td style="text-align: center;">\$280</td><td>\$ _____</td></tr><tr><td>☒ Three months (37 CFR 1.17(a)(3))</td><td style="text-align: center;">\$1270</td><td style="text-align: center;">\$635</td><td>\$ <u>635.00</u></td></tr><tr><td>☐ Four months (37 CFR 1.17(a)(4))</td><td style="text-align: center;">\$1980</td><td style="text-align: center;">\$990</td><td>\$ _____</td></tr><tr><td>☐ Five months (37 CFR 1.17(a)(5))</td><td style="text-align: center;">\$2690</td><td style="text-align: center;">\$1345</td><td>\$ _____</td></tr></tbody></table> <p>☒ Applicant claims small entity status. See 37 CFR 1.27.</p> <p>☐ A check in the amount of the fee is enclosed.</p> <p>☐ Payment by credit card. Form PTO-2038 is attached.</p> <p>☐ The Director has already been authorized to charge fees in this application to a Deposit Account.</p> <p>☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>50-4561</u>.</p> <p>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p>I am the ☐ applicant/inventor.</p> <p style="padding-left: 40px;">☐ assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).</p> <p style="padding-left: 40px;">☒ attorney or agent of record. Registration Number <u>40,823</u></p> <p style="padding-left: 40px;">☐ attorney or agent under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"><div style="width: 45%; text-align: center;"> _____ Signature Marc A. Sockol, Reg. No. 40,823 _____ Typed or printed name</div><div style="width: 45%; text-align: center;"><u>March 27, 2012</u> _____ Date <u>(650) 815-2600</u> _____ Telephone Number</div></div> <p><small>NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.</small></p> <p>☒ Total of <u>1</u> forms are submitted.</p>			Fee	Small Entity Fee		☐ One month (37 CFR 1.17(a)(1))	\$150	\$75	\$ _____	☐ Two months (37 CFR 1.17(a)(2))	\$560	\$280	\$ _____	☒ Three months (37 CFR 1.17(a)(3))	\$1270	\$635	\$ <u>635.00</u>	☐ Four months (37 CFR 1.17(a)(4))	\$1980	\$990	\$ _____	☐ Five months (37 CFR 1.17(a)(5))	\$2690	\$1345	\$ _____
	Fee	Small Entity Fee																							
☐ One month (37 CFR 1.17(a)(1))	\$150	\$75	\$ _____																						
☐ Two months (37 CFR 1.17(a)(2))	\$560	\$280	\$ _____																						
☒ Three months (37 CFR 1.17(a)(3))	\$1270	\$635	\$ <u>635.00</u>																						
☐ Four months (37 CFR 1.17(a)(4))	\$1980	\$990	\$ _____																						
☐ Five months (37 CFR 1.17(a)(5))	\$2690	\$1345	\$ _____																						

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/380,780		Filing Date 03/02/2009		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY ☐ OR		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (j), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =		OR	X \$ =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =			X \$ =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY	
AMENDMENT	03/27/2012	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 64	Minus	** 64	= 0	X \$ =		OR	X \$60=	0
	Independent (37 CFR 1.16(h))	* 6	Minus	***6	= 0	X \$ =		OR	X \$250=	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
	TOTAL ADD'L FEE					OR	TOTAL ADD'L FEE	0		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =		OR	X \$ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =		OR	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
	TOTAL ADD'L FEE					OR	TOTAL ADD'L FEE			
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>										

Legal Instrument Examiner:
/SHAREILL COLES/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	12/380,780
Filing Date	March 2, 2009
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26WV-160488 [RALEP007]

Sheet 1 of 3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		6,449,479	09-10-2002	SANCHEZ, Eduardo	
		6,603,969	08-05-2003	VUORISTO, et al.	
		6,785,889	08-31-2004	WILLIAMS	
		6,829,696	12-07-2004	BALMER et al	
		6,920,455	07-19-2005	WESCHLER, Paul	
		6,998,985	02-14-2006	REISMAN et al	
		7,027,408	04-11-2006	NABKEL, et al.	
		7,092,696	08-15-2006	HOSAIN et al	
		7,158,792	01-02-2007	COOK et al	
		7,180,855	02-20-2007	LIN	
		7,280,818	10-09-2007	CLAYTON, Steve	
		7,324,447	01-29-2008	MORFORD	
		7,421,004	09-02-2008	FEHER, Kamilo	
		7,450,591	11-11-2008	KORLING, et al.	
		7,486,185	02-03-2009	CULPEPPER et al	
		7,574,731	08-11-2009	FASCENDA, Anthony C.	
		7,617,516	11-10-2009	HUSLAK, et al.	
		7,620,065	11-17-2009	FALARDEAU, Eric	
		7,668,903	02-23-2010	EDWARDS, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ "Number" ⁴ "Kind Code" ⁵ (if known)				

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(Use as many sheets as necessary)

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Application Number	12/380,780
Filing Date	March 2, 2009
First Named Inventor	Gregory G. Raleigh
Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26WV-160488 [RALEP007]

Sheet 2 of 3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		7,720,505	05-18-2010	GOPI, et al.	
		7,848,768	12-07-2010	OMORI, et al.	
		7,868,778	01-11-2011	KENWRIGHT, David Norris	
		7,873,705	01-18-2011	KALISH, Dan	
		7,882,029	02-01-2011	WHITE, Craig R.	
		7,941,184	05-10-2011	PRENDERGAST et al	
		7,975,184	07-05-2011	GOFF et al	
		7,986,935	07-26-2011	D'SOUZA et al	
		8,010,080	08-30-2011	THENTHIRUPERAI, et al.	
		8,010,081	08-30-2011	ROSKOWSKI, Steve	
		8,015,133	09-06-2011	WU, et al	
		8,015,234	09-06-2011	LUM et al	
		2002/0120540	08-29-2002	KENDE et al	
		2002/0131404	09-19-2002	MEHTA et al	
		2005/0254435	11-17-2005	MOAKLEY et al	
		2006/0014519	01-19-2006	MARSH et al	
		2006/0199608	09-07-2006	DUNN et al	
		2007/0093243	04-26-2007	KAPADEKAR et al	
		2007/0259673	11-08-2007	WILLARS et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ "Number" ⁴ "Kind Code" ⁵ (if known)				

Examiner
SignatureDate
Considered

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Application Number	12/380,780
Filing Date	March 2, 2009
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Art Unit	3687
Examiner Name	Andrew J. Rudy
Attorney Docket Number	26WV-160488 [RALEP007]

Sheet 3 of 3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		2007/0263558	11-15-2007	SALOMONE	
		2008/0049630	02-28-2008	KOZISEK et al	
		2008/0162637	07-03-2008	ADAMCZYK et al	
		2008/0167027	07-10-2008	GAUTIER et al	
		2008/0180391	07-16-2009	PETERSEN et al	
		2008/0318547	12-25-2008	BALLOU et al	
		2009/0197585	08-06-2009	AARON, Jeffrey A.	
		2009/0257379	10-15-2009	ROBINSON et al	
		2010/0082431	04-01-2010	RAMER et al	
		2010/0188975	07-29-2010	RALEIGH, Gregory G.	
		2010/0188990	07-29-2010	RALEIGH, Gregory G.	
		2010/0188992	07-29-2010	RALEIGH, Gregory G.	
		2010/0188994	07-29-2010	RALEIGH, Gregory G.	
		2010/0191846	07-29-2010	RALEIGH, Gregory G.	
		2010/0192170	07-29-2010	RALEIGH, Gregory G.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ "Number" ⁴ "Kind Code" ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal				
Application Number:		12380780		
Filing Date:		02-Mar-2009		
Title of Invention:		Automated device provisioning and activation		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Marc A. Sockol/Linda Brost		
Attorney Docket Number:		26WV-160488 [RALEP007]		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt	
EFS ID:	11795815
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	69849
Filer:	Marc A. Sockol/Linda Brost
Filer Authorized By:	Marc A. Sockol
Attorney Docket Number:	26WV-160488 [RALEP007]
Receipt Date:	09-JAN-2012
Filing Date:	02-MAR-2009
Time Stamp:	21:22:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	7343
Deposit Account	504561
Authorized User	
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)</p>	

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		160488-RALEP007-IDS-010912.pdf	204386 8b625e4b545ed813b9ca99d8bc44647248a187d7	yes	6

Multipart Description/PDF files in .zip description

Document Description	Start	End
Transmittal Letter	1	1
Miscellaneous Incoming Letter	2	3
Information Disclosure Statement (IDS) Form (SB08)	4	6

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30397 e2ac6d411816f763fa31d5d309b84aea5ced1fb	no	2
---	----------------------	--------------	--	----	---

Warnings:

Information:

Total Files Size (in bytes): 234783

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	12/380,780	
	Filing Date	March 2, 2009	
	First Named Inventor	Gregory G. Raleigh	
	Art Unit	3687 Conf. No. 1775	
	Examiner Name	Andrew J. Rudy	
Total Number of Pages in This Submission	6	Attorney Docket Number	26WV-160488 [RALEP007]

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☒ Information Disclosure Statement with PTO/SB/08a/b (5 pgs.) ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation, Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☐ Other Enclosure(s) (please identify below):
Remarks You are hereby authorized to charge any additional fee required or credit any overpayment to Deposit Account No. 50-4561.		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	Sheppard, Mullin, Richter & Hampton LLP Customer No. 69849	
Signature		
Printed name	Marc A. Sockol	
Date	January 9, 2012	Reg. No. 40,823

CERTIFICATE OF ELECTRONIC TRANSMISSION			
I hereby certify that this correspondence is being filed electronically via EFS-Web addressed to MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 on the date shown below.			
Signature			
Typed or printed name	Linda K. Brost	Date	January 9, 2012

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Gregory G. Raleigh

Application No.: 12/380,780

Filed: March 2, 2009

For: Automated Device Provisioning
and Activation

Examiner: Andrew J. Rudy

Group Art Unit: 3687

Confirmation No.: 1775

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT PURSUANT TO
37 C.F.R. §§1.97-1.98 WITH FEE**

Sirs:

In accordance with the duty of disclosure under 37 CFR §1.56 and pursuant to 37 CFR §§1.97-1.98, Applicant hereby notifies the U.S. Patent and Trademark Office of the references listed on the enclosed Form PTO-SB/08A. Pursuant to the USPTO's waiver of the requirements under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent, we are not submitting copies of U.S. patents and/or patent publications cited.

The present Information Disclosure Statement is being submitted after receiving the first office action but before an action closing prosecution on the merits. Accordingly, please charge Deposit Account No. 50-4561 in the amount of \$180.00 as specified in 37 CFR §1.97(c) and 37 CFR §1.17(p).

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant reserves the right to dispute any of the listed documents as prior art during examination. Furthermore,

Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

The Examiner is requested to initial the enclosed Form PTO-SB/08A and return a copy thereof to the undersigned.

If for any reason an insufficient fee has been paid, please charge the insufficiency to Deposit Account No. 50-4561.

Respectfully submitted,

Date: January 9, 2012

By: 

Marc A. Sockol
Reg. No. 40,823
Customer Number 69849
Sheppard, Mullin, Richter & Hampton LLP
379 Lytton Avenue
Palo Alto, CA 94301-1432
(650) 815-2600



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007	1775

69849 7590 09/28/2011
SHEPPARD, MULLIN, RICHTER & HAMPTON LLP
390 Lytton Avenue
Palo Alto, CA 94301

EXAMINER

RUDY, ANDREW J

ART UNIT	PAPER NUMBER
----------	--------------

3687

MAIL DATE	DELIVERY MODE
-----------	---------------

09/28/2011

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	12/380,780	RALEIGH, GREGORY G.	
	Examiner	Art Unit	
	ANDREW J. RUDY	3687	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-64 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-64 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) ☐ Other: ____. |

DETAILED ACTION

1. Claims 1-64 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 36 and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Kolehmainen, US 2006/0183462.

Kolehmainen discloses, e.g. Figs. 1-5 and related text, a processor of a mobile communications device having permanent, temporary or partial credentials.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 5-18, 21-23, 27, 34-56 and 59-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over, Kolehmainen, US 2006/0183462 in view of Dua, US 2006/0165060.

Kolehmainen discloses, e.g. Figs. 1-5 and related text, a processor of a mobile communications device having either permanent, temporary or partial credentials. Kolehmainen does not specifically disclose a first set of device credentials prior to a point of sale and prior to activation of the communication device, provisional actions, and the other features recited from the above claims.

Dua discloses, e.g. Figs. 1-9 and related text, e.g. [0013, 0018, 0026, 0044, 0051, 0058, 0123, 0128, 0156, 0180, 0193, 0199, 0231, 0271, 0280, 0288, 0303, 0341, 0383, 0402, 0405, 0410, 0425, 0487, 0491, 0498, 0522, 0533 et al.] the enumerated features Kolehmainen does not disclose and recited from the above claims.

To have provided a processor of a mobile communications device having a first set of device credentials prior to a point of sale and prior to activation of the communication device, provisional actions, and the other features recited from the above claims for Kolehmainen, would have been obvious in view of Dua.

6. Further pertinent references of interest are noted on the attached PTO-892.

7. Applicant's Information Disclosure Statements (IDS's) have been reviewed. Note the attached IDS's.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW JOSEPH RUDY whose telephone number is (571)272-6789. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Gart can be reached on 571-272-3955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ANDREW JOSEPH RUDY/
Primary Examiner, Art Unit 3687

Notice of References Cited	Application/Control No. 12/380,780	Applicant(s)/Patent Under Reexamination RALEIGH, GREGORY G.	
	Examiner ANDREW J. RUDY	Art Unit 3687	Page 1 of 1

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*	B	US-2006/0183462	08-2006	Kolehmainen, Mikko	455/411
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	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Substitute for form 1449/PTO				<i>Complete if Known</i>	
Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	1	of	2	Atty Docket No.	RALEP007

U.S. Patent Documents					
Examiner Initials	Cite No.	Document Number Number-Kind Code <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	R.	US 2005/0238046	10-27-2005	HASSAN et al.	
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	BB.	WO 2007/018363	08-02-2006	Upresto, Inc.	

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Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	CC.		
	DD.		

Examiner	/Andrew Joseph Rudy/	Date Considered	09/23/2011
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BIB DATA SHEET

CONFIRMATION NO. 1775

SERIAL NUMBER 12/380,780	FILING or 371(c) DATE 03/02/2009 RULE	CLASS 705	GROUP ART UNIT 3687	ATTORNEY DOCKET NO. RALEP007		
APPLICANTS Gregory G. Raleigh, Woodside, CA; ** CONTINUING DATA ***** This appln claims benefit of 61/206,354 01/28/2009 and claims benefit of 61/206,944 02/04/2009 and claims benefit of 61/207,393 02/10/2009 and claims benefit of 61/207,739 02/13/2009 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 03/19/2009						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /ANDREW JOSEPH RUDY/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY CA	SHEETS DRAWINGS 84	TOTAL CLAIMS 64	INDEPENDENT CLAIMS 6
ADDRESS SHEPPARD, MULLIN, RICHTER & HAMPTON LLP 390 Lytton Avenue Palo Alto, CA 94301 UNITED STATES						
TITLE Automated device provisioning and activation						
FILING FEE RECEIVED 5518	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees		
				☐ 1.16 Fees (Filing)		
				☐ 1.17 Fees (Processing Ext. of time)		
				☐ 1.18 Fees (Issue)		
				☐ Other _____		
			☐ Credit			

Search Notes 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	12/380,780	RALEIGH, GREGORY G.	
	Examiner	Art Unit	
	ANDREW J. RUDY	3687	

SEARCHED			
Class	Subclass	Date	Examiner
705	16	9/20/2011	AJR
726	7	9/20/2011	AJR

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
Inventor name search conducted.	9/20/2011	AJR
Continuity data reviewed.	9/20/2011	AJR
Bibliographic data sheet updated.	9/23/2011	AJR

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				Examiner Name	Not Assigned
Sheet	2	of	2	Atty Docket No.	RALEP007

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Examiner	/Andrew Joseph Rudy/	Date Considered	09/23/2011
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered.
 Include copy of this form with next communication to applicant.

T² = Applicant is to place a check mark here if English language Translation is attached

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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	3	of	4	Atty Docket No.	RALEP007

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		Country Code-Number-Kind Code <i>(known)</i>			
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Examiner	/Andrew Joseph Rudy/	Date Considered	09/23/2011
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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	12380780
	Filing Date	2009-03-02
	First Named Inventor	RALEIGH, Gregory G.
	Art Unit	3687
	Examiner Name	RUDY, Andrew J.
	Attorney Docket Number	26WV-160488 - [RALEP007]

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	2	6952428		2005-10-04	NECKA et al	
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	4	5577100		1996-11-19	McGREGOR et al	
	5	6198915		2001-03-06	McGREGOR et al	
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20	6532235		2003-03-11	BENSON et al	
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	1	WO1999/065185	WO		1999-12-16	British Telecommunications Public Limited Company		☐
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Author Unknown, "Data Roaming Tariffs - Transparency Measures." EUROPA - Europe's Information Society Thematic Portal website, date unknown.	☐

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2011-07-15
Name/Print	Marc Sockol	Registration Number	40,823

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	10532051
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	69849
Filer:	Marc A. Sockol/Linda Brost
Filer Authorized By:	Marc A. Sockol
Attorney Docket Number:	RALEP007
Receipt Date:	15-JUL-2011
Filing Date:	02-MAR-2009
Time Stamp:	19:57:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		160488IDS071511.pdf	400474 <small>2b5ce097460a2df5b328649f7682785e95430052</small>	yes	17

Multipart Description/PDF files in .zip description					
Document Description			Start	End	
Information Disclosure Statement (IDS) Form (SB08)			1	9	
Non Patent Literature			10	17	
Warnings:					
Information:					
2	Foreign Reference	WO1999-065185A2A3.pdf	1952852	no	56
			b4b22a6a3b435dba71663391f5ac019eb0e4ba7f		
Warnings:					
Information:					
3	Foreign Reference	WO2007-018363A1.pdf	1334141	no	37
			9cafcccc441271e5e512f90966955e5bc126b32d		
Warnings:					
Information:					
Total Files Size (in bytes):			3687467		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007

CONFIRMATION NO. 1775

POA ACCEPTANCE LETTER

69849
SHEPPARD, MULLIN, RICHTER & HAMPTON LLP
390 Lytton Avenue
Palo Alto, CA 94301



OC00000004/201444

Date Mailed: 04/20/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/11/2011.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/ttkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007

CONFIRMATION NO. 1775

POWER OF ATTORNEY NOTICE

21912
VAN PELT, YI & JAMES LLP
10050 N. FOOTHILL BLVD #200
CUPERTINO, CA 95014



OC00000004/201423

Date Mailed: 04/20/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/11/2011.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/ttkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number:
OR

69849

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☒ The address associated with Customer Number:
OR

69849

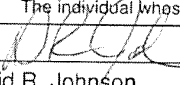
☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address:
Headwater Partners I, LLC
350 Marine Parkway, Suite 300
Redwood City, California 94065
U.S.A.

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date: 18 March, 2011
Name	David R. Johnson	Telephone: 650-517-2782
Title	Chief Financial Officer	

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	9855385
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	21912
Filer:	Marc A. Sockol/Linda Brost
Filer Authorized By:	Marc A. Sockol
Attorney Docket Number:	RALEP007
Receipt Date:	11-APR-2011
Filing Date:	02-MAR-2009
Time Stamp:	20:29:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		160488POAand3-73bStmt041111.pdf	172132 db3937fc92d338f4ec1e271e35b5c42cc9a151a4	yes	4

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Assignee showing of ownership per 37 CFR 3.73(b).	1	2
	Power of Attorney	3	4
Warnings:			
Information:			
Total Files Size (in bytes):		172132	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Gregory G. Raleigh

Application No./Patent No.: 12/380,780

Filed/Issue Date: March 2, 2009

Titled: Automated Device Provisioning and Activation

Headwater Partners I, LLC

, a

limited liability company

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 022796, Frame 0779, or for which a copy therefore is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

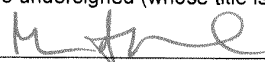
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.


Signature

April 11, 2011

Date

Marc A. Sockol, Reg. No. 40,823

Attorney of Record

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Substitute for form 1449/PTO Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	1	of	2	Atty Docket No.	RALEP007

U.S. Patent Documents					
Examiner Initials	Cite No.	Document Number Number-Kind Code <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A.	US 2003/0088671	05-08-2003	KLINKER et al.	
	B.	US 2007/0248100	10-25-2007	ZUBERI et al.	
	C.	US 2008/0130534	06-05-2008	Tazuko Tomioka	
	D.	US 7,747,240	06-29-2010	BRISCOE et al.	
	E.	US 2006/0236095	10-19-2006	SMITH et al.	
	F.	US 2009/0054030	02-26-2009	Golds	
	G.	US 6,952,428	10-04-2005	NECKA et al.	
	H.	US 2010/0043068	02-18-2010	VARADHAN et al.	
	I.	US 2010/0071053	03-18-2010	ANSARI et al.	
	J.	US 2003/0005112	01-03-2003	Krautkremer	
	K.	US 2006/0045245	03-02-2006	AARON et al.	
	L.	US 2007/0076616	04-05-2007	NGO et al.	
	M.	US 2006/0190314	08-24-2006	Hernandez	
	N.	US 2009/0271514	10-29-2009	THOMAS et al.	
	O.	US 6,684,244	01-27-2004	GOLDMAN et al.	
	P.	US 2005/0055291	03-10-2005	BEVENTE et al.	
	Q.	US 2006/0019632	01-26-2006	CUNNINGHAM et al.	
	R.	US 2005/0238046	10-27-2005	HASSAN et al.	
	S.	US 5,577,100	11-19-1996	McGREGOR et al.	
	T.	US 6,198,915	03-06-2001	McGREGOR et al.	
	U.	US 6,650,887	11-18-2003	McGREGOR et al.	
	V.	US 7,245,901	07-17-2007	McGREGOR et al.	
	W.	US 7,373,136	05-13-2008	WATLER et al.	
	X.	US 6,725,031	04-20-2004	WATLER et al.	
	Y.	US 2002/0022472	02-21-2002	WATLER et al.	
	Z.	US 6,532,579	03-11-2003	SATO et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA.	WO 1999/065185	12-16-1999	British Telecommunications	
	BB.	WO 2007/018363	08-02-2006	Upresto, Inc.	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	CC.		
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Examiner	Date Considered
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Substitute for form 1449/PTO				<i>Complete if Known</i>	
Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	2	of	2	Atty Docket No.	RALEP007

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered.
 Include copy of this form with next communication to applicant.

T² = Applicant is to place a check mark here if English language Translation is attached

Electronic Acknowledgement Receipt	
EFS ID:	8579305
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	21912
Filer:	Michael J. Schallop/Veronica Pula
Filer Authorized By:	Michael J. Schallop
Attorney Docket Number:	RALEP007
Receipt Date:	08-OCT-2010
Filing Date:	02-MAR-2009
Time Stamp:	18:34:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	RALEP007_IDS_Before_1st_OA.pdf	55748 4d16b009a20c2226d0c5c3de2cf88628f4d d965f	no	2

Warnings:

Information:

2	Foreign Reference	RALE_Foreign_Ref_WO9965185.pdf	6077071 f063cbb3e0f18a62f5135d7984e5251b7551256c	no	49
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Information:					
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Total Files Size (in bytes):			7558526		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Gregory G. Raleigh	Examiner:	Not Assigned
Application No.:	12/380,780	Art Unit:	2431
Filed:	March 2, 2009	Docket No.:	RALEP007
Title:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION		

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.56 AND 1.97(b) BEFORE MAILING OF A FIRST OFFICE ACTION

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO SB/08, may be material to examination of the above-identified patent application. Applicants disclose these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application. Copies of the cited references are provided to the extent required by 37 CFR §1.98 and any applicable waivers.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is being filed (1) with the above-referenced application or (2) within three months of the filing date of the above-referenced application or (3) before the mailing date of a first Office Action on the merits or (4) before the mailing date of a first Office Action after filing of a Request for Continued Examination. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-0685 (Order No. RALEP007).

Respectfully submitted,
VAN PELT, YI & JAMES LLP

/Michael J. Schallop/

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007

CONFIRMATION NO. 1775

PUBLICATION NOTICE

21912
VAN PELT, YI & JAMES LLP
10050 N. FOOTHILL BLVD #200
CUPERTINO, CA 95014



OC000000042806453

Title:Automated device provisioning and activation

Publication No.US-2010-0192212-A1

Publication Date:07/29/2010

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publicly available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Substitute for form 1449/PTO Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	1	of	4	Atty Docket No. RALEP007	

U.S. Patent Documents					
Examiner Initials	CiteNo.	Document Number Number-Kind Code <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A.	US 2006/0048223	03-02-2006	LEE et al.	
	B.	US 6,965,667	11-15-2005	TRABANDT et al.	
	C.	US 2008/0268813	10-13-2008	Stephane H. Maes	
	D.	US 2007/0255848	11-01-2007	SEWALL et al.	
	E.	US 2008/0039102	02-14-2008	SEWALL et al.	
	F.	US 2006/0233108	10-19-2006	Murali R. Krishnan	
	G.	US 5,892,900	04-06-1999	GINTER et al.	
	H.	US 7,403,763	07-22-2008	Stephane H. Maes	
	I.	US 7,317,699	01-08-2008	GODFREY et al.	
	J.	US 7,353,533	04-1-2008	WRIGHT et al.	
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	L.	US 7,058,968	06-06-2006	ROWLAND et al.	
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	N.	US 7,418,253	08-26-2008	Alan Kavanah	
	O.	US 7,242,920	04-10-2007	Robert P. Morris	
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	R.	US 7,325,037	01-29-2008	Karen L. Lawson	
	S.	US 6,141,686	10-31-2000	JACKOWSKI et al.	
	T.	US 2004/0044623	03-04-2004	WAKE et al.	
	U.	US 2006/0040642	02-23-2006	BORIS et al.	
	V.	US 2008/0229388	09-18-2008	Stephane H. Maes	
	W.	US 2008/0120688	05-22-2008	QIU et al.	
	X.	US 2003/0236745	12-25-2003	HARTSELL et al.	
	Y.	US 2008/0052387	02-28-2008	HEINZ et al.	
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	AA.	US 2004/0236547	11-25-2004	RAPPAPORT et al.	
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	EE.	US 6,098,878	08-08-2000	DENT et al.	
	FF.	US 2004/0198331	10-07-2004	COWARD et al.	
	GG.	US 2003/0004937	01-02-2003	SALMENKAITA et al.	
	HH.	US 2005/0107091	05-19-2005	VANNITHAMBY et al.	
	II.	US 2003/0224781	12-04-2003	MILFORD et al.	
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	LL.	US 2008/0316923	12-25-2008	FEDDERS et al.	
	MM.	US 2006/0026679	02-02-2006	Zakas	
	NN.	US 2008/0082643	04-03-2008	STORRIE et al.	

Substitute for form 1449/PTO Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	2	of	4	Atty Docket No.	RALEP007

	OO.	US 2007/0140275	06-21-2007	BOWMAN et al.	
	PP.	US 2003/0182435	09-25-2003	REDLICH et al.	
	QQ.	US 6,263,055	07-17-2001	GARLAND et al.	
	RR.	US 5,940,472	08-17-1999	NEWMAN et al.	
	SS.	US 2008/0318550	12-25-2008	Deatley	
	TT.	US 2008/0298230	12-01-2008	LUFT et al.	
	UU.	US 2007/0220251	09-20-2007	ROSENBERG et al.	
	VV.	US 2007/0100981	05-03-2007	ADAMCZYK et al.	
	WW.	US 2007/0022289	01-25-2007	ALT et al.	
	XX.	US 2008/0095339	04-24-2008	ELLIOTT et al.	
	YY.	US 2006/0233166	10-19-2006	BOU-DIAB et al.	
	ZZ.	US 2008/0168523	07-10-2008	ANSARI et al.	
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	FFF.	US 2005/0198377	09-08-2005	FERGUSON et al.	
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	III.	US 2005/0055309	03-10-2005	WILLIAMS et al.	
	JJJ.	US 2003/0050837	03-13-2003	Kim	
	KKK.	US 2005/0266825	12-01-2005	Clayton	
	LLL.	US 2006/0178917	08-10-2006	Mikurak	
	MMM.	US 2007/0055694	03-08-2007	RUGE et al.	
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	OOO.	US 7,356,337	04-08-2008	Florence	
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	RRR.	US 2005/0166043	07-28-2005	ZHANG et al.	
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	TTT.	US 2004/0098715	05-20-2004	AGHERA et al.	
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	VVV.	US 2006/0206904	09-14-2006	WATKINS et al.	
	WWW.	US 2005/0060266	03-17-2005	DEMELLO et al.	
	XXX.	US 6,047,268	04-04-2000	BARTOLI et al.	
	YYY.	US 6,639,975	10-28-2003	O'NEAL et al.	
	ZZZ.	US 6,539,082	03-25-2003	LOWE et al.	
	AAAA.	US 2008/0134330	06-05-2008	KAPOOR et al.	
	BBBB.	US 2004/0047358	03-11-2004	CHEN et al.	
	CCCC.	US 2007/0274327	11-29-2007	KAARELA et al.	
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				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	3	of	4	Atty Docket No.	RALEP007

	EEEE.	US 2008/0305793	12-11-2008	GALLAGHER et al.	
	FFFF.	US 2008/0083013	04-03-2008	SOLIMAN et al.	
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	JJJJ.	US 2005/0266880	12-01-2005	Gupta	
	KKKK.	US 2003/0229900	12-11-2003	Reisman	
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	VVVV.	US 2007/0130315	06-07-2007	FRIEND et al.	
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	ZZZZ.	US 2005/0128967	06-16-2005	Scobbie	
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	DDDDD.	US 2006/0034256	02-16-2006	ADDAGATLA et al.	
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	FFFFF.	US 2007/0036312	02-15-2007	CAI et al.	
	GGGGG.	US 2004/0082346	04-29-2004	SKYTT et al.	
	HHHHH.	US 7,142,876	11-28-2006	TROSSEN et al.	
	IIIII.	US 2008/0005561	01-03-2008	BROWN et al.	
	JJJJJ.	US 2007/0101426	05-03-2007	LEE et al.	
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	LLLLL.	US 2008/0160958	04-03-2008	ABICHANDANI et al.	
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	NNNNN.	US 2007/0104126	5-10-2007	CALHOUN et al.	
	OOOOO.	US 2007/0243862	10-18-2007	COSKUN et al.	
	PPPPP.	US 2008/0109679	05-08-2008	WRIGHT et al.	
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	SSSSS.	US 2005/0021995	01-27-2005	LAL et al.	
	TTTTT.	US 2008/0162704	04-03-2008	POPLETT et al.	

Substitute for form 1449/PTO				<i>Complete if Known</i>	
Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	4	of	4	Atty Docket No.	RALEP007

	UUUUU.	US 2008/0229385	09-18-2008	FEDER et al.	
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FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code-Number-Kind Code <i>(known)</i>			
	1A	WO 2006/130960	12-14-2006	Mobidia, Inc.	
	1B	EP 1772988A1	04-11-2007	Huawei Technologies, Co., LTD.	
	1C	EP 1978772A1	10-08-2008	British Telecommunications	
	1D	WO 2007/053848	05-10-2007	Mobile Armor, LLC	
	1E	WO 2006/073837	07-13-2006	Symbol Technologies, Inc.	
	1F	WO 2004/028070	04-01-2004	Credant Technologies, Inc.	
	1G	WO 2004/095753	11-04-2004	Motorola Inc.	
	1H	WO 2003/014891	02-20-2003	The Boeing Company	
	1I	WO 2007/107701	09-27-2007	British Telecommunications	
	1J	EP 1463238	09-29-2004	Alcatel	
	1K	WO 2008/080430	07-10-2008	Telecom Italia S.P.A	
	1L	WO 2008/017837	02-14-2008	Symbian Software	
	1M	WO 2008/099802	08-21-2008	NEC Corporation	
	1N	WO 2007/001833	01-04-2007	Symbol Technologies	
	1O	EP 1739518	06-29-2005	Research In Motion	
	1P	WO 2007/069245	06-21-2007	Yoggie Security	
	1Q	WO 2008/066419	06-05-2008	Telefonaktiebolaget LM Ericsson	
	1R	WO 2006/050758	05-18-2006	Telefonaktiebolaget LM Ericsson	

Examiner	Date Considered
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered.
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Electronic Acknowledgement Receipt	
EFS ID:	7846826
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	21912
Filer:	Michael J. Schallop/Veronica Pula
Filer Authorized By:	Michael J. Schallop
Attorney Docket Number:	RALEP007
Receipt Date:	21-JUN-2010
Filing Date:	02-MAR-2009
Time Stamp:	13:54:24
Application Type:	Utility under 35 USC 111(a)

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Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Warnings:					
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Total Files Size (in bytes):				78772203	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Gregory G. Raleigh	Examiner:	Not Assigned
Application No.:	12/380,780	Art Unit:	2431
Filed:	March 2, 2009	Docket No.:	RALEP007
Title:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION		

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.56 AND 1.97(b) BEFORE MAILING OF A FIRST OFFICE ACTION

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

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Respectfully submitted,
VAN PELT, YI & JAMES LLP

/Michael J. Schallop/

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Substitute for form 1449/PTO Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	1	of	1	Atty Docket No.	RALEP007

U.S. Patent Documents					
Examiner Initials	CiteNo.	Document Number Number-Kind Code <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code-Number-Kind Code			
	3A	WO 2007/014630	02-08-2007	Telefonaktiebolaget LM Ericsson	WO 2007/014630
	3B	WO 2006/004467	01-12-2006	Telefonaktiebolaget LM Ericsson	WO 2006/004467

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	3C	KNIGHT et al., Layer 2 and 3 Virtual Private Networks: Taxonomy, Technology, and Standardization Efforts, IEEE Communications Magazine, June 2004	
	3D	KOUTSOPOULOU et al., Middleware Platform for the Support of Charging Reconfiguration Actions, 2005	
	3E	NILSSON et al., A Novel MAC Scheme for Solving the QoS Parameter Adjustment Problem in IEEE802.11e EDCA, February 2006	
	3F	Author Unknown, Overview of GSM, GPRS, and UMTS, Chapter 2, November 4, 2008	
	3G	CHAOUCHI et al., Policy Based Networking in the Integration Effort Of 4G Networks and Services, 2004 IEEE	
	3H	ZHU et al., A Survey of Quality of Service in IEEE 802.11 Networks, IEEE Wireless Communications, August 2004	
	3I	KYRIAKAKOS et al., Ubiquitous Service Provision in Next Generation Mobile Networks, Proceedings of the 13th IST Mobile and Wireless Communications Summit, Lyon, France, June 2004	
	3J	FAROOQ et al., An IEEE 802.16 WiMax Module for the NS-3 Simulator, March 2-6, 2009	
	3K	Author Unknown, HP, IP Multimedia Services Charging, A White Paper from HP, January 2006	
	3L	Author Unknown, Kindle™ User's Guide 3 rd Edition, Copyright 2004-2009	

Examiner	Date Considered
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.

T² = Applicant is to place a check mark here if English language Translation is attached

Electronic Acknowledgement Receipt	
EFS ID:	7848269
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	21912
Filer:	Michael J. Schallop/Veronica Pula
Filer Authorized By:	Michael J. Schallop
Attorney Docket Number:	RALEP007
Receipt Date:	21-JUN-2010
Filing Date:	02-MAR-2009
Time Stamp:	14:04:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	RALEP007_IDS_Before_1st_OA.pdf	55748 4d16b009a20c2226d0c5c3de2cf88628f4d d965f	no	2

Warnings:

Information:

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Warnings:					
Information:					
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Information:					
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Information:					
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Information:					
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Warnings:					
Information:					
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Total Files Size (in bytes):			24603683		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Gregory G. Raleigh	Examiner:	Not Assigned
Application No.:	12/380,780	Art Unit:	2431
Filed:	March 2, 2009	Docket No.:	RALEP007
Title:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION		

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.56 AND 1.97(b) BEFORE MAILING OF A FIRST OFFICE ACTION

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

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Respectfully submitted,
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/Michael J. Schallop/

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Substitute for form 1449/PTO Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	1	of	2	Atty Docket No.	RALEP007

U.S. Patent Documents					
Examiner Initials	CiteNo.	Document Number Number-Kind Code <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code-Number-Kind Code <i>(known)</i>			
	2A	WO 2006/077481	07-27-2006	True Context Corporation	
	2B	WO 2008/051379	05-02-2008	Verizon Services	
	2C	WO 2008/080139	07-03-2008	Integrated Mobile	
	2D	WO 2004/077797	09-10-2004	Boston Communications	
	2E	WO 2003/058880	04-17-2003	Telia AB	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		
	2F	HARTMANN et al., Agent-Based Banking Transactions & Information Retrieval-What about Performance Issues? 1999		
	2G	VAN EIJK, et al., GigaMobile, Agent Technology for Designing Personalized Mobile Service Brokerage, July 1, 2002		
	2H	YU LI, Dedicated E-Reading Devices: The State of the Art and Challenges, Scroll, Vol. 1, No. 1, 2008		
	2I	DIKAIKOS et al., A Distributed Middleware Infrastructure for Personalized Services, November 24, 2003		
	2J	RAO et al., Evolution of Mobile Location-Based Services, Communication of the ACM, December 2003		
	2K	CHANDRASEKHAR et al., Femtocell Networks: A Survey, June 28, 2008		
	2L	HOSSAIN et al., Gain-Based Selection of Ambient Media Services in Pervasive Environments, 2008		
	2M	Author Unknown, 3GPP TS 23.203, V8.4.0, 3 rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Policy and Charging Control Architecture (Release 8), December 2008		
	2N	Author Unknown, 3GPP TS 23.401, V8.4.0, 3 rd Generation Partnership Project; Technical Specification Group Services and System Aspects; General Packet Radio Service (GPRS) Enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Access (Release 8), December 2008		
	2O	STEPHAN STEGLICH, I-Centric User Interaction, November 21, 2003		
	2P	HAN et al., Information Collection Services for Qos-Aware Mobile Applications, 2005		
	2Q	ALONISTIOTI et al., Intelligent Architectures Enabling Flexible Service Provision and Adaptability, 2002		
	2R	ROLF OPPLIGER, Internet Security: Firewalls and Beyond, Communications of the ACM, May 1997, Vol. 40. No.5		

Substitute for form 1449/PTO Information Disclosure Statement By Applicant <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application No.:	12/380,780
				Filing Date	March 2, 2009
				First Named Inventor	Gregory G. Raleigh
				Art Unit	2431
				Examiner Name	Not Assigned
Sheet	2	of	2	Atty Docket No.	RALEP007

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Examiner	Date Considered
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered.
 Include copy of this form with next communication to applicant.

T² = Applicant is to place a check mark here if English language Translation is attached

Electronic Acknowledgement Receipt	
EFS ID:	7847817
Application Number:	12380780
International Application Number:	
Confirmation Number:	1775
Title of Invention:	Automated device provisioning and activation
First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	21912
Filer:	Michael J. Schallop/Veronica Pula
Filer Authorized By:	Michael J. Schallop
Attorney Docket Number:	RALEP007
Receipt Date:	21-JUN-2010
Filing Date:	02-MAR-2009
Time Stamp:	14:00:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	RALEP007_IDS_Before_1st_OA.pdf	55748 4d16b009a20c2226d0c5c3de2cf88628f4d d965f	no	2

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Information:

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Total Files Size (in bytes):				70292274	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Gregory G. Raleigh	Examiner:	Not Assigned
Application No.:	12/380,780	Art Unit:	2431
Filed:	March 2, 2009	Docket No.:	RALEP007
Title:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION		

INFORMATION DISCLOSURE STATEMENT
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Respectfully submitted,
VAN PELT, YI & JAMES LLP

/Michael J. Schallop/

Michael J. Schallop
Registration No. 44,319
V (408) 207-4762
F (408) 973-2595

10050 N. Foothill Blvd, Ste 200
Cupertino, CA 95014



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007

CONFIRMATION NO. 1775

**NONPUBLICATION RESCISSION
LETTER**

21912
VAN PELT, YI & JAMES LLP
10050 N. FOOTHILL BLVD #200
CUPERTINO, CA 95014



Date Mailed: 03/03/2010

**Communication Regarding Rescission Of
Nonpublication Request and/or Notice of Foreign Filing**

Applicant's rescission of the previously-filed nonpublication request and/or notice of foreign filing is acknowledged. The paper has been reflected in the Patent and Trademark Office's (USPTO's) computer records so that the earliest possible projected publication date can be assigned.

The projected publication date is 07/29/2010.

If applicant rescinded the nonpublication request before or on the date of "foreign filing,"¹ then no notice of foreign filing is required.

If applicant foreign filed the application after filing the above application and before filing the rescission, and the rescission did not also include a notice of foreign filing, then a notice of foreign filing (not merely a rescission) is required to be filed within 45 days of the date of foreign filing. See 35 U.S.C. § 122(b)(2)(B)(iii), and Clarification of the United States Patent and Trademark Office's Interpretation of the Provisions of 35 U.S.C. § 122(b)(2)(B)(ii)-(iv), 1272 Off. Gaz. Pat. Office 22 (July 1, 2003).

If a notice of foreign filing is required and is not filed within 45 days of the date of foreign filing, then the application becomes abandoned pursuant to 35 U.S.C. § 122(b)(2)(B)(iii). In this situation, applicant should either file a petition to revive or notify the Office that the application is abandoned. See 37 CFR 1.137(f). Any such petition to revive will be forwarded to the Office of Petitions for a decision. Note that the filing of the petition will not operate to stay any period of reply that may be running against the application.

Questions regarding petitions to revive should be directed to the Office of Petitions at (571) 272-3282.

¹ Note, for purpose of this notice, that "foreign filing" means "filing an application directed to the same invention in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing".

/hsarwari/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



IFW

PTO/SB/36 (01-08)

Approved for use through 01/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**RESCISSION OF PREVIOUS NONPUBLICATION
REQUEST**
(35 U.S.C. 122(b)(2)(B)(ii))
**AND, IF APPLICABLE,
NOTICE OF FOREIGN FILING**
(35 U.S.C. 122(b)(2)(B)(iii))

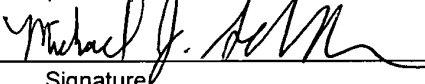
Send completed form to:
Mail Stop PG Pub
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
FAX: (571) 273-8300

Application Number	12/380,780
Filing Date	March 2, 2009
First Named Inventor	Greg G. Raleigh
Title	AUTOMATED DEVICE PROVISIONING AND ACTIVATION
Atty Docket Number	RALEP007
Art Unit	2431
Examiner	Unknown

A request that the above-identified application not be published under 35 U.S.C. 122(b) (nonpublication request) was included with the above-identified application on filing pursuant to 35 U.S.C. 122(b)(2)(B)(i).
I hereby **rescind** the previous nonpublication request.

If a notice of foreign or international filing is or will be required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c), I hereby provide such notice. This notice is being provided no later than forty-five (45) days after the date of such foreign or international filing.

If a notice of subsequent foreign or international filing required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c) was not filed within forty-five (45) days after the date of filing of the foreign or international application, the application is **ABANDONED**, and a petition to revive under 37 CFR 1.137(b) is required. See 37 CFR 1.137(f).

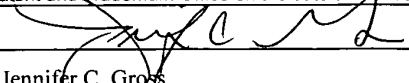
 Signature	2-11-10 Date
Michael J. Schallop	44,319
Typed or printed name	Registration Number, if applicable
408-207-4762	
Telephone Number	

This request must be signed in compliance with 37 CFR 1.33(b).

If information or assistance is needed in completing this form, please contact the Pre-Grant Publication Division at (703)605-4283 or by e-mail at PGPub@USPTO.gov.

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop PG Pub, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature	
Name (Print/Type)	Jennifer C. Gross
Date	2/11/2010

This collection of information is required by 37 CFR 1.213(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PG Pub, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/380,780	03/02/2009	2431	5518	RALEP007	64	6

CONFIRMATION NO. 1775

UPDATED FILING RECEIPT

21912

VAN PELT, YI & JAMES LLP
10050 N. FOOTHILL BLVD #200
CUPERTINO, CA 95014



0000000036401396

Date Mailed: 06/12/2009

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Gregory G. Raleigh, Woodside, CA;

Assignment For Published Patent Application

Gregory G. Raleigh

Power of Attorney: The patent practitioners associated with Customer Number 21912

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/206,354 01/28/2009
and claims benefit of 61/206,944 02/04/2009
and claims benefit of 61/207,393 02/10/2009
and claims benefit of 61/207,739 02/13/2009

Foreign Applications

If Required, Foreign Filing License Granted: 03/19/2009

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/380,780**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Automated device provisioning and activation

Preliminary Class

726

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER**Title 35, United States Code, Section 184****Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/380,780	03/02/2009	Gregory G. Raleigh	RALEP007

CONFIRMATION NO. 1775

FORMALITIES LETTER

21912
VAN PELT, YI & JAMES LLP
10050 N. FOOTHILL BLVD #200
CUPERTINO, CA 95014

RECEIVED



Date Mailed: 03/25/2009

MAR 31 2009

VAN PELT, YI & JAMES

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$330 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).
- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
 - The drawings must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 1-15, 22-23, 29-41, 46,48-55,57, 59,61, 63-64.
 - Numbers, letters, and reference characters on the drawings must measure at least 0.32 cm (1/8 inch) in height. See Figure(s) 22-23, 26A-46.
 - The drawings submitted to the Office are not electronically reproducible because portions of figures 1-15, 46,48-55, 57, 59, 61, 63-64 are missing and/or blurry.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

page 1 of 2

06/01/2009 EFL0RES 00000003 12380780
01 FC:1011 330.00 OP
02 FC:1111 540.00 OP
03 FC:1311 220.00 OP
04 FC:1051 130.00 OP
05 FC:1201 660.00 OP
06 FC:1202 2288.00 OP
07 FC:1001 1350.00 OP

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of **\$2948** as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of **\$130** for a non-small entity, must be submitted with the missing items identified in this notice.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is **\$5518** for a non-small entity

- **\$330** Statutory basic filing fee.
- **\$130** Surcharge.
- The application search fee has not been paid. Applicant must submit **\$540** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit **\$220** to complete the examination fee for a non-small entity.
- The specification and drawings contain more than 100 pages. Applicant owes **\$1350** for **237** pages in excess of **100** pages for a non-small entity.
- Total additional claim fee(s) for this application is **\$2948**
 - **\$660** for **3** independent claims over 3.
 - **\$2288** for **44** total claims over 20.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.

<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/mkanno/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



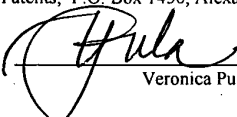
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Gregory G. Raleigh	Examiner:	Not Assigned
Application No.:	12/380,780	Art Unit:	2431
Filed:	March 2, 2009	Docket No.:	RALEP007
Title:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION		

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in a prepaid envelope addressed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

5/26, 2009.


Veronica Pula

RESPONSE TO NOTICE TO FILE MISSING PARTS

MAIL STOP MISSING PARTS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is a Response to Notice to File Missing Parts mailed **March 25, 2009**.

Application Elements:

- ☒ Declaration
- ☒ Newly executed (original or copy)
- ☐ Copy from a prior application (37 CFR 1.63(d) for a continuation or divisional).
The entire disclosure of the prior application from which a copy of the declaration is herein supplied is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
- ☐ Deletion of inventors Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

Accompanying Application Parts:

- ☐ Information Disclosure Statement with Form PTO/SB/08 ☐ Copies of IDS Citations
- ☒ Preliminary Amendment A (*New claims numbered after highest original claim in prior application.*)
- ☒ Return Receipt Postcard
- ☒ Copy of Notice to File Missing Parts of NonProvisional Application
- ☒ Other: One Hundred & Six (106) Replacement Drawings

Amendments

- ☐ Cancel in this application original claims _____ of the prior application before calculating the filing fee. (At least one original independent claim must be retained.)

Fee Calculation (37 CFR § 1.16)

				Small Entity			Large Entity	
				Rate	Fee		Rate	Fee
Filing Fees				x \$165 = \$		OR	x \$330 = \$	330
Search Fees				x \$270 = \$		OR	x \$540 = \$	540
Examination Fees				x \$110 = \$		OR	x \$220 = \$	220
CLAIMS	Filed.		Extra					
Total	64	Less 20	44	x \$26 = \$		OR	x \$52 = \$	2288
Independent	6	Less 3	3	x \$110 = \$		OR	x \$220 = \$	660
Multiple Dependent Claims				x \$195 = \$		OR	x \$390 = \$	
Declaration and Surcharge Fee				X \$65 = \$		OR	X \$130 = \$	130
Excess Page Fee								1350
				TOTAL FILING FEE \$			TOTAL FILING FEE \$	5518.00

- ☐ Applicants petition for an extension of time to respond under 37 CFR § 1.136(a) as follows:

	SMALL ENTITY			LARGE ENTITY	
	Rate	Add'l Fee		Rate	Add'l Fee
☐ Extension for Response within FIRST month	x \$65 = \$		OR	x \$130 = \$	
☐ Extension for Response within SECOND month	x \$245 = \$		OR	x \$490 = \$	
☐ Extension for Response within THIRD month	x \$555 = \$		OR	x \$1110 = \$	
☐ Extension for Response within FOURTH month	x \$865 = \$		OR	x \$1730 = \$	
☐ Extension for Response within FIFTH month	x \$1175 = \$		OR	x \$2350 = \$	

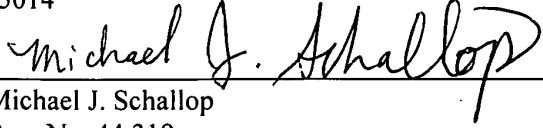
- ☒ Check No. 4785 for \$5518.00 is enclosed.

General Authorizations

- ☒ Applicants hereby make and generally authorize any Petitions for Extensions of Time as needed for this or any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR § 1.17 as needed to Deposit Account No. 50-0685 (Order No. RALEP007).
- ☒ The Commissioner is given general authorization to charge any fees or to credit any overpayment during the pendency of this application to Deposit Account No. 50-0685 (Order No. RALEP007).
- ☒ Please send correspondence to the following address:

Customer No. 21912
VAN PELT, YI & JAMES LLP
10050 N. Foothill Blvd.
Suite 200
Cupertino, CA 95014

Date: 5-26-2009


Michael J. Schallop
Reg. No. 44,319



DECLARATION AND POWER OF ATTORNEY FOR ORIGINAL U.S. PATENT APPLICATION

Attorney's Docket No. RALEP007

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **AUTOMATED DEVICE PROVISIONING AND ACTIVATION**, the specification of which,

- (check one)
1. ☐ is attached hereto.
 2. ☒ was filed on March 2, 2009 as
U.S. Application No. 12/380,780
and was amended on _____.
 3. ☐ was filed on _____ as
International PCT Application No. _____
and was amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

For Assigned Inventions: I understand that the purpose of making this appointment is to permit prosecution of patent applications for the above-identified invention for the benefit of my assignee, and that this appointment does not create an attorney-client relationship between me and these appointees.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under Title 35, United States code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Benefits Claimed?

(Appl. No.)

(Country)

(Filing Date)

☐ Yes ☐ No

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Prior Provisional Application(s)

61/206,354
(Application No.)

1/28/2009
(Filing Date)

61/206,944
(Application No.)

2/4/2009
(Filing Date)

61/207,393
(Application No.)

2/10/2009
(Filing Date)

61/207,739
(Application No.)

2/13/2009
(Filing Date)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. Application(s)

(Application No.)

(Filing Date)

(Status - patented, pending, abandoned)

And I hereby appoint the attorneys and/or agents associated with Customer No. **21912** as my principal attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Please Direct all Correspondence To:

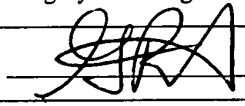
Customer No. 21912

VAN PELT, YI & JAMES LLP
10050 N. Foothill Blvd., Suite 200
Cupertino, CA 95014

Direct Telephone Calls To:

Michael J. Schallop at telephone number (408) 207-4762

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or first inventor	Gregory G. Raleigh				
Signature of sole or first inventor				Date:	March 24, 2009
Residence: City	Woodside	State:	CA	Citizenship:	United States
Mailing Address	131 Fox Hollow Rd., Woodside, CA 94062				



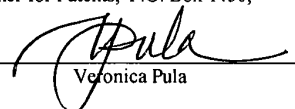
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Gregory G. Raleigh	Examiner:	Not Assigned
Application No.:	12/380,780	Art Unit:	2431
Filed:	March 2, 2009	Docket No.:	RALEP007
Title:	AUTOMATED DEVICE PROVISIONING AND ACTIVATION		

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in a prepaid envelope addressed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

5/26, 2009.


Veronica Pula

PRELIMINARY AMENDMENT A

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Prior to the examination of the application on the merits, please amend the application as follows:

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0001], with the following rewritten paragraph:

--This application claims priority to U.S. Provisional Patent Application No. 61/206,354 (Attorney Docket No. RALEP001+) entitled SERVICES POLICY COMMUNICATION SYSTEM AND METHOD filed January 28, 2009, U.S. Provisional Patent Application No. 61/206,944 (Attorney Docket No. RALEP002+) entitled SERVICES POLICY COMMUNICATION SYSTEM AND METHOD filed February 4, 2009, U.S. Provisional Application No. 61/207,393 (Attorney Docket No. RALEP003+) entitled SERVICES POLICY COMMUNICATION SYSTEM AND METHOD filed February 10, 2009, and U.S. Provisional Patent Application No. [[____]] 61/207,739 (Attorney Docket No. RALEP004+) entitled SERVICES POLICY COMMUNICATION SYSTEM AND METHOD filed on February 13, 2009, which are incorporated herein by reference for all purposes. –

Please replace paragraph [0026], with the following rewritten paragraph:

-- ~~Figure 22~~ Figures 22A through 22B provide[[s]] tables summarizing various service processor agents (and/or components/functions implemented in software and/or hardware) in accordance with some embodiments.--

Please replace paragraph [0030], with the following rewritten paragraph:

--~~Figures 26A through 26E~~ Figures 26A through 26H provide tables summarizing various service processor heartbeat functions and parameters in accordance with some embodiments. --

Please replace paragraph [0031], with the following rewritten paragraph

--~~Figures 27A through 27G~~ Figures 27A through 27P provide tables summarizing various device based service policy implementation verification techniques in accordance with some

embodiments.--

Please replace paragraph [0032], with the following rewritten paragraph

-- ~~Figures 28A through 28C~~ Figures 28A through 28 E provide tables summarizing various techniques for protecting the device based service policy from compromise in accordance with some embodiments.--

Please replace paragraph [0046], with the following rewritten paragraph

-- ~~Figures 42A through 42F~~ Figures 42A through 42J provide tables summarizing various service policy control commands in accordance with some embodiments. --

Please replace paragraph [00318], with the following rewritten paragraph:

-- ~~Figure 22~~ Figures 22A through 22B provide[[s]] tables summarizing various service processor 115 agents (and/or components/functions implemented in software and/or hardware) in accordance with some embodiments. Many of these agents are similarly described above, and the table shown in ~~Figure 22~~ Figures 22A through 22B [[is]] are not intended to be an exhaustive summary of these agents, nor an exhaustive description of all functions that the agents perform or are described herein, but rather ~~Figure 22~~ Figures 22A through 22B [[is]] are provided as a summary aid in understanding the basic functions of each agent in accordance with some embodiments and how the agents interact with one another, with the service controller server elements, and/or with other network functions in certain embodiments to form a reliable device based service delivery solution and/or platform.--

Please replace paragraph [00328], with the following rewritten paragraph:

--~~Figures 26A through 26E~~ Figures 26A through 26H provide tables summarizing various service processor heartbeat functions and parameters (e.g., implemented by various agents, components, and/or functions implemented in software and/or hardware) in accordance with some embodiments. Many of these heartbeat functions and parameters are similarly described above, and the tables shown in ~~Figures 26A-E~~ Figures 26A through 26H are not intended to be an exhaustive summary of these heartbeat functions and parameters, but rather are provided as an aid in understanding these functions and parameters in accordance with some heartbeat based embodiments described herein.--

Please replace paragraph [00329], with the following rewritten paragraph:

-- ~~Figures 27A through 27G~~ Figures 27A through 27P provide tables summarizing various device based service policy implementation verification techniques in accordance with some embodiments. Many of these device based service policy implementation verification techniques are similarly described above, and the tables shown in ~~Figures 27A through 27G~~ Figures 27A through 27P are not intended to be an exhaustive summary of these device based service policy implementation verification techniques, but rather are provided as an aid in understanding these techniques in accordance with some device based service policy embodiments described herein.--

Please replace paragraph [00330], with the following rewritten paragraph:

-- ~~Figures 28A through 28C~~ Figures 28A through 28E provide tables summarizing various techniques for protecting the device based service policy from compromise in accordance with some embodiments. Many of these techniques for protecting the device based service policy from compromise are similarly described above, and the tables shown in ~~Figures 28A-C~~ Figures 28A through 28E are not intended to be an exhaustive summary of these techniques for protecting the device based service policy from compromise, but rather are provided as an aid in understanding these techniques in accordance with some device based service policy embodiments described herein.--

Please replace paragraph [00371], with the following rewritten paragraph:

-- ~~Figures 42A through 42F~~ Figures 42A through 42J provide tables summarizing various service policy control commands in accordance with some embodiments. Many of these service policy control commands are similarly described above, and the tables shown in ~~Figures 42A-F~~ Figures 42A through 42J are not intended to be an exhaustive summary of these service policy control commands and do not include summaries of all the embodiments described herein, but rather are provided as a summary aid in understanding these service policy control commands in accordance with various embodiments described herein.--

Please replace paragraph [00534], with the following rewritten paragraph:

--It will now be apparent that billing can also be implemented with a single account

encompassing service usage for all users or end point devices connected to an intermediate networking device, or for individual users, end point devices, user groups or end point device groups connected to an intermediate networking device. As similarly described with respect to the service profile, this is accomplished by associating service usage events and associated billing events with an end point device identifier, user identifier, end point device group identifier, and/or user group identifier. --

Please replace paragraph [00546], with the following rewritten paragraph:

--In embodiments in which the end point device requires agent software, the software can be loaded at time of manufacture or during distribution, loaded later, and/or made available for download through the intermediate networking device. In the case in which the end point device agent SW is downloaded through the end point device, there can be locally cached copies of the SW for one or more OS variants stored in a cache on the intermediate networking device, with the cache being updated over the network at convenient or conducive times, or the software can be downloaded live over the network when it is needed by the end point device. Logging the service usage to download this software is another example in which bill by account functionality can be used to track network traffic that may not be desirable to bill to an end point device owner or user, and bill by account functionality can be used to log and mediate such usage out of the user or end point device owner's bill.--

Please replace paragraph [00548], with the following rewritten paragraph:

--In the case of a femto cell intermediate networking device, in some embodiments, it is desirable to facilitate handover from the WWAN network to the femto cell. In some embodiments, this provided in the intermediate networking device service processor 115 in a variety of ways. In some embodiments, the voice and data traffic is routed through a VPN tunnel controlled by the service processor 115 and connected to a network element, such as the transport gateway or another specified traffic concentration destination for the femto cell. In some embodiments, the voice traffic, the data traffic or both can be routed in secure or open Internet channels to different destinations, or the data can be routed directly to the Internet destination specified by the packets. In some embodiments, the femto cell intermediate networking device controls the femto cell frequencies or local frequency channel strength surveys over the intermediate networking device control channel. In some embodiments, the

service processor 115 has a VPN connection to a network base station hand off controller to assist in handoff to and from the WWAN network and/or has the capability to instruct the end point device and the base station handoff controller. In some embodiment, whenever an end point device authenticated for femto cell access is within range of the femto cell, the service provider desires to set up a service processor 115 profile to get the end point device to connect to the femto cell even if it has a strong signal with one or more WWAN base stations so that the WWAN traffic may be offloaded. In some embodiments, the service processor 115 can form a secure control plane link with network AAA functions to manage authorization and admission of end point devices the femto cell has not yet admitted, or the network policies can require re-authorization every time ~~[[a]]~~ an end point device attempts access. Once an end point device is connected to the femto cell intermediate networking device, the verifiable traffic monitoring, control and billing functions described herein can be applied to various application embodiments. For example, the intermediate networking device service policy verification techniques disclosed herein, as similarly described with respect to various device embodiments, can similarly be applied to the femto cell intermediate networking device embodiments. --

AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings include Figures 22A through 22B. Figures 22A through 22B submitted herewith correspond to originally filed Figure 22. These sheets, which include Figures 22A through 22B, replace the original sheet which includes Figure 22.

The attached sheets of drawings include Figures 26A through 26H. Figures 26A through 26H submitted herewith correspond to originally filed Figure 26A through 26E. These sheets, which include Figures 26A through 26H, replace the original sheets which include Figure 26A through 26E.

The attached sheets of drawings include Figures 27A through 27P. Figures 27A through 27P submitted herewith correspond to originally filed Figure 27A through 27G. These sheets, which include Figures 27A through 27P, replace the original sheets which include Figure 27A through 27G.

The attached sheets of drawings include Figures 28A through 28E. Figures 28A through 28E submitted herewith correspond to originally filed Figure 28A through 28C. These sheets, which include Figures 28A through 28E, replace the original sheets which include Figure 28A through 28C.

The attached sheets of drawings include Figures 42A through 42J. Figures 42A through 42J submitted herewith correspond to originally filed Figure 42A through 42F. These sheets, which include Figures 42A through 42J, replace the original sheets which include Figure 42A through 42F.

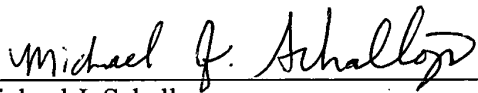
REMARKS

The Specification has been amended to include the serial number for a provisional patent application to which this application claims priority and to correct typographical/clerical errors. The Specification has also been amended to correspond to the formal figures being filed herewith, in which, for example, certain figures providing various tables required additional pages to satisfy requirements for formal drawings. No new matter has been added.

If at any time the Examiner believes that an interview would be helpful, please contact the undersigned.

Respectfully submitted,

Dated: 5-26-2009


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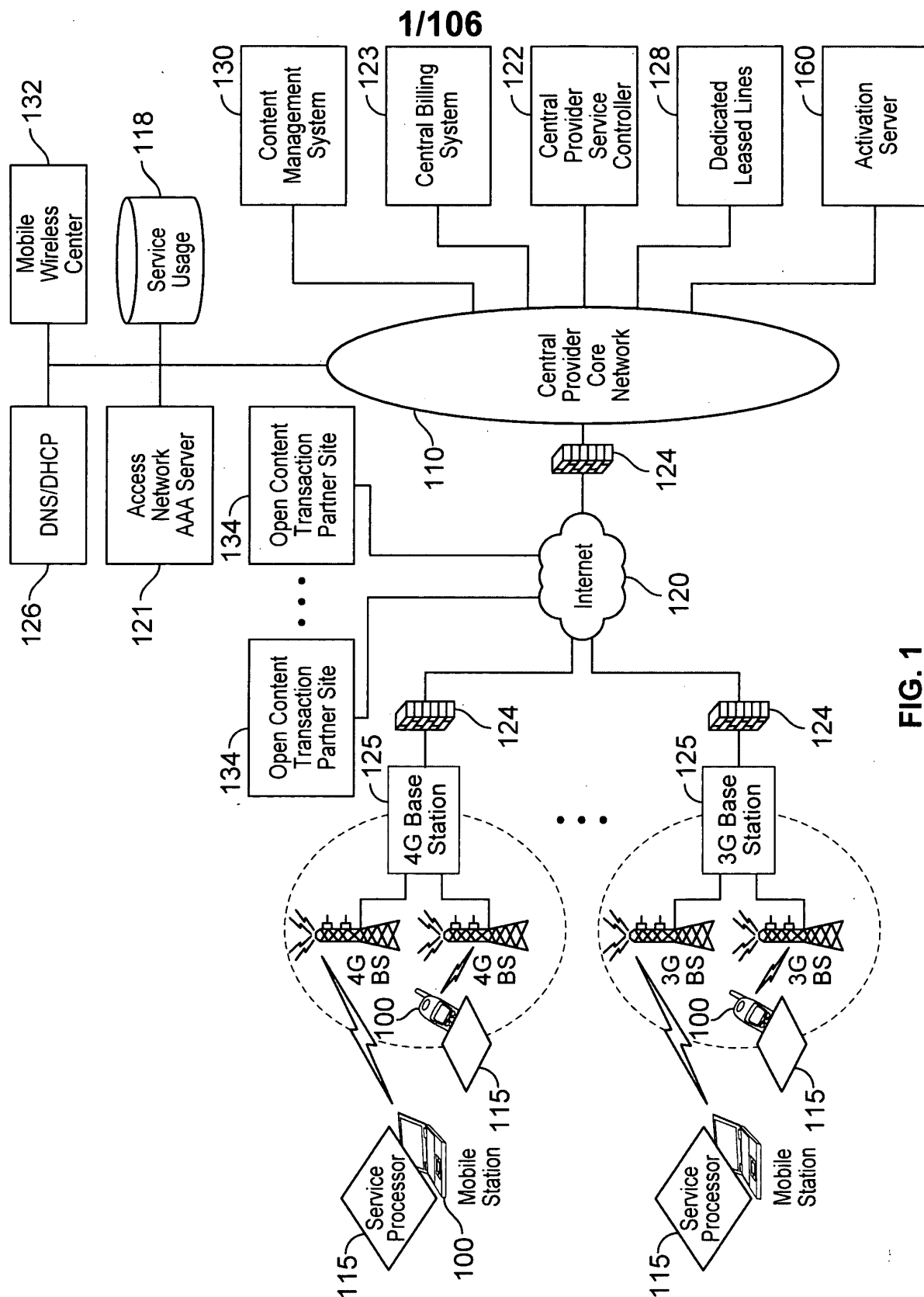


FIG. 1

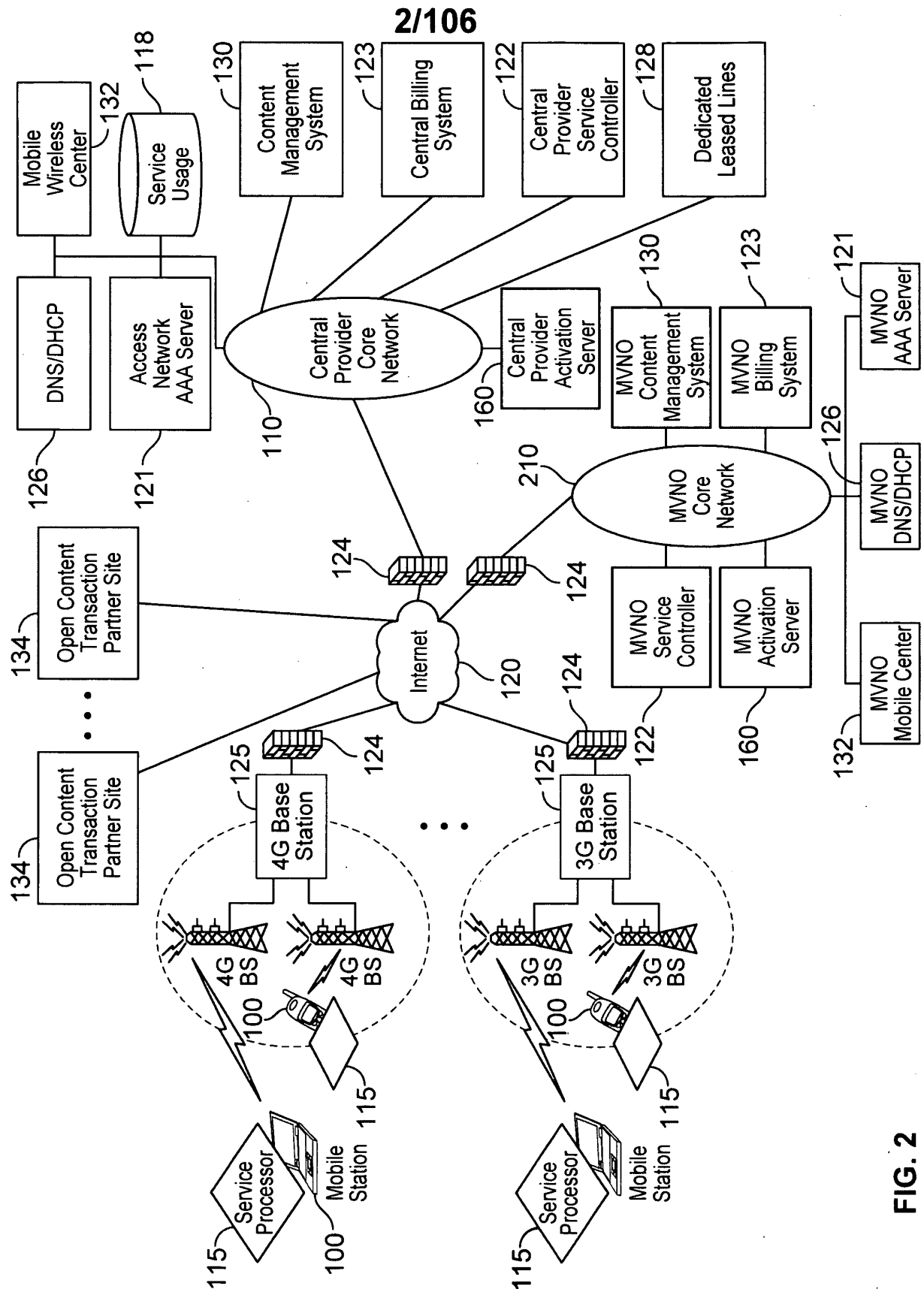


FIG. 2

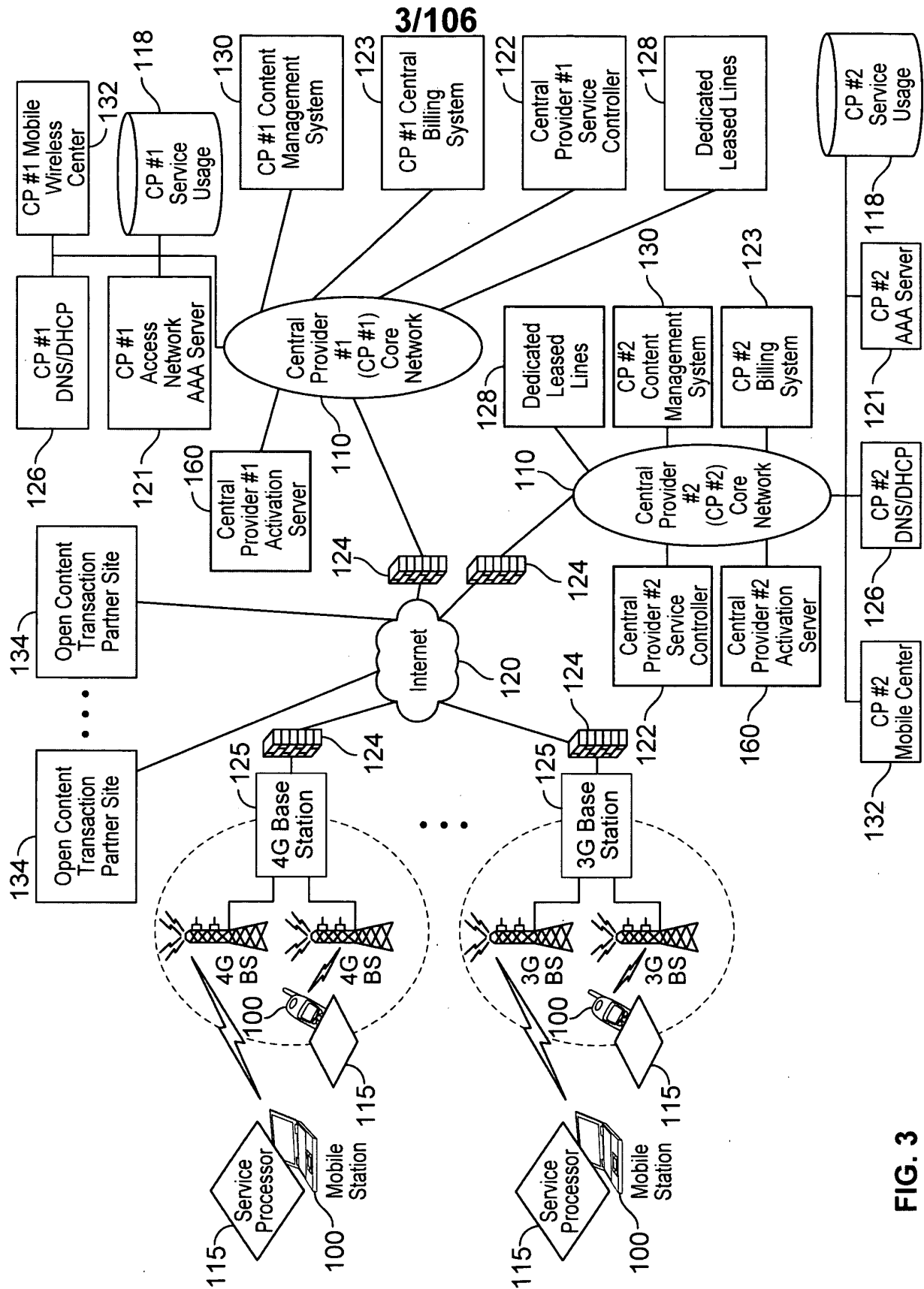


FIG. 3

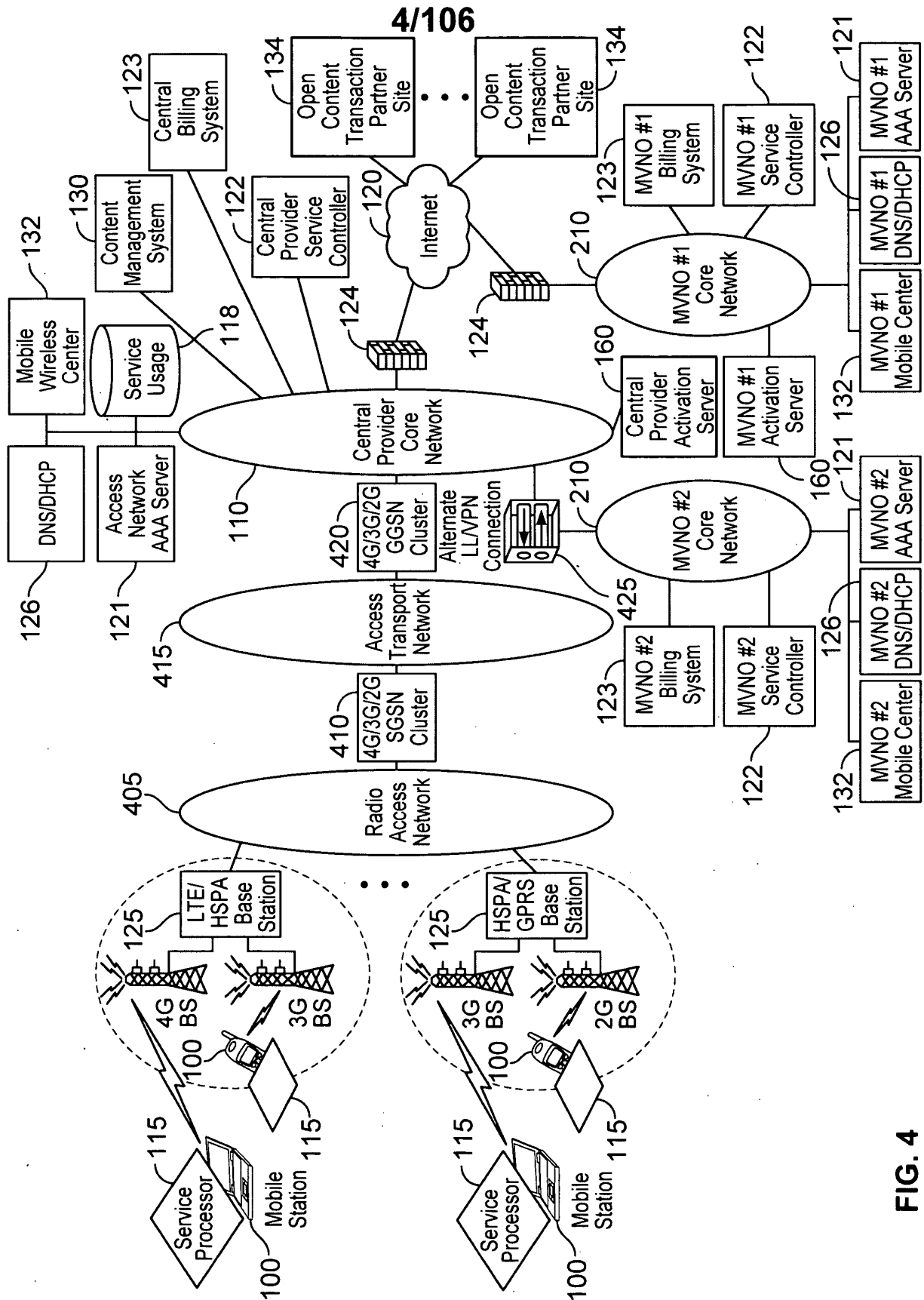


FIG. 4

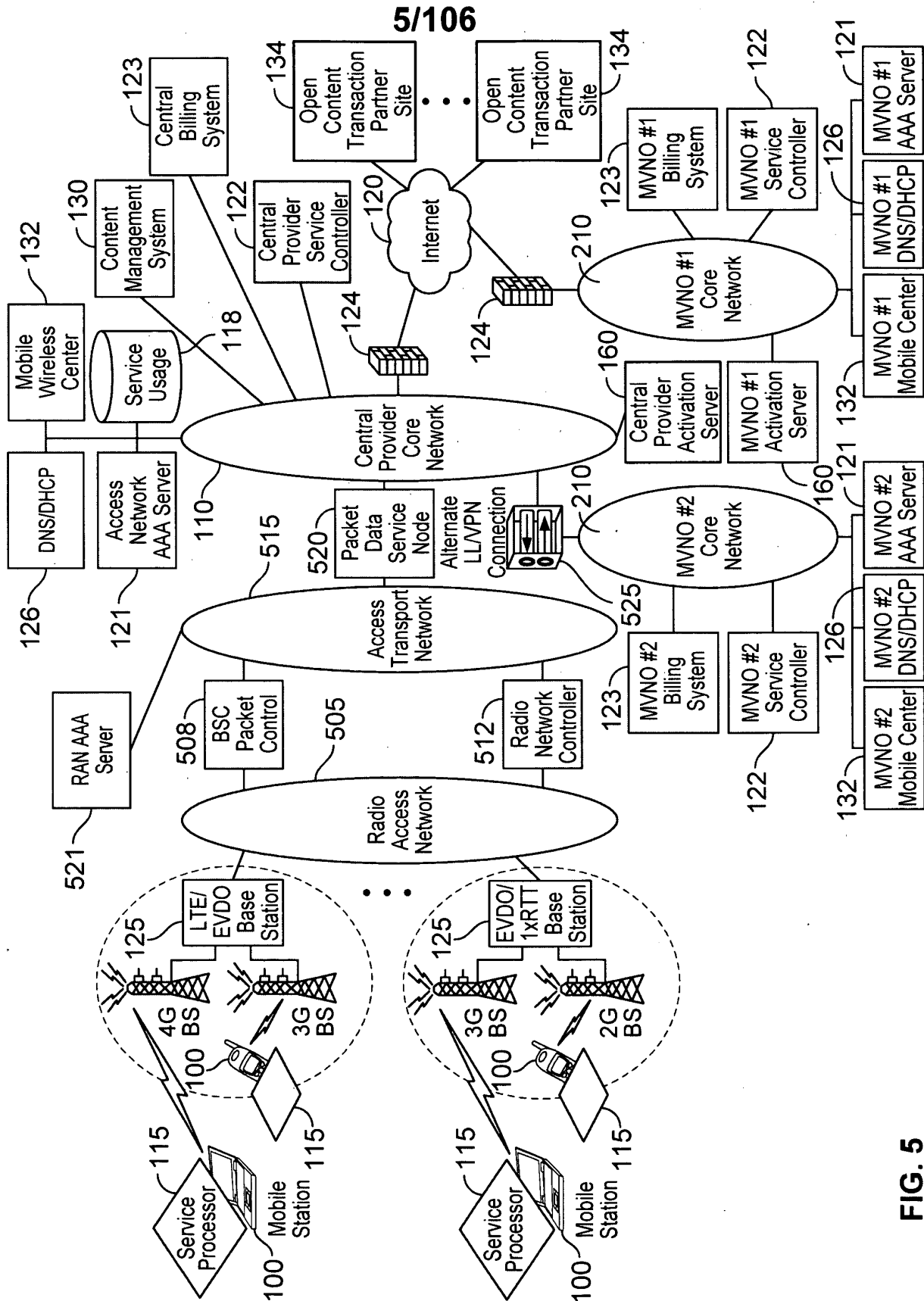


FIG. 5

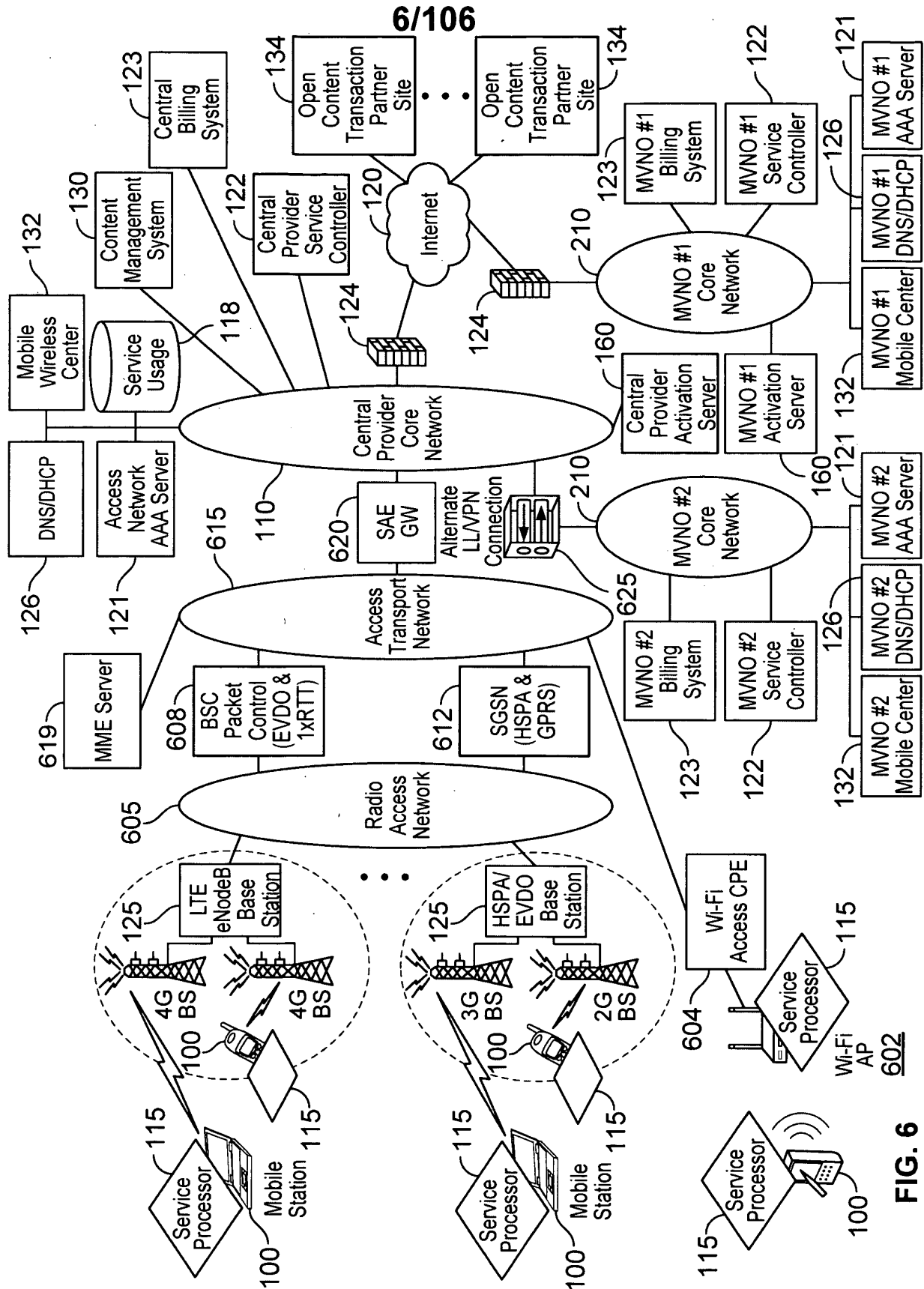


FIG. 6

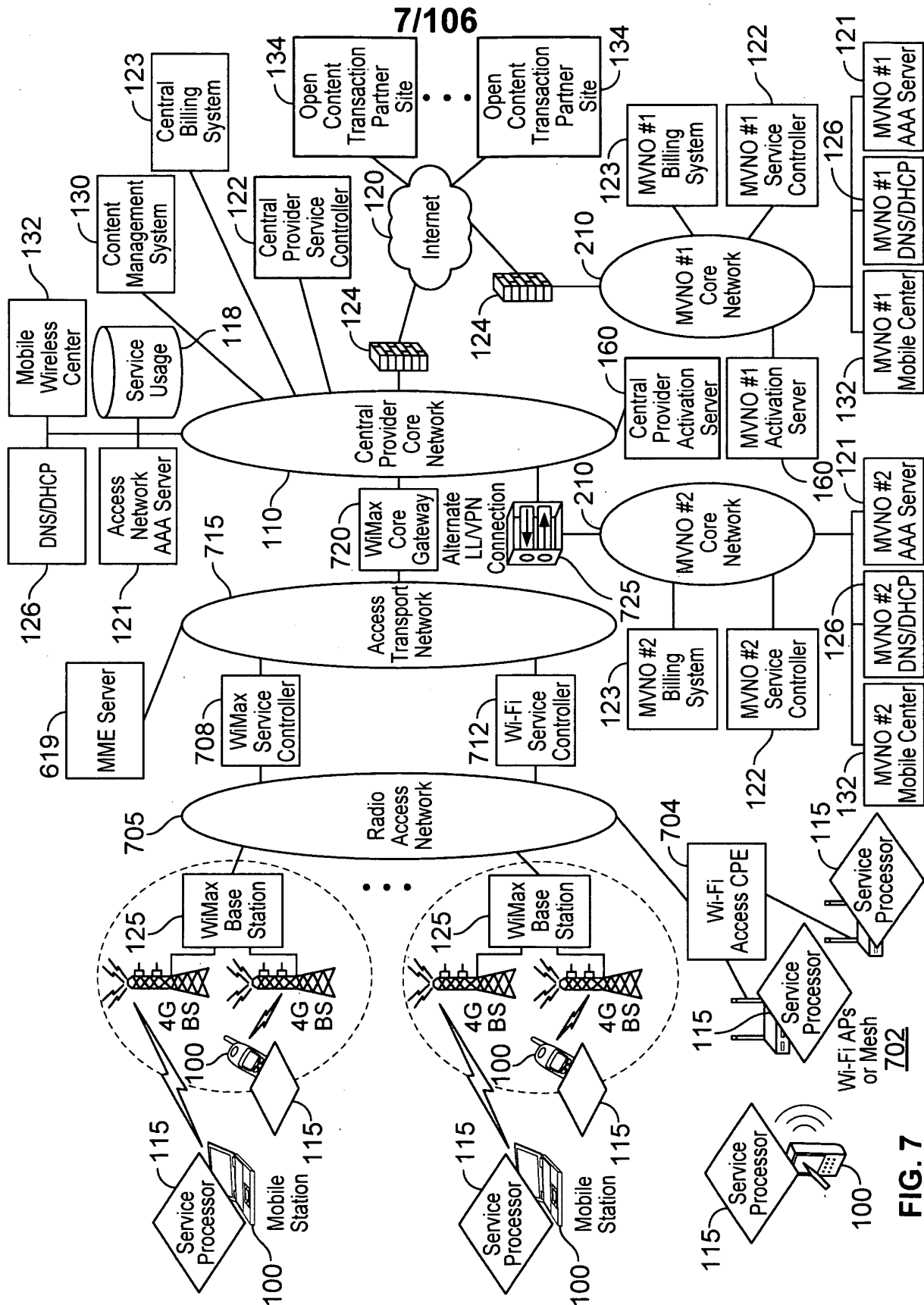


FIG. 7

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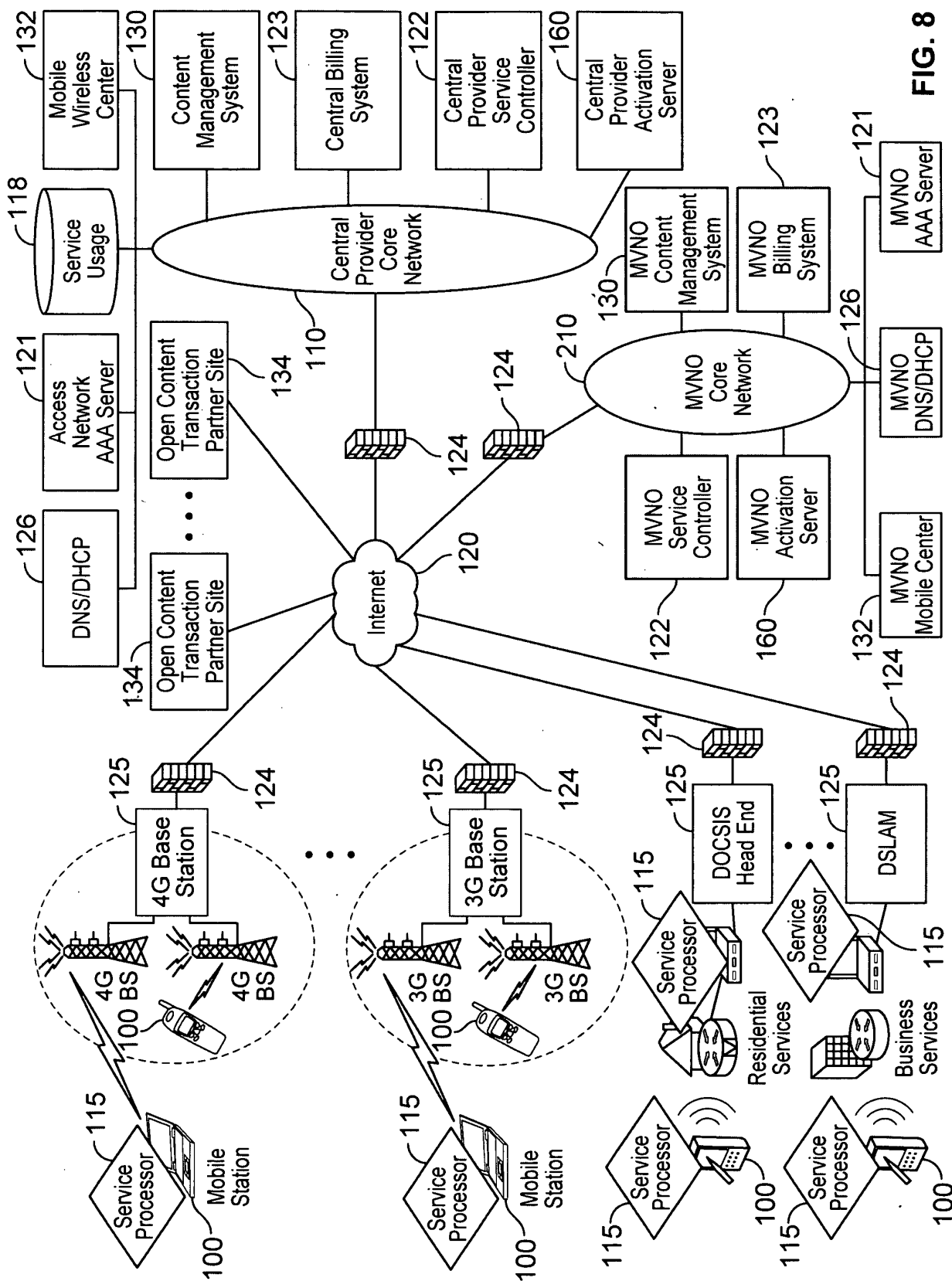


FIG. 8

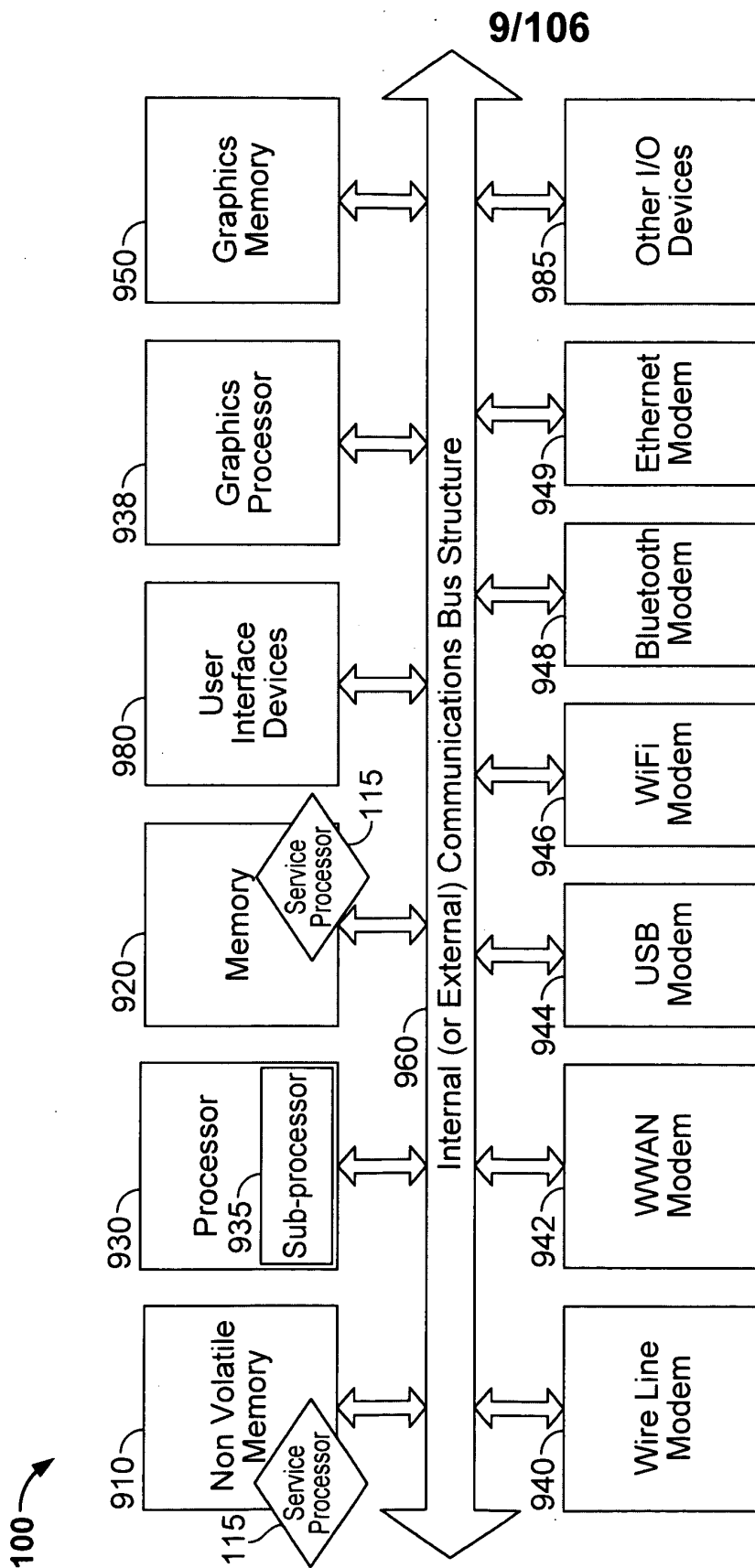


FIG. 9

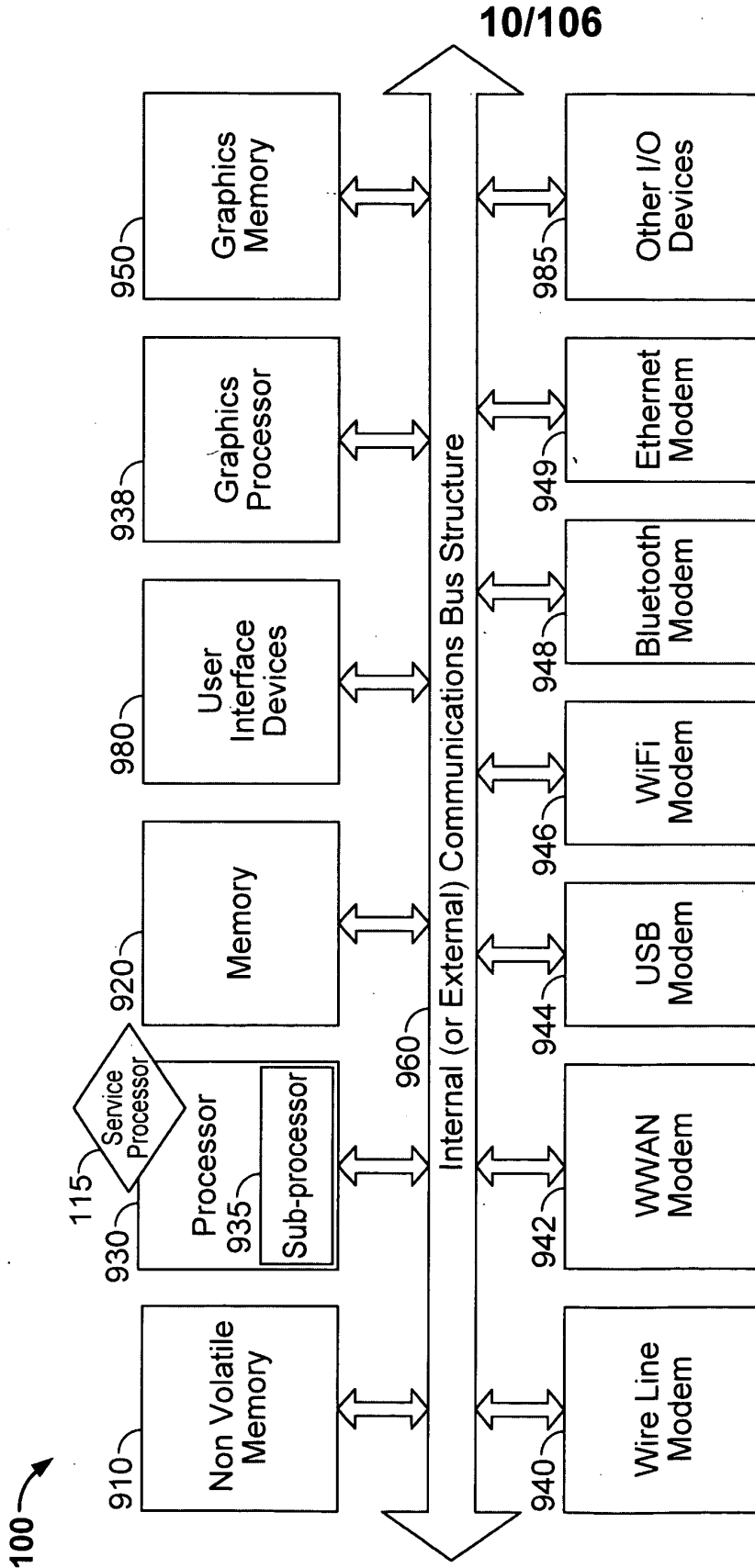


FIG. 10

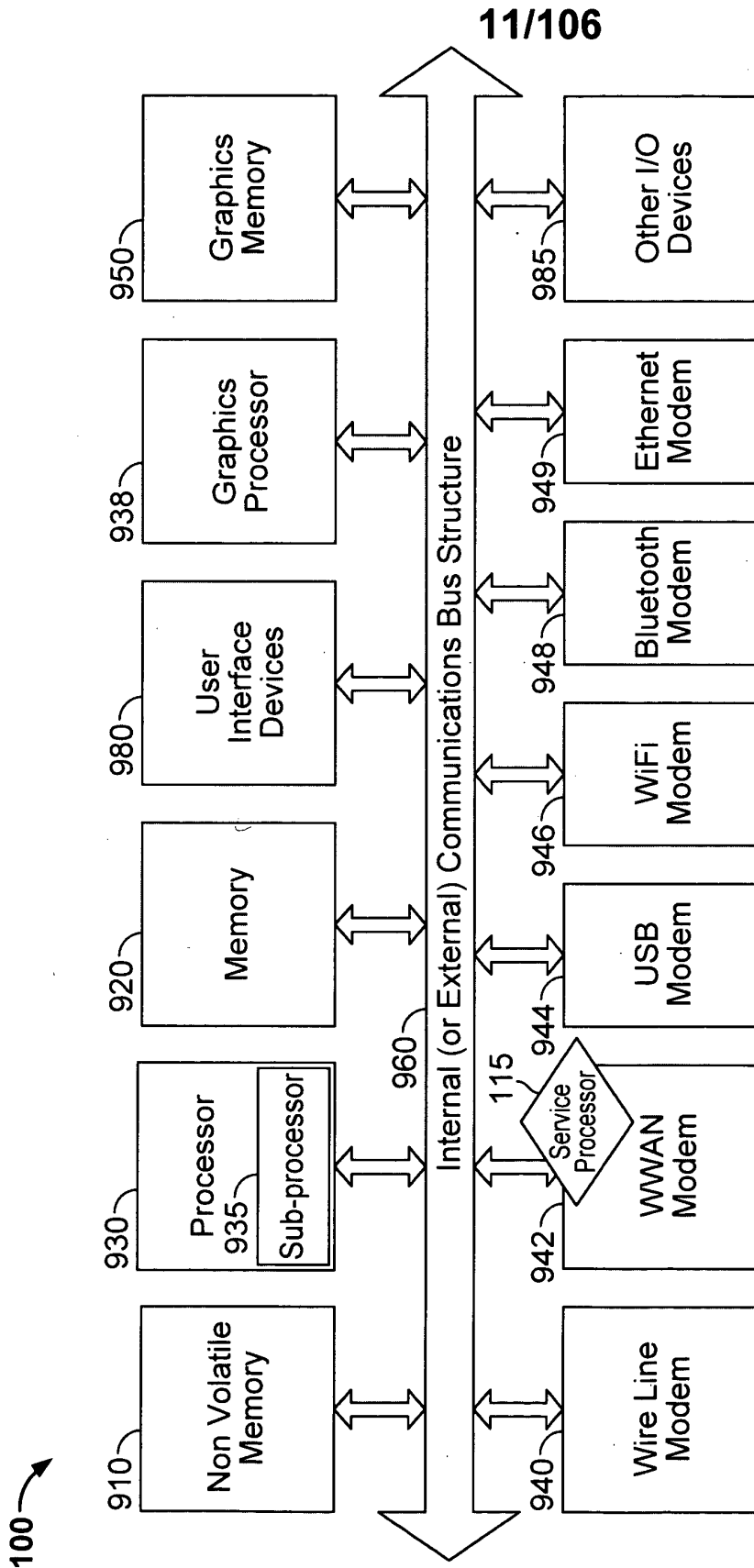


FIG. 11

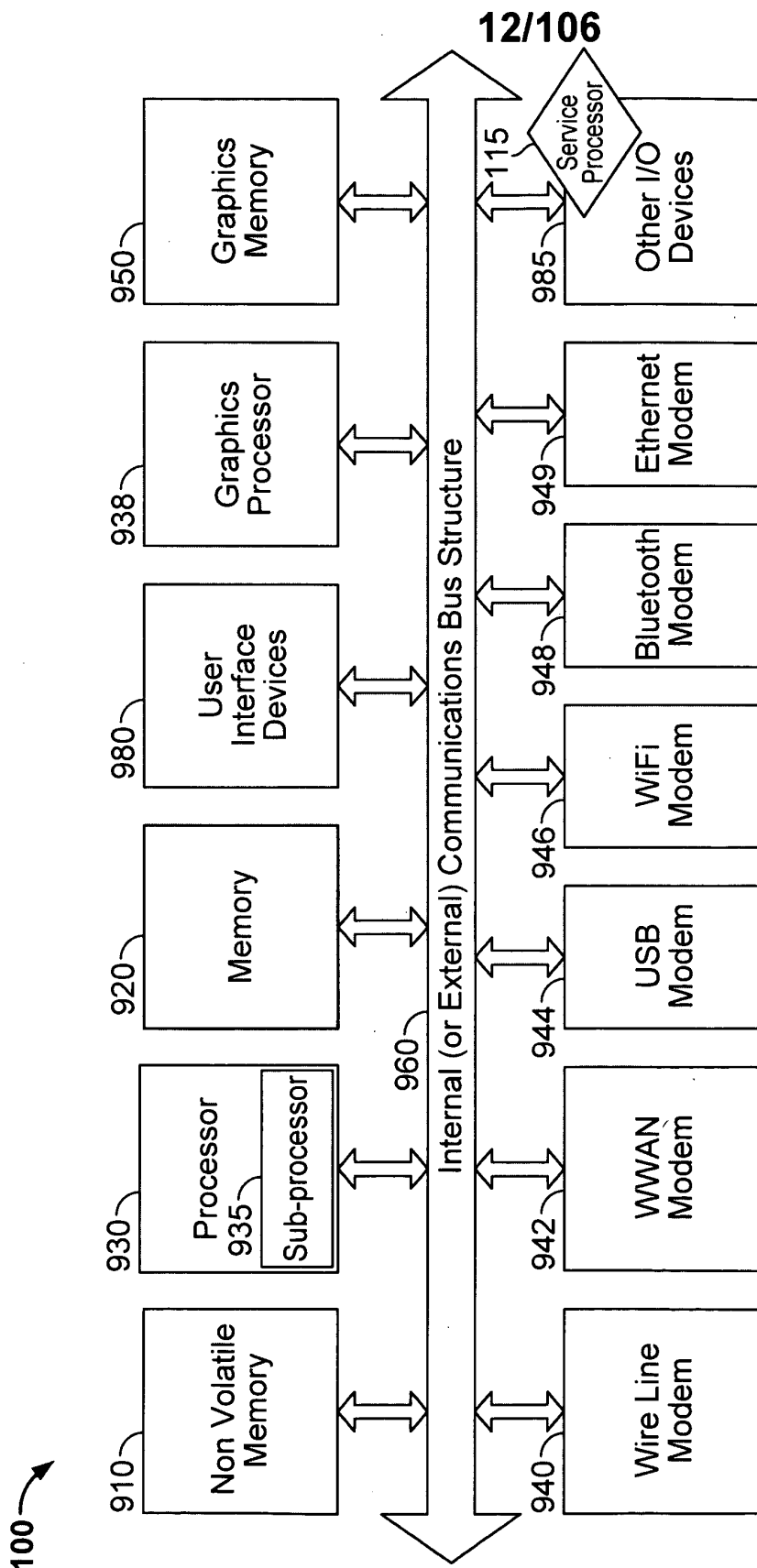


FIG. 12

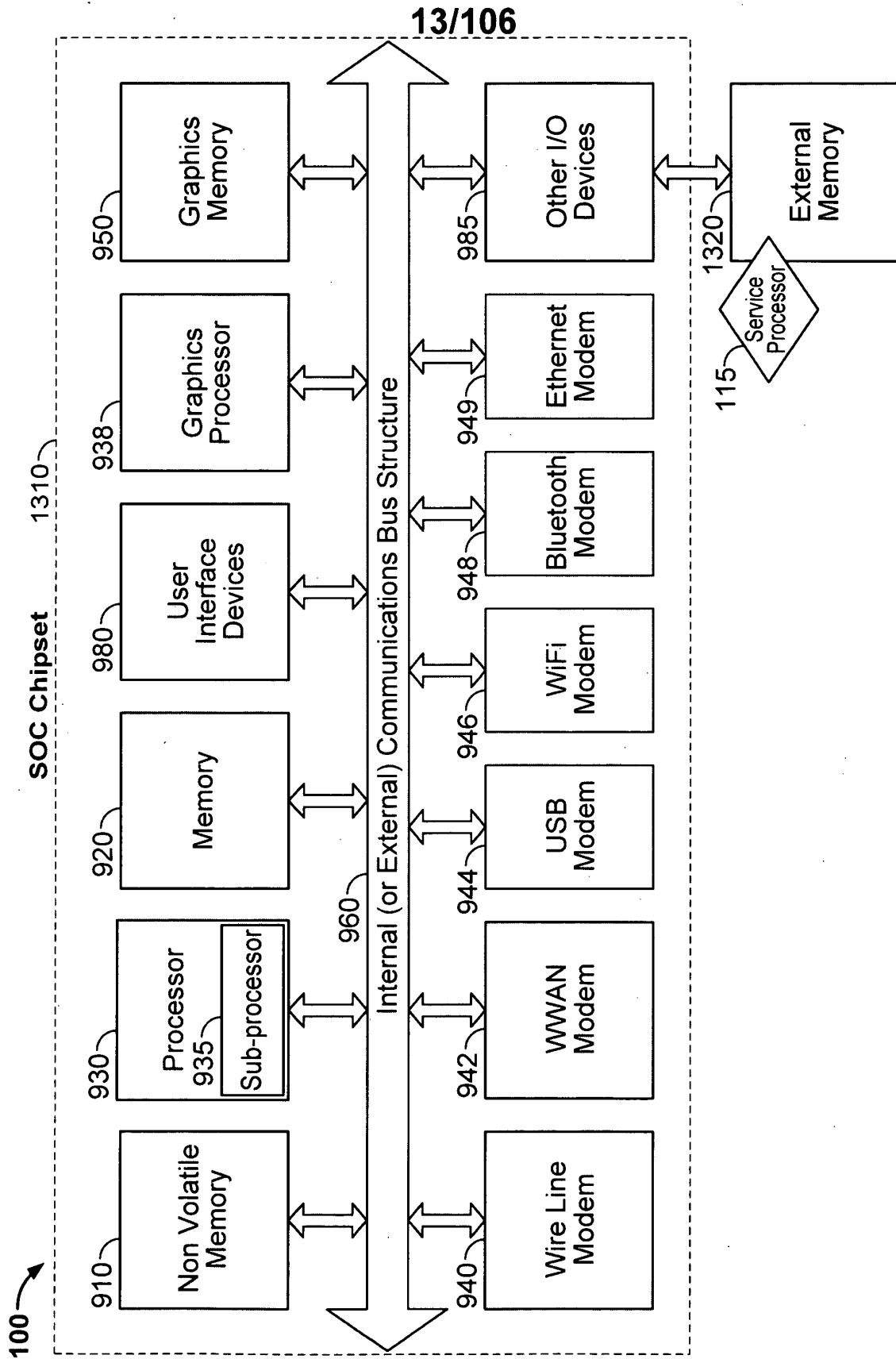


FIG. 13

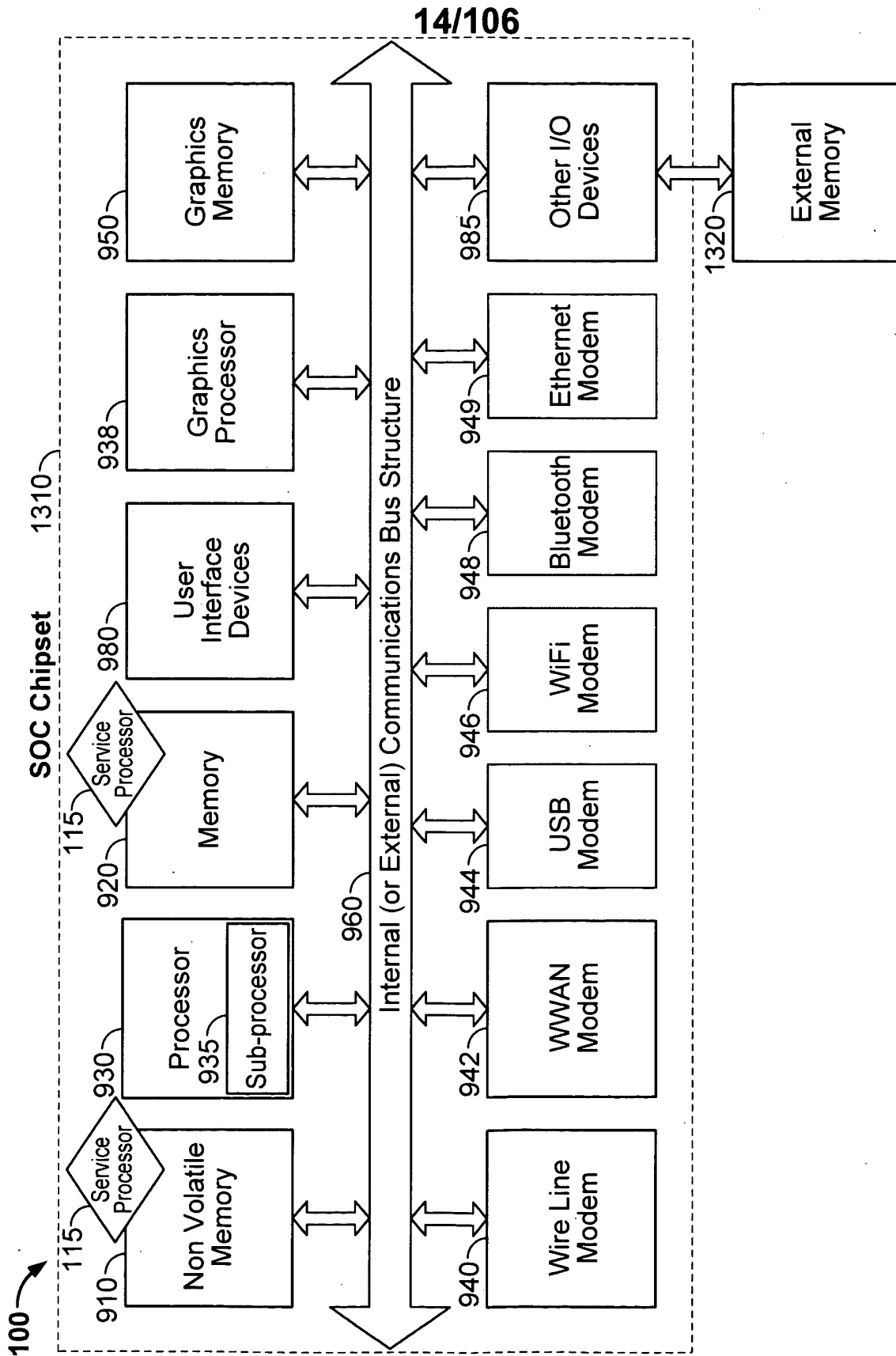


FIG. 14

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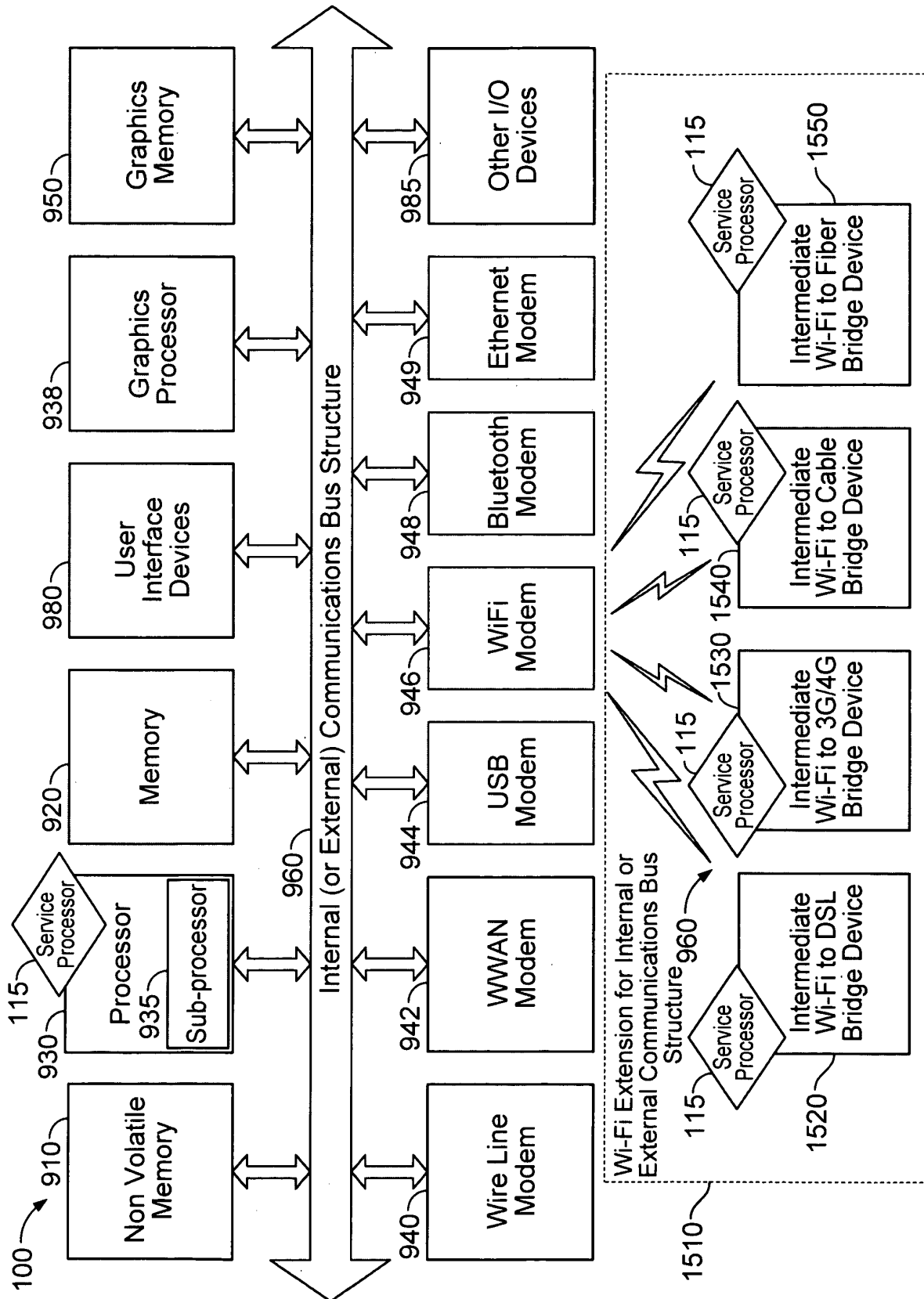


FIG. 15A

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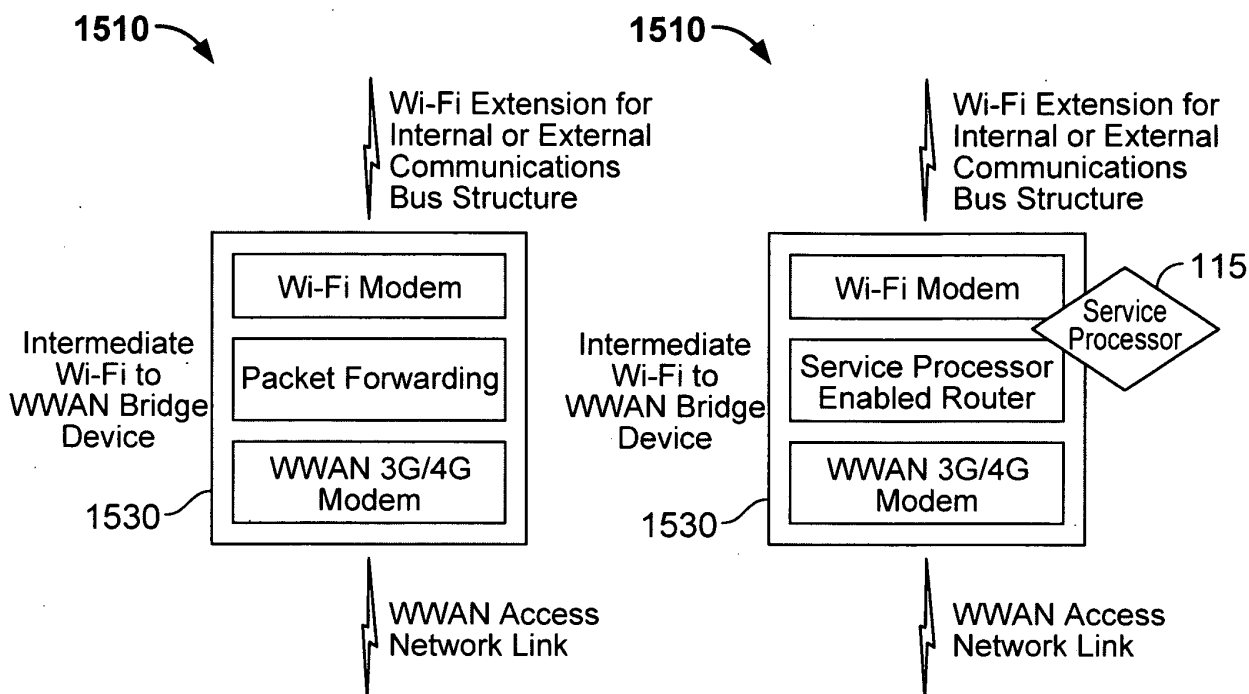


FIG. 15B-1

FIG. 15B-2

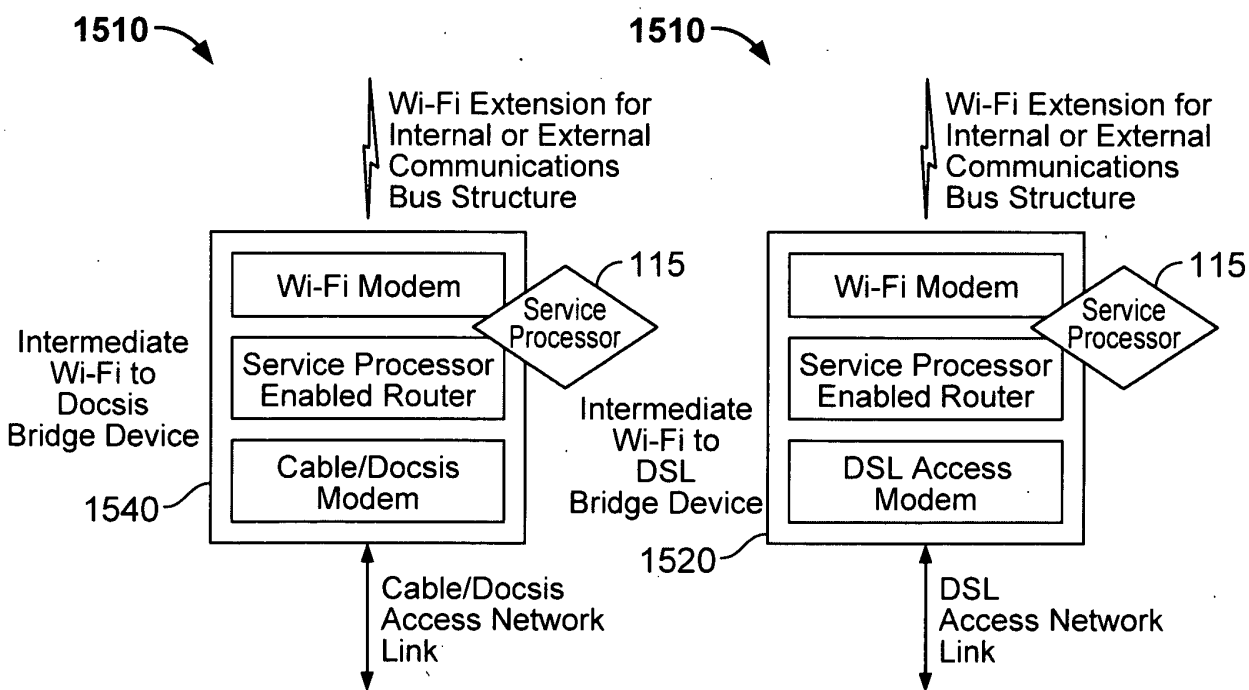


FIG. 15B-3

FIG. 15B-4

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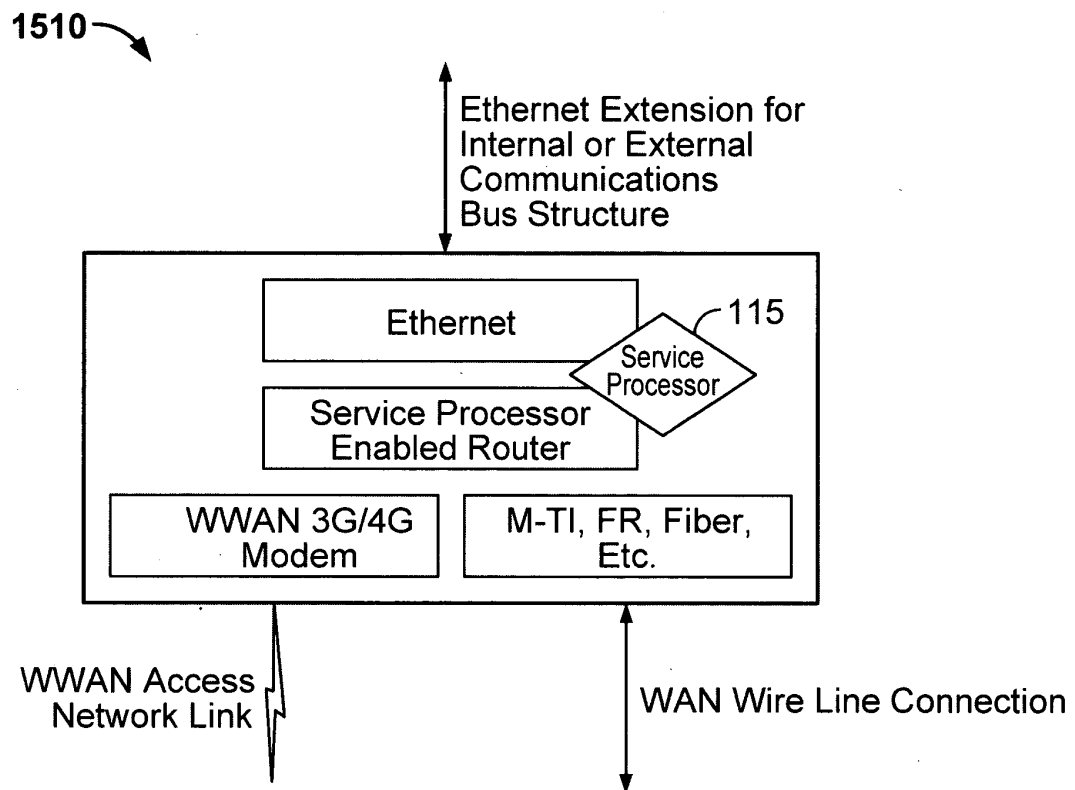


FIG. 15C

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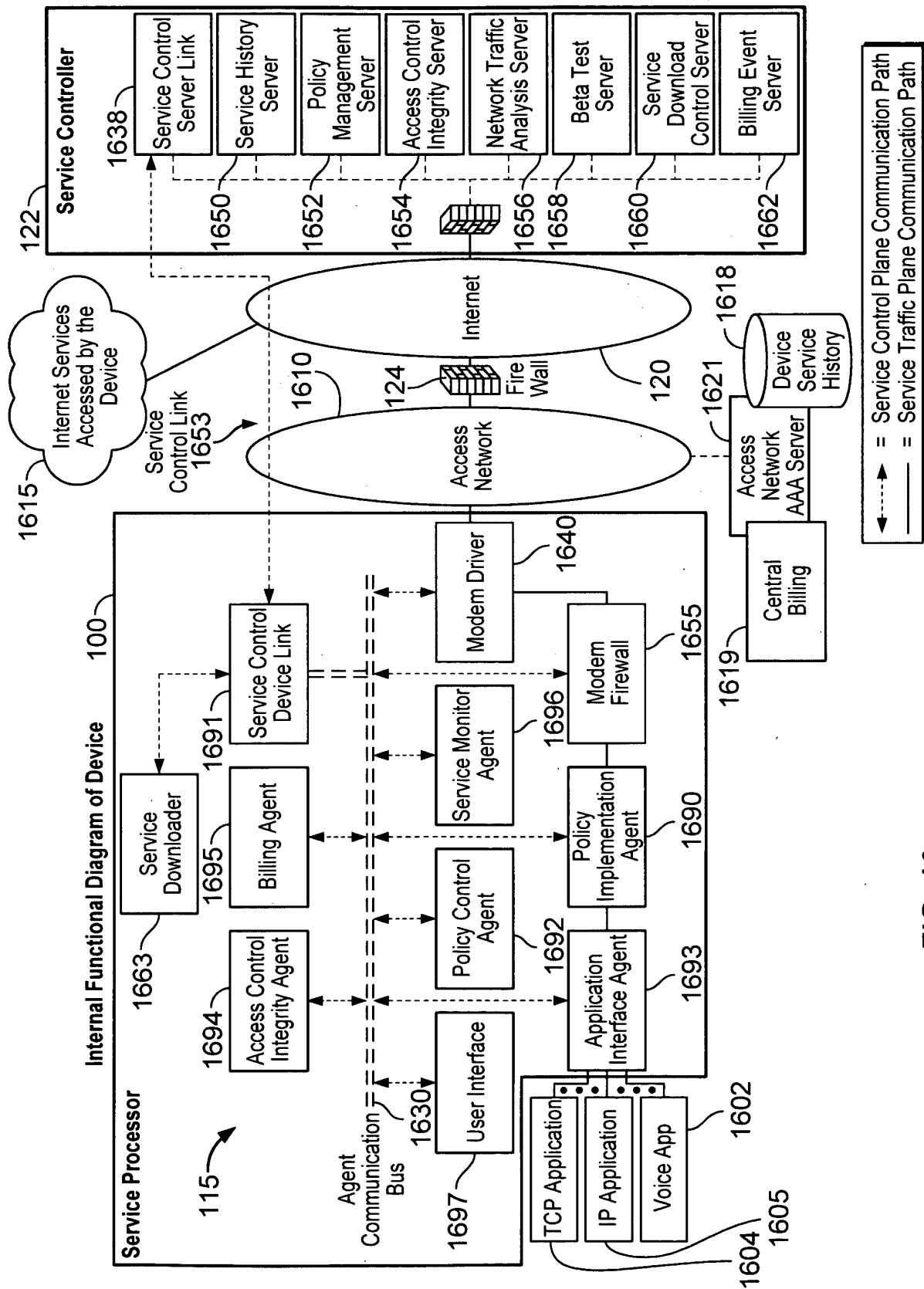
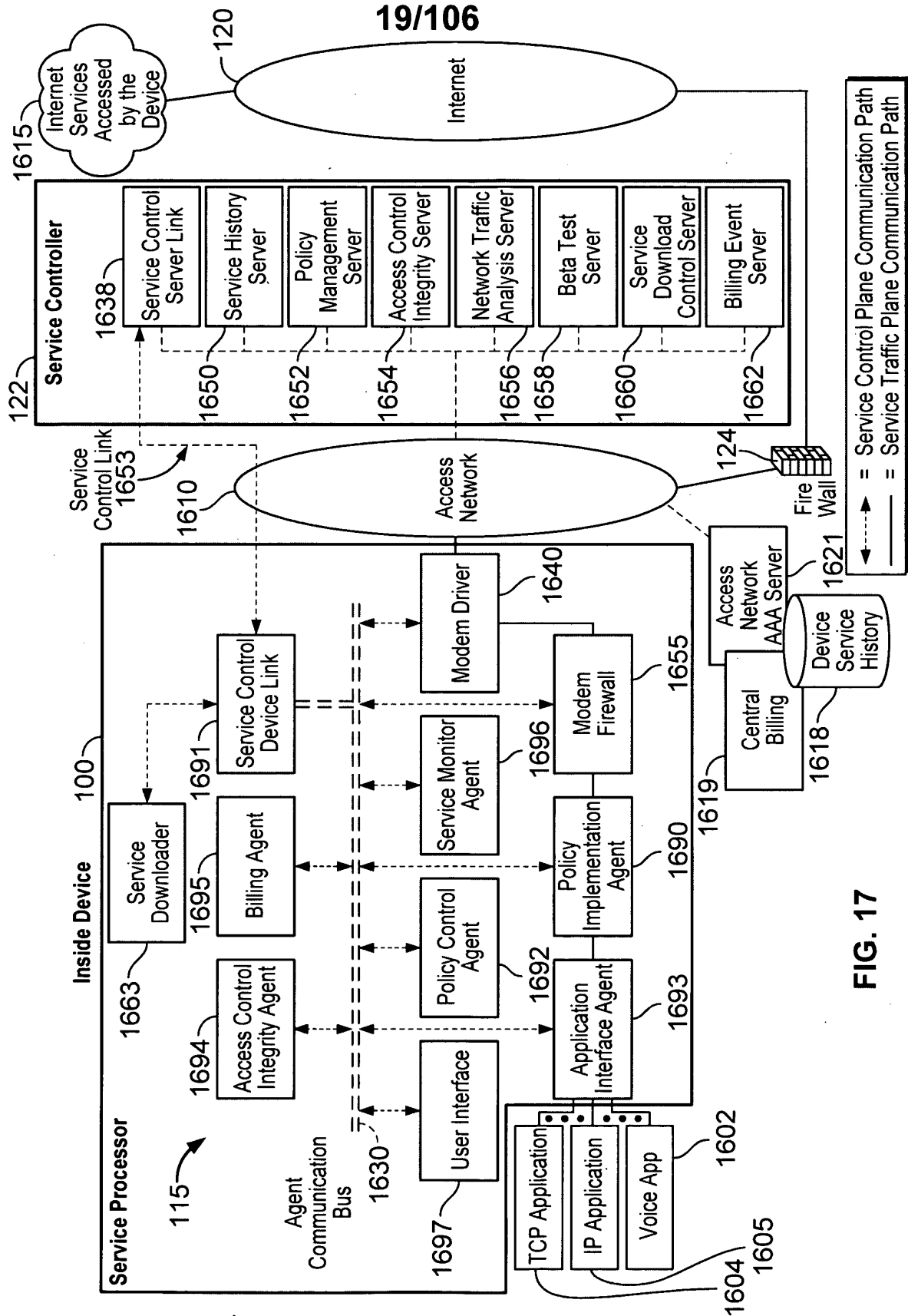
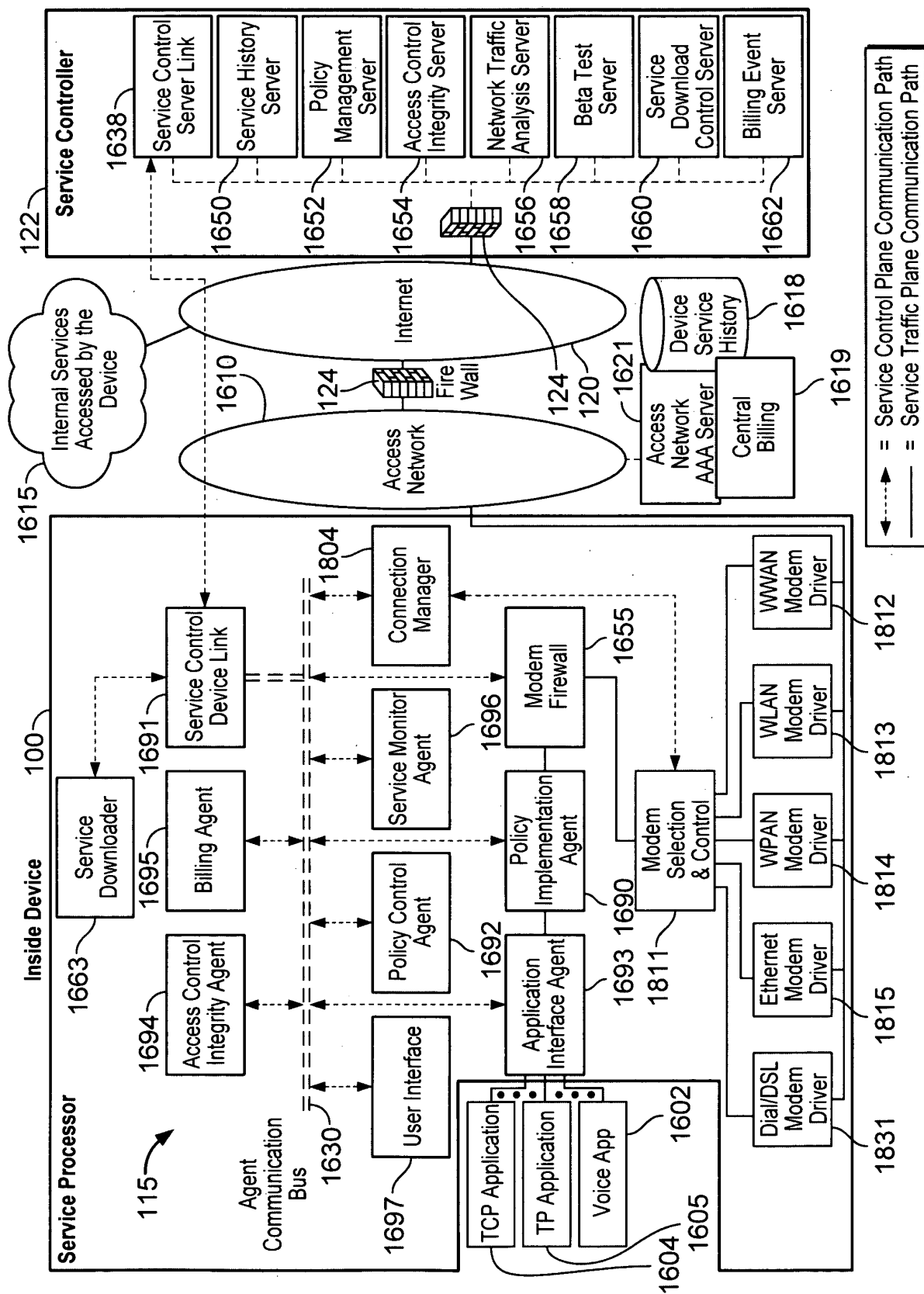
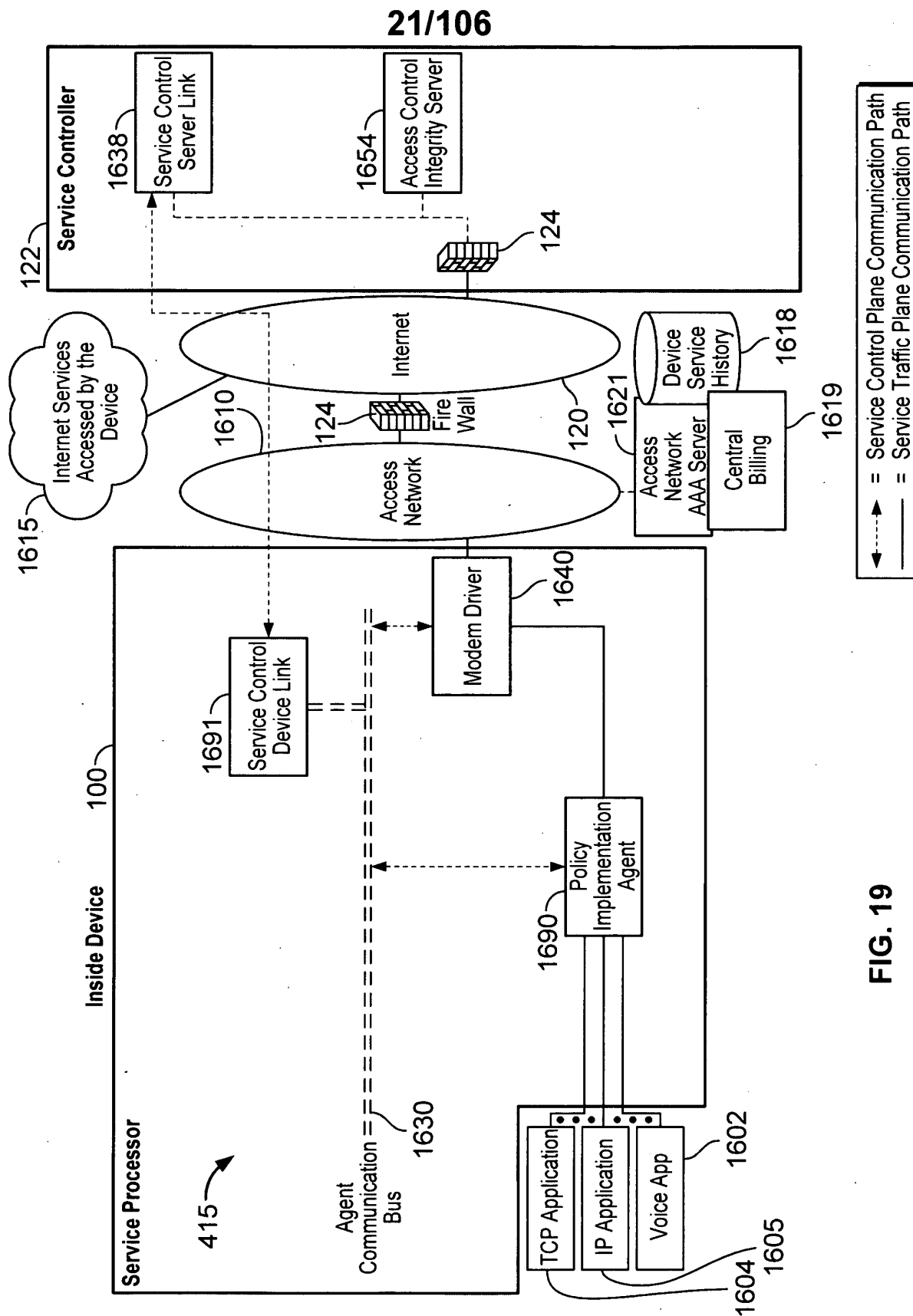


FIG. 16

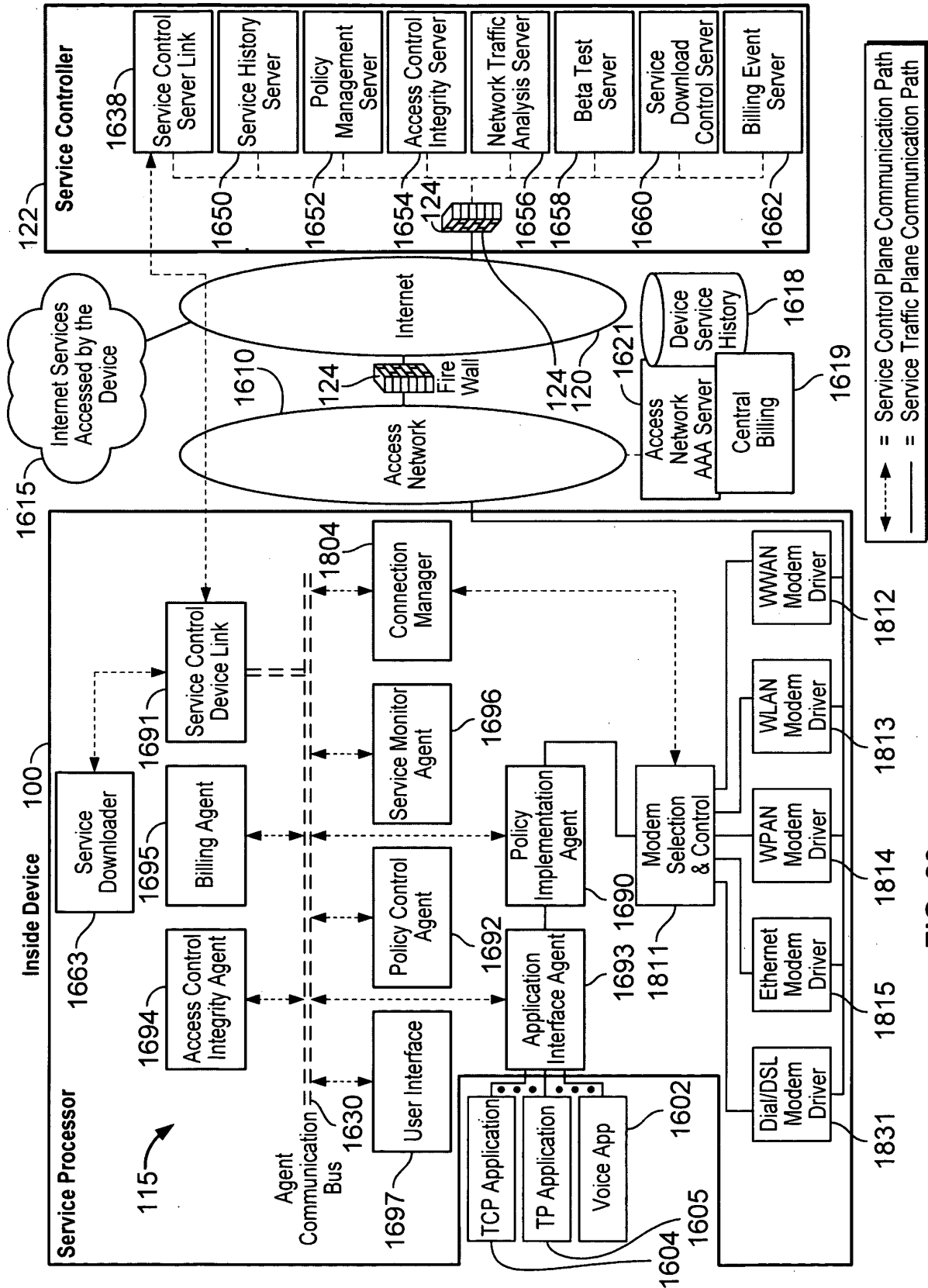


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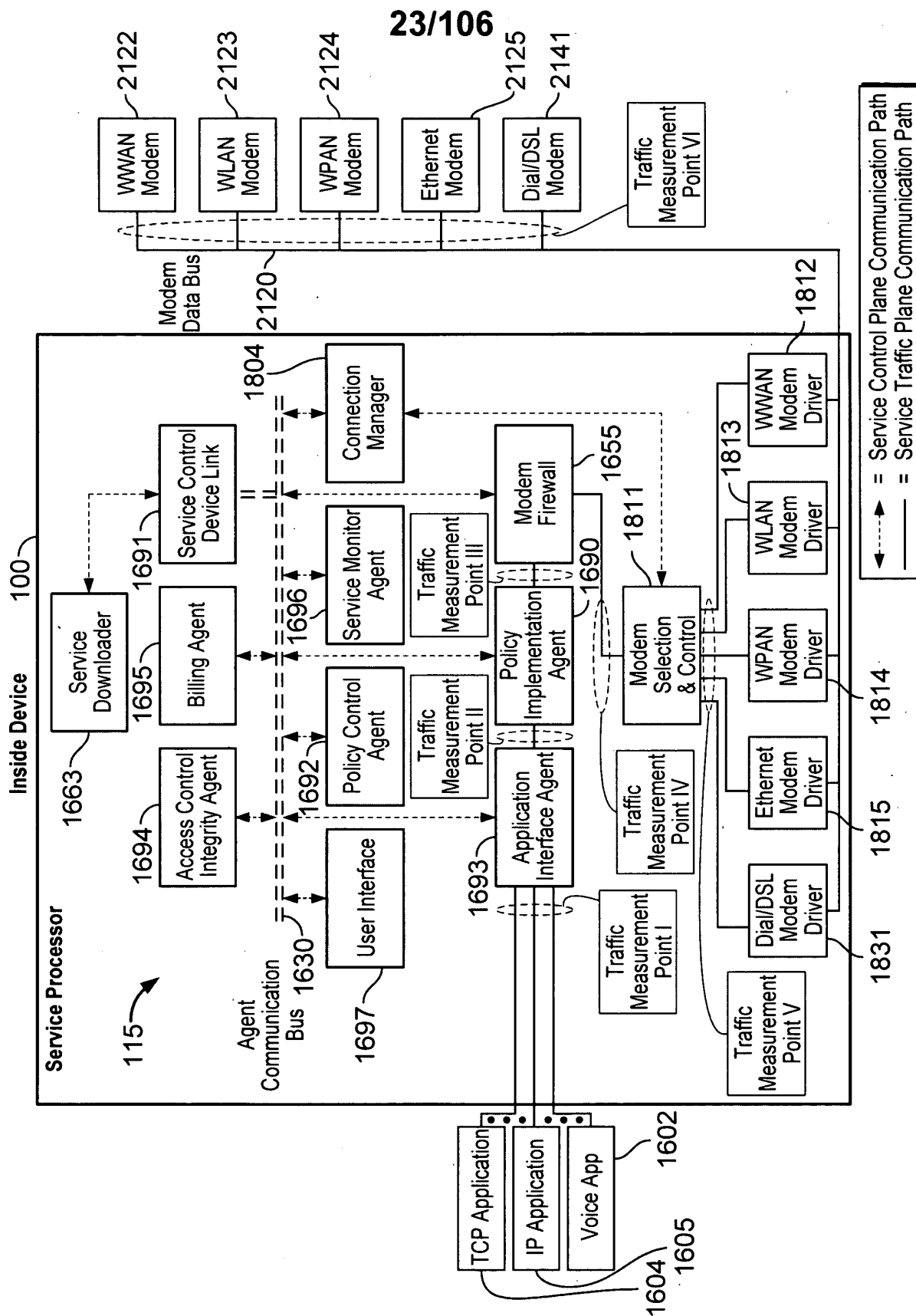


FIG. 21

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Partial Summary of Embodiment Functions	
Service Processor 115 Embodiment	
Service Control Device Link 1691	Device side control plane link for connecting Service Processor 415 to Service Controller. In some embodiments, also serves as the link for the agent heartbeat function.
Access Control Integrity Agent 1694	Collects device information on service policy, service usage, agent configuration and agent behavior. Cross checks this information to identify integrity breaches in the service policy implementation and control system. Initiates action when a service policy violation or a system integrity breach is suspected. In some embodiments, verifies configuration of other agents or performs challenge-response sequence testing. In some embodiments, monitors software loading activity, protected memory access or communication with Service Processor agents to detect unauthorized changes to Service Processor software or configuration.
Policy Control Agent 1692	Takes policy instructions from the network and sets instantaneous device service policy. In some embodiments, performs a policy control function to adapt instantaneous service policies to achieve a service usage objective.
Policy Implementation Agent 1690	Implements traffic control and QOS policy rules for device. In some embodiments provides the functions of access control and/or firewall function or perform traffic inspection and characterization. In some embodiments packet inspection is aided by literal or virtual application layer tagging while in other embodiments packet inspection is performed completely in the Policy Implementation Agent 490.
Service Monitor Agent 1696	Records and reports device service usage. In some embodiments, assists in communicating application tagging of traffic flows through the networking stack policy implementation. In some embodiments, maintains a history and provides reports or summary reports of which networks in addition to the networks controlled by the Service Controller that the device has connected to. In some embodiments, this network activity summary may include a summary of the networks accessed, activity vs. time per connection, traffic vs. time per connection.
Application Interface Agent 1693	Rich feature interface for device application programs. In some embodiments, identifies application level traffic, reports service usage or tags traffic for service QOS control. In some embodiments, interacts with applications or programs applications to arrange application settings such as email file transfer options or browser headers. In some embodiments, intercepts certain application traffic to modify traffic application layer parameters such as email file transfer options or browser headers. In some embodiments implements certain aspects of traffic control or other service policies. In some embodiments, provides the functions of traffic control, access control and/or firewall.
Modem Firewall 1655	Blocks or passes traffic based on service policies and traffic attributes. In some embodiments, assists in traffic flow tagging. In some embodiments provides the functions of traffic control and/or access control.
Billing Agent 1695	Detects and reports billing events. In some embodiments interacts with the User Interface Agent 497 to provide the user with service plan options, accept service plan selections, provide notification on service usage levels, provide options on service usage control policy, accept choices on service usage policy, provide transaction options or accept transaction choices. In some embodiments, interacts with Transaction Servers 134 to conduct ecommerce transactions with central billing.

FIG. 22A

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User Interface Agent 1697	Provide service interface to users.
Service Downloader 1663	Provides a download function to install or update service software elements on the device.
Connection Manager 1804	Provides a control and supervision function for one or more modem drivers or modems that connect to an access network.
Modem Selection and Control 1811	Selects the access network connection.
Modem Drivers 1831, 1815, 1814, 1813, 1812	Converts data traffic into modem bus traffic for one or more modems.
Modems 2141, 2125, 2124, 2123, 2122	Connects the device to one or more networks.

FIG. 22B

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Partial Summary of Embodiment Functions	
Service Controller 122 Element Service Control Server Link 1638	Network side control plane link for connecting Service Controller 422 Service Processor 415 device agents. In some embodiments, also serves as the link for the agent heartbeat function.
Access Control Integrity Server 1654	Collects device information on service policy, service usage, agent configuration and agent behavior. Cross checks this information to identify integrity breaches in the service policy implementation and control system. Initiates action when a service policy violation or a system integrity breach is suspected.
Policy Management Server 1652	Transmits policies to the Service Processor 415.
Access Network AAA Server 1621	Provides access control and authorization functions for the device access layer. Records and reports device network service usage.
Service History Server 1650	Collects and records service usage reports from the Access Network AAA Server 421 and the Service Monitor Agent 496. In some embodiments, maintains a history of which networks in addition to the networks controlled by the Service Controller that the device has connected to. In some embodiments, this network activity summary may include a summary of the networks accessed, activity vs. time per connection, traffic vs. time per connection. In some embodiments, this activity summary is further analyzed or reported to estimate the type of service plan associated with the traffic activity for the purpose of bill sharing reconciliation.
Central Provider Billing System 1619	Provides mediation function for central provider billing events. Accepts service plan changes. In some embodiments, provides updates on device service usage, service plan limits or service policies.
Billing Event Server 1662	In some embodiments, collects billing events, provides service plan information to the Service Processor 415, provides service usage updates to the Service Processor 415, serves as interface between device and central Provider Billing System 123, or provides trusted third party function for certain ecommerce billing transactions.
Network Traffic Analysis Server 1656	Collects service usage history for devices or groups of devices and analyses the service usage. In some embodiments, presents service usage statistics in various formats to identify improvements in network service quality or service profitability. In other embodiments, estimates the service quality or service usage for the network under variable settings on potential service policy. In other embodiments, identifies actual or potential service behaviors by one or more devices that are causing problems for overall network service quality or service cost.
Beta Test Server 1658	Publishes candidate service plan policy setting to one or more devices. In some embodiments, provides summary reports of network service usage or user feedback information for one or more candidate service plan policy setting. In some embodiments, provides a means to compare the beta test results for different candidate service plan policy settings or select the optimum candidates for further setting optimization.
Service Download Control Server 1660	Provides a download function to install or update service software elements on the device.
Transaction Server 134	Provides an electronic commerce offering and transaction platform to the device.

FIG. 23

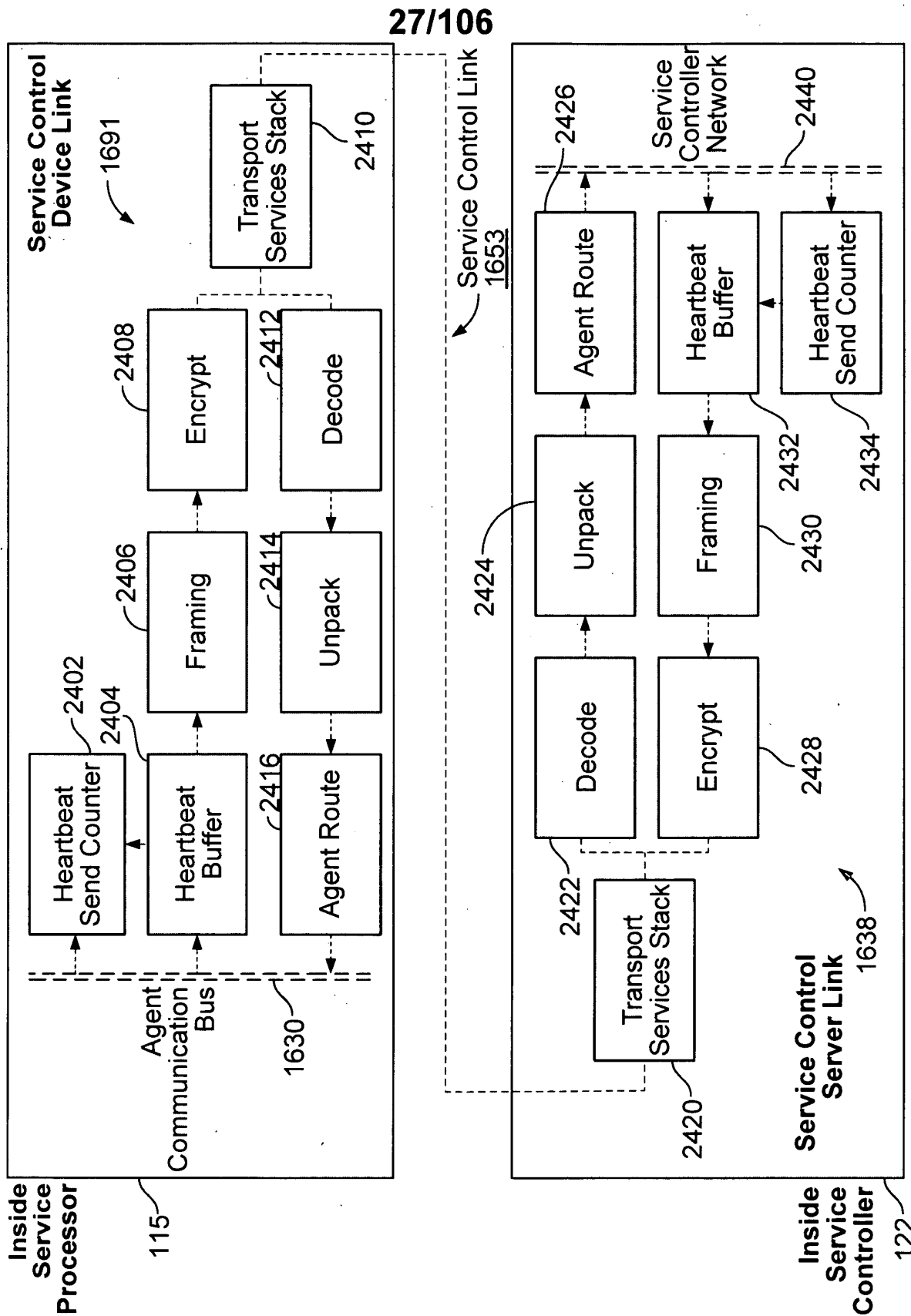
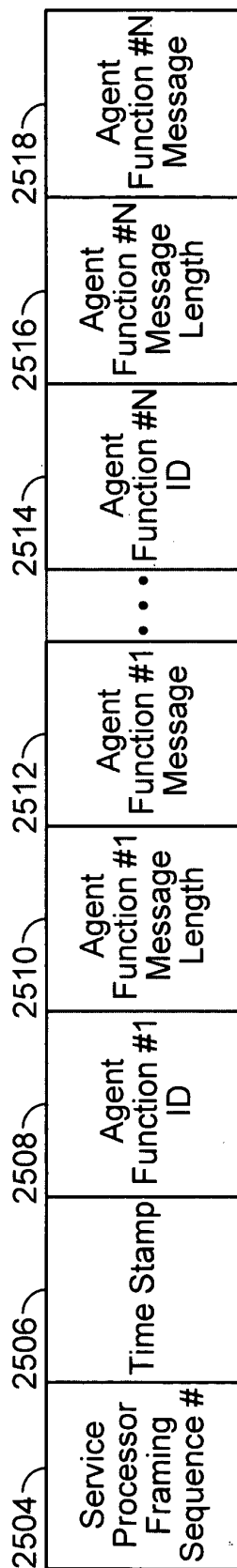
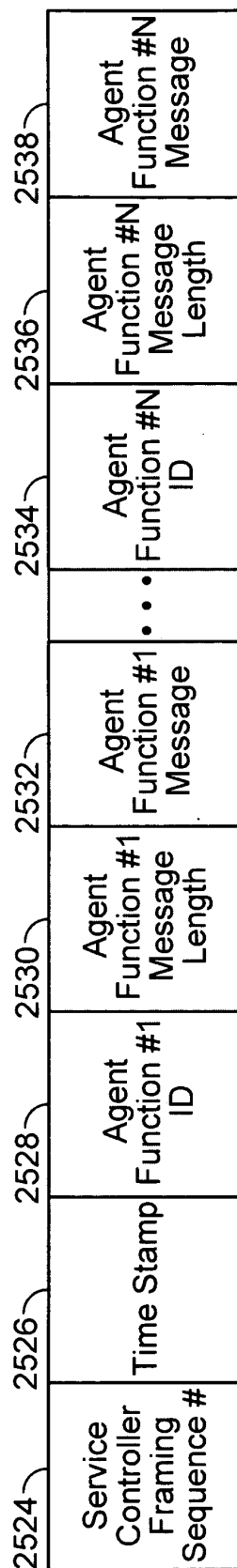


FIG. 24



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Service Processor Communication Frame 2502



Service Controller Communication Frame 2522

FIG. 25

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Example Service Processor Heartbeat Parameter Embodiments	Description	Frequency
Access control integrity report	Contains the latest results of the Access Control Integrity agents Service Processor system checks and reports any error events.	Not necessary to report in every heartbeat if there are no errors. Can report only on error, set a minimum frequency or respond to Service Controller polling.
Service monitor report	Reports filtered summary of Service Monitor Agent measurements. Summary reduces control traffic and filters out unauthorized private information.	Every heartbeat. Some embodiments link this to amount of data usage in the data path to keep overhead low. Report immediately upon polling from Service Controller.
Billing event report	Reports any billing activity since the last heartbeat. Billing events may include service usage events, transaction events, bill by account records, bill by account offset reports or any other event that results in a billing event report.	Send upon billing event. Report immediately upon polling from Service Controller.
Service Processor settings report	Reports service policy settings for all Service Processor agents.	Not necessary to send every heartbeat. Some embodiments link this to amount of data usage to reduce overhead. Can report every N heartbeats. Report immediately upon polling from Service Controller.
Customer resource management report	Reports filtered summary of Service Monitor Agent measurements or filtered summary of other device or user activity such as service preferences, advertisement behavior and location. Summary reduces control traffic and filters out unauthorized private information.	Not necessary to send every heartbeat. Some embodiments link this to amount of data usage to reduce overhead. Can report every N heartbeats. Report immediately upon polling from Service Controller.
Responses to Service Processor agent queries	Sends agent responses to challenge-response queries from the Service Controller.	Report immediately upon polling from Service Controller.

FIG. 26A

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Location tracking service update	Reports filtered summary of location tracking information. Summary reduces control traffic and filters out unauthorized private information.	Not necessary to send every heartbeat. Some embodiments call for a minimum time based transmission frequency.
Service usage based transmission frequency	Lowers overhead by buffering and reserving heartbeat communications from agents and servers until a certain amount of data has been transmitted or received in the network, or a certain amount of service has been consumed. When the parameters are chosen properly, this can result in the network control plane traffic overhead being a small percentage of data path traffic or result in the control plane traffic cost being a small percentage of the service usage cost.	Ranges depending on settings. For example, if there are 5 agents messages that typically need to be communicated, and each message is less than 100 bytes, and Service Processor heartbeat framing plus network overhead would result in a packet size of less than 1,000 bytes, and the heartbeat packet is transmitted when 10,000,000 bytes have been communicated over the data path, then the overhead loss due to one heartbeat packet in each direction is less than 0.02%.
Constant frequency transmissions	Since the device may be off line for long periods of time where the Service Control Processor needs to verify service control integrity, in some embodiments it can be advantageous to transmit heartbeat packets at a minimum rate regardless of data traffic activity. This is accomplished by setting a timer that sends queued heartbeat packets on a regular schedule.	Ranges depending on settings and applications.
Service Controller polled transmissions	In some embodiments, the Service Controller may poll the Service Processor for a heartbeat transmission at which time the Service Processor will frame and transmit all queued heartbeat messages.	Ranges depending on applications. In some embodiments this is used as an on demand function while in others it is used as a way to set heartbeat transmission timing functions in the Service Controller.
Service Processor polled transmissions	In some embodiments, the Service Processor polls the Service Controller for a heartbeat transmission at which time the Service Controller will frame and transmit all queued heartbeat messages.	Ranges depending on applications. In some embodiments this is used as an on demand function while in others it is used as a way to set heartbeat transmission timing functions in the Service Processor.

FIG. 26B

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Agent self-check reports	Agent reports results of various agent self-diagnosis procedures to ensure that the agent is properly configured, operating properly, properly implementing service control policy or has not been tampered with. [provide examples which are extensions of typical software security self diagnosis reporting]	In some embodiments an report is made during every heartbeat transmission. In other embodiments the report is generated by a request from the Service Controller. In other embodiments the report is generated by timing determined by the device. In some embodiments the report is generated when there is a verification error of some kind that is identified.
Environment reports	One or more agents scan the storage or execution environment for one or more of the agents to identify potential threats to the integrity of the service implementation or agent integrity and makes a report. In one example embodiment, a scan is done to determine if unauthorized software or hardware is executing in a secure agent environment. In another embodiment, a scan is done to determine the software that has been loaded into a portion of the device operating environment, memory or storage, and the software list is referenced against a known threat list. In another example embodiment, the list of entities that accessed one or more agents is scanned to determine if an unauthorized access to an agent has occurred. In another embodiment a scan is performed to determine if unauthorized access to secure execution environment, memory or storage has occurred. In another example embodiment, the network access pattern for the device is logged and analyzed to determine if there is an access pattern that is known to be associated with a threat to service or agent control integrity. In another example embodiment, the internal device software, memory or peripheral access pattern is logged and analyzed to determine if there is an access pattern that is known to be associated with a threat to service or agent control integrity.	In some embodiments an report is made during every heartbeat transmission. In other embodiments the report is generated by a request from the Service Controller. In other embodiments the report is generated by timing determined by the device. In some embodiments the report is generated when there is a verification error of some kind that is identified.

FIG. 26C

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User notification response reports	Billing agent, UI agent or another agent logs user notification events and the response of the user to the notification event. In some embodiments these events may be cross-referenced to the notification policy that should be in force on the device and the device service usage to ensure that the proper notification sequences are being adhered to. In other embodiments, the user notification responses are logged and used to document user choices to notification events, billing event decisions, service control decisions or service cost control decisions. In some embodiments, the user may be asked to provide a password, biometric signature, hardware key or other mechanism to positively identify that the user is in possession of the device or to verify that the service is operating properly or is implemented properly. In some embodiments, the user may be asked to acknowledge a service overage notification and/or to also provide a password, biometric signature, hardware key or other mechanism to verify the service overage acknowledgement.	In some embodiments a report is made during every heartbeat transmission. In other embodiments the report is generated by a request from the Service Controller. In other embodiments the report is generated by timing determined by the device, for example when there has been a user notification sequence action with the user. In some embodiments, the report is generated when there is a verification error of some kind that is identified.
User warning response reports	Billing agent, UI agent or another agent logs user warning events and the response of the user to warning event. In some embodiments the user response is used to determine if the user is in positive control of the device. In some embodiments the response is used to confirm that the user acknowledges a billing overage or other service cost event. In some embodiments, the user may be asked to provide a password, biometric signature, hardware key or other mechanism to positively identify that the user is in possession of the device or to verify that the service is operating properly or is implemented properly.	In some embodiments a report is made during every heartbeat transmission. In other embodiments the report is generated by a request from the Service Controller. In other embodiments the report is generated by timing determined by the device, for example when there has been a warning sequence action with the user. In some embodiments the report is generated when there is a verification error of some kind that is identified.

FIG. 26D

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Agent communication log reports	Reports entities that established or attempted to establish communication with the agents. In one embodiment, reports a list of entities and the number of times the entity communicated or attempted to communicate with the agent. In another embodiment, reports an error flag when unauthorized entities attempt to establish communication with an agent.	In some embodiments a report is made during every heartbeat transmission. In other embodiments the report is generated by a request from the Service Controller. In other embodiments the report is generated by timing determined by the device. In some embodiments the report is generated when there is a verification error of some kind that is identified.
Service usage synchronization data	IPDR or other data that is used to synchronize the device service usage counters. In some embodiments the data is time stamped so that the service usage at a point in time may be reconciled between the local device usage count and the network based usage count, and then the local device usage count since the point in time may be used to estimate the present real-time usage count. In some embodiments, the service usage data from the device is used by the network as the actual service usage or billing data base for the device. In other embodiments, a bill by account function is included in the service usage synchronization data so that the service usage may be billed to different accounts other than a single or main user account.	Service usage synchronization is continuous with each heartbeat in some embodiments. In other embodiments service usage synchronization is based on a push from the Service Controller or other network function that sends the IPDR information to the device. In other embodiments, the device requests a synchronization data transmission.
Service cost synchronization data	Information to reconcile a service cost estimate on the local device with a service cost count from a network based function. Similar to the service usage count, in some embodiments the service cost information is time stamped so that service cost at a point in time may be reconciled between the device and the network based function, and then a local measure of service cost may be used to estimate the present real-time service cost. In some embodiments the local service cost is determined by taking recorded billing events and looking up the cumulative cost of one or more billing	Service cost synchronization is continuous with each heartbeat in some embodiments. In other embodiments service cost synchronization is based on a push from the Service Controller or other network function that sends the IPDR information to the device. In other embodiments, the device requests a synchronization data transmission.

FIG. 26E

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	events using a service usage to cost look up data base stored locally on the device or available from a network function. In some embodiments, service cost estimation is done entirely in the network and the result is pushed out to the device UI. In other embodiments service cost estimation is done in the device based on local usage estimates and a local usage to cost lookup table.	
Available network information and roaming information	<p>Device receives available network or available roaming service provider information from a network function. The available network or roaming service information may include the potential network service or roaming service a device or user may choose to select, or the network service or roaming service the user has already selected. In some embodiments this information includes service cost information to aid the device or the user in determining the potential or actual costs of service usage while using the available network or roaming network. In some embodiments the service cost information is used to help the user in selecting the available network provider or roaming service provider. In some embodiments the available network cost information or roaming cost information is combined with a measure of expected or possible service usage to estimate how much a typical usage scenario may cost. In some embodiments, the available network information or roaming information is used to help the user estimate the present available network or roaming service charges for services used to date. In some embodiments service usage is recorded and sent to a network function that estimates the current service cost. In other embodiments the service cost is estimated locally on the device based on a service usage estimate and a service usage to cost look up function. In other</p>	<p>In some embodiments available network information or roaming information is requested by the device. In other embodiments, the information is periodically updated by the Service Controller or other network function that contains the information.</p>

FIG. 26F

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	embodiments, the service cost is derived by querying the available network or roaming network billing system.	
System messages and responses	In some embodiments the heartbeat function may be used as a secure control channel to display a system messages or screen that is generated by a network function or server to the end user and possibly report user inputs to the UI message or screen. Examples include, etc.	System messages are generated by the Service Controller and transmitted as needed in some embodiments. In other embodiments, some system messages are generated in response to user input or requests. In other embodiments, system messages are generated on a regular time table or in accordance with a certain amount of service usage.
UI screen messages and responses	In some embodiments the heartbeat function may be used as a secure control channel to display user interface message or screen that is generated by a network function or serve to the end user and possibly report user inputs to the UI message or screen. Examples include service usage UI, service choice UI, upgrade UI, transaction UI, marketing UI, billing UI, user identify confirmation UI, user service warning UI, user potential service tamper response request UI, etc.	UI screen messages are generated by the Service Controller and transmitted as needed in some embodiments. In other embodiments some user UI messages are generated in response to user input or requests. In other embodiments, UI messages are generated on a regular time table or in accordance with a certain amount of service usage.
Local agent check-in history	Logs and reports agent check-ins or self-reports that are made to a local agent integrity verification function.	In some embodiments a report is made during every heartbeat transmission. In other embodiments the report is generated by a request from the Service Controller. In other embodiments the report is generated by timing determined by the device. In some embodiments the report is generated when there is a verification error of some kind that is identified.
Software install report	Logs and reports one or more aspects of software installs that have occurred on the device.	In some embodiments a report is made during every heartbeat transmission. In other embodiments the report is generated by a request from the Service Controller. In other embodiments the report is generated by timing determined by the device. In some embodiments the report is generated when there is a verification error of some kind that is identified. In some

FIG. 26G

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		embodiments, the report is generated when new SW is installed.
Test billing event	In some embodiments the Service Controller or other network function may send or cause a test billing event wherein the device triggers a local billing sequence for the purpose of verifying that the billing sequence is properly logged, conducted and reported. The billing sequence can be related to a service usage event or sequence, a transaction event or sequence, or any other event or sequence that should result in a billing event.	In some embodiments, the test billing event timing is determined by the Service Controller or other network function. In others it is generated by the device or on a regular schedule.
Test service event	In some embodiments the service Controller or other network function may send or cause a service usage event wherein the device triggers a local service usage event or sequence for the purpose of verifying that the service usage event or sequence is properly logged and reported.	In some embodiments, the test service usage event timing is determined by the Service Controller or other network function. In others it is generated by the device or on a regular schedule.

FIG. 26H

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Service Policy Implementation Verification Technique Embodiments	Example Error Trigger Criteria Embodiments	Example Error Response Embodiments
<p>Verify service usage measure in network is consistent with expected service behavior</p>	<p>Network service usage measure is in conflict with expected service usage. Examples: traffic usage outside limits, address access outside limits, data rate outside limits, traffic shaping rules not being followed.</p>	<p>In some embodiments the severity of the error and/or the persistence of the error and/or the existence of the other errors are used to determine the appropriate response or action. In some embodiments, reset service policies and see if errors persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service inspection process, or usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>

FIG. 27A

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Verify service usage measure at device is consistent with expected service behavior	Device service usage measure is in conflict with expected service usage. Examples: traffic usage too high, address access outside limits, email accessed against policy.	Same as above.
Verify service usage measure in network is consistent with service usage measure at device	Device service usage measure varies significantly from network service usage measure	Same as above.
Verify service usage measure at one point in device is consistent with service usage measure at a second point in device	Service usage measure at one point in device stack that is inconsistent with another point indicates error or potential parasitic usage	Same as above. In some embodiments, the differences in service measures on the device may be used to evaluate the nature of the service usage policy implementation problem.
Verify that service policies in effect are as intended	Service policy setting queries result in settings that are different than intended	In some embodiments, reset service policies and see if error persist. If this does not clear the error, or if this is not the error correction method employed, then perform one or more of the following actions: In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition

FIG. 27B

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Verify presence of Service Processor agents	Agent does not respond to agent communication or query-response	<p>to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p> <p>In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. If this does not clear the error, or if this is not the error correction method employed, then perform one or more of the following actions:</p> <p>In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
Verify configuration of Service Processor agents	Agent configuration audit or configuration self check fails.	<p>In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. If this does not clear the error, or if this is not the error correction method employed, then perform one or more of the following actions:</p> <p>In some embodiments the severity of the error and/or the persistence of the</p>

FIG. 27C

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		<p>error and/or the existence of other errors are used to determine the appropriate response or action. In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
<p>Verify billing events are reported or are reported properly</p>	<p>Billing Agent query reveals logged billing events that have not been reported.</p>	<p>In some embodiments, perform a billing event test to determine if the billing event reporting sequence is operating properly. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. If this does not clear the error, or if these are not the error correction methods employed, then perform one or more of the following actions: In some embodiments the severity of the error and/or the persistence of the error and/or the existence of other errors are used to determine the appropriate response or action. In some embodiments, reset service</p>

FIG. 27D

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<p>policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a service usage test to determine if the device is properly reporting service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>		
<p>In some embodiments, perform a service usage test to determine if the service usage reporting sequence is operating properly. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. If this does not clear the error, or if these are not the error correction methods employed, then perform one or more of the following actions: In some embodiments the severity of the error and/or the persistence of the error and/or the existence of other errors are used to determine the appropriate response or action. In some embodiments, reset service</p>	<p>Billing agent is not properly reporting billing events for service usage, transactions, bill by account, or other billing event functions.</p>	<p>Verify network reported service usage measure are consistent with reported device billing data.</p>

FIG. 27E

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		<p>policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
<p>Verify device reported service usage measure are consistent with reported device billing data.</p>	<p>Billing agent reports are inconsistent with service usage reports.</p>	<p>In some embodiments, perform a billing event test to determine if the billing event reporting sequence is operating properly. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. In some embodiments, perform a service usage test to determine if the service usage reporting sequence is operating properly. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. If this does not clear the error, or if these are not the error correction methods employed, then perform one or more of the following actions: In some embodiments the severity of the error and/or the persistence of the error and/or the existence of other errors are used to determine the</p>

FIG. 27F

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		<p>appropriate response or action. In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
<p>Send test billing event through device and verify it is reported.</p>	<p>Test billing event is not properly reported by the device.</p>	<p>In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. If this does not clear the error, or if these are not the error correction methods employed, then perform one or more of the following actions: In some embodiments the severity of the error and/or the persistence of the error and/or the existence of other errors are used to determine the appropriate response or action. In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine</p>

FIG. 27G

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<p>agent integrity. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a service usage test to determine if the device is properly reporting service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis</p>		
<p>In some embodiments, perform checks to determine if transaction server receipts are valid. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. If this does not clear the error, or if these are not the error correction methods employed, then perform one or more of the following actions: In some embodiments the severity of the error and/or the persistence of the error and/or the existence of other errors are used to determine the appropriate response or action. In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, a user query or warning is sent to</p>	<p>Transaction server receipts do not correspond with billing events from device.</p>	<p>Verify device reports billing events reported from transaction servers.</p>

FIG. 27H

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		the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.
Verify activation tracking system presence, configuration or operation	Activation tracking service is not present, is not providing scheduled network activity reporting, or is exhibiting erroneous reports.	In some embodiments the response is to place the device ID on a list of devices suspected of having activation tracking functions that have been tampered with for the purpose of central provider billing reconciliation. In some embodiments, install a new copy of the activation tracking service agent software either from a locally stored device copy or a network download. In some embodiments where authorization exists to manage device software and some aspects of service tracking, run further checks on device service integrity such as agent query-response. In some embodiments where authorization exists to manage a device access service connection, send error message to device UI, suspend device or place device on quarantine route. In some embodiments send error message to human interface for troubleshooting.
Verify device standing or service plan standing	No service plan on record or device not authorized	In some embodiments, if device is not yet activated with a service plan, provide UI with activation sequence. In some embodiments, if device is not authorized for service on one of the networks controlled by the Service

FIG. 27I

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Verify proper operation of Service Processor agents	<p>Check input to output relationship on Policy Implementation agent, Firewall agent. Check billing event reports to verify events are being recorded. Check application and traffic inspection tagging system correctly tagging traffic. Verify Service Processor heartbeat reports proper agent integrity self-checks, cross-checks and query/response sequences with Service Controller.</p>	Controller, send the UI an error message instructing the user how to proceed. In some embodiments, configure the Service Processor for the ambient service intended for that device. In some embodiments, download the appropriate Service Processor agent software that is appropriate for that device.	<p>In some embodiments the severity of the error and/or the persistence of the error and/or the existence of other errors are used to determine the appropriate response or action. In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
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FIG. 27J

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Service Processor heartbeat response reports	One or more of the heartbeat reports indicate an error in operation, configuration, or tamper and error prevention system. Heartbeat function not functioning properly but device is still indicating service usage on the network.	In some embodiments the severity of the error and/or the persistence of the error and/or the existence of other errors are used to determine the appropriate response or action. In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.
Test service event	Service usage reporting system does not properly report test service usage event	In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. If this does not clear the error, or if this is not the error correction method employed, then perform one or more of the

FIG. 27K

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<p>Load a fresh version of Service Processor software and perform integrity reports</p>		<p>following actions: In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing test event to determine if the device is properly reporting billing events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
<p>Load a fresh version of Service Processor software and perform integrity reports</p>	<p>After fresh load of Access Control Integrity Agent, agent discovers one or more of the other agents are corrupted.</p>	<p>Run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh other agents and see if problem persists. If this does not clear the error, or if this is not the error correction method employed, then perform one or more of the following actions: In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, a</p>

FIG. 27L

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		<p>user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
<p>Verify Service Processor code configuration with agent self diagnosis checks</p>	<p>One or more of the agents indicates an error after running a self-check.</p>	<p>Run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh other agents and see if problem persists. If this does not clear the error, or if this is not the error correction method employed, then perform one or more of the following actions:</p> <p>In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the</p>

FIG. 27M

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		<p>device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
<p>Verify that device uses service only after being authorized</p>	<p>Device gains access to the network and does not check in with the Access Control Integrity Server and service measures indicate device is on the network.</p>	<p>In some embodiments, reset service policies and see if error persists. In some embodiments, perform agent settings check to verify that agent service usage control policy settings are correct. In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control. In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, perform a billing event test or a service usage test to determine if the device is properly reporting billing events or service usage events. In some embodiments, the device is placed on</p>

FIG. 27N

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		quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.
Verify user standing	User does not respond with proper response to UI query such as request for ID., password or biometric input. This process may be part of handling a suspected error.	In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis. In some embodiments, the user may be asked to acknowledge a service overage notification and/or to also provide a password, biometric signature, hardware key or other mechanism to verify the service overage acknowledgment.
Agent communications log	Unauthorized communications with one or more agents is detected	In some embodiments, perform agent query/response to determine agent integrity. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh one or more agents. In some embodiments, a user query or warning is sent to the UI to notify the user, confirm that the device is in the user's possession, or involve the user in the process of determining the source or error or to assist in verifying the device based service control.

FIG. 270

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		<p>In some embodiments, the device identification number is placed on an error list for further error handling. In some embodiments, the device is placed on a SPAN process, or a similar traffic or service inspection process, or another service usage watch status, to closely monitor service behavior and determine if it is consistent with the service usage policy that is intended to be in place. In some embodiments, the device is placed on quarantine network routing status, possibly with a user message being sent to inform the user. In some embodiments, the device service is suspended, possibly after sending the user a message that may include instructions on the process for correcting the error and resuming service. In some embodiments, the user messages are sent through an alternative messaging system, such as email or text messaging, as an alternative to or in addition to a message sent to the device. In some embodiments, an error message is sent to a human interface in the network for further error analysis.</p>
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FIG. 27P

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Service Policy Implementation Tamper or Error Protection Techniques	Example Error Trigger Criteria	Example Error Responses
Detect or block device networking activity that is potentially harmful for the operation of Service Processor.	Network activity is observed in service monitor reports that fit known patterns that indicated harmful software may be present on device.	Initiate or install and initiate eradication software. Block traffic from the suspect entity. In some embodiments if software can not be eradicated or blocked, then send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.
Detect or block unauthorized Service Processor software from being loaded.	Access Control Integrity Agent discovers software that is on a known malicious list.	Same as above.
Detect or block unauthorized access of protected Service Processor software or hardware memory.	Unauthorized access is detected, memory contents are corrupted or unresponsive.	Identify the entity that has gained access to the Service Processor if possible and eradicate. In some embodiments repair any compromised agents with dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.
Detect or block unauthorized communication with Service Processor software or hardware.	Unauthorized communication is detected.	Identify the entity that has gained access to the Service Processor if possible and eradicate. In some embodiments repair any compromised agents with dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.

FIG. 28A

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Secure loader with signed SW installed into protected memory	Unauthorized access is detected, memory contents are corrupted or unresponsive.	Identify the entity that has gained access to the Service Processor if possible and eradicate. In some embodiments repair any compromised agents with dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.
Secure encrypted communication between Service Processor agents.	Secure communication link is in error or unauthorized access is detected.	Identify the entity that has gained access to the Service Processor if possible and eradicate. In some embodiments repair any compromised agents with dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code. In some embodiments, run dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code to refresh agents with communication links that are in error or entire Service Processor. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.
Secure encrypted communication between Service Processor and Service Controller.	Service Processor communication is lost.	Send error message to device UI (if possible), suspend device, place on SPAN, place on watch list, place on further action list or place device on quarantine route. In some embodiments send error message to human interface for troubleshooting.
Execution of Service Processor software within secure memory.	Unauthorized access is detected, memory contents are corrupted or unresponsive.	Identify the entity that has gained access to the Service Processor if possible and eradicate. In some embodiments repair any compromised agents with dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.

FIG. 28B

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Storage of service processor software in secure memory	Secure memory violation or Service Processor stored in non-secure memory	Identify the entity that has gained access to the Service Processor if possible and eradicate. In some embodiments repair any compromised agents with dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.
Detection or removal of software thought to be harmful to Service Processor operation.	Unauthorized software is detected.	Initiate or install and initiate eradication software. Block traffic from the suspect entity. In some embodiments if software can not be eradicated or blocked, then send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.
Recording and reporting of software loading signatures, software activity signatures or network activity signatures for later identification of threat sequences.	Unauthorized software or malicious network activity is detected	Same as above.
Implement critical Service Processor software as a self-refreshing program that resists corruption by running self-audit and reinstall processes such as placing audit function in inaccessible memory or OS functions or bios.	Re-installation function alerts that Re-installation has been required. Continued re-installations or failure to re-install alert increases severity of warnings.	Identify the entity that has gained access to the Service Processor if possible and eradicate. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting.
Encrypted agent code	Code check, agent query-response, agent self check or other agent configuration check discovers error in code encryption	In some embodiments repair any compromised agents with dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send

FIG. 28C

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		error message to human interface for troubleshooting. Identify the entity that may have gained access to the Service Processor if possible and eradicate.
Obfuscated agent code	Code check, agent query-response, agent self check or other agent configuration check discovers error in code obfuscation	Same as above.
Unique agent identification numbers and signatures	Agent is discovered to have an incorrect ID, or fails signature	Same as above.
Secure agent communication bus	Agent communication bus monitoring discovers unauthorized communication or other unauthorized access to one or more agents is discovered	Same as above.
Agent level message encryption	Agent is found to be communicating without the required level of agent communication encryption	Same as above.
Service control link message level encryption	Unauthorized communication traffic is discovered on service control link	In some embodiments repair any compromised agents with dynamic agent load, in some cases with different encryption, sequencing or obfuscation for the new agent code. In some embodiments send message to UI and either suspend device, place on SPAN, place on watch list, place on further action list or place on quarantine network. In some embodiments send error message to human interface for troubleshooting. Identify the entity that may have gained access to the Service Processor if possible and eradicate.
Service control link transport layer encryption	Unauthorized communication traffic is discovered on service control link	Same as above.
Agent communication access permissions	Unauthorized communication is discovered with one or more agents	Same as above.

FIG. 28D

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Agent communication log	Unauthorized communication is discovered with one or more agents	Same as above.
Encrypted agent code for downloads	Agent download is found to have incorrect or absent encryption or signature	Same as above.
Secure downloader memory	Unauthorized access to or storage in secure downloader memory is discovered	Same as above.

FIG. 28E

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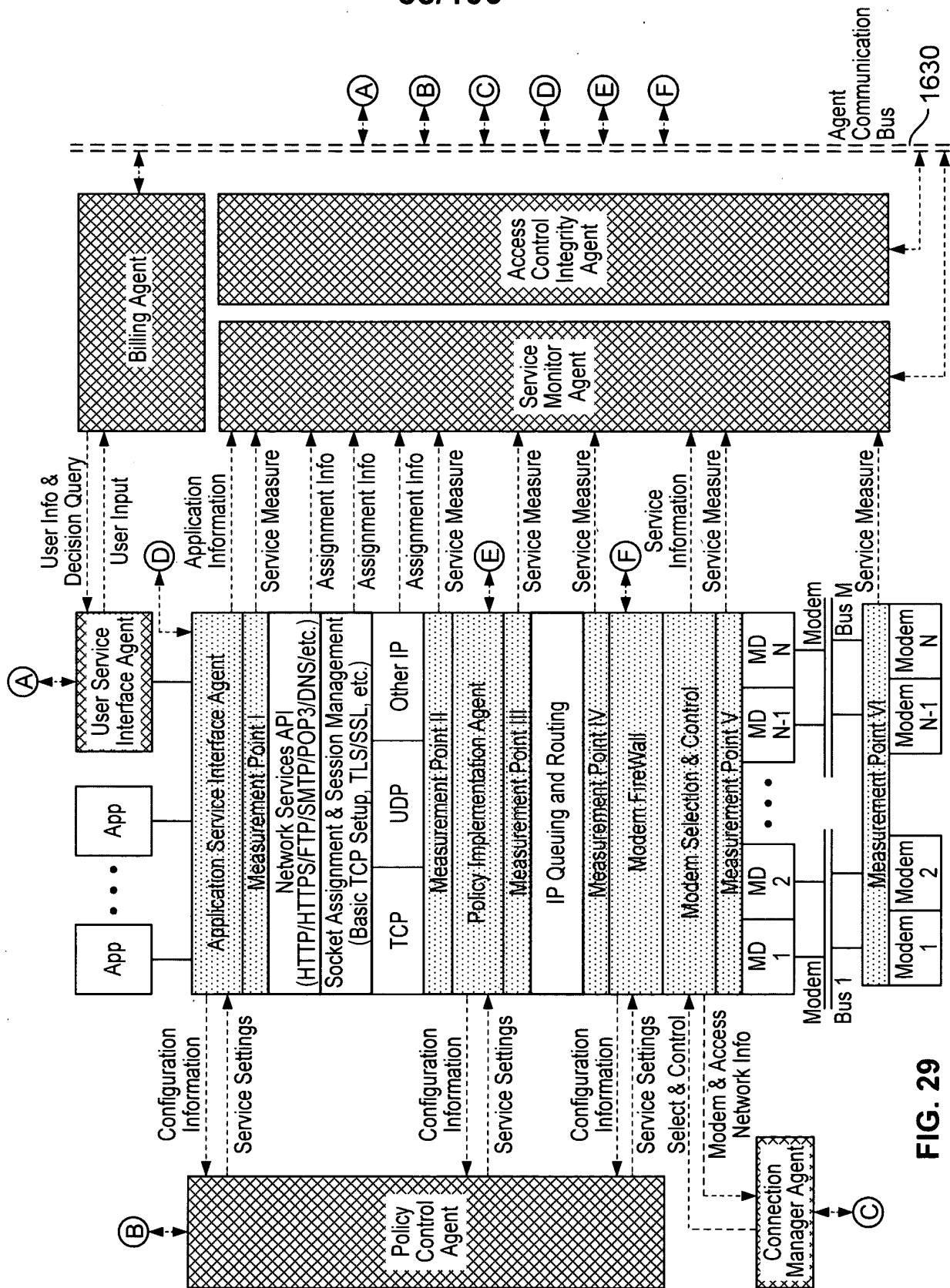


FIG. 29

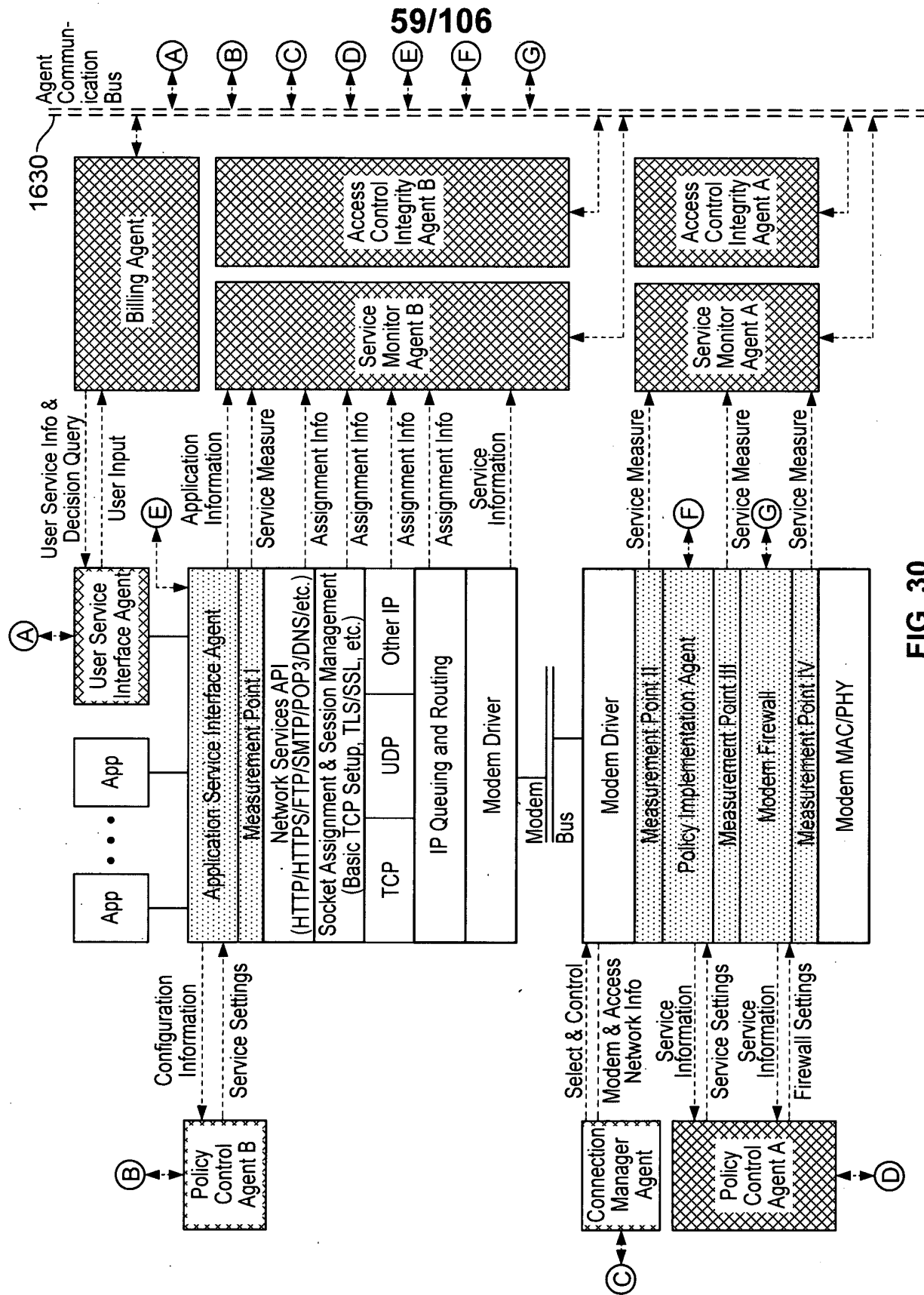


FIG. 30

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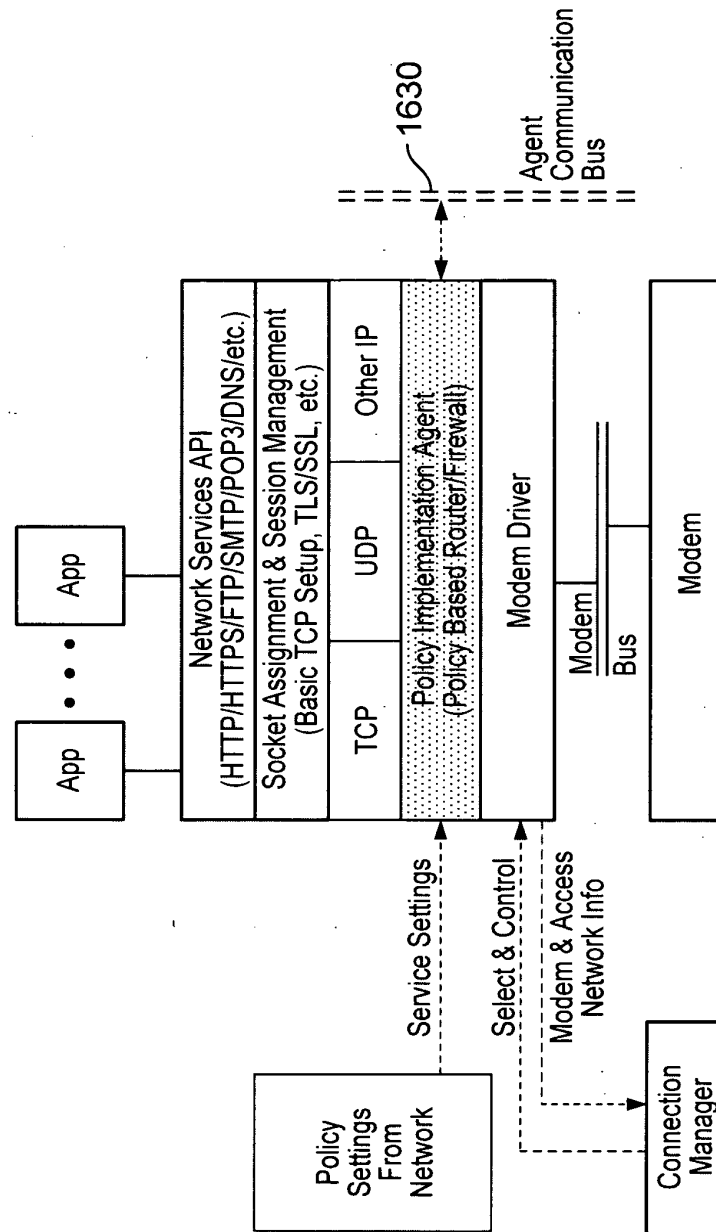


FIG. 31

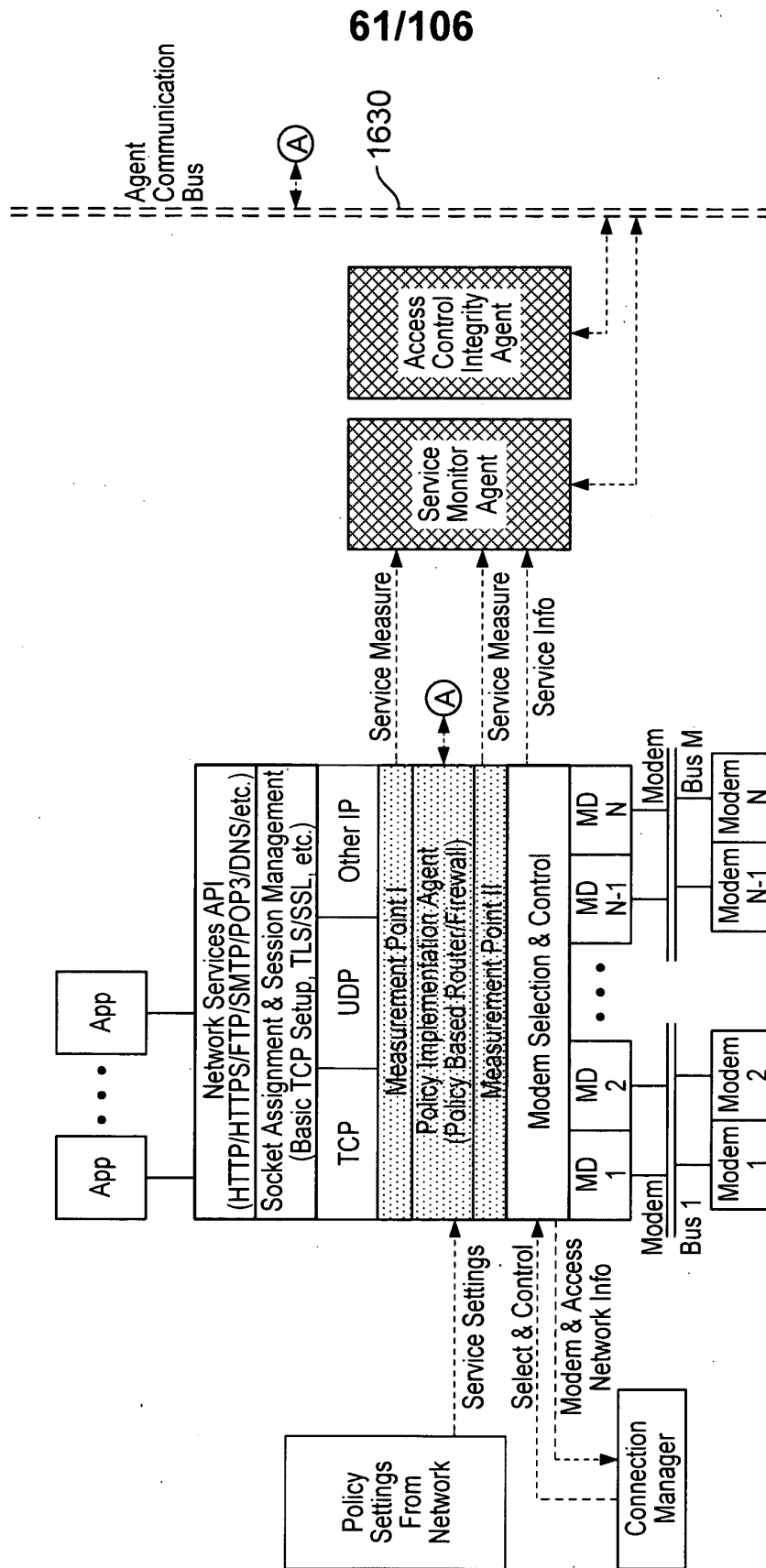


FIG. 32

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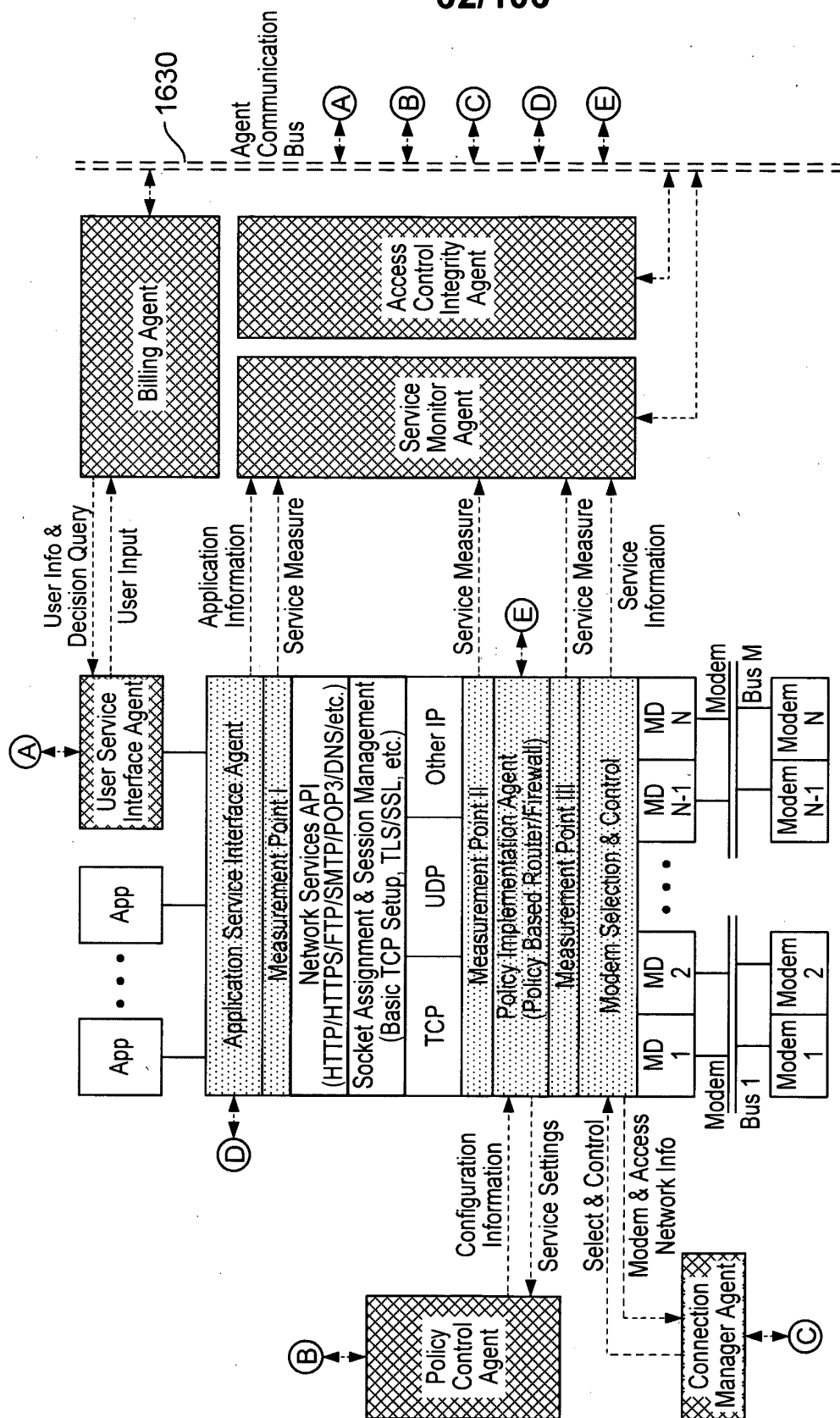


FIG. 33

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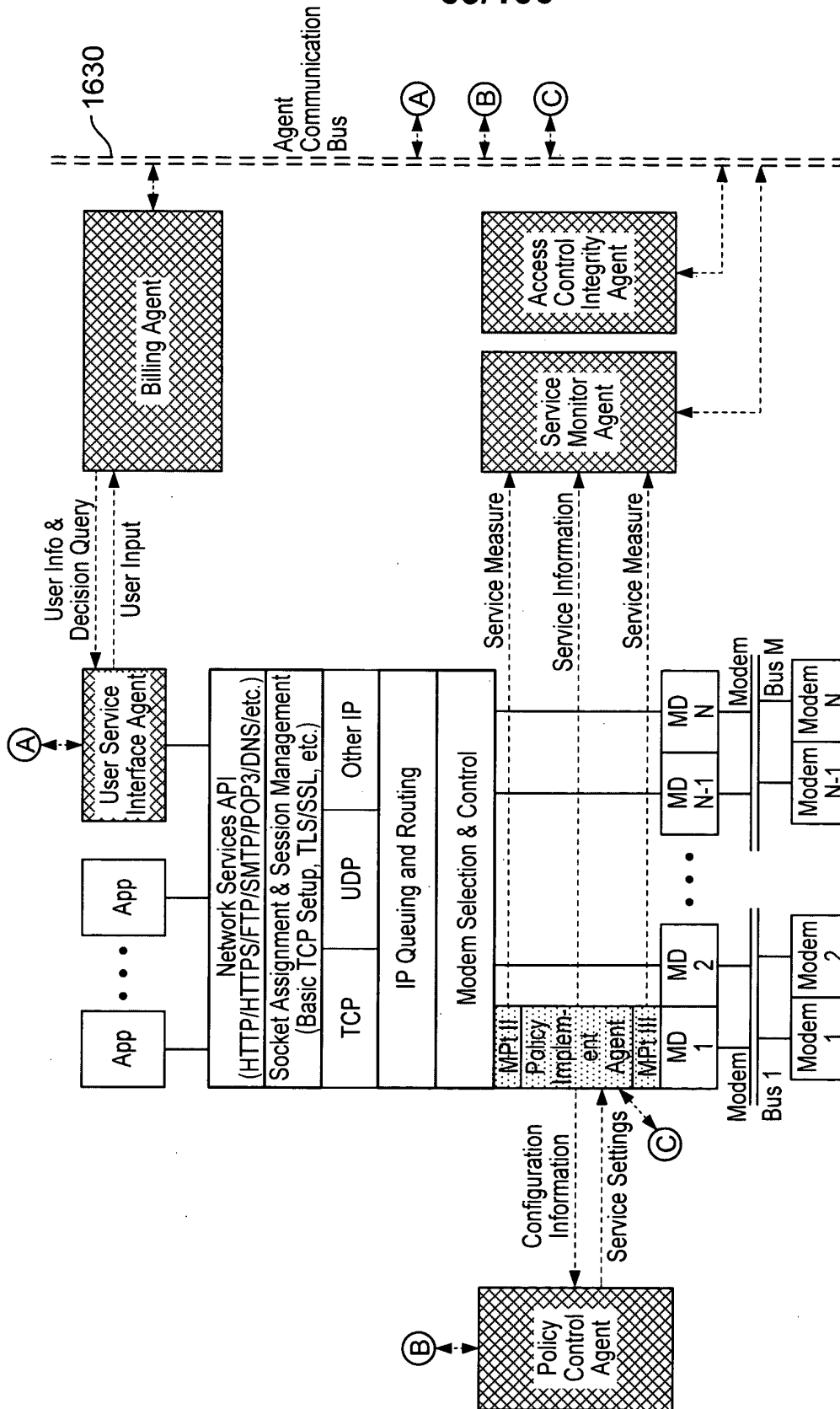


FIG. 34

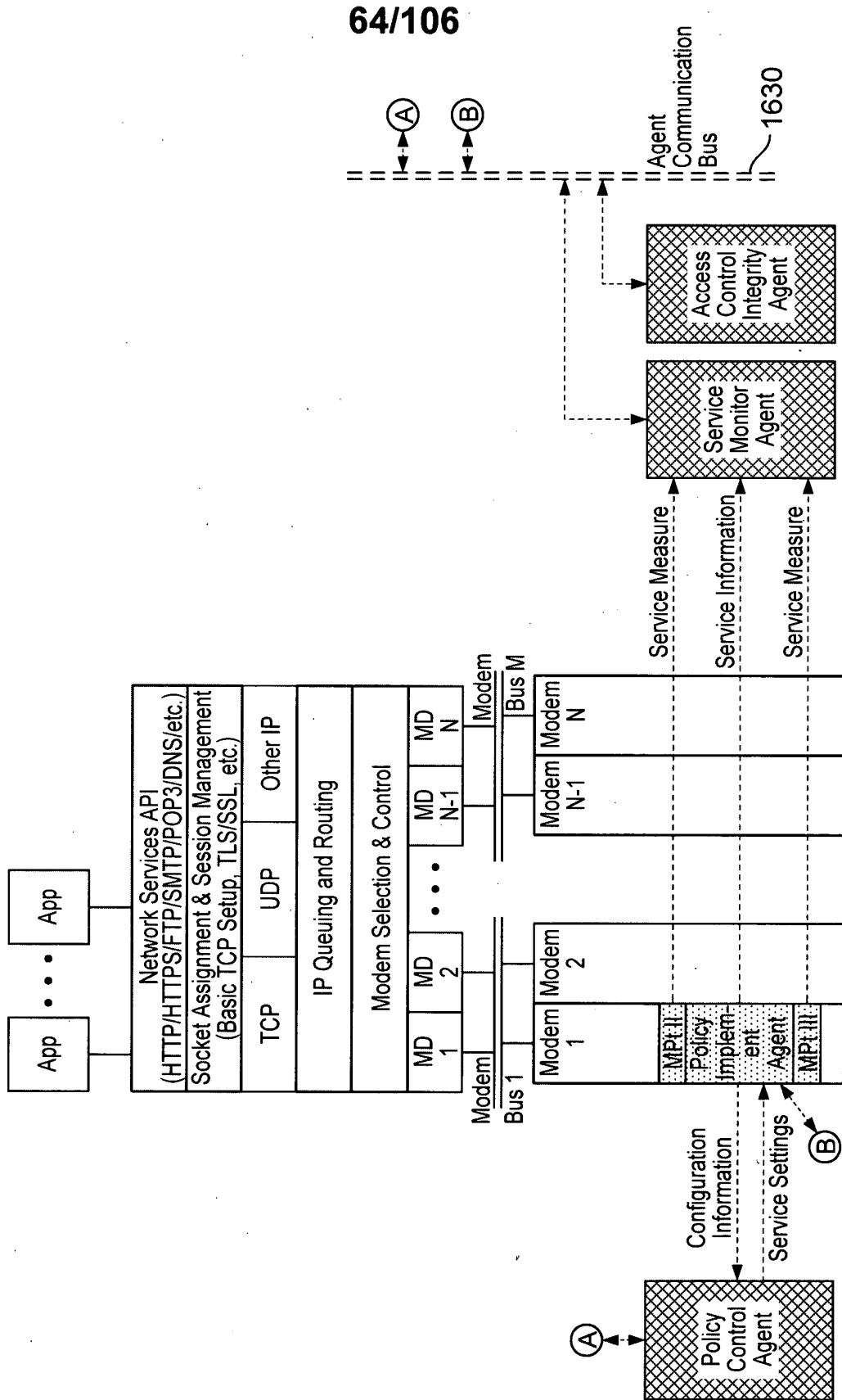


FIG. 35

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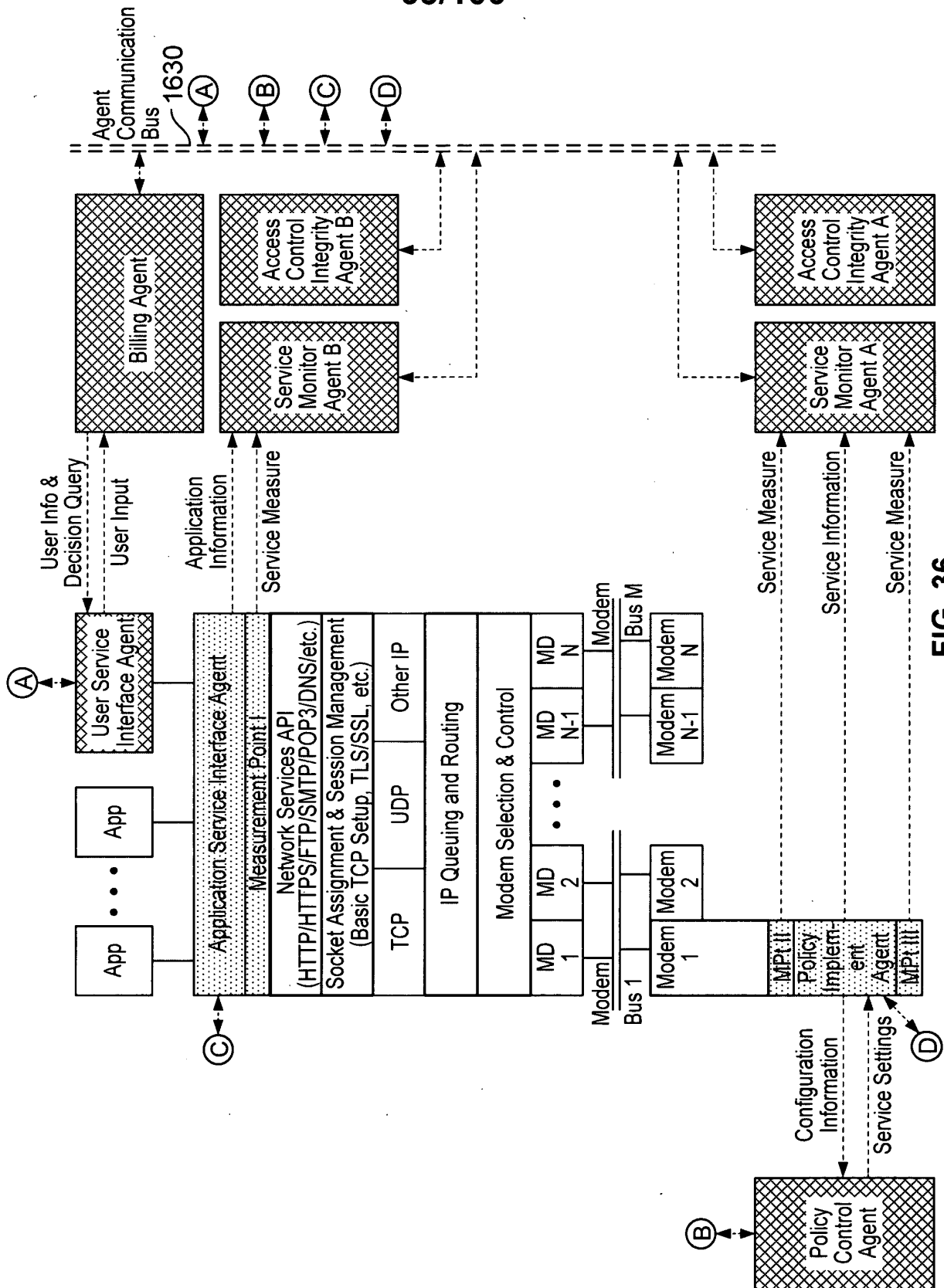
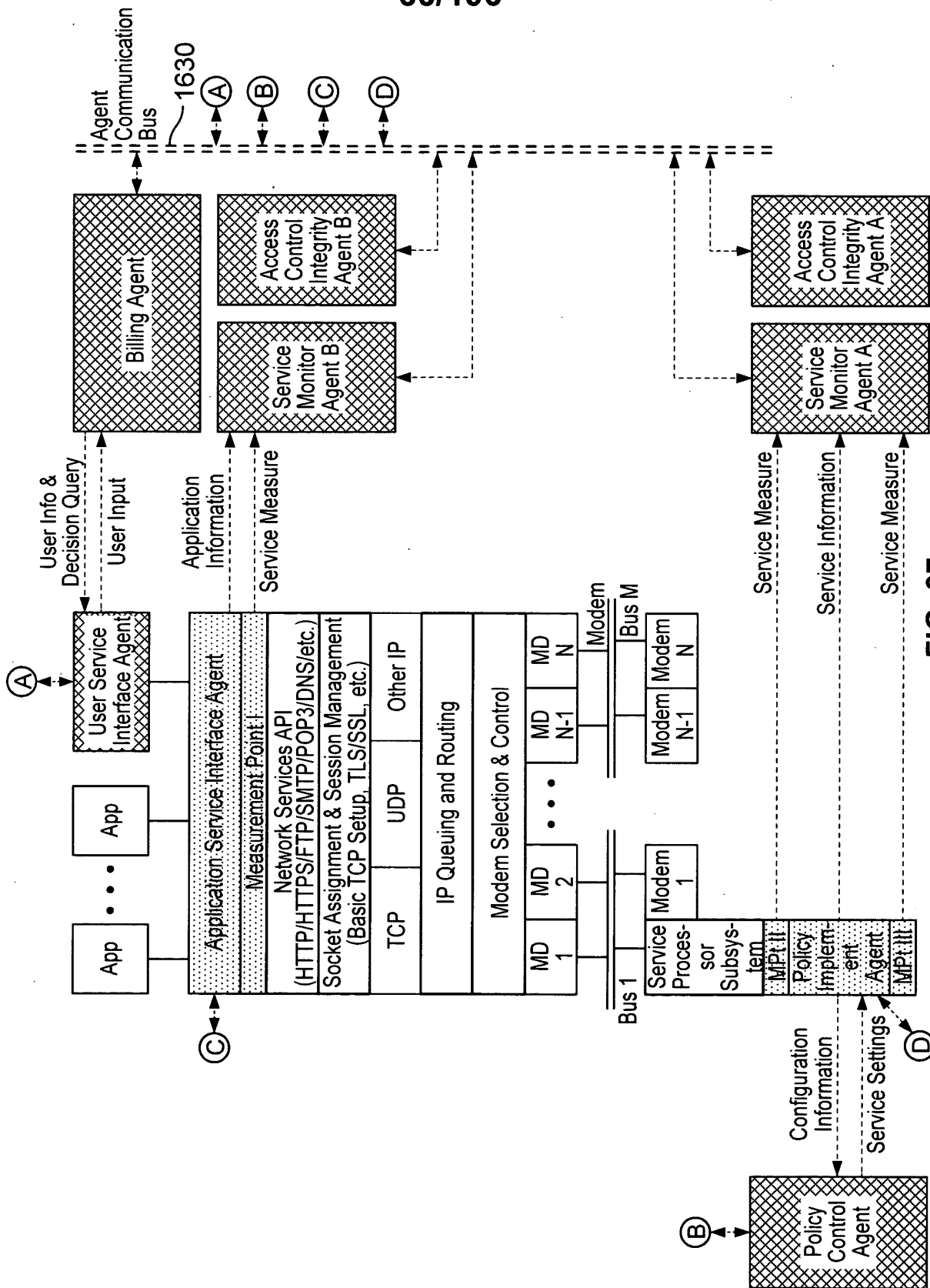


FIG. 36

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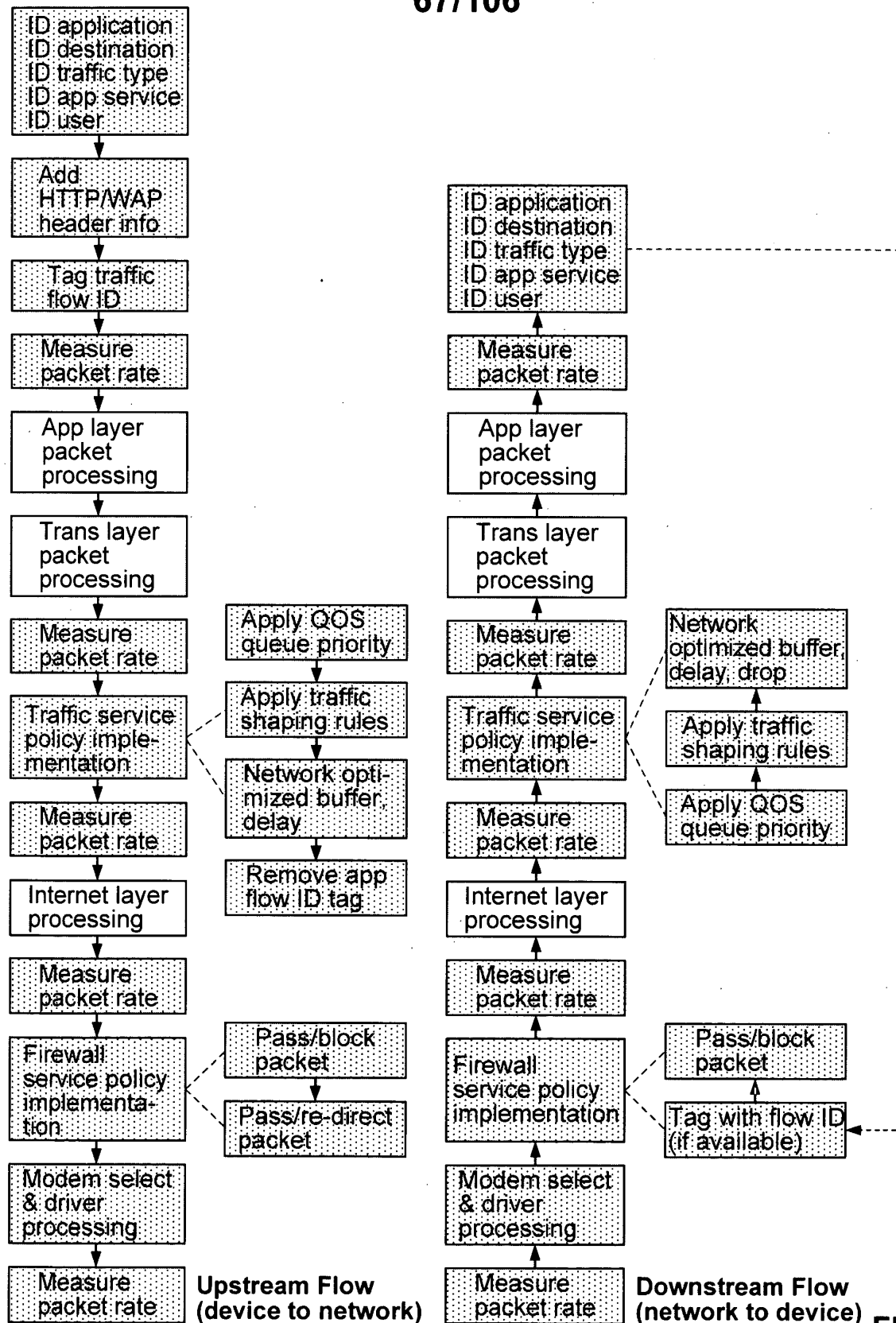


FIG. 38

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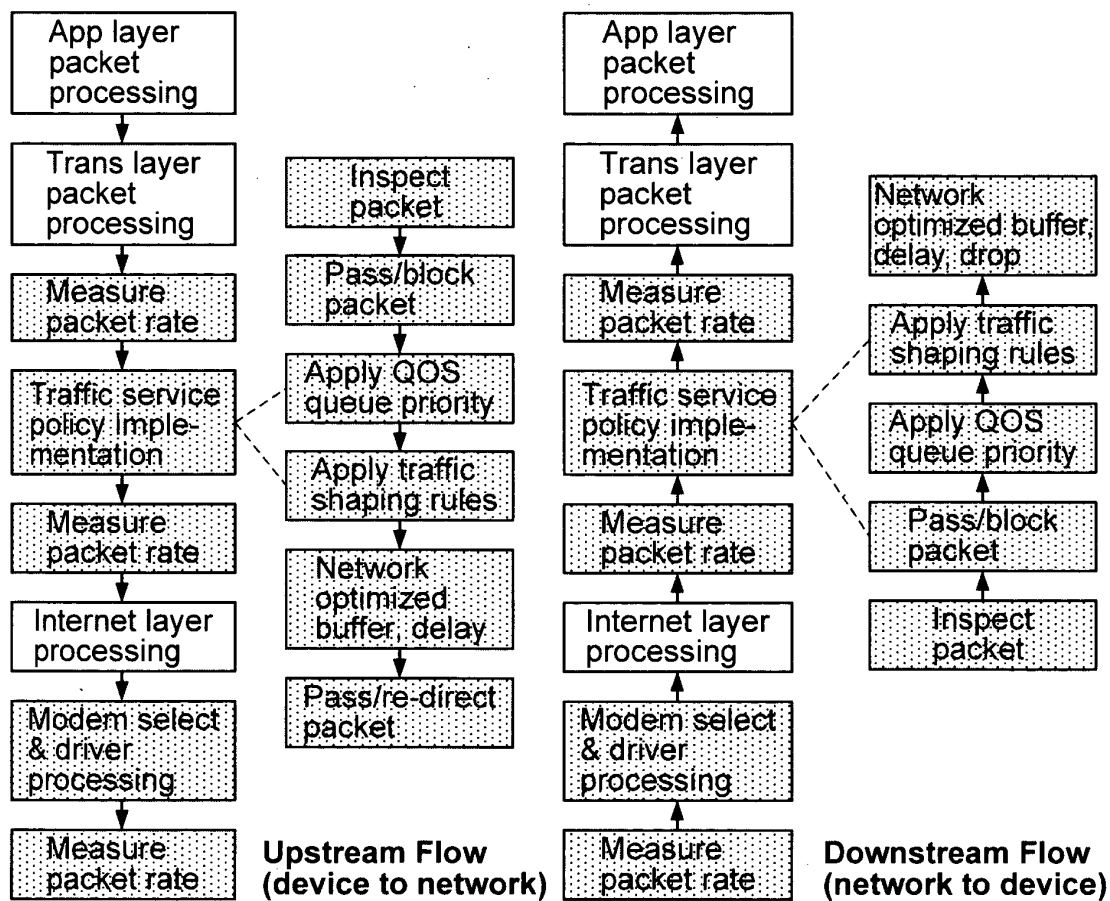


FIG. 39

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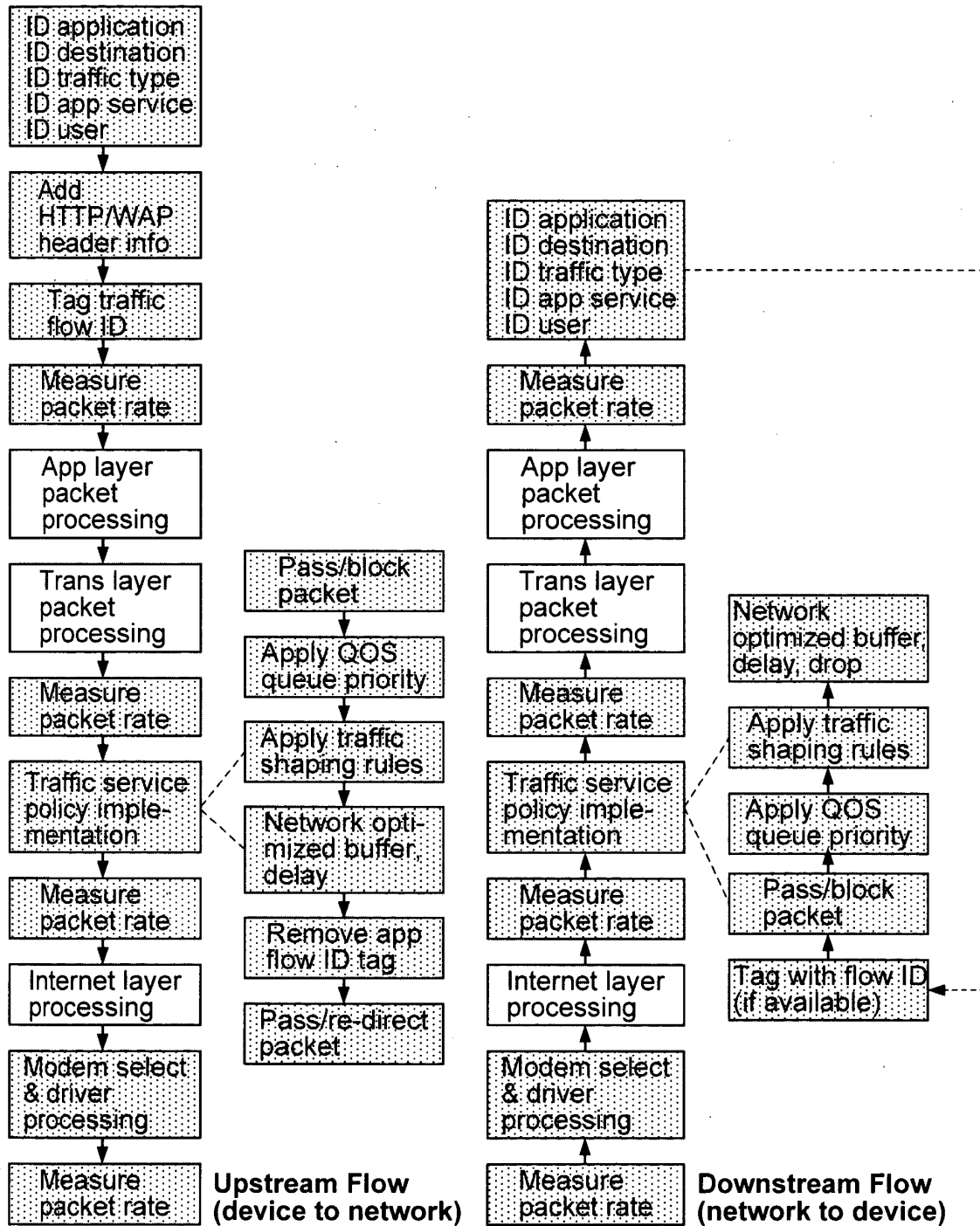


FIG. 40

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Example Device CRM Data Collection and Reporting Classification	Partial Description	Example Sensitivity Level Classification	Example Authorization Level to Include in Report
Basic non-specific service usage parameters	User sensitive information is filtered from this report which is used for purposes such as service control, service control integrity monitoring or network traffic analysis.	Low	None
Service billing events or service plan selection events	Documents user selection process from service plan selection or billing options.	Low	Customer authorization with basic service agreement or enterprise agreement
Transaction billing events	Documents user selection process from service plan selection or billing options.	Low	Customer authorization with central billing agreement or enterprise agreement
Device location – customer location based service assist	Reports customer location for the purpose of assisting with location based services such as directions, yellow pages, shopping and social networking.	High	Customer authorization with basic service agreement or enterprise agreement
Device location – device or people tracking	Reports customer location for the purpose of providing tracking services for the device or the user.	High	Customer authorization with separate device tracking service agreement or enterprise agreement
Transaction associated information	Reports customer information such as networking activity, location, advertising usage, shopping behavior that is associated with a commerce transaction or happens around the same time as the transaction.	High	Customer authorization – potential service discount or upgrade or enterprise agreement
URL history	Reports customer web surfing history.	High	Customer authorization – potential service discount or upgrade or enterprise agreement
Served and visited advertisement history	Reports the advertisements served to the user or which advertisements the user responded to. This information may be used to determine customer preferences or for a revenue sharing relationship with the advertisers.	Medium	Customer authorization – potential service discount, perk or upgrade or enterprise agreement
911 Service usage and location trace log	This log contains all information pertinent to emergency service personnel responding to a 911 call or other emergency situation. In some embodiments this information is password protected and generally not available to the service provider unless it happens to also be contained in reports authorized by the consumer as in the examples above.	Very High	Available only for 911 support or enterprise agreement

FIG. 41

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Partial List of Example Service Policy Functionality Embodiments	Partial Description of Functionality Example	Example Authorization Level Required to Implement Embodiment
Block Downstream or upstream traffic	Various embodiments block traffic associated with one or more of user, network address identifier, application, content or data type, type of network, central provider, transaction provider, or transaction type. Typical but non-exhaustive examples of command usage are access control prior to authorization, access control policy limits as defined by service plan or special device type, access control for ambient activation services, access control for error handling or access control for tamper prevention. This command may be implemented in instantaneous policy implementation mode or adaptive policy control mode.	Basic authority to pass or block traffic for access control, authorization, ambient services, or plan specific services typically may be provided by the user when they acknowledge the service plan agreement. Authorization to block traffic access as part of controlling user service costs typically may be provided by the service plan agreement options the user chooses to manage cost or may be provided when the user acknowledges the limitations in the UI notifications.
Pass downstream or upstream traffic	Various embodiments allow traffic associated with one or more of user, network address identifier, application, content or data type, type of network, central provider, transaction provider, or transaction type. Typical but non-exhaustive examples of command usage are access control prior to authorization, access control policy limits as defined by service plan or special device type, access control for ambient activation services, access control for error handling or access control for tamper prevention. This command may be implemented in instantaneous policy implementation mode or adaptive policy control mode.	Same as above.
Limit maximum data rate	Various embodiments limit maximum data rate for traffic associated with one or more of user, network address identifier, application, content or data type, type of network, central provider, transaction provider, or transaction type. Typical but non-exhaustive examples of how this command can be implemented include limiting data rate to the device according to service plan, limiting data rate by network address identifier, application or content type for the purpose of implementing a tiered garden; limiting data rate in to different levels according to the type of access technology used by the present network connection; limiting data rate to different levels according to the service provider for the present network; or limiting data rate according to an agreement or lack of agreement with a transaction provider. This command may be implemented in instantaneous policy implementation mode or adaptive policy control mode.	Authorization to limit data rate for all traffic or a subset of traffic typically may be provided in the options the user specifies for how to limit potential or actual service plan usage or cost overages. For example, one user may choose to have no limits and be notified when service usage is over or about to go over, while another user may choose to allow traffic control sufficient to keep service usage under the service plan limit without any notification.

FIG. 42A

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Analyze traffic	Provides capability resident on the device to analyze device or user traffic statistics to determine how to implement adaptive policy control or how best to assist the user with notification messages. In some embodiments it is important to perform traffic analysis locally on the device to reduce network chatter with the Control Processor or to maintain user CRM privacy levels by not sharing sensitive raw traffic usage history needed to determine implementation of less sensitive service control policies. Typical but non-exhaustive examples of command usage are analyzing traffic usage statistics or patterns to determine compliance with service plan limits; analyzing traffic usage statistics or patterns to determine likely future compliance with service plan limits; analyzing traffic statistics or patterns to categorize usage according to network address identifiers, applications, content types, network types or central providers; analyzing traffic demand vs. usage statistics or patterns to determine if user may be better served with another service plan; analyzing traffic statistics or patterns to identify potential tamper threats. This command may be implemented in instantaneous policy implementation mode or adaptive policy control mode, but adaptive application of the analysis results is typically associated with adaptive policy control mode.	Authorization to analyze traffic for local device service policy control purposes or 911 service typically may be provided for in the basic service contract. Authorization to transmit a complete or filtered version of the traffic analysis to the Service Controller typically may be provided under user selected options in the service plan contract.	Authorization to limit data rate for all traffic or a subset of traffic typically may be provided in the options the user specifies for how to limit potential or actual service plan usage or cost overages. For example, one user may choose to have no limits and be notified when service usage is over or about to go over, while another user may choose to allow traffic control sufficient to keep service usage under the service plan limit without any notification.
Successive limitation	Provides capability to begin with one limit on access or data rate according to a set of defined service usage trigger criteria, to further limit access or data rate according to said criteria, and then to successively remove limits according to said criteria. In some embodiments this function provides for service usage that starts at a given level for one or more service aspects, but as said service aspect exhibits usage that potentially threatens an overage on service plan limits then the level of service for said service aspect is reduced successively until the threat of service plan overage is reduced or eliminated. In some embodiments, the limits on service level for said service aspect are eventually removed either all at once or successively over a specified time period or set of time periods so that the limits on service level for said service aspect are eventually removed if the service aspect is used less vigorously for a period of time. In this type of embodiment the projection for future service usage by a given service aspect is assisted by the analyze traffic statistics function. As a more specific example, the service aspect may be a URL address that is popular with the user and demands a high service consumption, and the data rate allowed to that URL may start at a relatively high level when the user first begins to surf and as long as the surfing session is finished quickly there is never a reduction in service level, but if the user surfs for a longer time so that service usage begins to threaten plan limit overage, the data rate allowed to that URL is successively reduced the longer the surfing session occurs. Continuing this		

FIG. 42B

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	<p>example embodiment, if the URL is not visited for a defined period of time then the data rate limitation may be removed in steps over multiple pre-defined time periods, or may be removed all at once back to the initial data rate established in the service policy for that URL. Other specific embodiment examples include email download or upload data rate; download or upload rates for certain types of file transfers; or download or upload rates for a given network access technology or central provider. This command is associated with adaptive policy control mode for the Service Processor. In more advanced adaptive embodiments, the policy control system first identifies those service aspects that are consuming a large percentage of the service usage and then begins to successively limit service level only for these highest usage service aspects so that all other service aspects that are not responsible for potential service plan limit overage continue to receive relatively high service levels. In another embodiment, some high usage service aspects may be exempt or partially exempt from limitations in service level, as for example a service aspect that is associated with a secondary source of service or transaction payment or that may be separately accounted for in the service plan usage reporting.</p>	
Limit email file transfers	<p>Sets and enforces limits on email downloads. In some embodiments this can include use of the successively limit functionality. In some embodiments, this is accomplished by identifying specific email downloads or uploads and controlling traffic for those traffic flows. In other embodiments, this includes interacting with the email application to set download or upload file settings. This functionality may be implemented in instantaneous policy implementation mode or adaptive policy control mode, with the more advanced functionality such as successive limitation on email file transfers being implemented in the adaptive policy control mode.</p>	<p>Authorization to limit data rate for all traffic or a subset of traffic typically may be provided in the options the user specifies for how to limit potential or actual service plan usage or cost overages. For example, one user may choose to have no limits and be notified when service usage is over or about to go over, while another user may choose to allow traffic control sufficient to keep service usage under the service plan limit without any notification.</p>
Seek to manage below service limit	<p>Implements adaptive policy control in an attempt to manage service usage to reduce service plan limit overages. In some embodiments there are successive limits on service level for overall traffic, or for the highest usage service aspects, with the successive limits being lowered until average service usage is projected to be below service plan limits. The algorithms that may be applied to achieve this adaptive service level limitation are quite varied and only a few are given here. In one embodiment, the service usage for the service plan period is projected using the analyze traffic functionality, and overall device data rate is successively limited until service usage is projected to be below the service plan limit. In another</p>	<p>Same as above.</p>

FIG. 42C

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	embodiment, the analyze traffic functionality is used to identify those service aspects that are causing the majority of the service plan usage, and then each of those service plan aspects are limited using the successive limitation functionality, with the service level limitations being based on the traffic usage patterns and specific application scenarios for each service aspect. For example, in some embodiments the service aspects that are creating the most service usage are subjected to more service level limitation than service aspects that are creating less service usage. Service usage may be defined as usage of a raw service measurement such as total data consumption, files downloaded or time spent on network, or it may be translated into an economic measure using the lookup service cost functionality. In some embodiments, the period of time elapsed in the service accounting period is taken into account in determining...	
Synchronize service usage counters	Synchronizes service usage counters on device from time to time to minimize service accounting errors between the device data base and the central billing data base. In some embodiments this is a part of the Service Processor heartbeat communication system that need not happen every heartbeat. In some embodiments this occurs with a request for update by the device to the central billing system or to a server function in the Service Processor	Provided for in the basic service agreement.
Lookup service cost	Provides a data base of service usage vs. cost for each type of service offered on the device. Provides for a lookup function of service cost.	Same as above.
Convert service usage to service cost	Uses the service cost vs. usage lookup function to transform one or more service usage aspects to one or more service cost aspect. One example embodiment provides a service cost measure for one specific aspect of service usage, for example total data consumed over a period of time. Another example embodiment provides a total service cost measure for all service usage over a period of time.	Same as above.
Notify user of service overage	Sends a notification message or screen to the UI to inform the user that the one or more aspects of service usage has exceeded the specified limits of one or more service plans. In some embodiments, the user notice is a pop-up window and in some embodiments there is a continuous display on a small gauge in main screen.	Same as above.
Project service usage	Uses the analyze traffic functionality and projects an estimate of what the traffic usage will be at the end of a service plan measurement interval if the service usage does not change. In some embodiments the projected service usage is made based on assuming the average service usage per unit time in the present service plan measurement interval does not change for the remainder of the service plan measurement interval.	Same as above

FIG. 42D

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Notify user of service cost overage	Performs a service cost estimate based on one or more aspects of service usage and informs the user that the one or more aspects of service cost has exceeded the specified limits of a service plan. In some embodiments, the user notice is a pop-up window and in some embodiments there is a continuous display on a small gauge in main screen.	Provided for in the basic service agreement.
Notify user of usage behavior likely to run over service usage limit	Uses the project service usage functionality to determine if the service usage is projected to go beyond the service plan limit, notifies the user if the projected usage is over the service plan limit for the service plan measurement interval. In some embodiments, the user notice is a pop-up window and in some embodiments there is a continuous display on a small gauge in main screen. In some embodiments the projected service usage is made based on assuming the average service usage per unit time in the present service plan measurement interval does not change for the remainder of the service plan measurement interval.	Same as above.
Notify user of usage behavior likely to run over cost limit	Uses the project service usage functionality to determine if the service usage is projected to go beyond the service plan limit, uses convert service measure to service cost functionality to estimate the service cost of the projected service overage, notifies the user if the projected cost is over the service plan cost associated with the service plan service limit for the service plan measurement interval. In some embodiments, the user notice is a pop-up window and in some embodiments there is a continuous display on a small gauge in main screen. In some embodiments the projected cost is made based on assuming the average service usage per unit time in the present service plan measurement interval does not change for the remainder of the service plan measurement interval.	Same as above.
Project user service cost if usage behavior continues	Uses the project service usage functionality to determine if the service usage is projected to go beyond the service plan limit, uses convert service measure to service cost functionality to estimate the service cost of the projected service overage, notifies the user of what the projected cost will be if the service usage behavior remains the same. In some embodiments, the user notice is a pop-up window and in some embodiments there is a continuous display on a small gauge in main screen. In some embodiments the projected cost is made based on assuming the average service usage per unit time in the present service plan measurement interval does not change for the remainder of the service plan measurement interval.	Same as above.

FIG. 42E

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Limit access likely to cause overage and notify	Uses the project service usage functionality to determine if the service usage is projected to go beyond the service plan limit, if the service usage is projected to go over the service limit, notifies the user that limits are being applied to keep service usage or cost under the service limit, applies limits to various aspects of service usage to bring down usage so that projections are within service limits. In one embodiment, the seek to manage below service limit functionality is used.	Authorization to limit data rate for all traffic or a subset of traffic typically may be provided in the options the user specifies for how to limit potential or actual service plan usage or cost overages. For example, one user may choose to have no limits and be notified when service usage is over or about to go over, while another user may choose to allow traffic control sufficient to keep service usage under the service plan limit without any notification.
Require acknowledged notification	Requires the user to acknowledge a notification of potential service or cost overage or a notification of an option to limit the service overage or cost of service overage.	Provided for in the basic service agreement.
Log or report acknowledged notification	In some embodiments, the user acknowledgment of notification is stored, or sent to the Service Controller, or stored and later sent to the Service Controller.	Same as above.
Notify user of service plan options prior to running over service usage limit	Notifies the user of options to extend the service plan limit before reaching the service plan limit. In some embodiments, accepts user input on which service plan extension option if any the user wishes to accept. In some embodiments, notifies the billing system when the user has accepted a service plan extension option.	Same as above.
Notify user of service plan options after running over service usage limit	Notifies the user of options to extend the service plan limit after reaching the service plan limit. In some embodiments, accepts user input on which service plan extension option if any the user wishes to accept. In some embodiments, notifies the billing system when the user has accepted a service plan extension option.	Same as above.
Time of day variations	Each of the functionalities for traffic control, service cost, service limits may be modified with a time of day variation so that the values used are different for different times of day.	Same as above.

FIG. 42F

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Access control enable list	List of service usage activities that are enabled.	Authorization restricted to service controller, VSP or other network function with proper credentials to access the control data base.
Access control block list	List of service usage activities that are blocked.	Same as above.
User service control option UI	Provides the user with a list of options for how they would like to control service usage or service cost.	In some embodiments UI screens and scripts are defined by the UI agent software version and access to modifying this software is restricted to service controller, VSP or other network function with proper credentials to access the UI data base. Some embodiments call for the UI screens or UI screen content to be generated by the service controller, VSP or another network function (e.g. service usage notification gateway or billing system) and in this case access is restricted to service controller, VSP or other network function with proper credentials to access the UI pass through screens.
User service notification option preference	Provides the user with a list of options for how they would like service notification information to be displayed. In some embodiments provides the user with the option to turn off one or more aspects of service notification. In some embodiments the user is not allowed to turn off notification for service usage events that require user decision or acknowledgement.	In some embodiments UI screens and scripts are defined by the UI agent software version and access to modifying this software is restricted to service controller, VSP or other network function with proper credentials to access the UI data base. Some embodiments call for the UI screens or UI screen content to be generated by the service controller, VSP or another network function (e.g. service usage notification gateway or billing system) and in this case access is restricted to service controller, VSP or other network function with proper credentials to access the UI pass through screens.

FIG. 42G