

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inter Partes Review Case No. IPR2015-01227

Inter Partes Review of: U.S. Patent No. 7,907,714

Issued: March 15, 2011

To: Paul G. Baniak *et al.*

For: Profile Management System Including User Interface for Accessing and
Maintaining Profile Data of User Subscribed Telephony Services

**REVISED AMENDED PETITION FOR *INTER PARTES* REVIEW OF
USPN 7,907,714**

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Table of Contents

	Page
I. Mandatory Notices Under 37 C.F.R. § 42.8(a)(1)	1
A. Real Party-In-Interest under 37 C.F.R. § 42.8(b)(1)	1
B. Related Matters under 37 C.F.R. § 42.8(b)(2)	1
C. Lead and Back-Up Counsel under 37 C.F.R. § 42.8(b)(3)	1
D. Service Information under 37 C.F.R. § 42.8(b)(4)	2
E. Proof of Service on the Patent Owner	2
F. Power of Attorney	2
II. Payment of Fees Under 37 C.F.R. § 42.103.....	2
III. Requirements for <i>Inter Partes</i> Review under 37 C.F.R. § 42.104.....	3
A. Grounds for Standing under 37 C.F.R. § 42.104(a)	3
B. Identification of Challenge under 37 C.F.R. § 42.104(b) and Statement of Precise Relief Requested.....	3
C. Threshold Requirement for <i>Inter Partes</i> Review Under 37 C.F.R. § 42.108(c)	4
IV. Overview of the Technology and the '714 Patent	4
A. The Technology	4
B. Brief Description	5
C. Summary of the Prosecution History of the '714 Patent.....	6
D. Applicants Have Not Demonstrated Diligence in Reducing the Alleged Invention to Practice, So Will Be Unable to Swear Behind the Cited Prior Art	7
E. Summary of Prior ArtReferences Relied Upon.....	10
1. <i>Blumhardt</i>	10
2. <i>Buhrmann</i>	12
3. <i>An....</i>	15
4. <i>Elliott</i>	17
5. <i>Boulware</i>	18
6. <i>Bayless</i>	19
7. <i>Beck</i>	19
V. Level of Ordinary Skill in the Art	20

VI. Claims 1-22 of the '714 Patent are Unpatentable	20
A. Claims 1-5, 7, 13-15, 17, and 22 are Anticipated by <i>Blumhardt</i> , claims 8-9 and 18-19 are rendered obvious by <i>Blumhardt</i> in view of <i>Boulware</i> , claim 10 is rendered obvious by <i>Blumhardt</i> in view of <i>Bayless</i> , and claims 14-15 and 21-22 are rendered obvious by <i>Blumhardt</i> in view of <i>Beck</i>	20
B. Claims 1-7, 12-17, and 20 are Anticipated by <i>Buhrmann</i> , claims 8-9 and 18-19 are rendered obvious by <i>Buhrmann</i> in view of <i>Boulware</i> , claim 10 is rendered obvious by <i>Buhrmann</i> in view of <i>Bayless</i> , and claims 14-15 and 21-22 are rendered obvious by <i>Buhrmann</i> in view of <i>Beck</i>	31
C. Claims 1-7, 11, and 13-17 are Anticipated by <i>An</i> , claim 10 is rendered obvious by <i>An</i> in view of <i>Bayless</i> , and claims 14-15 and 21-22 are rendered obvious by <i>An</i> in view of <i>Beck</i>	40
D. Claims 1-7, 13-17, and 22 are Anticipated by <i>Elliott</i> , claim 10 is rendered obvious by <i>Elliott</i> in view of <i>Bayless</i> , and claims 14-15 and 21-22 are rendered obvious by <i>Elliott</i> in view of <i>Beck</i>	52
VII. Conclusion.....	60

Table of Exhibits

Exhibit	Description	Publication Date or Filing Date	Type of Prior Art (35 U.S.C.)
1001	USPN 7,907,714 (the “‘714 patent”) (patent under <i>Inter Partes</i> Review)	Jul. 21, 2006	N/A
1002	The file history for the ‘714 patent	N/A	N/A
1003	USPN 5,629,978 to Blumhardt <i>et al.</i> (“ <i>Blumhardt</i> ”)	Feb. 28, 1994	102(e)
1004	USPN 5,903,845 to Buhrmann <i>et al.</i> (“ <i>Buhrmann</i> ”)	Jun. 4, 1996	102(e)
1005	USPN 6,031,904 to An <i>et al.</i> (“ <i>An</i> ”)	June 19, 1997	102(e)
1006	U.S. Patent Appl. No. 60/028,760 to An <i>et al.</i> (“ <i>An Provisional</i> ”)	Oct. 23, 1996	102(e)
1007	USPN 6,335,927 to Elliott <i>et al.</i> (“ <i>Elliott</i> ”)	Nov. 18, 1996	102(e)
1008	USPN 5,757,899 to Boulware <i>et al.</i> (“ <i>Boulware</i> ”)	Jul. 21, 1995	102(e)
1009	USPN 5,754,636 to Bayless <i>et al.</i> (“ <i>Bayless</i> ”)	Nov. 1, 1994	102(e)
1010	USPN 5,883,946 to Beck <i>et al.</i> (“ <i>Beck</i> ”)	Nov. 27, 1996	102(e)
1011	Supplemental Declaration of Terry L. Vieth Pursuant to 37 C.F.R. § 1.131, for U.S. Patent Appl. No. 09/050,986	Aug. 11, 2003	N/A
1012	Second Supplemental Declaration of Terry L. Vieth Pursuant to 37 C.F.R. § 1.131, for U.S. Patent Appl. No. 10/761,382	Jun. 7, 2004	N/A
1013	Third Supplemental Declaration of Terry L. Vieth Pursuant to 37 C.F.R. § 1.131, for U.S. Patent Appl. No. 10/761,382	Mar. 20, 2006	N/A

Exhibit	Description	Publication Date or Filing Date	Type of Prior Art (35 U.S.C.)
1014	Declaration of Professor Nader Mir, Ph.D. in Support of Request for <i>Inter Partes</i> Review of the '714 Patent	N/A	N/A

Through counsel, real party-in-interest Cox Communications, Inc. (“Petitioner” or “Cox”) hereby petitions for *Inter Partes* Review (“IPR”) under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42 of claims 1-22 of U.S. Patent 7,907,714 (Ex. 1001) (“the ’714 patent”). This Petition shows that there is a reasonable likelihood that Petitioner will prevail in establishing that at least one of these claims is unpatentable, and should be canceled.

I. MANDATORY NOTICES UNDER 37 C.F.R. § 42.8(A)(1)

A. Real Party-In-Interest under 37 C.F.R. § 42.8(b)(1)

Petitioner, Cox Communications, Inc., is the real party-in-interest for the instant petition.

B. Related Matters under 37 C.F.R. § 42.8(b)(2)

The following pending matter where the ’714 patent has been asserted against Petitioner would affect, or be affected by, a decision in this proceeding:

AT&T Intellectual Property I, L.P. and AT&T Intellectual Property II, L.P. v. Cox Communications, Inc. et al., Civil Action No. 14-1106-GMS, filed on August 28, 2014 in the U.S. District Court for the District of Delaware.

C. Lead and Back-Up Counsel under 37 C.F.R. § 42.8(b)(3)

Petitioner provides the following designation of counsel.

LEAD COUNSEL	BACK-UP COUNSEL
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D. Service Information under 37 C.F.R. § 42.8(b)(4)

Cox may be served at the lead counsel address provided in Section I.C. of this Petition.

E. Proof of Service on the Patent Owner

As identified in the attached Certificate of Service, a copy of the present Petition, in its entirety, including all exhibits and a power of attorney, is being served by EXPRESS MAIL[®] to AT&T Legal Department – GB, Attn: Patent Docketing, Room 2A-207, One AT&T Way, Bedminster, New Jersey 07921.

F. Power of Attorney

A power of attorney is being filed with the designation of lead counsel in accordance with 37 C.F.R. § 42.10(b).

II. PAYMENT OF FEES UNDER 37 C.F.R. § 42.103

The undersigned authorizes the Director to charge the fee set forth in 37C.F.R. § 42.15(a), as required by 37 C.F.R. § 42.103, to Deposit Account No. 50-3081. The undersigned further authorizes payment for any additional fees that might be due in connection with this Petition to be charged to the above referenced deposit account.

III. REQUIREMENTS FOR *INTER PARTES* REVIEW UNDER 37 C.F.R. § 42.104

A. Grounds for Standing under 37 C.F.R. § 42.104(a)

Petitioner certifies that the '714 patent is eligible for *Inter Partes* Review and further certifies that Petitioner is not barred or otherwise estopped from challenging the identified claims on the grounds identified within the present petition.

B. Identification of Challenge under 37 C.F.R. § 42.104(b) and Statement of Precise Relief Requested

Petitioner requests *Inter Partes* Review of claims 1-22 of the '714 patent on the grounds set forth in the table below and requests that each of the claims be found unpatentable. An explanation of how claims 1-22 are unpatentable under the statutory grounds identified below, including the identification of where each element is found in the prior art patents or publications and the relevance of the prior art reference, is provided in the form of detailed claim charts. Additional explanation and support for each ground of rejection is set forth in the Declaration of Dr. Nader Mir. (*See* Ex. 1014.)

Ground	'714 Patent Claims	Basis for Rejection
A(1)	1-5, 7, 13-15, 17, and 22	<i>Blumhardt</i> (§102)
A(2)	8-9, 18-19	<i>Blumhardt</i> in view of <i>Boulware</i> (§103)
A(3)	10	<i>Blumhardt</i> in view of <i>Bayless</i> (§103)
A(4)	14-15, 21-22	<i>Blumhardt</i> in view of <i>Beck</i> (§103)
B(1)	1-7, 12-17, and 20	<i>Buhrmann</i> (§102)
B(2)	8-9, 18-19	<i>Buhrmann</i> in view of <i>Boulware</i> (§103)

B(3)	10	<i>Buhrmann</i> in view of <i>Bayless</i> (§103)
B(4)	14-15, 21-22	<i>Buhrmann</i> in view of <i>Beck</i> (§103)
C(1)	1-7, 11, and 13-17	<i>An</i> (§102)
C(2)	10	<i>An</i> in view of <i>Bayless</i> (§103)
C(3)	14-15, 21-22	<i>An</i> in view of <i>Beck</i> (§103)
D(1)	1-7, 13-17, and 22	<i>Elliott</i> (§102)
D(2)	10	<i>Elliott</i> in view of <i>Bayless</i> (§103)
D(3)	14-15, 21-22	<i>Elliott</i> in view of <i>Beck</i> (§103)

C. Threshold Requirement for *Inter Partes* Review Under 37 C.F.R. § 42.108(c)

An IPR should be instituted when there is a “reasonable likelihood that the requester will prevail with respect to at least one of the claims challenged.” 35 U.S.C. § 314(a). This Petition meets the threshold. In particular, as set forth herein, each limitation of the challenged claims is disclosed or suggested by the prior art references. Moreover, where applicable, this Petition sets forth reasons why a person of ordinary skill in the art would be motivated to combine the references.

IV. OVERVIEW OF THE TECHNOLOGY AND THE ’714 PATENT

A. The Technology

As Dr. Mir explains, a person of ordinary skill in the art at the time of the purported invention of the ’714 patent would be aware of existing databases for various purposes in telecommunication. In particular, messaging system databases associated with subscribers in telephone networks were well-known in 1997. For

example, service control point (SCP) was known to one of ordinary skill in the art in 1997 as a large database in the publicly-switched telephone network (PSTN). (*See* Ex. 1014, ¶ 45.) The SCP is a node of the Signaling System 7 network, which provides call control signaling. When a toll-free 800 number is requested, for example, the SCP finds the location address of the destination service switching point (SSP) to which the call should actually be sent. (*See id.*)

B. Brief Description

The '714 patent is directed to the abstract concept of accessing and maintaining a telephone service subscriber's profile data that is stored on a network database. (*See* Ex. 1001, 1:32-35.) It purports to improve upon this basic functionality by providing a user interface on a computer for the subscriber to access and maintain their profile data. (*See id.*, 3:63-67; 4:7-10.) The processing steps in the method of claim 1 recite simple, well-known concepts: receiving a subscriber request to view subscriber profile data; retrieving the subscriber profile data from the network; forwarding the subscriber profile data back to the subscriber for viewing; receiving a subscriber request to update the subscriber profile data; and forwarding the updated profile data to the network. (*See id.*, 15:58-16:13.)

The dependent claims of the '714 patent add nothing beyond well-known, fundamental features of computing and telephony, such as: "a server" (*see* claim 4),

“a graphical user interface” (*see* claim 5), “positive identification” (*see* claim 6), “a tele-communications network” (*see* claim 7), and so on.

C. Summary of the Prosecution History of the '714 Patent

The Application was filed on July 21, 2006, claiming priority to U.S. Provisional Pat. App. No. 60/042,680 (the “Provisional Application”), which was filed on April 3, 1997. (*See* Ex. 1001.) On May 26, 2010, the Examiner issued a non-final action rejecting all of the claims on the ground of nonstatutory obviousness-type double patenting. The Examiner found all claims except 10 and 12 anticipated by U.S. 5,915,008 (Dulman), and claims 10 and 12 obvious over Dulman either alone or in view of US 5,396,546 (Remillard). (Ex. 1002, pp. 85-89.)

Applicants responded by filing a terminal disclaimer to overcome the double patenting rejection. (Ex. 1002, pp. 96-97.) Yet they made no technical arguments against the anticipation or obviousness rejections. Rather, they referenced declarations and exhibits submitted in earlier, related applications that purported to establish conception by the Applicants prior to October 4, 1995, the prior art date of Dulman, along with diligence in reducing the purported invention to practice. (Ex. 1002, p. 94.)

The Examiner accepted the declaration as establishing conception and diligence, thereby mooting the Section 102 and 103 rejections. (Ex. 1002, p. 108.)

A Notice of Allowance was issued, and the Application issued as the '714 patent on March 15, 2011.

D. Applicants Have Not Demonstrated Diligence in Reducing the Alleged Invention to Practice, So Will Be Unable to Swear Behind the Cited Prior Art

A reference with an earlier Section 102(a) or 102(e) date can be removed as prior art if an applicant can demonstrate conception of the claimed invention before that “critical date,” coupled with diligence in reducing the invention to practice. MPEP § 2138.06. An applicant must prove diligence throughout the entire “critical period” from just before that critical date until either an actual or constructive reduction to practice. MPEP § 2138.06; see also *Kendall v. Searles*, 173 F.2d 986, 993, 81 USPQ 363, 369 (CCPA 1949) (requiring evidence of diligence to be “specific as to dates and facts”). In fact, courts have found that a lack of activity on as few as *two days* can be fatal to a claim of diligence. *In re Mulder*, 716 F.2d 1542, 1545, 219 USPQ 189, 193 (Fed. Cir. 1983).

During prosecution of the '714 patent, AT&T attempted to demonstrate diligence through a reduction to practice supposedly evidenced by an April 5, 1996 press release discussing “Positive ID,” a then-forthcoming product. (*See* Ex. 1011.) But for there to be an actual reduction to practice, the claimed invention must have been “sufficiently tested to demonstrate that it will work for its intended purpose.” *Scott v. Finney*, 34 F.3d 1058, 1062 (Fed. Cir. 1994). A date-redacted memorandum purportedly authored by named inventor Terry Vieth “immediately

before the actual reduction to practice” of Positive ID makes clear, however, that Applicants had *not* reduced to practice, by that time, the user interface for viewing subscriber profile data, as required by the claims of the ’714 patent. (*See* Ex. 1012, p. 2, .) To the contrary, the memorandum highlights “Profile Management System/PC Interface requirements” as an “Open Issue,” noting that “requirements have not been written for the PC Interface” and cautioning that “at this time, there are many unanswered questions regarding the PC Interface.” (Ex. 1012, pp. 4, 26.)

AT&T must therefore show diligence from before February 28, 1994—the priority date of *Blumhardt*, the earliest prior art reference cited in this Petition—through a reduction to practice, which could not occur until after the “many unanswered questions about the PC interface” were resolved and the system sufficiently tested. The evidence submitted by Applicants during prosecution shows that they are unlikely to be able to do so. In particular, Applicants attempted to establish diligence by referring to declarations filed by Vieth in related applications. According to Vieth, the claimed invention of the parent applications was conceived “prior to October 4, 1995,” and was discussed at three meetings that followed on January 11, 1996; January 22, 1996; and April 15,

1996.¹ (Ex. 1013, p. 2.)

These meetings are all the evidence of diligence that Applicants mustered. But even if conception occurred *just* prior to October 4, 1995, three meetings over a critical period of several months clearly does not establish the requisite diligence “throughout the entire critical period.” *Monsanto Co. v. Mycogen Plant Sci., Inc.*, 261 F.3d 1356, 1369 (Fed. Cir. 2001). While “there need not necessarily be evidence of activity on every single day if a satisfactory explanation is evidenced,” *id.*, Applicants’ evidence fails to identify activity, or any explanation for the lack thereof, for several *months*.

Furthermore, though a 1.131 declaration demonstrating diligence must be provided for *each* named inventor, *see* MPEP § 715.04(I)(A), Applicants submitted declarations only from Vieth, one of the *seven* named inventors of the ’714 patent. The lack of required declarations from the six others was not explained. *See* MPEP § 715.04(I). Finally, the date-redacted exhibits to Applicants’ submissions (*See, e.g.*, Ex. 1012) were not acceptable, as Applicants were using those submissions as purported evidence of diligence and actual reduction to practice. *See* MPEP 715.07(II) (“[T]he actual dates of acts relied on to establish diligence

¹ Though Vieth’s declaration in U.S. Patent Appl. No. 10/761,382 purports to include, in Exhibit A thereto, “partially redacted meeting minutes” from those meetings, Exhibit A is not included in that application’s file wrapper.

must be provided.”).

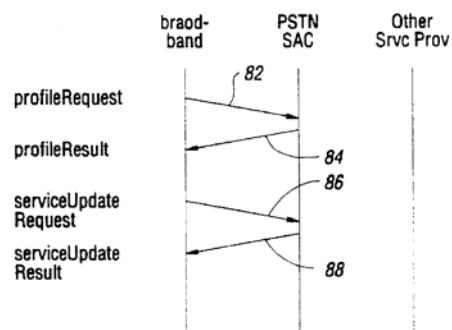
For at least the reasons above, Applicants are unlikely to successfully swear behind the prior art references cited by Petitioner, because Applicants will be unable to demonstrate prior conception coupled with diligence in reducing the claims of the '714 patent to practice.

E. Summary of Prior Art References Relied Upon

Petitioner relies upon the following prior art references, for which full citations are provided in the Table of Exhibits above:

1. *Blumhardt*

Blumhardt (Ex. 1003) discloses a method of managing subscriber profile data identical to the one claimed in the '714 patent. Figures 1 and 7 of *Blumhardt* show that profile data is viewed and updated by receiving a profile request message (82) from a client (16); retrieving the subscriber profile data from the public switched telephone network (12); forwarding a profile result message (84) to the client (16); receiving a service update request message (86) from the client (16); and forwarding updated subscriber profile data to the network (12).



In particular, *Blumhardt* discloses receiving a subscriber request “via a profile request message 82” from a client (e.g., “Customer Premises Equipment (CPE) 16”, including “Set Top Terminal 26” and “Television 28”) when the “subscriber desires to modify or view” the subscriber profile data (e.g., “telephone services”). The client hosts a user interface (e.g., the “Graphical User Interface” provided on “Television 28,” as illustrated by FIGS 3-6) configured to allow the subscriber to view and update the subscriber profile data. (*Id.*, 7:52-56, 8:6-13, 32-36, 10:23-27, FIGS. 1, 3-7; Ex. 1014, ¶ 60.) The subscriber profile data is retrieved from the communications network upon receiving the subscriber request “via profile request message 82” from the client (e.g., “CPE 16”). (Ex. 1003, 10:27-30, FIG. 7; Ex. 1014, ¶ 61.) The subscriber profile data is forwarded (e.g., “profile result message 84”) to the client (e.g., “...and the broadband network 14 will then display the information to the user over television 28.”) (See, e.g., Ex. 1003, 10:24-30, FIG. 7; Ex. 1014, ¶ 61.) A subscriber request to update subscriber profile data is received from the client when the subscriber updates telephone services via the “Graphical User Interface” provided on “Television 28,” as illustrated by FIGS 3-6, and “[w]hen the subscriber wishes to activate any changes made to their telephone services, the broadband network 14 will send a service update request message 86 to the service activation control portion 18 of the PSTN 12.”) (See, e.g., Ex. 1003, 10:29-30, FIGS. 3-7; Ex. 1014, ¶ 62.) The update in *Blumhardt* is forwarded via “service update request message 86” for the subscriber

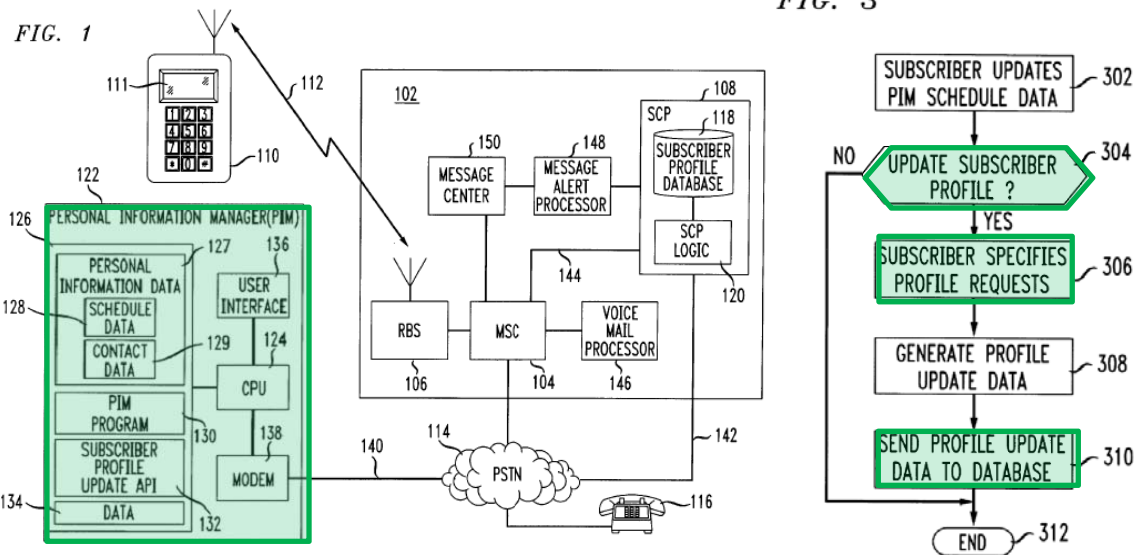
profiles data (e.g., “telephone services”) to the communications network. (See, e.g., Ex. 1003, 10:29-37, FIGS. 3-7; Ex. 1014, ¶ 62.)

Blumhardt also discloses that subscriber profile data is retrieved from the communications network (e.g., “PSTN 12”) via at least one intermediate system (e.g., “broadband network 14”). In FIG. 1, PSTN 12 “is shown directly interfaced with the Broadband network 14.” Further, “[t]he Broadband Network 14 is provided in electrical communication with CPE 16 and, more specifically, STT 26, which is connected to a Graphical User Interface (GUI) such as television 28.” (See, e.g., Ex. 1003, 4:64-5:8, 10:27-34, FIGS. 1, 7; Ex. 1014, ¶ 63.)

2. *Buhrmann*

Buhrmann (Ex. 1004) discloses a “personal information manager (PIM)” that generates user profile update data based on “profile requests entered by the subscriber.” (See Ex. 1004, Abstract.) Just as in the ’714 patent, *Buhrmann*’s PIM (122) “transmits the profile update data to a database in a telecommunications system which stores subscriber profile data.” (*Id.*) User access is provided by a “user interface 136, with a display 500 (FIG. 5).” (*Id.*, 8:4-9, FIGS. 1, 4-6.)

Figure 3 of *Buhrmann* outlines the steps of generating profile update data for use in updating the subscriber profile database. Just as in the ’714 patent, a subscriber’s profile data is retrieved and forwarded to the subscriber upon request. The request is received (steps 304, 306) by the PIM, which then forwards the update to the database on the communications network (step 310).



In particular, *Buhrmann* discloses receiving a subscriber request (e.g., via “profile request field 502”) from a client (e.g., personal information manager (PIM) 122”) to view the subscriber profile data (e.g., “schedule data” provided via the schedule display of FIG. 5). The client, “PIM 122,” includes a CPU 124, a memory 126, and a modem 138, and hosts a user interface (e.g., “user interface 136”) configured to allow the subscriber to view and update the subscriber profile data (e.g., “the subscriber is provided with a schedule display for a chosen day via the user interface 136” and may “generat[e] profile update data, based on schedule data, for use in updating the subscriber profile database 118.”) (See, e.g., Ex. 1004, 6:37-53, 7:13-39, 8:4-14, FIGS. 1, 3-5; Ex. 1014, ¶ 80.) The subscriber profile data is retrieved from the communications network (e.g., “modem 138” of “PIM 122” retrieves information from “service control point (SCP) 108 through the PSTN 114”) upon receiving the subscriber request from the client (e.g., “PIM 122”). (See, e.g., Ex. 1004, 7:13-22, FIG. 1; Ex. 1014. ¶ 80.) The subscriber

profile data is forwarded to the client (e.g., “...the subscriber is provided with a schedule display for a chosen day via the user interface 136. An example schedule display 400 is shown in FIG. 4.”) (See, e.g., Ex. 1004, 3:54-4:4, 7:36-39, FIGS. 4-5; Ex. 1014. ¶ 80.) *Buhrmann* further discloses receiving a subscriber request to update subscriber profile data from the client (e.g., “upon entry of schedule data 128 by the subscriber in step 302, the subscriber is queried by the PIM 122 as to whether the subscriber would like to update his/her telecommunication subscriber profile based on the PIM entries (step 304).” (See, e.g., Ex. 1004, 3:54-4:4, 7:55-65, FIGS. 3-5; Ex. 1014. ¶¶ 81, 82.) An update for the subscriber profile data is forwarded to the communications network: “PIM 122 transmits the profile update data ... in step 310,” which is denoted “send profile update data to database” in FIG. 3. “The profile update data ... is transmitted to the SCP 108 via modem 138 [and] PSTN 114” (See, e.g., Ex. 1004, 3:54-4:4, 9:14-18, FIG. 3; Ex. 1014, ¶¶ 81, 82.)

Buhrmann further discloses that “modem 138” of “PIM 122” retrieves information from “service control point (SCP) 108 through the PSTN 114.” (See Ex. 1004, 7:13-22; FIG. 1.) The PIM 122 of *Buhrmann* can “be configured, through the subscriber profile update API 132, to automatically generate profile update data based on the schedule data 128 entered by the subscriber.” In this way, the subscriber may store information indicating that whenever an event is scheduled in the schedule data 128 (i.e. “a time specified by the subscriber”), the

PIM 122 should automatically generate update data. (See, e.g., Ex. 1004, 8:54-9:13.)

3. *An*

An (Ex. 1005) discloses a method for allowing telephone subscribers to use the Internet to update telephone features. (Ex. 1005, Abstract.) A profile repository connected to the Internet determines which features are active on each subscriber line. (*Id.*) Subscribers may access a special home page, and access and modify their feature profile, eliminating the need for a human operator. (*Id.*)

As shown in Fig. 16 of *An*, profile data is viewed and updated by receiving a query for a service profile (step 214) from a client; retrieving the service profile (step 216) from the network; forwarding a service profile page (step 218) to the client; receiving a service change request (step 220) from the client; and forwarding a table change request (step 222) to the network. The client hosts a user interface, as shown in FIGS. 4-12 (e.g., “a WWW browser such as Netscape Navigator running on the Internet access unit 58 to go to the unique URL associated with the relevant HTML pages on the Web server 50.”) (*Id.*, 5:6-12, 9:6-8, FIGS. 2-12, 16; Ex. 1014, ¶ 99.)

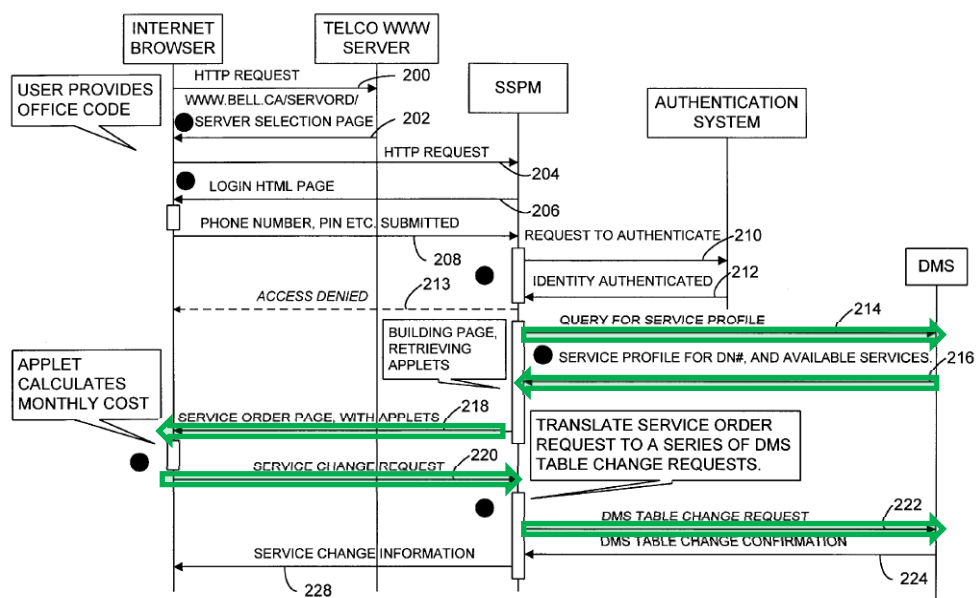


FIGURE 16

As further illustrated in Fig. 16, *An* discloses that subscriber profile data is retrieved from the communications network (e.g., “DMS 160”) via at least one intermediate system (e.g., “SSPM (subscriber service provisioning manager) Server” alternately referred to as the “JavaTel Server” in the *An Provisional*), which is “...connected to/forming part of a public communications network.” (See, e.g., Ex. 1005, 4:16-46, 8:31-36, FIGS. 2-3, 15-16; Ex. 1014, ¶ 99.) A multiplexed switch, the DMS contains tables assuming the role of the users’ profile repositories. “Tables stored on the DMS switch 160 contain tuples which indicate which features are active for a given DN. These tables assume the role of the profile repositories. The SDM can read, change, delete and add tuples to DMS tables, thus changing customer's service profiles.” (See, e.g., Ex. 1005, 8:21-25.) *An* further discloses that the users’ profile changes are implemented in DMS. *An*

illustrates the timing diagram of the profile update function in DMS. (See, e.g., *id.*, 8:31-36, Fig. 16.)

The *An Provisional* Application, to which *An* claims priority, fully supports and explicitly describes *An*'s disclosure of the features claimed by the '714 patent, as shown at least in Table C, below. (Ex. 1005; Ex. 1014, ¶ 101; see *In re Giacomini*, 612 F.3d 1380, 1385, 95 USPQ 2d 1698 (Fed. Cir. 2010) (noting that 35 U.S.C. § 102(e) requires “treating the disclosure of a U.S. patent as prior art as of the filing date of the earliest U.S. application to which the patent is entitled, provided the disclosure was contained in substance in the said earliest application”).)

4. *Elliott*

Elliott (Ex. 1007) discloses a comprehensive system for handling “telephone calls, data, and other multimedia information [in] a hybrid network which includes transfer of information across the internet.” (Ex. 1007, Abstract.) In particular, *Elliott* discloses utilizing “user profile information” throughout the system to specify, enable, and control numerous system functions. (*Id.*) Users can manage and control network activities from a user terminal by accessing and updating their “user profile information.” (*Id.*) *Elliott* discloses that “the user is able to modify his account, customizing his application by making feature/functionality updates,” which are forwarded to the communications network based upon the subscriber's “writ[ing] to” the directory, “making updates to their accounts.” (*Id.*, 61:28-62:67,

FIGS. 40, 42, 57-61; Ex. 1014, ¶¶ 113, 114.) Figure 40 of *Elliott* illustrates the relationship between the user client (452), intermediate web server (450), and the user profile information database (456).

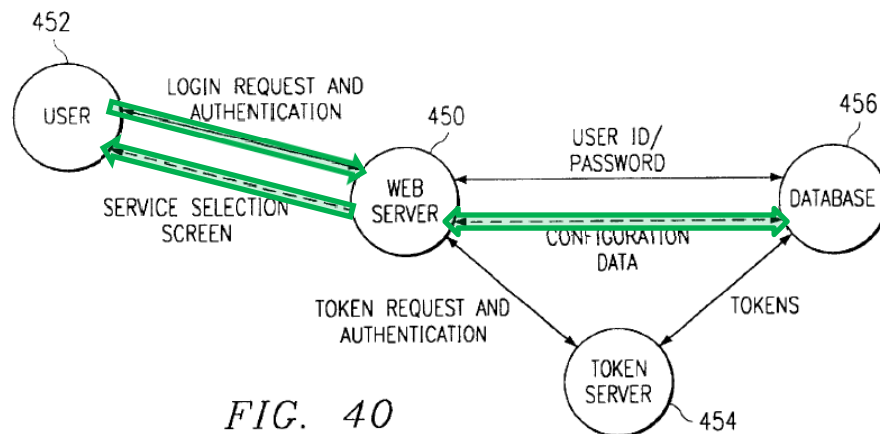


Figure 40 of *Elliott* also highlights the communication paths utilized to receive, from the client, subscriber requests for profile data; retrieve profile data from the network database via the web server; forward the profile data to the user; receive a request to update profile data; and forward an update to the network database via the web server.

5. *Boulware*

Boulware (Ex. 1008) discloses the use of access codes in a call screening system for a telephone switching network. In *Boulware*, a subscriber sets a “privileged caller code” which “allows a subscriber caller who has been provided with the code to be routed directly to the subscriber's telephone upon entering the code when the call screening service is active.” (Ex. 1008, 4:5-19, FIG. 1.) The

“privileged caller code” is stored as part of the subscriber’s profile data (e.g., “call screening service configuration information may reside on any one of a number of service control points (SCP).”) (Ex. 1008, 5:5-20.)

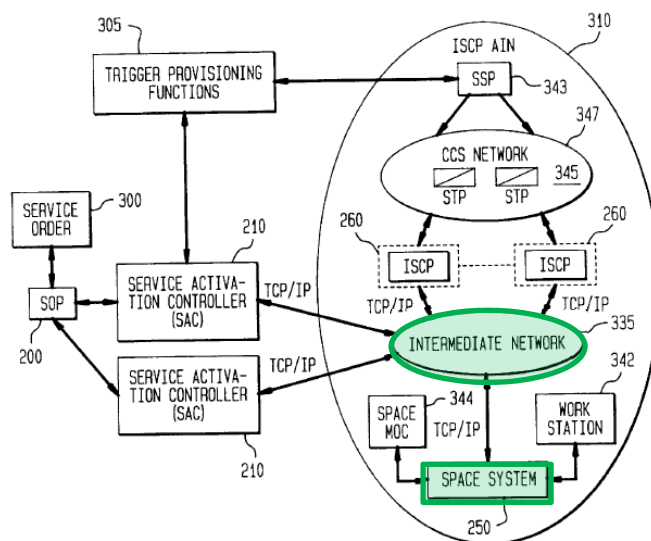
6. Bayless

Bayless (Ex. 1009) discloses a “call logging feature” as one of several telephone functions in a telecommunications system (10) to be accessed through client computer system (14). (Ex. 1009, Abstract, 60:35-41, FIG. 111.) A graphical user interface (116) allows the user to access databases containing information related to phone calls and callers, such as “time stamps of when the call began, whether the call went to voicemail, also time duration of the voicemail message, the parties to the call, etc.” (*Id.*, Abstract, 60:35-41, 52-55, 60-63.)

7. Beck

Beck (Ex. 1010) discloses a profile management system topology in a telecommunications system for “interfacing a service activation controller and a service management system allow[ing] a remote system to generate, update and delete call processing records.” (*See* Ex. 1010, Abstract, 1:34-40.) *Beck* includes an intermediate network for generating and updating call processing records, which operates “together with [a] service management system/SPACE 250.” (*Id.*, 4:25-34, FIGS. 2-3.) SPACE is a service management system by Bellcore, or “Service Provisioning and Creation Environment (SPACE®) system.” (*Id.*, 1:55-57, 4:16-18, 27-33, FIGS. 2-3; Ex. 1014, ¶ 57.)

FIG. 3



V. LEVEL OF ORDINARY SKILL IN THE ART

In light of the specification, the references of record, and other available evidence, a person of ordinary skill in the relevant field at the alleged time of invention of the '714 patent would have an undergraduate degree in computer science or electrical engineering and three to four years of experience in the field, or an equivalent combination of education and experience. (*See* Ex. 1014, ¶ 31.)

VI. CLAIMS 1-22 OF THE '714 PATENT ARE UNPATENTABLE

A detailed explanation of the relevance and manner of applying the prior art references to Claims 1-22 of the '714 patent is provided below.

- A. Claims 1-5, 7, 13-15, 17, and 22 are Anticipated by *Blumhardt*, claims 8-9 and 18-19 are rendered obvious by *Blumhardt* in view of *Boulware*, claim 10 is rendered obvious by *Blumhardt* in view of *Bayless*, and claims 14-15 and 21-22 are rendered obvious by *Blumhardt* in view of *Beck*.**

Blumhardt discloses each element of claims 1-5, 7, 13-15, 17, and 22.

Blumhardt in view of *Boulware* renders obvious claims 8-9 and 18-19. There is

motivation to combine *Blumhardt* and *Boulware*. *Blumhardt* discloses a “system and method for purchasing, customizing and modifying switch-based and Advanced Intelligent Network (AIN) telephone services through the Broadband Network.” (See Ex. 1003, Abstract; Ex. 1014, ¶ 65.) Through the use of a graphical user interface (GUI), *Blumhardt*’s system anticipates that “service subscribers have the capability to create, configure and modify services and they are provided immediate access.” (See Ex. 1003, 8:6-8.) Examples of such services “include, but of course, are not limited to, call-waiting 60, three-way calling 62, and calling name delivery 64, all of which may be found under a broad heading entitled “Select the Features Desired.” (*Id.*, 8:28-29, 40-57.)

Boulware discloses “a call screening service ... for a telephone switching network.” (Ex. 1008, Abstract; Ex. 1014, ¶ 66.) Specifically, *Boulware* provides a “privileged caller code” stored as part of the subscriber’s profile data, for example, at “any one of a number of service control points (SCP).” (See Ex. 1008, 5:5-20.) Because *Blumhardt* provides a system designed to modify a variety of telephone services, a skilled artisan would be readily motivated to incorporate the telephone screening service of *Boulware* with the known system of *Blumhardt* to yield a predictable improvement of available services. (See Ex. 1014, ¶ 67; MPEP §§ 2143, 2144.)

Blumhardt in view of *Bayless* renders obvious claim 10. There is also motivation to combine *Blumhardt* and *Bayless*. *Bayless* discloses a

telecommunications system providing a variety of telephone features accessed through a graphical user interface at a client computer system. (Ex. 1009, Abstract; Ex. 1014, ¶ 71.) One of the several telephone system features provided by *Bayless* is a “call logging feature,” designed to log information about each call generated or received by a user and store that information in a call log database. (See Ex. 1009, 60:35-65.) Because *Blumhardt* provides a system designed to create and modify a variety of telephone services (see above), a skilled artisan would be readily motivated to incorporate the known telephone call logging feature of *Bayless* with the known system of *Blumhardt* to yield a predictable improvement of available services. (See Ex. 1014, ¶ 72; MPEP §§ 2143, 2144.)

Blumhardt in view of *Beck* renders obvious each element of claims 14-15 and 21-22. There is also motivation to combine *Blumhardt* and *Beck*. *Blumhardt* provides a system “specifically adapted for use in purchasing and customizing switch-based services as well as purchasing, customizing and modifying Advanced Intelligent Network (AIN) telephone services.” (Ex. 1003, 3:28-37; Ex. 1014, ¶ 75.) *Blumhardt*’s system architecture “includes a Service Switching Point (SSP) and an AIN Service Control Point (SCP) ... provided in electrical communication with the SSP and the PSTN service activation and control functionality.” (See Ex. 1003, 3:28-37.) “The SCP is operative to provide an AIN service template for each of the PSTN service subscribers.” (*Id.*)

Similarly, *Beck* discloses a profile management system topology in a

telecommunications system for “interfacing a service activation controller and a service management system allow[ing] a remote system to generate, update and delete call processing records.” (See Ex. 1010, Abstract, 1:34-40; Ex. 1014, ¶ 76.) *Beck’s* system includes an intermediate network for generating and updating call processing records, which operates “together with [a] service management system/SPACE 250.” (*Id.*, 4:25-34; FIGS. 2-3.) The SPACE service management system provides a “maintenance operating console 344 to monitor the status of the [Integrated] SCPs.” Because *Blumhardt* and *Beck* have similar system architectures and are both designed to perform user service management, a skilled artisan would be readily motivated to incorporate the known intermediate SPACE system of *Beck* with the known system of *Blumhardt* to yield a predictable improvement of the service management system. (See Ex. 1014, ¶ 77; MPEP §§ 2143, 2144.)

Table A: Proposed Rejections A(1), USPN 5,629,978 to *Blumhardt*; A(2), *Blumhardt* in view of USPN 5,757,899 to *Boulware*; A(3), *Blumhardt* in view of USPN 5,754,636 to *Bayless*; and A(4), *Blumhardt* in view of USPN 5,883,946 to *Beck*

Claim Element	A(1), A(2), A(3), A(4)
[1a.] A method for managing, by a profile management system, subscriber profile data associated with a communications service subscribed to by a subscriber, the subscriber profile data being stored	

Claim Element	A(1), A(2), A(3), A(4)
on a communications network which executes the communications service in accordance with the subscriber profile data, the method comprising:	
[1b.] receiving a subscriber request to view the subscriber profile data from a client which hosts a user interface configured to allow the subscriber to view and update the subscriber profile data;	<i>Blumhardt</i> discloses that “[i]n operation, when the telephone service subscriber desires to modify or view their telephone services, the broadband application will request a complete download of data from the Public Switched Telephone Network 12 via a profile request message 82.” “[S]ubscribers have the capability to create, configure and modify services ... on their television 28.” (<i>See, e.g.</i> , Ex. 1003, 7:52-56, 8:6-13, 32-36, 10:23-27, FIGS. 1, 3-7; Ex. 1014, ¶ 60.)
[1c.] retrieving the subscriber profile data from the communications network based upon receiving the subscriber request to view the subscriber profile data from the client;	<i>Blumhardt</i> discloses that “[t]he service activation and control portion 18 of the PSTN 12 will respond with a profile result message 84.” (<i>See, e.g.</i> , Ex. 1003, 10:27-30, FIG. 7; Ex. 1014, ¶ 61.)
[1d.] forwarding the subscriber profile data to the client;	<i>Blumhardt</i> discloses that “[t]he service activation and control portion 18 of the PSTN 12 will respond with a profile result message 84 and the broadband network 14 will then display the information to the user over television 28.” (<i>See, e.g.</i> , Ex. 1003, 10:24-30, FIG. 7; Ex. 1014, ¶ 61.)
[1e.] receiving a subscriber request to update the subscriber profile data from the client, and	<i>Blumhardt</i> discloses that “[w]hen the subscriber wishes to activate any changes made to their telephone services, the broadband network 14 will send a service update request message 86 to the service activation control portion 18 of the PSTN 12.” (<i>See, e.g.</i> , Ex. 1003, 10:29-30, FIGS. 3-7; Ex. 1014, ¶ 62.)
[1f.] forwarding an update for the subscriber profile data to the	<i>Blumhardt</i> discloses that “[w]hen the subscriber wishes to activate any changes made to their telephone services, the broadband network 14 will

Claim Element	A(1), A(2), A(3), A(4)
communications network based upon receiving the subscriber request to update the subscriber profile data from the client.	send a service update request message 86 to the service activation control portion 18 of the PSTN 12. The data will then be loaded into the appropriate network elements and operations systems for service, and a service update result message 88 will be returned to the broadband application.” (See, e.g., Ex. 1003, 10:29-37, FIGS. 3-7; Ex. 1014, ¶ 62.)
[2.] The method for managing subscriber profile data of claim 1, wherein the subscriber profile data is retrieved from the communications network via at least one intermediate system.	<i>Blumhardt</i> discloses that “Public Switched Telephone Network ... is shown directly interfaced with the Broadband network 14 ... The Broadband Network 14 is provided in electrical communication with CPE 16 and, more specifically, STT 26, which is connected to a Graphical User Interface (GUI) such as television 28.” (See, e.g., Ex. 1003, 4:64-5:8, 10:27-34, FIGS. 1, 7; Ex. 1014, ¶ 63.)
[3.] The method for managing subscriber profile data of claim 1, wherein the update for the subscriber profile data is forwarded to the communications network via at least one intermediate system.	<i>Blumhardt</i> discloses that “Public Switched Telephone Network ... is shown directly interfaced with the Broadband network 14 ... The Broadband Network 14 is provided in electrical communication with CPE 16 and, more specifically, STT 26, which is connected to a Graphical User Interface (GUI) such as television 28.” (See, e.g., Ex. 1003, 4:64-5:8, 10:27-34, FIGS. 1, 7.)
[4.] The method for managing subscriber profile data of claim 1, wherein the profile management system comprises a server.	<i>Blumhardt</i> discloses “service activation control portion 18 which ... is operative to perform the basic tasks of service delivery, i.e., the provision and modification of telephone services; and service assurance, i.e. maintenance of the telephone system. This service activation and control functionality takes the form of complex hardware and software.” (See, e.g., <i>id.</i> , 4:43-54, FIG. 1; Ex. 1014, ¶ 63.)
[5.] The method for managing subscriber profile data of claim 1, wherein the user interface is a graphical user interface.	<i>Blumhardt</i> discloses a “Graphical User Interface,” illustrated by FIGS 3-6. (See, e.g., Ex. 1003, 2:63-65, 3:13-24, 8:32-36, FIGS. 3-6.)
[7.] The method for managing subscriber	<i>Blumhardt</i> discloses that the “system of the present invention ... may be viewed as including ... the

Claim Element	A(1), A(2), A(3), A(4)
profile data of claim 6, wherein the communications network comprises a telecommunications network.	Public Switched Telephone Network (PSTN) designated generally by reference numeral 12.” (<i>See, e.g., id.</i> , 2:52-57, 4:34-63, FIG. 1.)
[8.] The method for managing subscriber profile data of claim 7, wherein the subscriber profile data comprises access codes and authorized telephone numbers.	<p><i>Blumhardt</i> discloses that “specific calls from selected calling parties ... could be rejected at specified hours through use of ‘reject these calls’.” (<i>See, e.g., id.</i>, 9:38-41, FIGS. 4-6.)</p> <p><i>Boulware</i> discloses “a privileged caller code ... that would allow the caller to be routed ... regardless of the status of the call screening service.” “[T]here may be a number of subscriber databases distributed throughout the telephony network for describing subscriber configurations of network services ... the call screening service configuration information may reside on any one of a number of service control points (SCP).” (<i>See, e.g., Ex. 1008</i>, 4:5-19, 5:5-24, FIG. 1.)</p>
[9.] The method for managing subscriber profile data of claim 8, wherein, when a calling party calls the subscriber, the calling party is only successfully connected to the subscriber when either the calling party's telephone number is an authorized telephone number or when the calling party inputs one of the access codes.	<p><i>Blumhardt</i> discloses that “specific calls from selected calling parties ... could be rejected at specified hours through use of ‘reject these calls’.” (<i>See, e.g., id.</i>, 9:38-41, FIGS. 4-6.)</p> <p><i>Boulware</i> discloses that “the subscriber may provide this [privileged caller] code to potential callers so that these callers may circumvent having their calls screened when calling the subscriber, as illustrated by the flow path from step 36 to step 28 [of FIG. 1].” (<i>See, e.g., Ex. 1008</i>, 4:5-19, 5:5-24, FIG. 1.)</p>
[10.] The method for managing subscriber profile data of claim 9, wherein a reporting system generates reports	<i>Bayless</i> discloses “log[ging] information about each call generated or received by a user. This information may be stored in a call log database using database client service provider 22 and/or database server service provider 40.” “The information stored in the

Claim Element	A(1), A(2), A(3), A(4)
<p>comprising calling parties attempting to connect to the subscriber, indicating each calling party successfully connected to the subscriber and each calling party not successfully connected to the subscriber.</p>	<p>call log database may include time stamps of when the call began, whether the call went to voicemail, also time duration of the voicemail message, the parties to the call, etc.” (<i>See, e.g.</i>, Ex. 1009, 60:35-41, 52-55, 60-63, 61:4-15, FIG. 111.)</p>
<p>[13a.] A method for managing subscriber profile data associated with a communications service subscribed to by a subscriber, the subscriber profile data being stored on a communications network which executes the communications service in accordance with the subscriber profile data, the method comprising:</p>	<p><i>Blumhardt</i> discloses this element. <i>See</i> Table A, Element [1a], above.</p>
<p>[13b.] receiving, from a profile management system, a subscriber request to view the subscriber profile data, the subscriber request to view the subscriber profile data being received from the profile management system based upon the profile management system receiving the subscriber request to view the subscriber profile data from a client which hosts a user interface configured to allow the subscriber to view and update the</p>	<p><i>Blumhardt</i> discloses this element. <i>See</i> Table A, Element [1b], above.</p>

Claim Element	A(1), A(2), A(3), A(4)
<p>subscriber profile data;</p> <p>[13c.] forwarding the subscriber profile data to the profile management system based upon receiving the subscriber request to view the subscriber profile data from the profile management system, the profile management system being configured to forward the subscriber profile data to the client when the profile management system receives the subscriber profile data;</p>	<p><i>Blumhardt</i> discloses this element. <i>See</i> Table A, Elements [1c] and [1d], above.</p>
<p>[13d.] receiving an update for the subscriber profile data from the profile management system, the update for the subscriber profile data being received from the profile management system based upon the profile management system receiving a subscriber request to update the subscriber profile data from the client, wherein the communications network executes the communications service in accordance with the updated subscriber profile data.</p>	<p><i>Blumhardt</i> discloses this element. <i>See</i> Table A, Elements [1e] and [1f], above.</p>
<p>[14.] The method for managing subscriber</p>	<p><i>Blumhardt</i> discloses that “Public Switched Telephone Network ... is shown directly interfaced</p>

Claim Element	A(1), A(2), A(3), A(4)
<p>profile data of claim 13, wherein the subscriber profile data is forwarded to the profile management system via at least one intermediate system.</p>	<p>with the Broadband network 14 ... The Broadband Network 14 is provided in electrical communication with CPE 16 and, more specifically, STT 26, which is connected to a Graphical User Interface (GUI) such as television 28.” (<i>See, e.g.</i>, Ex. 1003, 4:64-5:8, 10:27-34, FIGS. 1, 7; Ex. 1014, ¶ 63.)</p> <p>FIGS. 2 and 3 of <i>Beck</i> further disclose the “service management system 250”: “One of the SACs 210 processes the order and sends a provisioning message to an intermediate network 335 in system 310. The intermediate network 335 includes communications agent 220, queue 230, memory 280, and SPI 240 shown in FIG. 2”. “SACs 210 receive [] message[s] from intermediate network 335...” (<i>See, e.g.</i>, Ex. 1010, 4:27-31, 47-48, FIGS 2-3.)</p>
<p>[15.] The method for managing subscriber profile data of claim 13, wherein the update for the subscriber profile data is received from the profile management system via at least one intermediate system.</p>	<p><i>Blumhardt</i> discloses this element. <i>See</i> Table A, Element [14], above.</p> <p><i>Beck</i> discloses this element. <i>See</i> Table A, Element [14], above.</p>
<p>[17.] The method for managing subscriber profile data of claim 16, wherein the communications network comprises a telecommunications network.</p>	<p><i>Blumhardt</i> discloses that the “system of the present invention ... may be viewed as including ... the Public Switched Telephone Network (PSTN) designated generally by reference numeral 12.” (<i>See, e.g., id.</i>, 2:52-57, 4:34-63, FIG. 1.)</p>
<p>[18.] The method for managing subscriber profile data of claim 17, wherein the subscriber profile data comprises access codes and authorized telephone</p>	<p><i>Blumhardt</i> discloses that “specific calls from selected calling parties ... could be rejected at specified hours through use of ‘reject these calls’.” (<i>See, e.g., id.</i>, 9:38-41, FIGS. 4-6.)</p> <p><i>Boulware</i> discloses that “the subscriber may provide this [privileged caller] code to potential callers so that</p>

Claim Element	A(1), A(2), A(3), A(4)
numbers.	these callers may circumvent having their calls screened when calling the subscriber, as illustrated by the flow path from step 36 to step 28 [of FIG. 1].” (See, e.g., Ex. 1008, 4:5-19, 5:5-24, FIG. 1.)
[19.] The method for managing subscriber profile data of claim 18, wherein, when a calling party calls the subscriber, the calling party is only successfully connected to the subscriber when either the calling party's telephone number is one of the authorized telephone numbers or the calling party inputs one of the access codes.	<p><i>Blumhardt</i> discloses that “specific calls from selected calling parties ... could be rejected at specified hours through use of ‘reject these calls’.” (See, e.g., <i>id.</i>, 9:38-41, FIGS. 4-6.)</p> <p><i>Boulware</i> discloses that “the subscriber may provide this [privileged caller] code to potential callers so that these callers may circumvent having their calls screened when calling the subscriber, as illustrated by the flow path from step 36 to step 28 [of FIG. 1].” (See, e.g., Ex. 1008, 4:5-19, 5:5-24, FIG. 1.)</p>
[21.] The method for managing subscriber profile data of claim 14, wherein the intermediate system further comprises SPACE.	<i>Beck</i> discloses that “intermediate network 335 ... together with service management system/SPACE 250, generates or updates CPRs based on the provisioning message in the provisioning message.” (See, e.g., Ex. 1010, 1:55-57, 4:16-18, 27-33, FIGS 2-3.)
[22.] The method for managing subscriber profile data of claim 13, wherein the profile management system communicates with the client using TCP/IP.	<p><i>Blumhardt</i> discloses that “SCP 36 is further provided in electrical communication with PSTN service activation and control functionality 18 through signalling link 42 which may comprise ROSE TCP/IP or any other suitable signalling protocol.” (See, e.g., Ex. 1003, 5:49-53.)</p> <p><i>Beck</i> also discloses that “[c]ommunication between SAC 210 and communications agent 220 preferably uses a transmission control protocol/internet protocol (TCP/IP). TCP/IP is an internet standard for packet switching between computing systems.” (See, e.g., Ex. 1010, 4:53-64.)</p>

B. Claims 1-7, 12-17, and 20 are Anticipated by *Buhrmann*, claims 8-9 and 18-19 are rendered obvious by *Buhrmann* in view of *Boulware*, claim 10 is rendered obvious by *Buhrmann* in view of *Bayless*, and claims 14-15 and 21-22 are rendered obvious by *Buhrmann* in view of *Beck*.

Buhrmann discloses each element of claims 1-7, 12-17, and 20. *Buhrmann* in view of *Boulware* renders obvious each element of claims 8-9 and 18-19. There is motivation to combine *Buhrmann* and *Boulware*. *Buhrmann* discloses a personal information manager (PIM) that, “based on additional profile requests entered by the subscriber, generates profile update data associated with the personal information data.” (Ex. 1004, Abstract; Ex. 1014, ¶ 84.) “The PIM transmits the profile update data to a database in a telecommunication system which stores subscriber profile data.” (Ex. 1004, Abstract.) *Buhrmann* provides that “telecommunication services, including call completion services and message reminder services, are provided to the subscriber based on the updated subscriber profile data.” (*Id.*) The subscriber profile record of a subscriber is updated in a database via PIM while the PIM can be in any type of electronic personal information device (*Id.*, 6:36-42.) *Buhrmann* acknowledges that “telecommunications service providers are offering many different types of telecommunication services to their customers,” with examples including “call completion,” “call forwarding,” and “alert reminder” services. (*Id.*, 1:20-67.)

As described above, *Boulware* discloses a “privileged caller code,” which is stored as part of a subscriber’s profile data. (Ex. 1008, 5:5-20; Ex. 1014, ¶ 85.)

The SCP that *Boulware* uses for call screening is the same SCP that *Buhrmann* refers to as a subscriber profile database in the PSTN. (Ex. 1014, ¶ 85.) Because *Buhrmann* provides a system designed to modify telephone services, a skilled artisan would be readily motivated to incorporate the known telephone screening service of *Boulware* with the known system of *Buhrmann* to yield a predictable improvement of available services. (See, e.g., *id.*, ¶ 86; MPEP §§ 2143, 2144.)

Buhrmann in view of *Bayless* renders obvious each element of claim 10. There is also motivation to combine *Buhrmann* and *Bayless*. As described above, *Bayless* discloses a graphical user interface for updating telephone system features, including a “call logging feature.” (Ex. 1009, 60:35-65; Ex. 1014, ¶ 90.) Because *Buhrmann* provides a system designed to modify a variety of telephone services, a skilled artisan would be readily motivated to incorporate the known telephone call logging feature of *Bayless* with the known system of *Buhrmann* to yield a predictable improvement of available services. (See Ex. 1014, ¶ 91; MPEP §§ 2143, 2144.)

Buhrmann in view of *Beck* renders obvious claims 14-15 and 21-22. There is also motivation to combine *Buhrmann* and *Beck*. *Buhrmann* provides a system “for updating a telecommunication subscriber profile and for providing telecommunication services based on the updated subscriber profile.” (Ex. 1004, 5:13-15; Ex. 1014, ¶ 94.) It includes a “mobile switching center (MSC)” connected to both the public switched telephone network (PSTN), service control

point (SCP) 108, the voice mail processor 146, and the message center 150. (Ex. 1004, 5:52-57.) The SCP “contains a database 118 which contains subscriber profiles.” (*Id.*, 5:58-59.)

As described above, *Beck* discloses a profile management system topology that operates “together with [a] service management system/SPACE 250.” (Ex. 1010, 4:25-34, FIGS. 2-3; Ex. 1014, ¶ 95.) Because *Buhrmann* and *Beck* have similar system architectures and are designed to perform user service management, a skilled artisan would be readily motivated to incorporate the known intermediate SPACE service management system of *Beck* with the known system of *Buhrmann* to yield a predictable improvement of the service management system. (See Ex. 1014, ¶ 96; MPEP §§ 2143, 2144.)

Table B: Proposed Rejections B(1), USPN 5,903,845 to *Buhrmann*; B(2), *Buhrmann* in view of USPN 5,757,899 to *Boulware*; B(3), *Buhrmann* in view of USPN 5,754,636 to *Bayless*; and B(4), *Buhrmann* in view of USPN 5,883,946 to *Beck*

Claim Element	B(1), B(2), B(3), B(4)
[1a.] A method for managing, by a profile management system, subscriber profile data associated with a communications service subscribed to by a subscriber, the subscriber profile data being stored on a communications network which executes the communications service in accordance with the subscriber profile data, the method	

Claim Element	B(1), B(2), B(3), B(4)
comprising:	
[1b.] receiving a subscriber request to view the subscriber profile data from a client which hosts a user interface configured to allow the subscriber to view and update the subscriber profile data;	<i>Buhrmann</i> discloses that “[t]he steps of generating profile update data, based on schedule data, for use in updating the subscriber profile database 118 will be described in conjunction with the flowchart of FIG. 3.” Further, “[t]he subscriber is presented, through the user interface 136, with a display 500 (FIG. 5) allowing entry of profile requests in a profile request field 502.” (<i>See, e.g.</i> , Ex. 1004, 6:37-53, 7:13-39, 8:4-14, FIGS. 1, 3-5; Ex. 1014, ¶ 80.)
[1c.] retrieving the subscriber profile data from the communications network based upon receiving the subscriber request to view the subscriber profile data from the client;	<i>Buhrmann</i> discloses “[t]he user interface 136 allows the subscriber who is using the PIM 122 to view, enter and update personal information data 127 and otherwise interact with the PIM 122.” (<i>See, e.g.</i> , Ex. 1004, 7:13-22, FIG. 1; Ex. 1014. ¶ 80.)
[1d.] forwarding the subscriber profile data to the client;	<i>Buhrmann</i> discloses “...the subscriber is provided with a schedule display for a chosen day via the user interface 136. An example schedule display 400 is shown in FIG. 4.”) (<i>See, e.g.</i> , Ex. 1004, 3:54-4:4, 7:36-39, FIGS. 4-5; Ex. 1014. ¶ 80.)
[1e.] receiving a subscriber request to update the subscriber profile data from the client, and	<i>Buhrmann</i> discloses that “upon entry of schedule data 128 by the subscriber in step 302, the subscriber is queried by the PIM 122 as to whether the subscriber would like to update his/her telecommunication subscriber profile based on the PIM entries (step 304).... If the subscriber answers “YES” to this query, then in step 306 the subscriber enters profile requests into the PIM 122.” (<i>See, e.g.</i> , Ex. 1004, 3:54-4:4, 7:55-65, FIGS. 3-5; Ex. 1014. ¶¶ 81, 82.)
[1f.] forwarding an update for the subscriber profile data to the communications network based upon receiving the subscriber request to update the subscriber profile data from the	<i>Buhrmann</i> discloses that “PIM 122 transmits the profile update data ... in step 310,” the “send profile update data to database” step in FIG. 3. “The profile update data ... is transmitted to the SCP 108 via modem 138 [and] PSTN 114.” (<i>See, e.g.</i> , Ex. 1004, 3:54-4:4, 9:14-18, FIG. 3;

Claim Element	B(1), B(2), B(3), B(4)
client.	Ex. 1014, ¶¶ 81, 82.)
[2.] The method for managing subscriber profile data of claim 1, wherein the subscriber profile data is retrieved from the communications network via at least one intermediate system.	<i>Buhrmann</i> discloses that “modem 138 is used for sending information from the PIM 122 to the SCP 108 through the PSTN 114.” (<i>See</i> Ex. 1004, 7:13-22, 10:20-27, FIGS. 1, 7.; Ex. 1014, ¶¶ 81, 82.)
[3.] The method for managing subscriber profile data of claim 1, wherein the update for the subscriber profile data is forwarded to the communications network via at least one intermediate system.	<i>Buhrmann</i> discloses that “modem 138 is used for sending information from the PIM 122 to the SCP 108 through the PSTN 114.” (<i>See</i> Ex. 1004, 7:13-22, 10:20-27, FIGS. 1, 7.; Ex. 1014, ¶¶ 81, 82.)
[4.] The method for managing subscriber profile data of claim 1, wherein the profile management system comprises a server.	<i>Buhrmann</i> discloses that “[a]s shown in FIG. 1, a suitable PIM 122 includes a central processing unit (CPU) 124 connected to a memory 126, a user interface 136, and a modem 138. The memory 126 contains storage areas for storing personal information data 127, a PIM program 130, a subscriber profile update application program interface (API) 132.” (<i>See, e.g.</i> , Ex. 1004, 6:37-53, FIG. 1.)
[5.] The method for managing subscriber profile data of claim 1, wherein the user interface is a graphical user interface.	<i>Buhrmann</i> discloses that “user interface 136 may be ... a display monitor” and that “the subscriber is presented, through the user interface 136, with a display 500 (FIG. 5).” (<i>See, e.g., id.</i> , 7:13-21, 8:4-9, FIGS. 1, 4-6.)
[6.] The method for managing subscriber profile data of claim 1, wherein the communications service comprises positive identification.	<i>Buhrmann</i> discloses “selective call acceptance.” “Entry 506 is a call completion request indicating that ... the subscriber requests selective call acceptance such that only calls from the telephone number (123) 555-6666 will be delivered ... all other calls will be forwarded to subscriber’s voice mail.” (<i>See, e.g., id.</i> , 8:20-26, FIGS. 5, 11.)
[7.] The method for managing subscriber profile data of claim 6, wherein the communications	<i>Buhrmann</i> discloses “PSTN 114.” (<i>See</i> Ex. 1004, 7:13-22; FIG. 1.) Additionally, “[I]n an alternate embodiment, as shown in FIG. 9, the

Claim Element	B(1), B(2), B(3), B(4)
network comprises a telecommunications network.	PIM 122 sends the profile update data to the wireless cellular communication network 102 via a wireless communication link instead of the PSTN 114.” (<i>See, e.g., id.</i> , 12:14-29, FIG. 9.)
[8.] The method for managing subscriber profile data of claim 7, wherein the subscriber profile data comprises access codes and authorized telephone numbers.	<p><i>Buhrmann</i> discloses that “the subscriber requests selective call acceptance such that only calls from the telephone number (123) 555-6666 will be delivered.” (<i>See, e.g., id.</i>, 8:20-26, FIG. 5.)</p> <p><i>Boulware</i> discloses “a privileged caller code ... that would allow the caller to be routed ... regardless of the status of the call screening service.” “[T]here may be a number of subscriber databases distributed throughout the telephony network for describing subscriber configurations of network services ... the call screening service configuration information may reside on any one of a number of service control points (SCP).” (<i>See, e.g., Ex. 1008</i>, 4:5-19, 5:5-24, FIG. 1.)</p>
[9.] The method for managing subscriber profile data of claim 8, wherein, when a calling party calls the subscriber, the calling party is only successfully connected to the subscriber when either the calling party's telephone number is an authorized telephone number or when the calling party inputs one of the access codes.	<p><i>Buhrmann</i> discloses that “the subscriber requests selective call acceptance such that only calls from the telephone number (123) 555-6666 will be delivered.” (<i>See, e.g., id.</i>, 8:20-26, FIG. 5.)</p> <p><i>Boulware</i> discloses that “the subscriber may provide this [privileged caller] code to potential callers so that these callers may circumvent having their calls screened when calling the subscriber, as illustrated by the flow path from step 36 to step 28 [of FIG. 1].” (<i>See, e.g., Ex. 1008</i>, 4:5-19, 5:5-24, FIG. 1.)</p>
[10.] The method for managing subscriber profile data of claim 9, wherein a reporting system generates reports comprising calling parties attempting to connect to the subscriber, indicating each calling party successfully connected to the	<i>Bayless</i> discloses “log[ging] information about each call generated or received by a user. This information may be stored in a call log database using database client service provider 22 and/or database server service provider 40.” “The information stored in the call log database may include time stamps of when the call began, whether the call went to voicemail, also time

Claim Element	B(1), B(2), B(3), B(4)
subscriber and each calling party not successfully connected to the subscriber.	duration of the voicemail message, the parties to the call, etc.” (<i>See, e.g.</i> , Ex. 1009, 60:35-41, 52-55, 60-63, 61:4-15, FIG. 111.)
[12.] The method for managing subscriber profile data of claim 1, further comprising: receiving, from the client, a time specified by the subscriber as to when the requested update for the subscriber profile data should be forwarded to the communications network.	<i>Buhrmann</i> discloses that “the PIM 122 could be configured, through the subscriber profile update API 132, to automatically generate profile update data based on the schedule data 128 entered by the subscriber.” (<i>See, e.g.</i> , Ex. 1004, 8:54-9:13.)
[13a.] A method for managing subscriber profile data associated with a communications service subscribed to by a subscriber, the subscriber profile data being stored on a communications network which executes the communications service in accordance with the subscriber profile data, the method comprising:	<i>Buhrmann</i> discloses this element. <i>See</i> Table B, Element [1a], above.
[13b.] receiving, from a profile management system, a subscriber request to view the subscriber profile data, the subscriber request to view the subscriber profile data being received from the profile management system based upon the profile management system receiving the subscriber request to view the subscriber profile data from a client which hosts a user interface configured to allow the	<i>Buhrmann</i> discloses this element. <i>See</i> Table B, Element [1b], above.

Claim Element	B(1), B(2), B(3), B(4)
subscriber to view and update the subscriber profile data;	
[13c.] forwarding the subscriber profile data to the profile management system based upon receiving the subscriber request to view the subscriber profile data from the profile management system, the profile management system being configured to forward the subscriber profile data to the client when the profile management system receives the subscriber profile data;	<i>Buhrmann</i> discloses this element. <i>See</i> Table B, Elements [1c] and [1d], above.
[13d.] receiving an update for the subscriber profile data from the profile management system, the update for the subscriber profile data being received from the profile management system based upon the profile management system receiving a subscriber request to update the subscriber profile data from the client, wherein the communications network executes the communications service in accordance with the updated subscriber profile data.	<i>Buhrmann</i> discloses this element. <i>See</i> Table B, Elements [1e] and [1f], above.
[14.] The method for managing subscriber profile data of claim 13, wherein the subscriber profile data is forwarded to the profile management system via at least one intermediate system.	<p><i>Buhrmann</i> discloses that “modem 138 is used for sending information from the PIM 122 to the SCP 108 through the PSTN 114.” (<i>See</i> Ex. 1004, 7:13-22, 10:20-27, FIGS. 1, 7.; Ex. 1014, ¶ 81.)</p> <p>FIGS. 2 and 3 of <i>Beck</i> further disclose the “service management system 250”: “One of the SACs 210 processes the order and sends a</p>

Claim Element	B(1), B(2), B(3), B(4)
	provisioning message to an intermediate network 335 in system 310. The intermediate network 335 includes communications agent 220, queue 230, memory 280, and SPI 240 shown in FIG. 2". "SACs 210 receive [] message[s] from intermediate network 335..." (<i>See, e.g., Ex. 1010, 4:27-31, 47-48, FIGS 2-3.</i>)
[15.] The method for managing subscriber profile data of claim 13, wherein the update for the subscriber profile data is received from the profile management system via at least one intermediate system.	<p><i>Buhrmann</i> discloses this element. <i>See</i> Table B, Element [14], above.</p> <p><i>Beck</i> discloses this element. <i>See</i> Table B, Element [14], above.</p>
[16.] The method for managing subscriber profile data of claim 13, wherein the communications service comprises positive identification.	<i>Buhrmann</i> discloses "selective call acceptance." "Entry 506 is a call completion request indicating that ... the subscriber requests selective call acceptance such that only calls from the telephone number (123) 555-6666 will be delivered ... all other calls will be forwarded to subscriber's voice mail." (<i>See, e.g., id., 8:20-26, FIG. 5.</i>)
[17.] The method for managing subscriber profile data of claim 16, wherein the communications network comprises a telecommunications network.	<i>Buhrmann</i> discloses "PSTN 114." (<i>See Ex. 1004, 7:13-22; FIG. 1.</i>) Additionally, "[I]n an alternate embodiment, as shown in FIG. 9, the PIM 122 sends the profile update data to the wireless cellular communication network 102 via a wireless communication link instead of the PSTN 114." (<i>See, e.g., id., 12:14-29, FIG. 9.</i>)
[18.] The method for managing subscriber profile data of claim 17, wherein the subscriber profile data comprises access codes and authorized telephone numbers.	<p><i>Buhrmann</i> discloses that "the subscriber requests selective call acceptance such that only calls from the telephone number (123) 555-6666 will be delivered." (<i>See, e.g., id., 8:20-26, FIG. 5.</i>)</p> <p><i>Boulware</i> discloses that "the subscriber may provide this [privileged caller] code to potential callers so that these callers may circumvent having their calls screened when calling the subscriber, as illustrated by the flow path from step 36 to step 28 [of FIG. 1]." (<i>See, e.g., Ex.</i></p>

Claim Element	B(1), B(2), B(3), B(4)
	1008, 4:5-19, 5:5-24, FIG. 1.)
[19.] The method for managing subscriber profile data of claim 18, wherein, when a calling party calls the subscriber, the calling party is only successfully connected to the subscriber when either the calling party's telephone number is one of the authorized telephone numbers or the calling party inputs one of the access codes.	<i>Buhrmann</i> discloses that “the subscriber requests selective call acceptance such that only calls from the telephone number (123) 555-6666 will be delivered.” (<i>See, e.g., id.</i> , 8:20-26, FIG. 5.) <i>Boulware</i> discloses that “the subscriber may provide this [privileged caller] code to potential callers so that these callers may circumvent having their calls screened when calling the subscriber, as illustrated by the flow path from step 36 to step 28 [of FIG. 1].” (<i>See, e.g., Ex. 1008, 4:5-19, 5:5-24, FIG. 1.</i>)
[20.] The method for managing subscriber profile data of claim 14, wherein the intermediate system comprises a service management system (SMS) server.	<i>Buhrmann</i> discloses that “[m]essage center 150 will generate the SMS message and send it to MSC 104.” (<i>See, e.g., Ex. 1004, 11:56-59, FIG. 1.</i>)
[21.] The method for managing subscriber profile data of claim 14, wherein the intermediate system further comprises SPACE.	<i>Beck</i> discloses that “intermediate network 335 ... together with service management system/SPACE 250, generates or updates CPRs based on the provisioning message in the provisioning message.” (<i>See, e.g., Ex. 1010, 1:55-57, 4:16-18, 27-33, FIGS 2-3.</i>)
[22.] The method for managing subscriber profile data of claim 13, wherein the profile management system communicates with the client using TCP/IP.	<i>Beck</i> also discloses that “[c]ommunication between SAC 210 and communications agent 220 preferably uses a transmission control protocol/internet protocol (TCP/IP). TCP/IP is an internet standard for packet switching between computing systems.” (<i>See, e.g., Ex. 1010, 4:53-64.</i>)

C. Claims 1-7, 11, and 13-17 are Anticipated by *An*, claim 10 is rendered obvious by *An* in view of *Bayless*, and claims 14-15 and 21-22 are rendered obvious by *An* in view of *Beck*

An discloses each element of claims 1-7, 11, and 13-17. *An* in view of *Bayless* renders obvious claim 10. There is motivation to combine *An* and *Bayless*.

An discloses a “system and method for allowing telephone subscribers to update over the Internet the features which are active on the telephone.” (Ex. 1005, Abstract; Ex. 1014, ¶ 103.) In particular, *An* describes that a “subscriber can locate his personal ‘telephone feature profile’ on the telephone service provider's server on the Internet, access it via a password, such as his/her ‘calling card’ PIN, and see at a glance the features and options currently active on his line/number.” (Ex. 1005, 1:30-40; Ex. 1014, ¶ 103.) “Additionally, the subscriber may submit requests to add/change/delete features, on-line.” (Ex. 1005, 1:30-40.) According to *An*, “[e]xamples of some well known features typically available to subscribers include call forward, call waiting, ring again, speed call, message waiting, 3-way conferencing, softkey programming, and 800 services.” (*Id.*, 3:15-19.)

As described above, *Bayless* discloses a graphical user interface for updating telephone system features, including a “call logging feature.” (Ex. 1009, 60:35-65; Ex. 1014, ¶ 106.) Because *An* provides a system designed to create and modify a variety of telephone services, a skilled artisan would be readily motivated to incorporate the known telephone call logging feature of *Bayless* with the known system of *An* to yield a predictable improvement of available services. (See Ex. 1014, ¶ 106; MPEP §§ 2143, 2144.)

An in view of *Beck* renders obvious claims 14-15 and 21-22. There is also motivation to combine *An* and *Beck*. In the system disclosed by *An*, “[s]ome features may be implemented directly with switches forming part of the PSTN 12,

and other features may be implemented on peripheral processing platforms which may be, for example, AIN (advanced intelligent network) based, or IN (intelligent network) based.” (Ex. 1005, 3:11-15; Ex. 1014, ¶ 108.) *An*’s system architecture further includes "service manager programs (or simply ‘service managers’) running on service manager nodes 16 connected to or forming part of the PSTN 12,” which manage the provision of telephone features. (Ex. 1005, 3:20-23.)

As described above, *Beck* discloses a profile management system topology that operates “together with [a] service management system/SPACE 250.” (Ex. 1010, 4:25-34, FIGS. 2-3; Ex. 1014, ¶ 109.) Because *An* provides a similar system architecture as *Beck*, also designed to perform user service management, a skilled artisan would be readily motivated to incorporate the known intermediate SPACE service management system of *Beck* with the known system of *An* to yield a predictable improvement. (See Ex. 1014, ¶ 110; MPEP §§ 2143, 2144.)

Table C: Proposed Rejection C(1), USPN 6,031,904 to *An*; C(2), *An* in view of USPN 5,754,636 to *Bayless*; and C(3), *An* in view of USPN 5,883,946 to *Beck*

Claim Element	C(1), C(2), C(3)
[1a.] A method for managing, by a profile management system, subscriber profile data associated with a communications service subscribed to by a subscriber, the subscriber profile data being stored on a communications network which executes the communications service in	

Claim Element	C(1), C(2), C(3)
accordance with the subscriber profile data, the method comprising:	
[1b.] receiving a subscriber request to view the subscriber profile data from a client which hosts a user interface configured to allow the subscriber to view and update the subscriber profile data;	<p><i>An</i> discloses that “a subscriber can access and manipulate the feature profile for a given DN by connecting to the Web server 50 through the Internet 54. This is achieved by using a WWW browser such as Netscape Navigator running on the Internet access unit 58 to go to the unique URL associated with the relevant HTML pages on the Web server 50.” “The service order application first sends a query to the DMS switch for the feature profile for the DN entered (step 214). This could be done either directly by the SSPM as shown in FIG. 16 or through the service change agent on the SDM, and with DMS table control facilities.” (<i>See, e.g., Ex. 1005, 5:6-12, 9:6-8, FIGS. 2-12, 16; Ex. 1014, ¶ 99.</i>)</p> <p>The <i>An Provisional</i> also discloses “accessing... services... using a Web browser running on ... a workstation.” “The Subscriber Service Provisioning Manager (SSPM) is intended to allow an end-user (Service subscriber) to configure various services and features ... using an access method from their environment, such as their home computer.” (<i>See, e.g., Ex. 1006, pp. 16-25, 38, 49-51; Ex. 1014, ¶ 101.</i>)</p>
[1c.] retrieving the subscriber profile data from the communications network based upon receiving the subscriber request to view the subscriber profile data from the client;	<p><i>An</i> discloses that “[t]he DMS sends back the service profile for that DN, and also sends back a list of the available services (step 216). The SSPM server uses this information to build a customized page to be sent to the browser.” (<i>See, e.g., Ex. 1005, 5:17-21, 9:11-13, FIGS. 2-3, 16; Ex. 1014, ¶ 99.</i>)</p> <p>The <i>An Provisional</i> also discloses that the DMS sends back the “service profile ... and available services.” (<i>See, e.g., Ex. 1006, pp. 50-51; Ex.</i></p>

Claim Element	C(1), C(2), C(3)
<p>[1d.] forwarding the subscriber profile data to the client;</p>	<p>1014, ¶ 101.)</p> <p><i>An</i> discloses that “[t]his page is generated based upon HTML templates in the SSPM database. It may include various applets and HTML entities for user interaction. These are sent back to the browser for display on the browser and use by the user (step 218).” At the client, “... the Web server 50 provides access to a series of HTML pages containing information about this particular DN. Once the subscriber is given access, the subscriber can navigate through the HTML pages using well understood browsing techniques.” (<i>See, e.g.</i>, Ex. 1005, 5:17-21, 9:13-19, FIGS. 2-3, 16; Ex. 1014, ¶ 100.)</p> <p>The <i>An Provisional</i> also discloses: “an application will be fired up to build a customized Service Order page... Typically it includes the subscriber's current service profile, other available services, an Applet which will react to user selection and calculates monthly cost etc. An area on this page can be used for advertising new telephone services.” (<i>See, e.g.</i>, Ex. 1006, pp. 50-51; Ex. 1014, ¶ 101.)</p>
<p>[1e.] receiving a subscriber request to update the subscriber profile data from the client, and</p>	<p><i>An</i> discloses that “[v]ia a mechanism such as an HTML “form” or a Java “applet”, a subscriber can activate/deactivate features and change the parameters of those features, on-line.” “When a change is submitted, this is sent back to the SSPM server in response to which a "request processing" application will be started up (step 220).” (<i>See</i> Ex. 1005, 5:22-34, 9:22-24, FIGS. 2-3, 16; Ex. 1014, ¶ 100.)</p> <p>The <i>An Provisional</i> also discloses a “Service change request.” “When the subscriber submits his service order request ... an application [] translate[s] the request to a series of DMS table change requests.” (<i>See, e.g.</i>, Ex. 1006, pp. 50-51; Ex. 1014, ¶ 101.)</p>

Claim Element	C(1), C(2), C(3)
<p>[1f.] forwarding an update for the subscriber profile data to the communications network based upon receiving the subscriber request to update the subscriber profile data from the client.</p>	<p><i>An</i> discloses that “[t]he service order request is translated into a series of DMS table change requests. These are sent to the DMS over the telephone company intranet (step 222). The DMS sends table change confirmation message back to the SSPM server (step 224), and the SSPM server then sends a service change confirmation back to the browser (step 226).” (<i>See, e.g.</i>, Ex. 1005, 5:22-34, 9:24-30, FIGS. 2-3, 16; Ex. 1014, ¶ 100.)</p> <p>The <i>An Provisional</i> also discloses: “These requests will be sent to DMS for processing. When confirmations of table changes have been received, a confirmation will be sent to the subscriber's browser.” (<i>See, e.g.</i>, Ex. 1006, pp. 50-51; Ex. 1014, ¶ 101.)</p>
<p>[2.] The method for managing subscriber profile data of claim 1, wherein the subscriber profile data is retrieved from the communications network via at least one intermediate system.</p>	<p><i>An</i> discloses “[a]n SSPM (subscriber service provisioning manager) server is placed on a machine connected to/forming part of a public communications network.” (<i>See, e.g.</i>, Ex. 1005, 4:16-46, 8:31-36, FIGS. 2-3, 15-16; Ex. 1014, ¶ 99.)</p> <p><i>An</i> discloses “[t]ables stored on the DMS switch 160 contain tuples which indicate which features are active for a given DN. These tables assume the role of the profile repositories. The SDM can read, change, delete and add tuples to DMS tables, thus changing customer's service profiles.” (<i>See, e.g.</i>, Ex. 1005, 8:21-25.)</p> <p>The <i>An Provisional</i> also discloses the “SSPM (subscriber service provisioning manager) Server,” or “JavaTel Server.” (<i>See, e.g.</i>, Ex. 1006, pp. 25-31, 38, 49-51.; Ex. 1014, ¶ 101.)</p>
<p>[3.] The method for managing subscriber profile data of claim 1, wherein the update for the subscriber profile data is</p>	<p><i>An</i> discloses “[a]n SSPM (subscriber service provisioning manager) server is placed on a machine connected to/forming part of a public communications network.” (<i>See, e.g.</i>, Ex. 1005,</p>

Claim Element	C(1), C(2), C(3)
forwarded to the communications network via at least one intermediate system.	<p>4:16-46, 8:31-36, FIGS. 2-3, 15-16; Ex. 1014, ¶ 99.)</p> <p><i>An</i> discloses “[t]ables stored on the DMS switch 160 contain tuples which indicate which features are active for a given DN. These tables assume the role of the profile repositories. The SDM can read, change, delete and add tuples to DMS tables, thus changing customer's service profiles.” (<i>See, e.g.</i>, Ex. 1005, 8:21-25.)</p> <p>The <i>An Provisional</i> also discloses this element. (<i>See, e.g.</i>, Ex. 1006, pp. 25-31, 38, 49-51; Ex. 1014, ¶ 101.)</p>
[4.] The method for managing subscriber profile data of claim 1, wherein the profile management system comprises a server.	<p><i>An</i> discloses “[a]n SSPM (subscriber service provisioning manager) server is placed on a machine connected to/forming part of a public communications network.” <i>See, e.g.</i>, Ex. 1005, 4:16-46, 8:31-33, FIGS. 2-3, 15-16.)</p> <p><i>An</i> discloses “[a]n SSPM server is shown connected to the Internet also, and this provides the interface through which the user can access and modify his/her feature profile. Changes requested are communicated through the telephone company intranet to the SDM 162 to the DMS where they are implemented. The SDM 162 performs validation along the way.” (<i>See, e.g., id.</i>, 8:31-37; Ex. 1014, ¶ 101.)</p> <p>The <i>An Provisional</i> also discloses this element. (<i>See, e.g.</i>, Ex. 1006, pp. 25-31, 38, 49-51.)</p>
[5.] The method for managing subscriber profile data of claim 1, wherein the user interface is a graphical user interface.	<p><i>An</i> discloses a “service change agent 104 ... an application providing a graphical user interface which presents the user's service profile, allows the user 100 to modify it, and sends appropriate transactions to the requisite service managers 102 for update.” (<i>See, e.g.</i>, Ex. 1005, 5:35-36, 6:55-59, FIGS. 5-12.)</p>

Claim Element	C(1), C(2), C(3)
	The <i>An Provisional</i> also discloses this element. (See, e.g., Ex. 1006, pp. 16-24, 49-51.)
[6.] The method for managing subscriber profile data of claim 1, wherein the communications service comprises positive identification.	<p><i>An</i> discloses that “[t]he user completes the Login HTML page by typing in a phone number, PIN etc, and submits this as a further HTTP request (step 208). The SSPM server sends this information to an authentication server (step 210) which, after successfully authenticating the user information returns an "identity authenticated" message back to the SSPM server (step 212). If access is denied, then the user is given another opportunity to enter identification information (step 213).” (See, e.g., Ex. 1005.)</p> <p>The <i>An Provisional</i> also discloses that the system “first presents the ‘Login HTML Page’. This page asks the subscriber to provide his phone number and a PIN number. When ITSOS receives the phone number and PIN, it performs authentication procedure.” (See, e.g., Ex. 1006, pp. 3, 16, 49-51.)</p>
[7.] The method for managing subscriber profile data of claim 6, wherein the communications network comprises a telecommunications network.	<p><i>An</i> discloses “[t]he subscriber has (or has access to) an Internet access unit 58 connectable to the Internet 54 or similar communications network through the PSTN 12 and an Internet service provider 60.” (See, e.g., Ex. 1005, 1:66-2:4, 4:48-51, FIGS. 2-3.)</p> <p>The <i>An Provisional</i> also discloses this element. (See, e.g., Ex. 1006, pp. 1-2, 15, 27, 38.)</p>
[10.] The method for managing subscriber profile data of claim 9, wherein a reporting system generates reports comprising calling parties attempting to connect to the subscriber, indicating each calling party successfully connected to the subscriber and each calling party not successfully	<i>Bayless</i> discloses “log[ging] information about each call generated or received by a user. This information may be stored in a call log database using database client service provider 22 and/or database server service provider 40.” “The information stored in the call log database may include time stamps of when the call began, whether the call went to voicemail, also time duration of the voicemail message, the parties to the call, etc.” (See, e.g., Ex. 1009, 60:35-41, 52-

Claim Element	C(1), C(2), C(3)
connected to the subscriber.	55, 60-63, 61:4-15, FIG. 111.)
<p>[11.] The method for managing subscriber profile data of claim 1, further comprising: controlling access to the subscriber profile data, using an access control system, to only allow authorized subscribers to view and request updates to the subscriber profile data.</p>	<p><i>An</i> discloses “a Personal Identity Number (PIN), which acts as a “password” to authenticate the customer.” <i>An</i> “...performs subscriber authentication by requesting ... the PIN (see FIG. 4 for example) through the browser.” FIG. 16 illustrates “a Login HTML page for display by the browser (step 206). The user completes the Login HTML page by typing in a phone number, PIN etc, and submits this as a further HTTP request (step 208). The SSPM server sends this information to an authentication server (step 210) which, after successfully authenticating the user information returns an "identity authenticated" message back to the SSPM server (step 212).” (<i>See, e.g., Ex. 1005, 1:34-38, 5:11-21, 6:7-9, 8:64-9:2, FIGS. 4, 16.</i>)</p> <p>The <i>An Provisional</i> also discloses that the system “first presents the "Login HTML Page". This page asks the subscriber to provide his phone number and a PIN number. When ITSOS receives the phone number and PIN, it performs authentication procedure.” (<i>See, e.g., Ex. 1006, pp. 3, 16, 49-51.</i>)</p>
<p>[13a.] A method for managing subscriber profile data associated with a communications service subscribed to by a subscriber, the subscriber profile data being stored on a communications network which executes the communications service in accordance with the subscriber profile data, the method comprising:</p>	<p><i>An</i> discloses this element. <i>See</i> Table C, Element [1a], above.</p>
<p>[13b.] receiving, from a profile management system, a</p>	<p><i>An</i> discloses this element. <i>See</i> Table C, Element [1b], above.</p>

Claim Element	C(1), C(2), C(3)
<p>subscriber request to view the subscriber profile data, the subscriber request to view the subscriber profile data being received from the profile management system based upon the profile management system receiving the subscriber request to view the subscriber profile data from a client which hosts a user interface configured to allow the subscriber to view and update the subscriber profile data;</p>	
<p>[13c.] forwarding the subscriber profile data to the profile management system based upon receiving the subscriber request to view the subscriber profile data from the profile management system, the profile management system being configured to forward the subscriber profile data to the client when the profile management system receives the subscriber profile data;</p>	<p><i>An</i> discloses this element. <i>See</i> Table C, Elements [1c] and [1d], above.</p>
<p>[13d.] receiving an update for the subscriber profile data from the profile management system, the update for the subscriber profile data being received from the profile management system based upon the profile management system receiving a subscriber request to update the subscriber profile data from the client, wherein the communications network executes the</p>	<p><i>An</i> discloses this element. <i>See</i> Table C, Elements [1e] and [1f], above.</p>

Claim Element	C(1), C(2), C(3)
communications service in accordance with the updated subscriber profile data.	
[14.] The method for managing subscriber profile data of claim 13, wherein the subscriber profile data is forwarded to the profile management system via at least one intermediate system.	<p><i>An</i> discloses “[a]n SSPM (subscriber service provisioning manager) server is placed on a machine connected to/forming part of a public communications network.” (<i>See, e.g.</i>, Ex. 1005, 4:16-46, 8:31-36, FIGS. 2-3, 15-16; Ex. 1014, ¶ 99.)</p> <p><i>An</i> discloses “[t]ables stored on the DMS switch 160 contain tuples which indicate which features are active for a given DN. These tables assume the role of the profile repositories. The SDM can read, change, delete and add tuples to DMS tables, thus changing customer's service profiles.” (<i>See, e.g.</i>, Ex. 1005, 8:21-25.)</p> <p>The <i>An Provisional</i> also discloses the “SSPM (subscriber service provisioning manager) Server,” or “JavaTel Server.” (<i>See, e.g.</i>, Ex. 1006, pp. 25-31, 38, 49-51.; Ex. 1014, ¶ 101.)</p> <p>FIGS. 2 and 3 of <i>Beck</i> further disclose the “service management system 250”: “One of the SACs 210 processes the order and sends a provisioning message to an intermediate network 335 in system 310. The intermediate network 335 includes communications agent 220, queue 230, memory 280, and SPI 240 shown in FIG. 2”. “SACs 210 receive [] message[s] from intermediate network 335...” (<i>See, e.g.</i>, Ex. 1010, 4:27-31, 47-48, FIGS 2-3.)</p>
[15.] The method for managing subscriber profile data of claim 13, wherein the update for the subscriber profile data is received from the profile management system via at least one intermediate system.	<p><i>An</i> and the <i>An Provisional</i> disclose this element. <i>See</i> Table C, Elements [14], above.</p> <p><i>Beck</i> discloses this element. <i>See</i> Table C, Elements [14], above.</p>

Claim Element	C(1), C(2), C(3)
<p>[16.] The method for managing subscriber profile data of claim 13, wherein the communications service comprises positive identification.</p>	<p><i>An</i> discloses that “[t]he user completes the Login HTML page by typing in a phone number, PIN etc, and submits this as a further HTTP request (step 208). The SSPM server sends this information to an authentication server (step 210) which, after successfully authenticating the user information returns an "identity authenticated" message back to the SSPM server (step 212). If access is denied, then the user is given another opportunity to enter identification information (step 213).” (<i>See, e.g., Ex. 1005, 8:63-9:4.</i>)</p> <p>The <i>An Provisional</i> also discloses that the system “first presents the "Login HTML Page". This page asks the subscriber to provide his phone number and a PIN number. When ITSOS receives the phone number and PIN, it performs authentication procedure.” (<i>See, e.g., Ex. 1006, pp. 3, 16, 49-51.</i>)</p>
<p>[17.] The method for managing subscriber profile data of claim 16, wherein the communications network comprises a telecommunications network.</p>	<p><i>An</i> discloses “[t]he subscriber has (or has access to) an Internet access unit 58 connectable to the Internet 54 or similar communications network through the PSTN 12 and an Internet service provider 60.” (<i>See, e.g., Ex. 1005, 1:66-2:4, 4:48-51, FIGS. 2-3.</i>)</p> <p>The <i>An Provisional</i> also discloses this element. (<i>See, e.g., Ex. 1006, pp. 1-2, 15, 27, 38.</i>)</p>
<p>[21.] The method for managing subscriber profile data of claim 14, wherein the intermediate system further comprises SPACE.</p>	<p><i>Beck</i> discloses that “intermediate network 335 ... together with service management system/SPACE 250, generates or updates CPRs based on the provisioning message in the provisioning message.” (<i>See, e.g., Ex. 1010, 1:55-57, 4:16-18, 27-33, FIGS 2-3.</i>)</p>
<p>[22.] The method for managing subscriber profile data of claim 13, wherein the profile management system communicates with the client</p>	<p><i>Beck</i> also discloses that “[c]ommunication between SAC 210 and communications agent 220 preferably uses a transmission control protocol/internet protocol (TCP/IP). TCP/IP is an internet standard for packet switching between</p>

Claim Element	C(1), C(2), C(3)
using TCP/IP.	computing systems.” (See, e.g., Ex. 1010, 4:53-64.)

D. Claims 1-7, 13-17, and 22 are Anticipated by *Elliott*, claim 10 is rendered obvious by *Elliott* in view of *Bayless*, and claims 14-15 and 21-22 are rendered obvious by *Elliott* in view of *Beck*

Elliott discloses each element of claims 1-7, 13-17, and 22. *Elliott* in view of *Bayless* renders obvious claim 10. There is motivation to combine *Elliott* and *Bayless*. *Elliott* discloses a system for handling “telephone calls, data, and other multimedia information [in] a hybrid network which includes transfer of information across the internet.” (Ex. 1007, Abstract; Ex. 1014, ¶ 116.) In particular, *Elliott* discloses utilizing “user profile information” throughout the system to specify, enable, and control numerous system functions. (Ex. 1007, Abstract.) For example, *Elliott* describes an Intelligent Network “call processing architecture for processing voice, fax and related services.” (*Id.*, 13:5-18.) Some services include “number translation services, automatic or manual operator services, validation services and database services.” (*Id.*, 13:5-18.) *Elliott* confirms that “[t]he addition of new value added services is very simple and new features can be added by additional software and configuration[.]” (*Id.*, 16:7-10.)

As described above, *Bayless* discloses a graphical user interface for updating telephone system features, including a “call logging feature.” (Ex. 1009, 60:35-65; Ex. 1014, ¶ 117.) Because *Elliott* provides a system designed to easily integrate new telecommunications system services, a skilled artisan would be readily

motivated to incorporate the telephone call logging feature of *Bayless* with the system of *Elliott* to yield a predictable improvement. (See Ex. 1014, ¶ 118; MPEP §§ 2143, 2144.)

Elliott in view of *Beck* renders obvious claims 14-15 and 21-22. There is also motivation to combine *Elliott* and *Beck*. *Elliott* describes an Intelligent Network “call processing architecture for processing voice, fax and related services.” (Ex. 1007, 13:5-18; Ex. 1014, ¶ 121.) It includes “a hybrid (internet-telephony) switch 221 [that] switches circuits on a public switched telephone network (PSTN) 256 with TCP/IP or UDP/IP ports on an internet network 295,” and is “composed of PSTN network interfaces (247, 260), high-speed Internet network interfaces (271, 272, 274), a set of Digital Signal Processor (DSP)s (259, 263), a time-division multiplexed bus 262, and a high-speed data bus 275.” (Ex. 1007, 85:58-67.) “The switch 221 may also query an external Service Control Point (SCP) 276 on the internet to request routing instructions.” (*Id.*, 86:12-14.)

As described above, *Beck* discloses a profile management system topology including an intermediate network for generating and updating call processing records, which operates “together with [a] service management system/SPACE 250.” (Ex. 1010, 4:25-34, FIGS. 2-3; Ex. 1014, ¶ 122.) One of ordinary skill in the art would understand that the SCP system used in *Elliot* is the same as the one disclosed in *Beck*, as *Elliot* classifies the switching points (SPs) into SSP, STP, and SCP. (Ex. 1007, 105:67-106:3; Ex. 1014, ¶ 122.) Because *Elliott* provides a

similar system architecture as *Beck*, also designed to perform user service management (see above), a skilled artisan would be readily motivated to incorporate the known intermediate SPACE service management system of *Beck* with the known system of *Elliott* to yield a predictable improvement of the service management system. (See Ex. 1014, ¶ 122, MPEP §§ 2143, 2144.)

Table D: Proposed Rejection D(1), USPN 6,335,927 to *Elliott*; D(2), *Elliott* in view of USPN 5,754,636 to *Bayless*; and D(3), *Elliott* in view of USPN 5,883,946 to *Beck*

Claim Element	D(1), D(2), D(3)
[1a.] A method for managing, by a profile management system, subscriber profile data associated with a communications service subscribed to by a subscriber, the subscriber profile data being stored on a communications network which executes the communications service in accordance with the subscriber profile data, the method comprising:	
[1b.] receiving a subscriber request to view the subscriber profile data from a client which hosts a user interface configured to allow the subscriber to view and update the subscriber profile data;	<i>Elliott</i> discloses an “interface ... accessible through PC software (i.e., PC Client messaging interface), an ARU or a VRU, and a World Wide Web (WWW) Browser. The interface supports the customization of applications and the management of messages.” “The application profile provides an intelligent interface between the user and his account information, which resides in the user account directory. The User Account Directory accesses the individual account information of users. Users are able to read and write to the directory, making updates

Claim Element	D(1), D(2), D(3)
	to their accounts.” (<i>See, e.g.</i> , Ex. 1007, 61:28-62:67, FIGS. 40, 42, 57-61; Ex. 1014, ¶¶ 113, 114.)
[1c.] retrieving the subscriber profile data from the communications network based upon receiving the subscriber request to view the subscriber profile data from the client;	<i>Elliott</i> discloses that the “The User Account Directory accesses the individual account information of users.” (<i>See, e.g.</i> , Ex. 1007, 61:28-62:67, FIGS. 40, 42, 57-61; Ex. 1014, ¶¶ 113, 114.)
[1d.] forwarding the subscriber profile data to the client;	<i>Elliott</i> discloses that the “user is able to access account information through the application profile... [which] provides an intelligent interface between the user and his account information.” (<i>See, e.g.</i> , Ex. 1007, 61:28-62:67, FIGS. 40, 42, 57-61.)
[1e.] receiving a subscriber request to update the subscriber profile data from the client, and	<i>Elliott</i> discloses that users “are able to read and write to the directory, making updates to their accounts.” Further, “the user interface is used to update [the user’s] profile and to access his messages.” (<i>See, e.g., id.</i> , 61:28-62:67, FIGS. 40, 42, 57-61; Ex. 1014, ¶¶ 113, 114.)
[1f.] forwarding an update for the subscriber profile data to the communications network based upon receiving the subscriber request to update the subscriber profile data from the client.	<i>Elliott</i> discloses that “the user is able to modify his account, customizing his application by making feature/functionality updates.” “The User Account Directory accesses the individual account information of users. Users are able to read and write to the directory, making updates to their accounts.” (<i>See, e.g.</i> , Ex. 1007, 61:28-62:67, FIGS. 40, 42, 57-61; Ex. 1014, ¶¶ 113, 114.)
[2.] The method for managing subscriber profile data of claim 1, wherein the subscriber profile data is retrieved from the communications network via at least one intermediate system.	<i>Elliott</i> discloses “Web Server 450.” (<i>See, e.g.</i> , Ex. 1007, FIG. 40.)
[3.] The method for managing subscriber profile data of claim 1, wherein the update for the	<i>Elliott</i> discloses “Web Server 450.” (<i>See, e.g.</i> , Ex. 1007, FIG. 40.)

Claim Element	D(1), D(2), D(3)
subscriber profile data is forwarded to the communications network via at least one intermediate system.	
[4.] The method for managing subscriber profile data of claim 1, wherein the profile management system comprises a server.	<i>Elliott</i> discloses “Web Server 450.” (<i>See, e.g.,</i> Ex. 1007, FIG. 40.)
[5.] The method for managing subscriber profile data of claim 1, wherein the user interface is a graphical user interface.	“By providing a graphical user interface,” <i>Elliott</i> “customers [have] additional control over their profile” as further illustrated in FIGS. 57-67. (<i>See, e.g., id.,</i> 61:28-30, FIGS. 57-67.)
[6.] The method for managing subscriber profile data of claim 1, wherein the communications service comprises positive identification.	<i>Elliott</i> discloses that “[a]ccess to the Message Center or Profile Management is limited to authorized users. Users are prompted to enter their User ID and Password before accessing the Message Center or Profile Management.” (<i>See, e.g., id.,</i> 171:39-61, FIG. 65.)
[7.] The method for managing subscriber profile data of claim 6, wherein the communications network comprises a telecommunications network.	<i>Elliott</i> discloses that “Internet 1910 is tied to the Public Switched Network (PSTN) 1960 via a gateway 1950. The gateway 1950 in a preferred embodiment provides a virtual connection from a circuit switched call in the PSTN 1960 and some entity in the Internet 1910.” (<i>See, e.g., id.,</i> 18:19-23.)
[10.] The method for managing subscriber profile data of claim 9, wherein a reporting system generates reports comprising calling parties attempting to connect to the subscriber, indicating each calling party successfully connected to the subscriber and each calling party not successfully connected to the subscriber.	<i>Bayless</i> discloses “log[ging] information about each call generated or received by a user. This information may be stored in a call log database using database client service provider 22 and/or database server service provider 40.” “The information stored in the call log database may include time stamps of when the call began, whether the call went to voicemail, also time duration of the voicemail message, the parties to the call, etc.” (<i>See, e.g.,</i> Ex. 1009, 60:35-41, 52-55, 60-63, 61:4-15, FIG. 111.)
[13a.] A method for managing subscriber profile data associated with a	<i>Elliott</i> discloses this element. <i>See</i> Table D, Element [1a], above.

Claim Element	D(1), D(2), D(3)
communications service subscribed to by a subscriber, the subscriber profile data being stored on a communications network which executes the communications service in accordance with the subscriber profile data, the method comprising:	
[13b.] receiving, from a profile management system, a subscriber request to view the subscriber profile data, the subscriber request to view the subscriber profile data being received from the profile management system based upon the profile management system receiving the subscriber request to view the subscriber profile data from a client which hosts a user interface configured to allow the subscriber to view and update the subscriber profile data;	<i>Elliott</i> discloses this element. <i>See</i> Table D, Element [1b], above.
[13c.] forwarding the subscriber profile data to the profile management system based upon receiving the subscriber request to view the subscriber profile data from the profile management system, the profile management system being configured to forward the subscriber profile data to the client when the profile management system receives the subscriber profile data;	<i>Elliott</i> discloses this element. <i>See</i> Table D, Elements [1c] and [1d], above.
[13d.] receiving an update for	<i>Elliott</i> discloses this element. <i>See</i> Table D,

Claim Element	D(1), D(2), D(3)
the subscriber profile data from the profile management system, the update for the subscriber profile data being received from the profile management system based upon the profile management system receiving a subscriber request to update the subscriber profile data from the client, wherein the communications network executes the communications service in accordance with the updated subscriber profile data.	Elements [1e] and [1f], above.
[14.] The method for managing subscriber profile data of claim 13, wherein the subscriber profile data is forwarded to the profile management system via at least one intermediate system.	<p><i>Elliott</i> discloses “Web Server 450.” (<i>See, e.g.</i>, Ex. 1007, FIG. 40.)</p> <p>FIGS. 2 and 3 of <i>Beck</i> further disclose the “service management system 250”: “One of the SACs 210 processes the order and sends a provisioning message to an intermediate network 335 in system 310. The intermediate network 335 includes communications agent 220, queue 230, memory 280, and SPI 240 shown in FIG. 2”. “SACs 210 receive [] message[s] from intermediate network 335...” (<i>See, e.g.</i>, Ex. 1010, 4:27-31, 47-48, FIGS 2-3.)</p>
[15.] The method for managing subscriber profile data of claim 13, wherein the update for the subscriber profile data is received from the profile management system via at least one intermediate system.	<p><i>Elliott</i> discloses this element. <i>See</i> Table D, Elements [14], above.</p> <p><i>Beck</i> discloses this element. <i>See</i> Table D, Elements [14], above.</p>
[16.] The method for managing subscriber profile data of claim 13, wherein the communications service comprises positive	<i>Elliott</i> discloses that “[a]ccess to the Message Center or Profile Management is limited to authorized users. Users are prompted to enter their User ID and Password before accessing the Message Center or Profile Management.” (<i>See,</i>

Claim Element	D(1), D(2), D(3)
identification.	<i>e.g., id.</i> , 171:39-61, FIG. 65.)
[17.] The method for managing subscriber profile data of claim 16, wherein the communications network comprises a telecommunications network.	<i>Elliott</i> discloses that “Internet 1910 is tied to the Public Switched Network (PSTN) 1960 via a gateway 1950. The gateway 1950 in a preferred embodiment provides a virtual connection from a circuit switched call in the PSTN 1960 and some entity in the Internet 1910.” (<i>See, e.g., id.</i> , 18:19-23.)
[21.] The method for managing subscriber profile data of claim 14, wherein the intermediate system further comprises SPACE.	<i>Beck</i> discloses that “intermediate network 335 ... together with service management system/SPACE 250, generates or updates CPRs based on the provisioning message in the provisioning message.” (<i>See, e.g., Ex. 1010</i> , 1:55-57, 4:16-18, 27-33, FIGS 2-3.)
[22.] The method for managing subscriber profile data of claim 13, wherein the profile management system communicates with the client using TCP/IP.	<p><i>Elliott</i> discloses that “[t]he application profile provides an intelligent interface between the user and his account information, which resides in the user account directory. The User Account Directory accesses the individual account information of users. Users are able to read and write to the directory, making updates to their accounts.” “The interface is accessible through PC software (i.e., PC Client messaging interface) ... and a World Wide Web (WWW) Browser.” (<i>See, e.g., Ex. 1007</i>, 61:28-62:67, FIGS. 40, 57-61; <i>Ex. 1014</i>, ¶ 113.)</p> <p><i>Beck</i> also discloses that “[c]ommunication between SAC 210 and communications agent 220 preferably uses a transmission control protocol/internet protocol (TCP/IP). TCP/IP is an internet standard for packet switching between computing systems.” (<i>See, e.g., Ex. 1010</i>, 4:53-64.)</p>

VII. CONCLUSION

For the foregoing reasons, Petitioner respectfully requests institution of IPR for Claims 1-22 of the '714 patent because there is a reasonable likelihood that Petitioner will prevail with respect to at least one of these claims challenged in this Petition. Petitioner respectfully requests that these claims be declared unpatentable and canceled.

Dated: June 22, 2015

Respectfully submitted,

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inter partes Review Case No. IPR2015-01227

Inter partes Review of: U.S. Patent No. 7,907,714

Issued: March 15, 2011

To: Paul G. Baniak et al.

For: Profile Management System Including User Interface for Accessing and Maintaining Profile Data of User Subscribed Telephony Services

CERTIFICATE OF SERVICE UNDER 37 C.F.R. § 42.6(e) AND 42.105(a)

Dear Sir:

Pursuant to 37 C.F.R. § 42.6(e) and 42.105(a), I hereby certify that on June 22, 2015, I caused a complete copy of the Revised Amended Petition for *Inter Partes* Review of U.S. Patent No. 7,907,714 to be served on the Patent Owner of the subject patent at the correspondence address of record as follows:

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