## UNITED STATES PATENT AND TRADEMARK OFFICE

### **BEFORE THE PATENT TRIAL AND APPEAL BOARD**

EXPEDIA, INC., FANDANGO, LLC, HOTELS.COM, L.P., HOTEL TONIGHT, INC., HOTWIRE, INC., KAYAK SOFTWARE CORP., OPENTABLE, INC., ORBITZ, LLC, PAPA JOHN'S USA, INC., STUBHUB, INC., TICKETMASTER, LLC, LIVE NATION ENTERTAINMENT, INC., TRAVELOCITY.COM LP, WANDERSPOT LLC, AGILYSYS, INC., DOMINO'S PIZZA, INC., DOMINO'S PIZZA, LLC, HILTON RESORTS CORPORATION, HILTON WORLDWIDE, INC., HILTON INTERNATIONAL CO., MOBO SYSTEMS, INC., PIZZA HUT OF AMERICA, INC., PIZZA HUT, INC., and USABLENET, INC.,

Petitioner

v.

AMERANTH, INC.,

Patent Owner

## Patent No. 8,146,077

Issue Date: March 27, 2012 Title: Information Management and Synchronous Communications System with Menu Generation, and Handwriting and Voice Modification of Orders

Case No.: Unassigned

PETITION FOR COVERED BUSINESS METHOD REVIEW OF U.S. PATENT NO. 8,146,077 UNDER 35 U.S.C. § 321 AND § 18 OF THE LEAHY-SMITH AMERICA INVENTS ACT

## TABLE OF CONTENTS

Page

-		0. D. I. I.		
I.	INTRODUCTION1			
II.	COM	PLIA	NCE WITH FORMAL REQUIREMENTS	2
	A.	Mand	latory Notices Under 37 C.F.R. §§ 42.8(b)(1)-(4)	2
		1.	Real Parties-In-Interest	2
		2.	Related Matters	2
		3.	Lead and Back-up Counsel and Service Information	4
		4.	Power of Attorney	4
	B.	Proof	of Service on the PO	4
	C.	Fee		4
III.	GRO	UNDS	FOR STANDING	5
	A.	The '	077 Patent Is a Covered Business Method Patent	5
IV.	STAT	[EME]	NT OF PRECISE RELIEF REQUESTED	8
V.	IDENTIFICATION OF PATENTABILITY CHALLENGES			
VI.	LEVEL OF ORDINARY SKILL IN THE ART			8
VII.	SUM	MARY	Y OF THE '077 PATENT	9
	A.	Paten	t Specification and Claims	9
	B.	Over	view of the Prosecution History	11
VIII.	CLA	IM CO	INSTRUCTION	14
	A.	Legal	Standard	14
	B.	Const	truction of the Terms Used in the Challenged Claims	14
		1.	"hospitality application information" (claim 13)	15
		2.	"synchronized" (claims 1, 9 and 13)	15
		3.	"cascaded sets"	15
		4.	"graphical user interface screens" (Claims 1, 9, and 13)	15
		5.	"unique to the wireless handheld computing device" (Claims 1, 9, and 13)	16
		6.	"web page" (Claim 13)	16
		7.	"database" (claims 2, 3, 10, 12-15)	16

		8.	"real	time" (claims 1, 9 and 13)	16
		9.	The P	Preambles Are Not Limiting	17
IX.	STA	TE OF	THE A	ART PRIOR TO THE '077 PATENT	17
X.	THE WILI PATI	THERE IS A REASONABLE LIKELIHOOD THAT PETITIONER WILL PREVAIL ON AT LEAST ONE CLAIM OF THE '077 PATENT20			20
XI.	DET	AILED	EXPI	ANATION OF THE CHALLENGES	20
	А.	Challe Antec	enge to edent	Claims 1-18 As Indefinite Due to Lack of Basis For "the same connected system" Limitations	20
	B.	Challe Diges	enge to tor	All Claims Based on the Micros 8700 Pub and	21
		1.	Sumn	nary of Micros 8700 Pub	21
		2.	Sumn	nary of Digestor	23
		3.	Chall	enge Based on the Micros 8700 Pub and Digestor	24
	C.	Chall	enge to	Claims 13-18 Based on Blinn and Digestor	57
		1.	PO's	Declarations Do Not Antedate Blinn	58
			a.	Statement of the Relevant Law	58
			b.	PO's Declarations Do Not Establish Conception	59
			c.	PO's Declarations Do Not Establish Actual Reduction to Practice	60
			d.	PO's Declarations Do Not Establish Diligence	61
		2.	Sumn	nary of Blinn	62
		3.	Paten	tability Challenge Based on Blinn and Digestor	63
XII.	THE	CHAL	LENG	ES ARE NOT REDUNDANT	80
XIII.	CON	CLUS	ION		80

## TABLE OF EXHIBITS

EXHIBIT	DESCRIPTION
1001	U.S. Patent No. 6,384,850 to McNally, et al.
1002	Turnbull Expert Declaration
1003	U.S. Patent No. 6,871,325 to McNally, et al.
1004	U.S. Patent No. 8,146,077 to McNally, et al.
1005	U.S. Patent No. 6,982,733 to McNally, et al.
1006	U.S. Patent Application Number 09/400,413 (the "413
	application") (850 app)
1007	U.S. Patent Application Number 10/015,729 (the "729
	application") (325 app)
1008	U.S. Patent Application Number 11/112,990 (the "'990
	application") (077 Application)
1009	U.S. Patent Application Number 10/016,517 (the "517
	application") (733 application)
1010	U.S. Patent No. 6,384,850 to McNally, et al. File History
1011	U.S. Patent No. 6,871,325 to McNally, et al. File History
1012	U.S. Patent No. 8,146,077 to McNally, et al. File History Excerpts
1013	CBM2014-00015 – CBM petition for U.S. Patent No. 6,384,850

1014	CBM2014-00016 – CBM petition for U.S. Patent No. 6,871,325
1015	CBM2014-00014 – CBM petition for U.S. Patent No. 8,146,077
1016	CBM2014-00013 – CBM petition for U.S. Patent No. 6,982,733
1017	CBM2014-00015 – Paper 20 – '850 Institution Grant
1018	CBM2014-00016 – Paper 19 – '325 Institution Grant
1019	CBM2014-00014 – Paper 19 – '077 Institution Denial
1020	CBM2014-00013 – Paper 23 – '733 Institution Grant
1021	Inkpen, Gary, Information Technology for Travel and Tourism
	(2d ed. 1998)
1022	Timothy Bickmore, Digestor: Device Independent Access to the
	World Wide Web, Computer Networks and ISDN Systems 29,
	1075-1082 (1997)
1023	Nokia 9000i Communicator Owner's Manual (1997)
1024	U.S. Pat. No. 5,948,040 to DeLorme et al.
1025	U.S. Pat. No. 6,058,373 to Blinn et al.
1026	McFadden et al., MODERN DATABASE MANAGEMENT (5th ed.
	May, 1999), Chapter 11
1027	Micros 8700 HMS Version 2.10 User's Manual
1028	Aronson, Larry, HTML Manual of Style (1994)

1029	Jesitus, "Wireless Technology Keeps Customers In Order,"
	Hospitality Technology (January 1977)
1030	PO's complaints against: (A) Expedia, Inc., (B) Fandango, LLC,
	(C) Hotels.com, L.P., (D) Hotel Tonight, Inc., (E) Hotwire, Inc.,
	(F) Kayak Software Corp., (G) OpenTable, Inc., (H) Orbitz, LLC,
	(I) Papa John's USA, Inc., (J) StubHub, Inc., (K) Ticketmaster,
	LLC and Live Nation Entertainment, Inc., (L) Travelocity.com
	LP, and (M) Wanderspot LLC
1031	PO's complaints against: (A) Agilysys, Inc., (B) Domino's Pizza,
	Inc. and Domino's Pizza, LLC, (C) Hilton Resorts Corporation,
	Hilton Worldwide, Inc., and Hilton International Co., (D) Mobo
	Systems, Inc., (E) Pizza Hut of America, Inc. and Pizza Hut, Inc.,
	and (F) Usablenet, Inc.
1032	Ameranth, Inc. v. Menusoft Sys. Corp., et al., No. 2:07-
	CV-271, 2010 WL 4952758, at 1-2 (E.D. Tex. Sept. 20,
	2010)
1033	2:10-CV-294-JRG-RSP (E.D. Tex.) Claim Construction
1034	Definitions from <i>Microsoft Computer Dictionary</i> (4th ed. 1999)
1035	Transcript of Oral Arguments in CBM2014-00013 (Paper No. 34)

1036	American Heritage Dictionary (3d ed. 1992) (for the definition of
	"other" and "cascade")
1037	http://catalogue.pearsoned.co.uk/educator/product/Information-
	Technology-for-Travel-and-Tourism/9780582310025.page
1038	U.S. Patent No. 5,897,622 to Blinn et al.
1039	U.S. Patent No. 5,991,739 to Cupps et al.
1040	U.S. Patent No. 6,107,944 to Behr
1041	U.S. Patent No. 5,912,743 to Kinebuchi et al.
1042	U.S. Patent No. 5,724,069 to Chen et al.
1043	U.S. Patent No. 6,920,431 to Showghi et al.
1044	U.S. Patent No. 6,301,564 to Halverson et al.
1045	Complaint for priority in the IPDEV suit – 14-cv-1303
1046	U.S. Patent No. 5,937, 041 to Cardillo
1047	Micros Systems Inc. "POS Configuration User's Guide: 3700
	POS"
1048	U.S. PG Pub 2002/0059405 to Angwin
1049	WIPO Patent Publication No. WO 97/27556 to Flake et al.
1050	U.S. Patent No. 5,023,438 to Wakatsuki et al.
1051	U.S. Patent No. 6,300,947 to Kanevsky et al.

1052	Ameranth, Inc. v. Menusoft Systems Corp., Ameranth Opp. to
	non-party Seamless North America, LLC's motion for leave to
	file amicus curiae brief, E.D. Tex. Dkt. No. 2:07-cv-00271 at
	ECF No. 336.
1053	Micros Hand-Held Touchscreen Pre-Release Information (Sept. 8,
	1992)
1054	Thesaurus.com Synonyms for "Ticket"
1055	U.S. Patent No. 8,738,449 to Cupps, et al.
1056	U.S. Patent No. 5,974,238 to Chase Jr.
1057	Ameranth v. Menusoft Systems Corp., 07-cv-271-RSP, Dkt. 281
	(E.D. Tex. 2010)– Opening post-trial JMOL
1058	Ameranth v. Menusoft Systems Corp., 07-cv-271-RSP, Dkt. 281
	(E.D. Tex. 2010) Opposition JMOL Brief
1059	Ameranth v. Menusoft Systems Corp., 07-cv-271-RSP, Dkt. 281
	(E.D. Tex. 2010) Order Denying JMOL
1060	Excerpts from PO's Infringement Contentions to: (A) StubHub,
	Inc., (B) Hotels.com, L.P., and (C) Ticketmaster, LLC
1061	U.S. Patent No. 8,738,449 File History

1062	Sep. 13, 2010 Trial Testimony. Ameranth v. MenuSoft, 07-cv- 271-RSP
1063	Sep. 14, 2010 Trial Testimony. Ameranth v. MenuSoft, 07-cv- 271-RSP
1064	Sep. 15, 2010 Trial Testimony. Ameranth v. MenuSoft, 07-cv- 271-RSP
1065	Bruce Brown, "First Looks: Windows CE 2.0 Cornucopia," PC Magazine (June 30, 1998)
1066	Graf, "Modern Dictionary of Electronics" (7th ed. 1999).
1067	Matthews & Poulsen, "FrontPage 98: The Complete Reference" (January 1998)
1068	CBM2015-00080 – CBM petition for U.S. Patent No. 6,384,850
1069	CBM2015-00082 – CBM petition for U.S. Patent No. 6,871,325
1070	CBM2015-00081 – CBM petition for U.S. Patent No. 8,146,077

#### I. INTRODUCTION

Covered business method ("CBM") review of claims 1-18 (the "Challenged Claims") of U.S. Patent No. 8,146,077 (Ex. 1004, "the '077 patent") is hereby requested. The '077 patent has been asserted against Petitioner and several other entities in pending lawsuits. See Exs. 1030, 1031. The '077 patent, which claims priority to an application filed in 1999 after the Internet had become widely known and used, describes a real time synchronous communications system for configuring and transmitting "hospitality" menus (e.g., restaurant menus) to client devices such as PCs and wireless handheld devices (e.g., smartphones and personal digital assistants) over the Internet. See Ex. 1019, CBM2014-00014, Paper 19 at 10-11. The general ideas claimed in the '077 patent are that the menus displayed at the client and wireless handheld devices are synchronized to a master menu, and the menus are configured to be displayed as cascaded sets of linked graphical user interface screens so as to be suitable for display on the small screens of such wireless handheld devices.

As explained below, these general ideas and each of the particular techniques recited in the claims of the '077 patent had been developed and were well known long before the application for the '077 patent was filed. In particular, synchronization of databases of any kind, include menu databases, had long been known in the art, as had the use of client PCs and wireless handheld computing

devices for displaying menus that were synchronized to a master menu. The reformatting of web documents, including re-formatting into cascaded sets of linked graphical user interface screens, for the small screen sizes of wireless handheld devices such as smart phones and PDAs was also well-known. *See generally* Exs. 1022, 1025, 1027-28. All of the claims of the '077 patent are therefore unpatentable over the prior art identified below.

#### II. COMPLIANCE WITH FORMAL REQUIREMENTS

#### A. Mandatory Notices Under 37 C.F.R. §§ 42.8(b)(1)-(4)

#### 1. Real Parties-In-Interest

The real parties-in-interest are Expedia, Inc., StubHub, Inc., Fandango, LLC (formerly known as Fandango, Inc.), Hotels.com, L.P., Hotel Tonight, Inc., Hotwire, Inc., Kayak Software Corp., OpenTable, Inc., Orbitz, LLC, Papa John's USA, Inc., Ticketmaster, LLC, Live Nation Entertainment, Inc., Travelocity.com LP, Wanderspot LLC, Agilysys, Inc., Domino's Pizza, Inc., Domino's Pizza, LLC, Hilton Resorts Corporation, Hilton Worldwide, Inc., Hilton International Co., Mobo Systems, Inc., Pizza Hut of America, Inc., Pizza Hut, Inc., and Usablenet, Inc. (collectively, "Petitioner").

#### 2. Related Matters

Petitioner, along with other parties, previously filed a petition for CBM review of the '077 patent (CBM2014-00014) under 35 U.S.C. §§ 101 and 112. See

Ex. 1019. The Board denied that petition. Ex. 1019 at 41. Further, on February 19, 2015, parties other than Petitioner filed a petition for CBM review of the '077 patent (CBM2015-00081) concerning the same challenges to the same claims that are at issue in the present petition. Ex. 1070. The Board has not issued a decision regarding institution in CBM2015-00081.

Ameranth, Inc. ("PO") has asserted the '077 patent in the following patent infringement lawsuits, including the suits filed against Petitioner. To the best of Petitioner's knowledge, the following is a list of the defendants and the civil action numbers for the pending matters, which were all filed in the U.S. District Court for the Southern District of California and which all include Ameranth, Inc. as the lone plaintiff: Starbucks Corp., 3-13-cv-01072; TicketBiscuit, LLC, 3-13-cv-00352; Ticketfly, Inc., 3-13-cv-00353; Eventbrite Inc., 3-13-cv-00350; Apple Inc., 3-12-cv-02350; Hilton Resorts Corp. et al, 3-12-cv-01636; Kavak Software Corp., 3-12-cv-01640; Usablenet, Inc., 3-12-cv-01650; Starwood Hotels & Resorts Worldwide, Inc., 3-12-cv-01629; Hotels.com, LP, 3-12-cv-01634; Orbitz, LLC, 3-12-cv-01644; ATX Innovation, Inc., 3-12-cv-01656; Best Western International, Inc., 3-12-cv-01630; NAAMA Networks, Inc. et al, 3-12-cv-01643; Hotel Tonight, Inc., 3-12-cv-01633; Travelocity.com LP, 3-12-cv-01649; Expedia, Inc., 3-12-cv-01654; Hyatt Corporation, 3-12-cv-01627; Hotwire, Inc., 3-12-cv-01653; Wanderspot LLC, 3-12-cv-01652; Micros Systems, Inc., 3-12-cv-01655; Marriott International, Inc. et *al*, 3-12-cv-01631; *Mobo Systems, Inc.*, 3-12-cv-01642; *Fandango, Inc.*, 3-12-cv-01651; *StubHub, Inc.*, 3-12-cv-01646; *TicketMaster, LLC et al*, 3-12-cv-01648; *Agilysys, Inc.*, 3-12-cv-00858; *O-Web Technologies Ltd.*, 3-12-cv-00732; *Domino's Pizza, LLC et al*, 3-12-cv-00733; *Seamless North America, LLC*, 3-12-cv-00737; *GrubHub, Inc*3-12-cv-00739; *Pizza Hut, Inc. et al*, 3-12-cv-00742; *Papa John's USA, Inc.*, 12-cv-0729; and *OpenTable, Inc.*, 3-12-cv-00731 and 3-13-cv-01840.

#### 3. Lead and Back-up Counsel and Service Information

Lead Counsel for Petitioner is Richard S. Zembek, Reg. No. 43,306, and backup counsel for Petitioner is Gilbert A. Greene, Reg. No. 48,366, both of Norton Rose Fulbright US LLP. Counsel can be served at the contact information provided in the signature block. Petitioner hereby consents to electronic service.

#### 4. **Power of Attorney**

Powers of attorney are being filed in accordance with 37 C.F.R. § 42.10(b).

#### **B. Proof of Service on the PO**

As reflected in the attached Certificate of Service, a copy of this Petition in its entirety is being served to the PO's attorney of record at the address listed in the USPTO's records by overnight courier pursuant to 37 C.F.R. § 42.6.

#### C. Fee

The undersigned authorizes the Director to charge the fee specified by 37

C.F.R. § 42.15(b) and any additional fees that might be due in connection with this Petition to Deposit Account No. 06-2380.

#### III. GROUNDS FOR STANDING

In accordance with 37 C.F.R. § 42.304(a), Petitioner certifies that the '077 patent is available for CBM review because, as explained further below, the '077 patent constitutes a covered business method patent as defined by Section 18 of the America Invents Act (*see* AIA § 18(a)(1)(A)), and further certifies that the Petitioner is not barred or estopped from requesting a CBM review challenging the patent claims on the grounds identified in this Petition. Petitioner is eligible to file the petition because Ameranth has sued Petitioner for alleged infringement of the '077 patent. *See* Exs. 1030, 1031. Additionally, Petitioner is not estopped from pursuing this petition under 37 C.F.R. § 42.73(d)(1) because the Board has not instituted a trial or issued a final written decision on any '077 patent claim.

#### A. The '077 Patent Is a Covered Business Method Patent

A "covered business method patent" is a patent that "claims a method or corresponding apparatus for performing data processing or other operations used in the practice, administration or management of a financial product or service, except that the terms does not include patents for technological inventions." AIA § 18(d)(1). This definition was drafted to encompass patents "claiming activities that are financial in nature, incidental to a financial activity or complementary to a

financial activity." Final Rule, 77 Fed. Reg. 48,734, 48735 (Aug. 14, 2012). A single claim directed toward a covered business method makes every claim of the patent eligible for CBM review, even if a Petition does not seek review of that claim. *See CRS Advanced Technologies, Inc. v Frontline Technologies, Inc.*, CBM2012-0005, paper 17 at 6-9 (granting CBM review of claims 3, 6, 7, 16, 24 and 33 while relying in part on relying on recitation of "retail bank" in claim 1 to fulfill the requirement that the patent be directed to a financial activity).

At least claim 7 of the '077 patent qualifies as a covered business method as has previously been determined by the Board in CBM2014-00014. *See* Ex. 1019 at 10-15. Claim 7 recites "the information management and real time synchronous communications system in accordance with claim 1, further enabled to facilitate and complete payment processing." Ex. 1004 at 17:19-21. Claim 7 is therefore at least "incidental to financial activity" and/or "complementary to financial activity" and thus satisfies the first requirement of AIA § 18(d)(1). Ex. 1019 at 11.

Claim 7 also does not qualify as an exception to a covered business method because it is not directed toward a technological invention. To qualify as a technological invention, the subject matter as a whole must recite a technological feature that (1) is novel and unobvious over the prior art (the "first prong"), and (2) solves a technical problem using a technical solution (the "second prong"). *Id.* at 11. Both prongs must be met for the exception to apply. *Id.* As discussed in the

Board's Decision in CBM2014-00014, at least the first prong is not satisfied because the subject matter of the '077 patent claims are not novel and unobvious but rather "are the predicted and expected result of known programming steps." *Id.* at 14. Additionally, the Office Patent Trial Practice Guide states that "reciting the use of known prior art technology to accomplish a process or method, even if that process or method is novel and non-obvious" does not typically render a patent a technological invention. Patent Trial Practice Guide, 77 Fed. Reg. 48,756, 48,763-64 (Aug. 14, 2012). The '077 patent includes numerous statements indicating that the technology utilized therein was known in the art:

The preferred embodiment of the present invention uses typical hardware elements in the form of a computer workstation, operating system and application software elements which configure the hardware elements for operation in accordance with the present invention. Ex. 1004 at 6:55-58.

The preferred embodiment also encompasses a typical file server platform including hardware such as a CPU, e.g., a Pentium<sup>®</sup> microprocessor, RAM, ROM, hard drive, modem, and optional removable storage devices, e.g., floppy or CD ROM drive." *Id.* at 7:1-2.

The software applications for performing the functions falling within the described invention can be written in any commonly used computer language. The discrete programming steps are commonly known and thus programming details are not necessary to a full

description of the invention. Id. at 12:57-61.

Accordingly, the claims of the '077 patent do not satisfy the technological invention exception and are eligible for covered business method review.

#### **IV. STATEMENT OF PRECISE RELIEF REQUESTED**

In accordance with 37 C.F.R. § 42.22, the Petitioner respectfully requests that claims 1-18 of the '077 patent be canceled for the reasons set forth below.

## V. IDENTIFICATION OF PATENTABILITY CHALLENGES

In accordance with 35 U.S.C. § 321 and 37 C.F.R. § 42.304(b), CBM review of claims 1-18 of the '077 patent is requested in view of the following grounds:

A. Claims 1-18 are unpatentable under 35 U.S.C. § 112 (pre-AIA) due to lack of an antecedent basis for the "the same connected system" limitations.

B. Claims 1-18 are unpatentable under 35 U.S.C. § 103 (pre-AIA) as obvious over the Micros 8700 HMS Version 2.10 User's Manual (Ex. 1027, "Micros 8700 UM") including the Micros 8700 HMS Version 2.10 Appendix published in June 1997 (collectively, the "Micros 8700 Pub") in view of Bill N. Schilit, *Digestor: Device-Independent Access to the World Wide Web*, Computer Networks and ISDN Systems (1997) (Ex. 1022, "Digestor").

C. Claims 13-18 are unpatentable under 35 U.S.C. § 103 (pre-AIA) as obvious over U.S. Pat. 6,058,373 (Ex. 1025, "Blinn") in view of Digestor.

## VI. LEVEL OF ORDINARY SKILL IN THE ART

A person of ordinary skill in the art at the time of the alleged invention of the '077 patent (a "POSITA") patent had a Bachelor's degree in either electrical engineering or computer science and two years of experience in the fields of developing software for wireless networks and devices, developing Internet-based systems or applications, or an equivalent experience in software development of up to 5 years. Ex. 1002 ¶¶ 71-72.

#### VII. SUMMARY OF THE '077 PATENT

#### A. Patent Specification and Claims

The '077 patent, entitled "Information Management and Synchronous Communications System With Menu Generation, and Handwriting and Voice Modification of Orders," was filed on April 22, 2005 and issued on March 27, 2012. Ex. 1004 at 1. The '077 patent claims priority to, and is a continuation of, application No. 10/016,517, filed on Nov. 1, 2001, now U.S. Pat. No. 6,982,733, which is a continuation-in-part of application No. 09/400,413, filed on Sep. 21, 1999 (Ex. 1006), now U.S. Pat. No. 6,384,850. Exs. 1005 ('733 patent) and 1001 ('850 patent). The '077 patent was assigned upon issuance to, and upon information and belief is still owned by, PO Ameranth, Inc.

As the Board previously found, a "principal object" of the '077 patent "is to provide an improved information management and synchronous communications system and method which facilitates . . . generation of computerized menus for

restaurants and other applications that utilize equipment with non-PC-standard graphical formats, display sizes and/or applications." Ex. 1019 at 3 (quoting Ex. 1004, '077 patent at 2:61-67). According to the '077 patent, handheld wireless computing devices such as PDAs had not previously been "quickly assimilated into the restaurant and hospitality industries" due to their small display sizes. Ex. 1004 at 2:12-17; Ex. 1019 at 2-3. The '077 patent addresses this problem by reformatting menus to display on wireless handheld computing devices as "cascaded sets of linked graphical user interface screens." Ex. 1004 at 16:3-4.

In addition to reformatting menus for the small screen sizes of wireless handheld devices, the '077 patent is also directed toward keeping the menus displayed on such wireless handheld computing devices and on other user devices synchronized with a master menu stored in a master database. The '077 patent describes its preferred embodiment as a "synchronous communications control module . . . [that] provides a single point of entry for all hospitality applications to communicate with one another wirelessly or over the Web." Ex. 1004 at 12:39-42. "The single point of entry works to keep all wireless handheld devices and linked Web sites in synch with the backoffice server (central database)." Ex. 1004 at 12:47-49. This allows for "a reservation made online [to be] automatically communicated to the backoffice server which then synchronizes with all the wireless handheld devices wirelessly." Ex. 1004 at 12:51-54.

Figure 9 from the '077 patent (reproduced below) is "an exemplary system diagram that illustrates how '[a] single point of entry works to keep all wireless handheld devices and linked web sites in synch with the backoffice server applications so that the different components are in equilibrium at any given time and an overall consistency is achieved." Ex. 1019 at 5-6, quoting Ex. 1004 at 5:29-33.



#### Ameranth 21st Century Communications Integration

#### **B.** Overview of the Prosecution History

The Challenged claims were issued only after an extensive prosecution involving numerous interviews with the Examiner, numerous claim amendments, and five separate rejections rejecting the pending claims. The application for the '077 patent was filed on April 22, 2005 along with a preliminary amendment intended to overcome rejections from previous examination of the priority application. Ex. 1012 (4/22/05 amendment) at 88-94. A second preliminary

amendment cancelled all claims and added twenty-six new claims. *Id.* (9/25/07 Amendment) at 151-59.

The Examiner next issued a non-final rejection of all claims due to certain prior art, including U.S. Patent No. 6,973,437 to Olewicz (Ex. 1049, "Olewicz") and U.S. Pat. Pub. 20020059405 to Angwin (Ex. 1048, "Angwin"). Ex. 1012 (12/15/08 Rejection) at 304-17. Applicants responded by submitting a 37 CFR 1.131 declaration in an attempt to antedate the Angwin and Olewicz references. Id. (1/23/09 Remarks) at 330-32. The examiner found that the declaration failed to antedate the Angwin and Olewicz references because it did not establish an actual reduction to practice or reasonable diligence during the critical period. Id. (6/26/09 Non-Final Rejection) at 427. The examiner also presented new obviousness rejections in view of the Micros 8700 UM reference and other prior references. Id. at 429-47. The applicants responded with two additional inventor declarations under 37 CFR 1.131 as well as an inventor declaration under 37 CFR 1.132 addressing purported secondary considerations. Ex. 1012 (8/21/09 Remarks) at 493-97; 536-39 and (McNally Declaration) at 541-724. The examiner then issued a final rejection of all claims as being obvious over the Micros 8700 UM, U.S. Patent No. 6,300,947 to Kanevsky et al. (Ex. 1051), and U.S. Patent No. 5,974,238 to Chase Jr. (Ex. 1056). Ex. 1012 (1/20/10 Final Rejection) at 769-805.

The applicants filed a notice of appeal and, following an interview with the

examiner, a Request for Continued Examination. *Id.* (2/25/10 Notice of Appeal) at 823; (5/24/10 Request for Continued Examination) at 831. In the Request, the applicants presented additional claim amendments and attempted to distinguish them from the prior art. *Id.* (5/24/10 Remarks) at 847-55. In response to an interview with the Examiner on Dec. 7, 2010, the applicants filed a supplemental response and amendment. *Id.* (12/16/10 Remarks and Amendments) at 923-43.

No further action took place until an applicant-instigated interview on October 14, 2011 to discuss possible allowable subject matter for the application. *Id.* (Feb. 2, 2012 Interview Summary) at 1030-31. Following this interview, the examiner allowed the application on February 2, 2012, stating that the prior art alone did not teach the following limitations:

wherein the system is further enabled to automatically format the programmed handheld menu configuration for display as cascaded sets of linked graphical user interface screens appropriate for a customized display layout of at least two different wireless handheld computing device display sizes in the same connected system, and

wherein a cascaded set of linked graphical user interface screens for a wireless handheld computing device in the system includes a different number of user interface screens from at least one other wireless handheld computing device in the system. *Id.* (Notice of Allowance) at 1052.

#### VIII. CLAIM CONSTRUCTION

In accordance with 37 C.F.R. § 42.304(b)(3), Petitioner provides the following statement regarding construction of the '077 patent claims.

#### A. Legal Standard

Claims in a CBM review of an unexpired patent are to be given their "broadest reasonable interpretation in light of the specification." 37 C.F.R. § 42.300(b). This standard is often referred to as "BRI".

### **B.** Construction of the Terms Used in the Challenged Claims

Because the claim construction standard in this proceeding differs from that used in U.S. district court litigation, Petitioner expressly reserves the right to assert different claim construction positions under the standard applicable in district court for any term of the '077 patent in any district court litigation. Claim construction is further discussed in Ex. 1002 ¶ 69-90.

The Board has previously construed certain claim terms in its decision at Paper 19 of CBM2014-00014, and Petitioner hereby requests the Board adopt the same constructions here. As the Board is aware, four district court claim construction opinions have been issued for patents of the same family: three in Case No. 2:07-cv-00271-TJW-CE (E.D. Tex.), involving, the '850 patent, U.S. Patent No. 6,871,325 (Ex. 1003, the "'325 patent"), and the '733 patent, and one in Case No. 2:10-CV-294-JRG-RSP (E.D. Tex.), involving the '850 and '325 patents.

Ex. 1019 at 15-16. However, as the Board has previously found, these claim construction opinions are not necessary to resolve this Petition. *Id.* at 16.

## 1. "hospitality application information" (claim 13)

The Board previously construed this claim term as "information used to perform services or tasks in the hospitality industry." Ex. 1004 at 5:17-18; Ex. 1019 at 16-17; Ex. 1002  $\P$  84.

#### 2. "synchronized" (claims 1, 9 and 13)

The Board previously construed this claim term as "made to happen, exist, or arise at the same time." Ex. 1019 at 17-18. PO asserted during oral argument in CBM2014-00013 that downloading a menu from one device to another device constitutes synchronization, Ex. 1035 at 31-32, and should be held to that construction. "Synchronous" in these claims should be similarly construed. Ex. 1002 ¶ 85.

## 3. "cascaded sets"

This term should be construed to mean "sets whose members are arranged in succession." This construction comports with the plain meaning of "cascade" as "a succession of stages, processes, operations or units." Ex. 1036 at 3; 1002 ¶ 86-87.

## 4. "graphical user interface screens" (Claims 1, 9, and 13)

The Board previously construed this claim term as "a plurality of screen displays that provide an interface for user operations, such as menu selections."

Ex. 1019 at 18-19; Ex. 1002 ¶ 88.

# 5. "unique to the wireless handheld computing device" (Claims 1, 9, and 13)

The Board previously construed this claim term as "distinctly characteristic of the wireless handheld computing device." Ex. 1019 at 20; Ex. 1002 ¶ 89.

## 6. "web page" (Claim 13)

In the related proceeding CBM2014-00015, the Board construed the term "web page" in the '850 patent as "a document, with associated files for graphics, scripts, and other resources, accessible over the internet and viewable in a web browser." Ex. 1017 at 8; Ex.  $1002 \ \ 73$ .

## 7. "database" (claims 2, 3, 10, 12-15)

This term should be construed to mean "a file composed of records, each containing fields, together with a set of operations for searching, sorting, recombining and other functions." Ex. 1034 at 8; Ex. 1002 ¶¶ 79-80.

## 8. "real time" (claims 1, 9 and 13)

In the context of the '077 patent, and under the BRI standard applicable here, this term should be construed to mean "a data-processing technique in which information is utilized as events occur and the information is generated, as opposed to batch processing at a time unrelated to the time the information was generated." *See* Ex. 1066 at 627; *see also Paragon Solns, LLC v. Timex Corp.*, 566 F.3d 1075, 1094 (Fed. Cir. 2009); Ex. 1034 at 11; Ex. 1002 ¶ 90. The meaning of "real time"

is context-dependent. Ex.  $1002 \P 90$ . The construction above is consistent with the distinction drawn in the '077 patent between "real time communication over the internet" and "support for batch processing that can be done periodically throughout the day." Ex. 1004 at 2:27-31. Ex. 1002 ¶ 90.

#### 9. The Preambles Are Not Limiting.

The preambles do not recite any structural components and does not serve as the antecedent basis for any terms recited in the body of the Challenged Claims. Instead, the preambles merely set forth the purpose ("information management and synchronous communication") and intended use ("for generating and transmitting menus") of the claimed invention. *See* CBM2013-00014, Paper 33, at 14-15 (PTAB Aug. 22, 2014). Accordingly, the preambles are not limiting under the BRI.

#### IX. STATE OF THE ART PRIOR TO THE '077 PATENT

The state of the art prior to the '077 patent is discussed generally in Ex. 1002 ¶¶ 91-106. The techniques claimed in the '077 patent were all well known in the computer and hospitality industries well before the earliest effective filing date of the '077 patent in September 1999. *See generally id*. For example, several different schemes for ensuring that a consistent set of data is available at client devices (both wireless hand-held and PCs) were well known to a POSITA. One possibility was the use of a centralized database that was queried by client devices

to obtain data when it was needed, such as in response to user queries. Ex. 1026 at 430; Ex. 1002 ¶ 563. Alternatively, the concept of storing separate full or partial copies of a central database client sites (sometimes referred to as database replication) was also well known in the art. Ex. 1026 at 430-31; Ex. 1002 ¶ 563. Known techniques for updating such replicated databases included snapshot replication, near real-time replication, and pull replication. Ex. 1026 at 424. Similarly, real time communication of data from a database (*e.g.*, for airline or hotel reservations) was also well known in the art. *Id.* Accordingly, claim limitations such as "real time synchronous communication" and "real time synchronous transmission of the programmed handheld menu configuration" (which is nothing more than a database) were nothing new in the art at the time of the '077 patent. *See generally*, Ex. 1002 ¶ 91-106; 558-566.

The use of wireless handheld devices was also known in the computer and hospitality industries well before the '077 application was filed. For example, a wireless handheld device from Micros Systems known as the HHT (hand held terminal) had been in use in the Walt Disney World Village for taking beverage orders in the pool area and communicating those orders to the hotel's point of sale system, the Micros 8700 hospitality management system, at least as early as January, 1997. Ex. 1029 at 26. The use of such wireless handheld devices for taking and communicating orders from customers was known to shorten the time

necessary for the servers to bring orders to customers. Id. at 26.

The technique of re-configuring or re-formatting information to be displayed on a small screen such as that found on a smartphone or PDA (both of which are wireless handheld devices) was also known in the art long before the '077 patent was filed. Digestor discloses reauthoring a single web page configured for display on a large screen into a set of linked webpages, each with a portion of the information from the single large screen web page for display on such wireless handheld devices. See Ex. 1022 at 1078 (single web page with title, headings and content replaced by multiple web pages including outline page with title and headings in the form of hypertext links to additional pages with corresponding content). Also, the Micros 8700 UM discloses sets of linked screens displayed on a screen of a wireless hand held terminal one after the other. See Ex. 1027 at 3-7 to 3-9 (discussing use of next screen and previous screen keys to access linked user defined HHT screens). The claim limitations directed toward "cascaded sets of linked graphical user interface screens" for display on a wireless handheld device were therefore also known well before the filing of the '077 patent.

Accordingly, all of the components and techniques of claims 1-18 of the '077 patent are in the prior art, and it would have been obvious to combine them in the manner recited in those claims as discussed below. *See* Ex. 1002 ¶¶ 29-43, 558-66, and 749-52.

-19-

## X. THERE IS A REASONABLE LIKELIHOOD THAT PETITIONER WILL PREVAIL ON AT LEAST ONE CLAIM OF THE '077 PATENT.

As required under 35 U.S.C. § 324(a), there is a reasonable likelihood that

Petitioner will prevail in establishing that at least one of claims 1-18 of the '077

patent is invalid under 35 U.S.C. §§ 102 and 103 as explained below.

## XI. DETAILED EXPLANATION OF THE CHALLENGES

A detailed explanation of the pertinence and manner of applying the prior art references to claims 1-18 of the '077 patent is provided below in accordance with 37 C.F.R. §§ 42.304(b)(4) and 42.304(b)(5).

## A. Challenge to Claims 1-18 As Indefinite Due to Lack of Antecedent Basis For "the same connected system" Limitations

Each independent claim (claims 1, 9, and 13) of the '077 patent recites the limitation "the same connected system." Ex. 1004 at 16:55-56, 18:41, and 20:3-4. These claims do not recite a "connected system" prior to the "the same connected system" limitation, and there are multiple possible ways to interpret this limitation. For example, it is not clear whether this limitation requires that the claimed system itself include two wireless handheld computing devices each with a different display size, or whether the claimed system must be connected to a second system that has two wireless handheld computing devices with different display sizes. Other interpretations are possible. Accordingly, claims 1, 9, and 13 are indefinite.

Notably, the Patent Office has already determined that the Challenged

Claims are indefinite. In an interference, the applicants of U.S. Patent No. 8,738,449 (Ex. 1055, the "449 Patent") copied the claims from the '077 patent. The examiner rejected the copied claims for lack of antecedent basis for the "the same connected system" limitation. *See* Ex. 1062, 6/6/13 Non-Final rejection. The applicants amended "in the same connected system" to read "connected to the system." Ex. 1062 at 12/4/13 Amendment. Because this deficiency has not been corrected in the '077 patent, all Challenged Claims are indefinite.

# B. Challenge to All Claims Based on the Micros 8700 Pub and Digestor

#### 1. Summary of Micros 8700 Pub

The Micros 8700 Pub qualifies as prior art to the '077 patent under 35 U.S.C. § 102(b) because it was published in June 1997, which is more than one year prior to the earliest possible effective filing date of the application of the '077 patent on September 21, 1999. In the *Ameranth v. Menusoft* litigation, Ameranth alleged that the Micros 8700 Pub was not prior art because it was only available along with the sale of the related Micros product. *See* Ex. 1057 at 7. However, the Federal Circuit has held that prior art "need only be accessible to the interested public." *Cooper Cameron Corp. v. Kvaerner Oilfield Products*, 291 F.3d 1317, 1324 (Fed. Cir. 2002). The Micros 8700 Pub was accessible to the interested public for at least the following reasons.

First, Ameranth did not dispute that any member of the interested public could obtain a manual by purchasing the system. Second, the Micros 8700 Pub lacks any confidentiality designations or any other indicia restricting distribution. *See generally* Exs. 1027-28. Third, there is sworn deposition testimony that there were no restrictions on distribution of the Micros 8700 Pub. *See* Exs. 1062 at 23:25-24:15, 25:11-26:11, and 28:2-11; 1063 at 7:5-8:3, 8:10-11:1; and 1064 at 33:24-25, 45:18-46:4, 49:14-50:5, and 63:24-64:20. Fourth, the Micros 8700 Pub itself describes how the user can order additional copies through placing an order with a specific order number provided in the manual. *See* Ex. 1027 at xvi-xix. It should also be noted that the District Court denied Ameranth's motion alleging that the Micros Pub did not qualify as prior art. *See* Exhibit 1059. Therefore, the Micros 8700 Pub is prior art under 35 U.S.C. § 102(b).

The Micros 8700 Pub describes a menu-based, database-driven, point-ofsale restaurant management system sold and distributed by Micros Systems, Inc., called the Micros 8700 Hospitality Management System ("Micros 8700 HMS"). The Micros 8700 Pub describes the system as an "integrated Point-Of-Sale (POS) system comprising modular hardware and flexible, user-configured software." Ex. 1027 at 1-2. Along with the POS operations, the Micros 8700 HMS provides printing, sales and cost reporting, and interfaces to third-party peripheral equipment and software including property management systems, among other

functionalities. Id.; Ex. 1002 ¶ 561.

The Micros 8700 HMS included the 8700 HMS base station in communication with user workstations and wireless handheld computing devices, called hand-held touchscreens ("HHTs"), all of which include graphical user interfaces for displaying, manipulating, and storing menus. Id. at 1-3 to 1-4, 1-18, 3-2, 5-2, 5-22, D-33 to D-35. The Micros 8700 HMS permits the display and generation of multiple menus. For example, Micros 8700 HMS discloses the capability to display menu items such as appetizers for a food menu among other selections. Id. at 1-18 and 3-3 to 3-10. The Micros 8700 HMS further allows the user to perform almost all of the POS operations that can be performed on a user workstation. Id. at 1-17. In addition to displaying information across these devices, Micros 8700 HMS synchronizes and updates information across these devices through, e.g., updating the menu data on these devices. Id. at 5-13. The Micros 8700 HMS further discloses display of menus on the graphical user interface of devices of different display sizes and requirements, such as user workstations and handheld terminals. Ex. 1027 at 1-5 to 1-16, 5-13; Ex. 1002 ¶ 562.

## 2. Summary of Digestor

Digestor, which was not considered by the Patent Office during the original prosecution of the '077 patent, also qualifies as prior art under 35 U.S.C. § 102(b)

because Digestor was published in 1997, which is more than one year prior to the earliest possible effective filing date of the '077 patent on September 21, 1999. Digestor describes "a software system which automatically re-authors arbitrary documents from the world-wide web to display on small screen devices such as PDAs and cellular phones, providing device independent access to the web." Ex. 1022 at Abstract. An example of a reauthored web document that has been divided to display as a cascaded set of linked graphical user interface screens on a small screen device is shown in the figure below (Ex. 1022 at 1078):



Digestor discloses four approaches for formatting documents for display on small screens, including: (1) device-specific authoring, (2) multiple-device authoring, (3) client-side navigation, and (4) automatic re-authoring. *Id.* at 1076. Automatic re-authoring can be performed at either the server that serves the documents, the client, or an intermediate device. *Id.*; Ex. 1002 ¶ 564.

#### 3. Challenge Based on the Micros 8700 Pub and Digestor

While the Micros 8700 HMS system was implemented using proprietary communications and data formats, it would have been obvious to a POSITA to implement that system using well-known Internet technologies such as hypertext transport protocol (HTTP) for communications (including transmission of menus, selections from menus, and updates relating to the same) among the system components, and hypertext markup language (HTML) and web browsers for authoring and displaying menus and other data at the user workstations and the HHTs. Ex. 1002 ¶ 565. It would further have been obvious to a POSITA to utilize a web server as disclosed in Digestor for communications among the various system components. Id. at ¶ 566. A POSITA would have been motivated to do so in order to take advantage of existing hardware and software to minimize development costs. Id. Because both Micros 8700 UM and Digestor discuss display of data on multiple devices with different display configurations, it would have been obvious to a POSITA to combine Digestor's customized display layout teachings to the user workstation and HHT devices supported by the Micros 8700 HMS so that menus would be displayed appropriately on the differently-sized display screens of all devices in the system. *Id.* It should be noted that nothing in the claims of the '077 patent preclude both the "web page" and the "wireless handheld device" from being implemented as wireless handheld devices with browsers. Id. This combination renders each of the claims of the '077 patent

obvious as shown in the following charts. Id.

Claim 1	Micros 8700 Pub and Digestor
An information	The Micros 8700 UM discloses an information management
management	and real time synchronous communications system for
and real time	processing orders, configuring, and transmitting menus for a
synchronous	hospitality management system (HMS) that allows restaurants
communications	to take and complete orders, and keep track of inventory of
system for	menu items remaining for purchase in real-time. Ex. 1027 at
configuring and	1-2, 5-13.
transmitting	"The 8700 is an integrated Point-Of-Sale (POS) system
hospitality	comprising modular hardware and flexible, user-configured
menus	software An 8700 System includes personal computer(s),
comprising:	User Workstations, printers, peripheral devices, and software.
	The 8700's modular design allows great flexibility in
	configuring a system that is both cost effective and
	functional." Ex. 1027 at 1-2.
	"The item quantity, name, and price posts to the check detail.
	Depending on the availability of the item and the
	programming of the system, one of the prompts shown below
	will display." Ex. 1027 at 5-13.
	"The Special Count may be set for those Menu Items that are
	programmed for limited availability (Menu Item Class Type
	Definition #16 - Check Menu Item Availability Before
	Allowing Sale - is set ON.) The Special Count is reduced each
	time a Menu Item is ordered. When the count reaches zero,
	the Menu Item automatically shifts to "Not Available"." Ex.
	1027 at 11-28.
	Digestor discloses the use of Internet technology for
	displaying information on both large and small screen devices.
	Ex. 1022 at 1075. See also Ex. 1002 ¶¶ 567-71.

A POSITA would have understood that the Micros 8700 required a synchronous, real-time communications system to maintain an updated "Special Count" of menu items available for display on other display devices in the system. Ex. 1002 ¶ 571. A POSITA would further have understood that systems using

Internet technology constituted real time synchronous communications systems as

those terms are used in the '077 patent. *Id.* at  $\P\P$  90, 571.

Claim 1	Micros 8700 Pub and Digestor
a. a central	The Micros 8700 UM discloses a central processing unit in the PC
processing	Workstation. Ex. 1027 at 1-12.
unit	"The PC Workstation (PCWS) is a personal computer that
	functions both as a PC and a User Workstation," including a
	"[s]ystem board supporting a variety of true 32-bit processors,
	including 486SX 25Mhz, 486DX/2 66Mhz, and 486DX/4
	100Mhz." Ex. 1027 at 1-12. See also Ex 1002 ¶¶ 572-74. See
	also, Ex. 1012 (Jan. 20, 2010 Final Rejection) at 771.
b. a data	The Micros 8700 UM discloses various data storage devices
storage	connected to the central processing unit.
device	"Memory configurations ranging from 1 Mbyte to 64 Mbytes, with
connected	an optional cache available as 128 Kbytes or 256 Kbytes" as
to said	features of the PC Workstation which also includes the central
central	processing unit. Ex. 1027 at 1-12.
processing	"Disk drive options, including an internal hard drive and an
unit,	external floppy disk drive." Ex. 1027 at 1-12.
	"The SQL module provides an industry standard set of commands
	that allow you to define, display, and update 8700 database
	information in tables (similar to a typical spreadsheet). These
	commands also allow you to import database information into
	many accounting packages as well as Standard database
	applications like dBase IV. The Unix cron command allows SQL
	commands to be executed at specified dates and times. Thus,
	updates to the $\frac{8700 \text{ database}}{1027}$ can be performed unattended." Ex.
	1027 at 1-3 (emphasis added).
	See also, Ex. 1012 (Jan. 20, 2010 Final Rejection) at 771. See also
	Ex. 1002 ¶¶ 575-80.

A POSITA would understand that a data storage device could be a volatile memory such as a RAM chip, or a non-volatile memory such as a hard disk drive. Ex. 1002 ¶ 580.
Claim 1	Micros 8700 Pub and Digestor
c. an operating	The Micros 8700 UM discloses user workstations, such as
system	personal computer work stations, running the Unix operating
including a	system with a graphical user interface.
first graphical	"An 8700 System includes personal computer(s), User
user interface,	Workstations, printers, peripheral devices, and software. The
	8700's modular design allows great flexibility in configuring a
	system that is both cost effective and functional. Further, the
	8700 provides multitasking and multi-user capability through
	the Unix operating system." Ex. 1027 at 1-2
	"User Workstations (UWS) are used to record all sales and time
	keeping activity in the system" Ex. 1027 at 1-4
	"The Screen Display displays transaction information during
	POS OperationsThis illustration shows the screen display
	format for UWS/1 and U WS/2." Ex. 1027 at 1-7
	See also Ex. 1027 Appendix D (detailing graphic user interface
	procedures for adding and manipulating records); Ex. 1012 (Jan.
	20, 2010 Final Rejection) at 772. See also Ex. 1002 ¶¶ 581-85.
d. a master	The Micros 8700 UM discloses a master menu including menu
menu	categories such as appetizers, menu items such as a list of
including at	appetizers, and modifiers such as condiments.
least menu	"A lookup key lists a set of items on the operator display and
categories,	allows the operator to choose one. It optimizes keyboard space
menu items	by linking multiple menu items or functions to a single key. For
and modifiers,	example, one set of menu items might be linked to an appetizer
	lookup. When an operator presses the appetizer lookup, a
	numbered list of appetizers appear on the display" Ex. 1027
	at 1-18; <i>see also id.</i> at 3-8.
	"Many menu items are programmed to require or allow
	condiments. The term "condiment" includes anything that may
	modify a menu item-accompaniments, toppings, dressing,
	preparation instructions, etc. You will be prompted for required
	condiments, but not for condiments that are allowed (not
	required)." Ex. 1027 at 5-22; see also id. at 3-12.
	See also, "Condiments requiring other condiments" at Ex. 1027
	at 5-2; Ex. 1012 (Jan. 20, 2010 Final Rejection) at 772. See also
	Ex. 1002 ¶¶ 586-89.
wherein said	The Micros 8700 UM discloses that the master menu is stored
master menu	on the user workstation.

Claim 1	Micros 8700 Pub and Digestor				
is capable of	The "[User Workstation] Procedures are used to perform tasks				
being stored	that modify (change or update) the system's database. For				
on said data	example, using UWS Procedures, a manager may edit, add, or				
storage device	delete records from the employee or menu item files.				
pursuant to a	Although many of these procedures can be performed at the PC				
master menu	through System Configurator, there are advantages to using				
file structure	UWS Procedures" Ex. 1027 at 11-2.				
and	See also, Ex. 1027 Appendix D, D-33 to D-36; Ex. 1012 (Jan.				
	20, 2010 Final Rejection) at 773. See also Ex. 1002 ¶¶ 590-93.				
said master	The Micros 8700 UM discloses that the graphical user interface				
menu is	of the user workstation is configured as cascaded sets of linked				
capable of	graphical user interface screens that are configured to facilitate				
being	user operations, such as cashier or manager functions, or taking				
configured for	orders.				
display to	"When you sign in at a UWS/3, a "Default" Transaction				
facilitate user	Touchscreen will display based on how the system is				
operations in	programmed. The particular screen that displays is unique to				
at least one	each installation. Typically, each job function (for example,				
window of	server, cashier, manager) has its own default transaction				
said first	touchscreen that gives access to specific operations." Ex. 1027				
graphical user	at 3-2.				
interface as	The user workstation displays cascaded sets of linked graphical				
cascaded sets	user interface screens such as cascaded 'Main Food and				
of linked	Beverage' and 'Salads' screens shown below:				
graphical user	Mary pressed (Salads) by mistake on her main food and beverage touchscreen. Luckily, there is a [Previous Screen] key programmed on the SLU screen that is generated by [Salads]. When Mary presses [Previous				
interface	Screen], the Main Food and Beverage Touchscreen is displayed again. This scenario is illustrated below.				
screens, and	TACO CEASAR CALAMARI CHEFS PAGE SALAD SALAD SALAD UP				
	CHIX FRUIT HOUSE PASTA PAGE				
	POTATO SHRIMP ROMAINE SEAFOOD VOID				
	SALAD SALAD SALAD SALAD Prev Scrn				
	1- Press key 2- Previous screen displays				
	APPS SANDWCH UWS REPORTS 4 5 6				
	SOUPS SPECIAL SPECIAL SHIFT 0 .				
	Ex. 1027 at 3-8. See also Ex. 1012 (Jan. 20, 2010 Final				

Claim 1	Micros 8700 Pub and Digestor
	Rejection) at 773. See also Ex. 1002 ¶¶ 594-96.
e. menu	The Micros 8700 UM discloses that menus on the HHT can be
configuration	used to perform many of the same operations as performed on
software	the user workstations (Ex. 1002 ¶ 597):
enabled to	"The HHT is a portable User Workstation. Like the UWS/3, it
generate a	contains an 8700 Revenue Center database. Using the HHT, an
programmed	operator can post orders, close guest checks, and perform almost
handheld	every other operation that is available on a UWS." See Ex.
menu	1027 at Micros 1-15; <i>see also</i> Ex. 1002 ¶ 598.
configuration	"The HHT transmits posting and transaction information to the
from said	Base Station (BST), and the BST transmits guest check
master menu	information and database modifications to the HHT." See Ex.
for wireless	1027 at Micros 1-15.
transmission	Digestor discloses reauthoring software that modifies a master
to and	document sized for display on a large screen by dividing it into
programmed	a set of smaller linked documents sized for display on a smaller
for display on	screen of a wireless handheld terminal. Ex. 1022 at 1078 and
a wireless	Fig. 3; <i>see also</i> Ex. 1002 ¶ 598.
handheld	<i>See also</i> Ex. 1002 ¶¶ 597-99.
computing	
device,	

It would have been obvious to a POSITA to utilize reauthoring software as disclosed in Digestor to modify the size of the menu pages displayed on the workstation by dividing them into smaller pages for display on the smaller screen of the hand held terminal. Ex.  $1002 \ \mbox{m} 599$ .

Claim 1	Micros 8700 Pub and Digestor
said programmed	The Micros UM discloses that the HHT can "can post
handheld menu	orders, close guest checks, and perform almost every other
configuration	operation that is available on a" workstation. Ex. 1027 at
comprising at least	Micros 1-15.
menu categories,	One of these operations is the display of menu categories,
menu items and	menu items and modifiers. See Ex. 1027 at Micros 3-7 to
modifiers and	3-10, 3-16 (depicting HHT icon); id. at xiv (indicating that

Claim 1	Micros 8700 Pub and Digestor				
	the HHT icon indicates "operations [] can be performed on				
	an HHT, as well as a UWS." Ex. 1027 at Micros xiv.				
	See also element 1(d) above; Ex. 1012 (Jan. 20, 2010 Final				
	Rejection) at	773-74. See al.	so Ex. 10	02 ¶¶ 600-03.	
wherein the menu	The Micros	8700 UM di	scloses s	software enabled to	
configuration	generate me	enus as discus	ssed in	the previous claim	
software is enabled	elements. S	See e.g., supra	at eleme	nt 1.e. and previous	
to generate said	element. Th	e Micros softw	are provi	des the operations to	
programmed	be performed	l on both the H	HT as we	ll as the workstation,	
handheld menu	which inclu	des using the	menu ca	ategories, items and	
configuration by	modifiers fro	om the master m	nenu file o	described in previous	
utilizing parameters	claim elemer	nts above. See	<i>supra</i> and	d Ex. 1027 at Micros	
from the master	xiv and N	ficros 3-7 to	3-10.	Micros discloses	
menu file structure	synchronizin	g the menu i	nformatio	on in real time as	
defining at least the	evidenced by	the ability to tr	ack the n	umber of menu items	
menu categories,	remaining:				
menu items and					
modifiers of the	Post Limited Availabi	lity Menu Item			
master menu such	Daily Proce	dure in or pick up a guest check.			
that at least the	#1 2. If or qua	rdering more than one of this menu ntity.	item, press the		
menu categories,	S. Free The Den	item quantity, name, and price post ending on the availability of the iter	ts to the check detail. m and the		
menu items and	programming of the system, one of the prompts shown below will display.				
modifiers	Prom	ots			
comprising the	Prompt	What it Means	Action Required		
programmed	ONLY 1 name REMAINING, where name is the menu item	and another of the menu item is ordered, the system warns of the	continue. Notify other operators.		
handheld menu		impending outage with the prompt.			
configuration are	ONLY # ITEMS REMAINING, where # is the quantity on hand.	An order was placed for more of an item than is on hand.	Press [Clear] to continue. Order equal to or less		
synchronized in real			than the number remaining.		
time with analogous	NO MORE name REMAINING	No more of this item is available.	Press [Clear] to continue. The		
information			changed through UWS Procedure		
comprising the	Ex. 1027 at 5-13; <i>see also id</i> . at 5-14, 5-27, and 11-28. <i>See also</i> Ex. 1012 (Jan. 20, 2010 Final Rejection) at 774- 75; Ex. 1002 ¶¶ 604-07. Digestor discloses reauthoring software that modifies a master document sized for display on a large screen by				
master menu,					
	dividing it in	to a set of small	ler linked	documents sized for	
	display on	a smaller scre	een of a	wireless handheld	

Claim 1	Micros 8700 Pub and Digestor				
	terminal. Ex. 1022 at 1078 and Fig. 3; <i>see also</i> Ex. 1002 606.				
wherein the menu configuration software is further enabled to generate the programmed handheld menu configuration in conformity with a customized display layout unique to the wireless handheld computing device to facilitate user operations with and display of the programmed handheld menu configuration on the display screen of a handheld graphical user interface integral with the wireless handheld computing device, wherein said customized display layout is compatible with the displayable size of the handheld	<ul> <li>606.</li> <li>The Micros 8700 UM discloses software enabled to generate a menu with a layout unique to the HHT:</li> <li>"The HHT's LCD touchscreen displays 12 lines of 20 to 30 characters. (It varies because a proportional font is used.) The touchscreen overlay features 8 columns by 5 rows, for a total of up to 40 touchscreen keys. Two character sizes are available for key legends." Ex. 1027 at 1-15.</li> <li>The HHT and User Workstations "require[] different steps and different keys than those described [in the User Manual]." Ex. 1027 at 2-19. <i>See also id.</i> at 11-25 to 11-26 (referring to HHT SLU Group field for HHT only and SLU Group field for non-HHT touchscreens).</li> <li>Digestor discloses customizing the display of content for graphic user interfaces of handheld devices with varying screen sizes:</li> <li>"Digestor is a software system which automatically reauthors arbitrary documents from the world-wide web to display appropriately on small screen devices such as PDAs and cellular phones, providing device independent access to the web. Digestor is implemented as an HTTP proxy which dynamically re-authors requested web pages using a heuristic planning algorithm and a set of structural page transformations to achieve the best looking document for a given display size." Ex. 1022 at 1075; Ex. 1002 ¶ 612.</li> </ul>				
interface	loss of information." Ex. 1022 at 1077; Ex. 1002 ¶ 613. See also Ex. 1002 ¶¶ 608-14.				

A POSITA would have understood that the different steps and keys required

on the HHT and the User Workstation exemplified unique displays and layouts

specific to the HHT and the various User Workstations, especially in light of the different specification options of the displays. Ex. 1002  $\P$  614. Additionally, a POSITA would have found it obvious to combine Micros with Digestor to support other wireless handheld devices with varying screen sizes to create customized display layouts compatible with such handheld devices. Ex. 1002  $\P$  614.

Claim 1	Micros 8700 Pub and Digestor				
wherein the	The Micros 8700 UM discloses displaying menu content				
programmed	as cascaded sets of linked graphical user interface screens				
handheld menu	as evidenced by the ability to go "previous" or "next"				
configuration is	screens:				
configured by the	Previous Screen				
menu configuration	Procedure				
software for display	Prev.         Press [Previous Screen].           Screen         The last, user-defined touchscreen is displayed.				
as programmed					
cascaded sets of	If several screens have been displayed and you wish to go back two or more screens, pros				
linked graphical	Previous Screen] as many times as necessary until the desired screen displays. However, note				
user interface	that [Previous Screen] disregards (or skips) SLU screens.				
screens appropriate					
for the customized	Prompts None.				
display layout of the	Ex. 1027 at 3-7.				
wireless handheld	Mary pressed [Salads] by mistake on her main food and beverage touchscreen. Luckily, there is a [Previous Screen] key programmed on the				
computing device.	SLU screen that is generated by [Salads]. When Mary presses [Previous Screen], the Main Food and Beverage Touchscreen is displayed again. This connected below:				
inis scenario is indicated below.					
	TACO CEASAR CALAMARI CHEFS PAGE SALAD SALAD SALAD SALAD UP				
	CHIX FRUIT HOUSE PASTA PAGE SALAD SALAD SALAD SALAD DOWN				
	SALAD SALAD SALAD Prev Scrn				
	1- Press key 2- Previous screen displays				
	SALADS ENTREES Service Print				
	APPS SANDWCH UWS PROCEDURE 7 8 9				
	FUNCTION KEYS 1 2 3				
	SOUPS SPECIAL BHIFT 0 ·				

Claim 1	Micros 8700 Pub and Digestor			
	Ex. 1027 at 3-8; <i>see also id.</i> at 3-9.			
	By including the icon described at Ex. 1027 at xiv, the			
	Micros discloses the ability to display the programmed			
	cascaded sets of linked graphical user interface screens on			
	the handheld device:			
	This symbol called a(n) is used to			
	HHT Icon denote operations that can be performed on an HHT, as well as on a UWS. This symbol is displayed below the key symbol on the first page of an operation's description.			
	See also Ex. 1002 ¶¶ 615-17.			

As discussed above, Digestor discloses dividing pages sized for display on a large screen into sets of smaller pages for display on a smaller screen. Ex. 1022 at 1078-1079. To the extent it is not inherent, it would have been obvious to a POSITA to link the smaller pages in the sets to each other and to include navigation links including "next" and "previous" links so that the smaller documents would form cascaded sets of linked graphical user interface screens. Ex. 1028 (HTML Manual of Style) at 55 and Fig. 3.5; Ex. 1002 ¶ 617.

Claim 1	Micros 8700 Pub and Digestor				
wherein said	The MICROS 8700 UM discloses different displays for the				
programmed	user workstation and the wireless handheld device such that				
cascaded sets of	the menu configuration between the two differs:				
linked graphical	"The HHT's LCD touchscreen displays 12 lines of 20 to 30				
user interface	characters. (It varies because a proportional font is used.)				
screens for display	The touchscreen overlay features 8 columns by 5 rows, for a				
of the handheld	total of up to 40 touchscreen keys. Two character sizes are				
menu configuration	available for key legends." Ex. 1027 at 1-15.				
are configured	"The Screen Display displays transaction information during				
differently from the	POS Operations. The same screen format is used by the				
cascaded sets of	UWS/1 and UWS/2. The UWS/3 has a slightly different				

Claim 1	Micros 8700 Pub and Digestor					
linked graphical	format which provides the same information." Ex. 1027 at 1-					
user interface	7. See also id. at 1-4 through 1-6, 1-8 through 1-11.					
screens for display	The HHT and User Workstations "require[] different steps					
of the master menu	and different keys than those described [in the User					
on said first	Manual]." Ex. 1027 at 2-19. See also Ex. 1002 ¶¶ 618-21.					
graphical user						
interface, and						

It would have been obvious to a POSITA that the master menu displayed on the user workstation could be comprised of multiple pages forming a cascaded set of linked graphical user interface screens, and that each such page could itself be modified by further dividing it into multiple pages forming a cascaded set of linked graphical user interface documents for display on a smaller sized screen of a wireless handheld device. Ex.  $1002 \ \fill 621$ .

Claim 1	Micros 8700 Pub and Digestor
wherein the	The Micros 8700 UM discloses real time synchronization of
system is	menu data to and from the wireless handheld device, including
enabled for real	e.g. the availability of special menu items:
time	
synchronous	
communications	
to and from the	
wireless	
handheld	
computing	
device utilizing	
the programmed	
handheld menu	
configuration	
including the	
capability of	
real time	

Claim 1	Micros 8700 Pub and Digestor					
synchronous	Post Limited Availability Menu Item					
transmission of	Procedure					
the programmed	Special       2. If ordering more than one of this menu item, press the					
handheld menu	3. Pres	s the menu item key, for example:	[Daily Spcl #1].			
configuration to	The Dep	item quantity, name, and price pos ending on the availability of the ite	ts to the check detail. m and the			
the wireless	prog	ramming of the system, one of the p display.	prompts shown below			
handheld	Promp	ots				
computing	Prompt	What it Means	Action Required			
device and real	ONLY 1 <i>name</i> REMAINING, where name is the menu	When the count decrements to 2 and another of the menu item is	Press [Clear] to continue. Notify			
time	item	ordered, the system warns of the impending outage with the	other operators.			
synchronous	ONLY # TTRMS	prompt.	Proce [Close] to	i		
transmissions of	REMAINING, where # is the quantity on hand.	an item than is on hand.	continue. Order equal to or less			
from the			than the number remaining.			
handheld menu	NO MORE name REMAINING	No more of this item is available.	Press [Clear] to continue. The			
configuration			status can be changed through			
on the wireless			UWS Procedure #14.			
handheld	Ex. 1027 at 5-13	3.				
computing	See also Ex. 102	27 at 5-13 "The lin	nited availab	oility menu item		
device, and	feature allows	you to define mer	nu items to	have a limited		
,	quantity availab	vailable: After a programmed number of sales are				
	posted, the syste	em indicates that the	ne menu iter	n is unavailable		
	when that menu	item is entered. E	xample At t	the beginning of		
	his shift, the m	anager entered the	number of	daily special s		
	available during lunch, near the end of the lunch shift, Mary					
	entered an order for five daily specials. She received the					
	system prompt: "ONLY 4 DAILY SPECIAL REMAINING,'.					
	She returned to her table and informed the group that one					
	would have to order something else which one of the					
	customers was happy to do. She then placed the order for four					
	daily specials, Immediately after service totalling her check,					
	ner order, George, tried to enter an order for the daily special					
and received this message: "NO MORE DAILY SPE						
$\begin{array}{c} \text{KEWAINING.} \\ \text{See also } \text{Ev. 1002 } \text{CC 622.22} \end{array}$						
	See <i>uiso</i> Ex. 100	ס∠ וון 022-23.				
	Digestor disclo	oses that "[a]s so	on as a s	tate is created		

containing a document version that is 'good enough', the

Claim 1	Micros 8700 Pub and Digestor		
	search is halted and that document is returned to the client for		
	rendering." Ex. 1022 at 1079; Ex. 1002 ¶ 623		
wherein the	As discussed above, the Micros 8700 UM discloses displaying		
system is	cascaded sets of linked graphical user interface screens		
further enabled	appropriate for the customized display layout of an HHT:		
to automatically	Previous Screen		
format the	Procedure Press [Previous Screen].		
programmed	Screen The last, user-defined touchscreen is displayed.		
handheld menu	If several screens have been displayed and you		
configuration	What up do dak the of the Sciences, picss     IPrevious Science at a many times as necessary     until the desired screen displays. However, note     the Upwride Science of the science of U		
for display as	screens.		
cascaded sets of	Prompts		
linked graphical	Ex. $1027 \text{ at } 3-7.$		
user interface	Mary pressed (Salads) by mistake on her main food and beverage touchscreen. Luckily, there is a [Previous Screen] key programmed on the		
screens	SLU screen that is generated by [Salads]. When Mary presses [Previous Screen], the Main Food and Beverage Touchscreen is displayed again. This scenario is illustrated below.		
appropriate for	TACO CEASAR CALAMARI CHEFS PAGE		
a customized	SALAD SALAD SALAD SALAD UP		
display layout	SALAD SALAD SALAD SALAD DOWN		
of at least two	POTATO SHRIMP ROMAINE SEAFOOD VOID SALAD SALAD SALAD Prev Scrn		
different	1 - Press key		
wireless	ТЕНОЕРБ		
handheld	SALADS ENTREES DISCOUNTIGERY Service Print		
computing	APPS SANDWCH UNS INCCEEDURE 7 8 9 UNS REPORTS 4 5 6		
device display	SOUPS SPECIAL FUNCTION KEYS 1 2 3		
sizes in the	$F_{\rm Y} = 1027 \text{ at } 2.8$		
same connected	Director teaches generating sustemized display layouts with		
system, and	Digestor teaches generating customized display layouts with		
	cascaded sets of linked user interface screens for wireless		
	nanoneid devices that have varying screen sizes:		
	Digestor is a software system which automatically re-authors		
	arbitrary documents from the world-wide web to display		
	appropriately on small screen devices such as PDAs and collular phones, providing devices independent access to the		
	web Digestor is implemented as an HTTP provy which		
	dynamically re-authors requested web pages using a houristic		
	planning algorithm and a set of structural page transformations		
	to achieve the best looking document for a given display size "		
	Fx 1022 at 1075: see also id at 1077 ("The contents of each		
wherein the system is further enabled to automatically format the programmed handheld menu configuration for display as cascaded sets of linked graphical user interface screens appropriate for a customized display layout of at least two different wireless handheld computing device display sizes in the same connected system, and	As discussed above, the Micros 8700 UM discloses displaying cascaded sets of linked graphical user interface screens appropriate for the customized display layout of an HHT: Previous Screen  Frevious Screen  F		

Claim 1	Micros 8700 Pub and Digestor	
	section is elided from the document and the section header is converted into a hypertext link which, when selected, loads the elided content."). <i>See also</i> Ex. 1002 ¶¶ 624-27.	

A POSITA would have understood that the Micros 8700 Pub disclosed generating customized display layouts for devices of various screen sizes, such as User Workstations and HHTs. Ex. 1002 ¶ 627. It would have been obvious to a POSITA to generate customized display layouts for other types of handheld devices, as disclosed for example in Digestor, to enable the Micros 8700 HMS system to work with the various types of portable handheld devices available in the market. *See, e.g.* Ex. 1022 at 1075 (describing various devices) and Ex. 1002 ¶ 627.

Claim 1	Micros 8700 Pub and Digestor
wherein a	The Micros 8700 UM discloses different user interface layouts
cascaded set of	with different numbers of user interface screens for various
linked	types of devices, including user workstations and HHT devices:
graphical user	"The HHT's LCD touchscreen displays 12 lines of 20 to 30
interface	characters. (It varies because a proportional font is used.) The
screens for a	touchscreen overlay features 8 columns by 5 rows, for a total of
wireless	up to 40 touchscreen keys. Two character sizes are available
handheld	for key legends." Ex. 1027 at 1-15.
computing	"The Screen Display displays transaction information during
device in the	POS Operations. The same screen format is used by the
system	UWS/1 and UWS/2. The UWS/3 has a slightly different
includes a	format which provides the same information." Ex. 1027 at 1-7.
different	The HHT and User Workstations "require[] different steps and

Claim 1	Micros 8700 Pub and Digestor
number of user	different keys than those described [in the User Manual]." Ex.
interface	1027 at 2-19.
screens from at	Digestor discloses customizing the display of information for
least one other	devices, including the number of user interface screens, based
wireless	on the screen size of the device:
handheld	"Digestor is a software system which automatically re-authors
computing	arbitrary documents from the world-wide web to display
device in the	appropriately on small screen devices such as PDAs and
system.	cellular phones, providing device independent access to the
	web. Digestor is implemented as an HTTP proxy which
	dynamically re-authors requested web pages using a heuristic
	planning algorithm and a set of structural page transformations
	to achieve the best looking document for a given display size."
	Ex. 1022 at 1075. See also Ex. 1002 ¶¶ 628-34.

A POSITA would have understood that the Micros 8700 UM disclosed generating customized display layouts for devices of various screen sizes, such as User Workstations and HHTs. Ex. 1002 ¶ 634. It would have been obvious to a POSITA to generate customized display layouts with different numbers of user interface screens for other types of handheld devices with different display sizes, as disclosed in Digestor, to enable the Micros 8700 HMS system to work with such other handheld devices. *See, e.g.*, Ex. 1022 at 1075 (describing various PDAs, including the Sony MagicLink, Apple Newton, Nokia 9000 Communicator); Ex. 1002 ¶ 634.

Claim 2	Micros	8700	Pub	and
	Digestor			
2. The information management and	See claim	n 1 prea	amble a	above.
synchronous communications system in	See also E	Ex 1002	¶ 635.	
accordance with claim 1,				

Claim 2	Micros 8700 Pub and Digestor		
wherein the	The Micros 8700 UM discloses an HMS system with common		
system is	linked components enabled to communicate with each other:		
further enabled	"The 8700 is an integrated Point-Of-Sale (POS) system		
by a	comprising modular hardware and flexible, user-configured		
communications	software. In addition to POS operations, the 8700 System also		
systemic	provides:		
relationship	<ul> <li>Printing and Video Display Requisition</li> </ul>		
providing a	<ul> <li>Sales and Cost Reporting</li> </ul>		
common, linked	• Labor Scheduling and Time Keeping		
system	• Interfaces to third-party peripheral equipment and		
comprising:	software, including Property Management Systems.		
	An 8700 System includes personal computer(s), User		
	Workstations, printers, peripheral devices, and software. The		
	8700's modular design allows great flexibility in configuring a		
	system that is both cost effective and functional." Ex. 1027 at		
	1-2. See also Ex. 1002 ¶¶ 636-37.		
a) A Wireless	The Micros 8700 UM discloses a base station transmitting		
Hub	information to the HHTs:		
Application;	"The HHT communicates by radio frequency with a Base		
	Station, which is cabled to an LCC or RCC in one of the PCs		
	in an 8700 System. The HHT transmits posting and		
	transaction information to the Base Station (BST), and the		
	BST transmits guest check information and database		
	modifications to the HHT." Ex. 1027 at 1-15. See also Ex.		
	1002 ¶¶ 638-39.		
b) A Web Hub	The Micros 8700 UM discloses a base station connected to a		
Application;	PC which includes networking capabilities:		
	The Micros PC workstation "functions both as a PC and a		
	User Workstation" and includes networking functionalities		
	such as "Ethernet 10BaseT and 10Base2 interfaces. Using the		
	MICROS LAN card allows the expansion slot to also be used		
	for other functions, such as serial interfaces, modems, SCSI		
	interface, or multimedia." Ex. 1027 at 1-12.		
	Digestor discloses that "automatic reauthoring can be		
	performed either on the client, on the server, or on an		
	intermediary HTTP proxy server" Ex. 1022 at 1076		
	(emphasis added). See also Ex. 1002 ¶¶ 640-43.		

The PC Workstation sits in the center of the Micros System allowing the user workstations, HHTs, and base stations to remain in synchronous communication. Ex. 1027 at 1-2. To the extent that the PC workstation was not already capable of connecting to the Web (or internet), a POSITA would have found it obvious to connect the PC workstation to the internet and to configure it to act as a web hub (i.e., a web server) as disclosed in Digestor for the Micros System. Ex. 1002 ¶ 643; *see also* Ex. 1027 at 1-2. A POSITA would have been motivated to do so to provide the capability of accepting orders and purchases via the internet. Ex. 1002 ¶ 643.

Claim 2	Micros 8700 Pub and Digestor		
c) Linked Databases	The Micros 8700 UM discloses linked databases between		
between two or more	multiple hospitality software applications including at least		
different Hospitality	two of restaurant point of sale systems (see Ex. 1027 at 1-		
Applications; and	3), or reservations, or waitlists (e.g. order waiting line (see		
	Ex. 1027 at B-30)), or frequent customer or ticketing		
	programs (see Ex. 1027 at 4-1 to 4-60).		
	"The System Configurator module is an integral part of the		
	8700 System, providing: the means to create and edit the		
	database files that define the parameters of the system-to		
	program the restaurant's operation into the system." Ex.		
	1027 at 1-2. See also, Ex. 1012 (Jan. 20, 2010 Final		
	Rejection) at 784-85. See also Ex. 1002 ¶¶ 644-45.		
d) A	Micros discloses prompts and messages used for		
Communications	communications between various components of the		
Setup Application.	system:		
	"UWS prompts and messages are features of the 8700		
	System that make it easy to learn and to use, by providing		
	the operator with instructions or information. The most		
	common may be divided into four types Additional		

Claim 2	Micros 8700 Pub and Digestor		
	prompts may include the following:		
	• Communications Messages may display, to describe		
	communication conditions that exist between the		
	UWS and other devices in the 8700 System."		
	Ex. 1027 at Appendix at A-2.		
	<i>See also</i> Ex. 1002 ¶¶ 646-48.		

A POSITA would have understood that each UWS included a

Communications Setup Application to initiate communication between the UWS

and other components of the system. Ex. 1002 ¶ 648.

Claim 3	Micros	8700	Pub
	and Dig	estor	
3. The information management and real time synchronous	See	claim	1
communications system in accordance with claim 1,	preamble	e above	. See
	also 1002	2¶649.	

Claim 3	Micros 8700 Pub and Digestor
wherein the	The MICROS 8700 UM discloses the ability to "import[] and
information	export[] data into and out of the 8700 database." Micros 8700 UM at
from the	xix. Micros 8700 UM further discloses:
POS	"The SQL module provides an industry standard set of commands
database is	that allow you to define, display, and update 8700 database
automatical	information in tables (similar to a typical spreadsheet). These
ly imported	commands also allow you to import database information into many
into the	accounting packages as well as standard database applications like
system.	dBase IV. The Unix cron command allows SQL commands to be
	executed at specified dates and times. Thus, updates to the 8700
	database can be performed unattended." Micros 8700 UM at 1-3.
	<i>See also</i> Ex. 1002 ¶¶ 650-52.

A POSITA would have understood that the database importing functionality

of the Micros system as well as the ability of the updates to "be performed unattended" would mean that the POS database would be automatically imported

into the system. Ex.  $1002 \ \mbox{\ensuremath{0}} 652$ .

Claim 4	Micros 8700 Pubs and Digestor
4. The information management and real	See claim 1 preamble above.
time synchronous communications system	See also, Ex. 1012 (Jan. 20, 2010
in accordance with claim 1, wherein the	Final Rejection) at 784-85 and 802-03
said Hospitality Applications include at	citing Ex. 1027 at B-30.
least reservations applications.	<i>See also</i> Ex. 1002 ¶¶ 653-55.

A POSITA would have found it obvious to include reservation applications

such as the reservation application of Ex. 1029 in the Micros system because reservations are commonly used in restaurant services around the world. Ex. 1002

Claim 5	Micros 8700 Pub and Digestor
5. The information management and	See claim 1 preamble above. See also,
real time synchronous	Ex. 1012 (Jan. 20, 2010 Final Rejection)
communications system in accordance	at 784-85 and 802-03 citing Ex. 1027 at
with claim 1, wherein the said	Chapter 4 and 1-2.
Hospitality Applications include at	<i>See also</i> Ex. 1002 ¶¶ 656-58.
least a Ticketing applications.	

A POSITA would have found it obvious that the Micros system includes ticketing applications because the guest checks are similar to tickets and checks at restaurants have been referred to synonymously with tickets. *See* Ex. 1054; *see also* Ex. 1002  $\P$  658.

Claim 6		Micros 8700	Pub and
		Digestor	
6. The information management and real time		See claim 1	preamble
synchronous communications system in accordance with		above. See	also Ex.
claim 1		1002 ¶¶ 659.	
in which the wireless	Digestor discloses display of	content on sma	rtphones,

Claim 6	Micros 8700 Pub and		
	Digestor		
handheld computing	such as the Nokia 9000 Communicator:		
device is a smart phone.	"General Magic's Presto!Links for Sony's MagicLink,		
	AllPen's NetHopper for the Newton and Sharp's MI-10		
	(shown to the right), all provide WWW browsers for		
	PDA class devices, while the Nokia 9000		
	Communicator and Samsung's Duett provide web		
	access capabilities from cellular phones." Ex. 1022 at		
	1075. See also Ex. 1002 ¶¶ 660-62.		

A POSITA would have found it obvious to use a smart phone such as those

disclosed by Digestor in place of the Micros HHT. Ex. 1002 ¶ 662. A reason for

doing so is the cost reduction associated with using off-the-shelf smart phones

rather than developing a custom hand held terminal such as the Micros HHT. Id.

Claim 7	Micros 8700 Pub and Digestor		
7. The information management	The Micros 8700 UM discloses a handheld		
and real time synchronous	device capable of payment processing		
communications system in	including billing, status, and payment		
accordance with claim 1, further	information. For example, the Micros 8700		
enabled to facilitate and complete	UM discloses an HHT that can "tender		
payment processing directly from	checks" (i.e. process payment) via cash,		
the wireless handheld computing	credit card or room charge. See Ex. 1027 at		
device including: a) Billing; b)	b) Chapter 9; Ex. 1012 (Jan. 20, 2010 Final		
Status and c) Payment	Rejection) at p 788-89. See also Ex. 1002		
Information.	¶¶ 663-66.		
Claim 8	Micros 8700 Pub and		
	Digestor		
8. The information management an	nd real time See claim 1 preamble		
synchronous communications syste	em in accordance above. See also Ex.		
with claim 1,	1002 ¶ 667.		

Claim 8	Micros 8700 Pub and Digestor
wherein one or	The Micros 8700 UM discloses a HHT wherein the layout,
more of the layout,	views, and fonts are created in conformity with the display

views or fonts of	screen parameters of the device.	
the programmed	"The HHT's LCD touchscreen displays 12 lines of 20 to 30	
handheld menu	characters. (It varies because a proportional font is used.)	
configuration are	The touchscreen overlay features 8 columns by 5 rows, for	
created in	a total of up to 40 touchscreen keys. Two character sizes	
conformity with	are available for key legends." Ex. 1027 at 1-15.	
the display screen	"Digestor is a software system which automatically re-	
parameters of the	authors arbitrary documents from the world-wide web to	
wireless handheld	display appropriately on small screen devices such as	
computing device	PDAs and cellular phones." Ex. 1022 at 1075. See also	
and	Ex. 1002 ¶¶ 668-70.	

Claim 8	Micros 8700 Pub and Digestor		
wherein the system is enabled to	See claim 1 "wherein clause" at 32-33		
generate a view of the programmed	above.		
handheld menu configuration for user	The Micros 8700 UM discloses that		
preview from the central computing	changes can be made to the system		
unit and which facilitates a further user	database using either UWS (user		
manual modification prior to the	workstation) Procedures or the System		
transmissions of the programmed	Configurator. Ex. 1027 at 11-2. These		
handheld menu configuration to the	database changes include changes to		
wireless handheld computing device.	menu items. <i>Id.</i> at 11-2, 11-22 – 11-30.		
	<i>See also</i> Ex. 1002 ¶¶ 671-72.		

It would have been obvious to a POSITA to display a preview of a display of

both a user workstation and a hand held terminal to a user before the changes were distributed throughout the system as it was a common practice for HTML editors to allow a preview of a modified web page prior to placement of the modified web page on a server for further dissemination at the time of the '077 patent. Ex. 1002 ¶ 672; Ex. 1067 at 17-20.

Claim 9	Micros 8700 Pub and Digestor		
9. An information management and real time	See Claim 1 preamble. See also		
synchronous communications system for	Ex. 1002 ¶¶ 567-71.		

Patent No. 8,146,077

Petition for Covered Business Method Review

Claim 9		Micros 8700 Pub and Digestor			
configuring and transmitting hospitality					
menus comprising	:				
a. a central process	sing unit,	See Claim 1.a. See also Ex.			
		1002 ¶¶ 572-74.			
b. a data storage de	evice connected to said	See Claim 1.b. See also Ex.			
central processing unit,		1002 ¶¶ 575-80.			
c. an operating sys	stem including a first	See Claim 1.c. See also Ex.			
graphical user interface,		1002 ¶¶ 581-85.			
said operating	The Micros 8700 UM dis	closes a personal computer User			
system	Workstation running the Unix operating system.				
configured to	"The 8700 System includes personal computer(s), User				
interoperate with	Workstations, printers, peripheral devices, and software. The				
the central	8700's modular design allows great flexibility in configuring				
processing unit,	a system that is both cost effective and functional. Further,				
the data storage	the 8700 provides multitasking and multi-user capability				
device and	through the Unix operating system." Ex. 1027 at 1-2. See				
application	<i>also</i> Ex. 1002 ¶¶ 677-79.				
software;					

A POSITA would understand that the Unix operating system interoperates

with the central processing unit and data storage device on the device, as well as

application software running on the device. Ex.  $1002 \ \mbox{\sc f} 679$ .

Claim 9	Micros 8700 Pub and	
	Digestor	
d. a master menu including menu categories,	1.d. See also Ex. 1002 ¶¶	
and menu items	586-89.	
wherein said master menu is capable of being	See Claim 1.d. "wherein	
stored on said data storage device pursuant to a	clause" at p 29-30 above;	
master menu file structure and	See also Ex. 1002 ¶¶ 590-	
	93.	
said master menu is capable of being configured	See Claim 1.d. "wherein	
for display to facilitate user operations in at least	clause" at 30 above; See	
one window of said first graphical user interface as	<i>also</i> Ex. 1002 ¶¶ 594-96.	
cascaded sets of linked graphical user interface		
screens; and		

Claim 9	Micros 8700 Pub and Digestor		
e. a modifier	Micros 8700 UM discloses a menu including menu categories,		
menu capable	menu items, and modifiers such as condiments.		
of being	"Post Condiments Many menu items are programmed to require		
stored on said	or allow condiments. The term "condimen	t" includes anything	
data storage	that may modify a menu item-accomp	animents, toppings,	
device, and	dressing, preparation instructions, etc. You will be prompted		
	for required condiments, but not for condim	ents that are allowed	
	(not required)." Ex. 1027 at 5-22. See also	claim 9.d regarding	
	data storage device; Ex. 1002 ¶¶ 683-84	4 and "Condiments	
	requiring other condiments" at Ex. 1027 at 5	5-2.	
menu configura	tion software enabled to automatically	See Claim 1.e. See	
generate a progr	cammed handheld menu configuration from	<i>also</i> Ex. 1002	
said master men	u for display on a wireless handheld	¶¶ 597-99.	
computing device	ce,		
said programme	ed handheld menu configuration comprising	See Claim 1 above	
at least menu ca	tegories, menu items and modifiers and	at 31. See also Ex.	
		1002 ¶¶ 600-03.	
wherein the mer	nu configuration software is enabled to	See Claim 1 above	
generate said pr	ogrammed handheld menu configuration by	at 31-32. See also	
utilizing parame	eters from the master menu file structure	Ex. 1002 ¶¶ 586-	
defining at least the categories and items of the master		59; 608-14; and	
menu and modifiers from the modifier menu at least the		687-89.	
menu categories, menu items and modifiers comprising the			
programmed has	ndheld menu configuration are		
synchronized in	real time with analogous information		
comprising the	comprising the master and modifier menus		
wherein the mer	wherein the menu configuration software is further enabled See Claim 1 above		
to generate the p	programmed handheld menu configuration	at 32-33. <i>See also</i>	
in conformity with a customized display layout unique to		Ex. 1002 ¶¶ 604-	
the wireless handheld computing device to facilitate user		14.	
operations with			
menu configuration on the display screen of a handheld			
graphical user interface integral with the wireless handheld			
computing device,			
wherein said customized display layout is compatible with		See Claim 1 above	
the displayable size of the handheld graphical user		at 33. See also Ex.	
interface,		1002 ¶¶ 608-14.	

wherein the programmed handheld menu configuration is		See Claim 1 above
configured by the menu configuration software for display		at 34. See also Ex.
as cascaded sets of linked graphical user interface screens		1002 ¶¶ 615-17.
appropriate for the customized display layout of the		
wireless handheld computing device,		
wherein said cascaded sets of linked graphical user		See Claim 1 above
interface screens for display of the programmed handhe	eld	at 35. See also Ex.
menu configuration are configured differently from the		1002 ¶¶ 618-21.
cascaded sets of related graphical user interface screens	for	
display of the master menu on said first graphical user		
interface, and		
wherein the system is enabled for real time synchronou	S	See Claim 1 above
communications to and from the wireless handheld		at 36-37. See also
computing device utilizing the programmed handheld n	nenu	Ex. 1002 ¶¶ 622-
configuration including the capability of real time		23.
synchronous transmission of at least the menu categorie	es,	
menu items and modifiers comprising the programmed		
handheld menu configuration to the wireless handheld		
computing device and real time synchronous transmissi	ons	
of selections made from the handheld menu configurati	on	
on the wireless handheld computing device, and		
wherein the system is further enabled to automatically		See Claim 1 at 37-
format the programmed handheld menu configuration f	or	38. See also Ex.
display as cascaded sets of linked graphical user interfa	ce	1002 ¶¶ 624-27.
screens appropriate for a customized display layout of a	ıt	
least two different wireless handheld computing device		
display sizes in the same connected system, and		
wherein a cascaded set of linked graphical user interface		See Claim 1 above
screens for a wireless handheld computing device in the		at 38-39. See also
system includes a different number of user interface		Ex. 1002 ¶¶ 628-
screens from at least one other wireless handheld		34.
computing device in the system.		
Claim 10 Mic		os 8700 Pub and
Dige		stor
The information management and real time See		Claims 2 and 9
synchronous communications system in accordance prea		mble. See also Ex.
with claim 9, further including a communications 1002		¶ 697.
systemic relationship comprising:		
a) A Wireless Hub Application; See		Claim 2.a. See also

Г

Patent No. 8,146,077 Petition for Covered Business Method Review

		]	Ex. 10	002 ¶¶ 638	8-39.
b) A Web Hub Application;			See Claim 2.b. See also		
		]	Ex. 10	002 ¶¶ 640	)-43.
c) Linked Databases Between two or more different		fferent	See C	Claim 2.c.	See also
Hospitality Applicat	tions; and	]	Ex. 10	002 ¶¶ 644	1-45.
d) A Communications Setup Application.		See C	Claim 2.d.	See also	
Ex.		Ex. 10	002 ¶¶ 646	5-48.	
Claim 11 Micros 8700		700 P	ub and D	igestor	
11. The information	management and real	See claim	claim 9 preamble. See also		
time synchronous co	ommunications system	Ex. 1002 ¶ 702.			
in accordance with c	claim 9,				
wherein at least	Micros 8700 UM disc	loses an "	integr	rated Poin	nt-Of-Sale
two different	(POS) system comprisi	ng modula	r har	dware and	l flexible,
hospitality	user-configured softwar	e." Ex. 1	027 a	at 1-2. Th	ne system
software	includes at least two	hospitality	y app	olications	for such
applications are	operations as "Labor S	cheduling a	and T	Time Keep	ing" (Ex.
integrated between	1027 at 1-2), order pr	ocessing (	Ex. 1	1027 at cl	h. 4) and
and with one	payment processing (Ex	. 1027 at c	ch. 9).	See also	Ex. 1002
anothar	¶ 703				
another.	105.				
Claim 12	105.			Micros 8	700 Pub
Claim 12				Micros 8 and Dige	700 Pub estor
Claim 12 12. The information	management and real tim	e synchror	nous	Micros 8 and Dige See claim	<b>700 Pub</b> estor 1 3. <i>See</i>
Claim 12 12. The information communications sys	management and real tim stem in accordance with c	e synchror laim 9,	ious	Micros 8 and Dige See claim <i>also</i> Ex.	<b>700 Pub</b> estor 1 3. <i>See</i> 1002
Claim 1212. The information communications sys wherein the system of	management and real timestem in accordance with calles automatic importation	ne synchror laim 9, ation of the	nous	Micros 8 and Dige See claim <i>also</i> Ex. 1 ¶¶ 704.	<b>700 Pub</b> estor 1 3. <i>See</i> 1002
Claim 12 12. The information communications sys wherein the system POS database inform	management and real timestem in accordance with callenables automatic important in the system.	ne synchror laim 9, ation of the	nous	Micros 8 and Dige See claim <i>also</i> Ex. 1 ¶¶ 704.	<b>700 Pub</b> estor 1 3. <i>See</i> 1002
Claim 12 12. The information communications sys wherein the system POS database inforr Claim 13	management and real tim stem in accordance with cl enables automatic importanation into the system. Micros 8700 Pub and D	ne synchror laim 9, ation of the <b>Digestor</b>	ious	Micros 8 and Dige See claim <i>also</i> Ex. 1 ¶¶ 704.	<b>700 Pub</b> estor 1 3. <i>See</i> 1002
Claim 12 12. The information communications sys wherein the system POS database inform Claim 13 13. An	management and real time stem in accordance with content enables automatic important nation into the system. Micros 8700 Pub and D The Micros 8700 UM di	ne synchron laim 9, ation of the <b>Digestor</b> scloses an	nous	Micros 8 and Dige See claim <i>also</i> Ex. ¶¶ 704.	700 Pub estor 1 3. See 1002 nagement
Claim 12 12. The information communications sys wherein the system POS database inforr Claim 13 13. An information	management and real timestem in accordance with caller enables automatic importantion into the system. Micros 8700 Pub and D The Micros 8700 UM diand real time synchronomic	ne synchron laim 9, ation of the <b>Digestor</b> scloses an pous commu	inforr	Micros 8 and Dige See claim <i>also</i> Ex. 1 ¶¶ 704. mation ma	700 Pub estor 1 3. See 1002 nagement m for use
Claim 12 12. The information communications sys wherein the system POS database inform Claim 13 13. An information management and	management and real timestem in accordance with caller enables automatic importantion into the system. Micros 8700 Pub and D The Micros 8700 UM diand real time synchronoc with wireless handheld	ne synchron laim 9, ation of the <b>Digestor</b> scloses an bus commu computing	inforr inicati g devi	Micros 8 and Dige See claim <i>also</i> Ex. 1 ¶¶ 704. mation mations system ices and m	700 Pub estor 1 3. <i>See</i> 1002 nagement m for use networked
Claim 12 12. The information communications sys wherein the system of POS database inform Claim 13 13. An information management and real time	management and real timestem in accordance with caller enables automatic importantion into the system. Micros 8700 Pub and D The Micros 8700 UM diand real time synchrono with wireless handheld PC workstations. Ex. 10	ne synchron laim 9, ation of the <b>Digestor</b> scloses an ous commu computing 27 at 1-2 to	inforr inicati g devi o 1-4,	Micros 8 and Dige See claim <i>also</i> Ex. 1 ¶¶ 704. mation mations system ices and m 1-12.	700 Pub estor 1 3. <i>See</i> 1002 nagement m for use networked
Claim 12 12. The information communications sys wherein the system POS database inform Claim 13 13. An information management and real time synchronous	management and real timestem in accordance with calculation into the system. Micros 8700 Pub and D The Micros 8700 UM diand real time synchronomic with wireless handheld PC workstations. Ex. 10 The Micros PC worksta	ne synchron laim 9, ation of the <b>Digestor</b> scloses an computing 27 at 1-2 to tion "funct	inforr nous inforr nicati g devi to 1-4, tions	Micros 8 and Dige See claim <i>also</i> Ex. 1 ¶¶ 704. mation mations system ices and m 1-12. both as a	700 Pub estor 1 3. See 1002 nagement m for use networked PC and a
Claim 12 12. The information communications sys wherein the system of POS database inform Claim 13 13. An information management and real time synchronous communications	management and real timestem in accordance with cales automatic importantion into the system. Micros 8700 Pub and D The Micros 8700 UM diand real time synchronor with wireless handheld PC workstations. Ex. 10 The Micros PC workstation" and	ne synchron laim 9, ation of the <b>Digestor</b> scloses an ous commu computing 27 at 1-2 to tion "funct includes no	inforr inicati g devi o 1-4, tions	Micros 8 and Dige See claim also Ex. 1 ¶¶ 704. nation ma ions system ices and m 1-12. both as a king funct	700 Pub estor 1 3. See 1002 nagement m for use networked PC and a tionalities
Claim 12 12. The information communications sys wherein the system POS database inform Claim 13 13. An information management and real time synchronous communications system for use	management and real timestem in accordance with calenables automatic importantion into the system. Micros 8700 Pub and D The Micros 8700 UM diand real time synchronoco with wireless handheld PC workstations. Ex. 10 The Micros PC workstat User Workstation" and such as "Ethernet 10Ba	tion of the bigestor scloses an computing 27 at 1-2 to tion "funct includes no seT and 10	inforr nous inforr nicati g devi o 1-4, ions etwor 0Base	Micros 8 and Dige See claim also Ex. 1 ¶¶ 704. mation ma ions system ices and m 1-12. both as a king functed interface	700 Pub estor 1 3. See 1002 nagement m for use networked PC and a tionalities ces." Ex.
Claim 12 12. The information communications sys wherein the system of POS database inform Claim 13 13. An information management and real time synchronous communications system for use with wireless	management and real time stem in accordance with con- enables automatic importa- nation into the system. Micros 8700 Pub and D The Micros 8700 UM di and real time synchrono with wireless handheld PC workstations. Ex. 10 The Micros PC worksta User Workstation" and such as "Ethernet 10Ba 1027 at 1-12.	ne synchron laim 9, ation of the <b>Digestor</b> scloses an ous commu computing 27 at 1-2 to tion "funct includes no seT and 10	inforr inicati g devi o 1-4, tions etwor 0Base	Micros 8 and Dige See claim also Ex. 1 ¶¶ 704. mation ma ions system ices and m 1-12. both as a king functed interfact	700 Pub estor 1 3. See 1002 nagement m for use networked PC and a tionalities ces." Ex.
Claim 12 12. The information communications sys wherein the system of POS database inform Claim 13 13. An information management and real time synchronous communications system for use with wireless handheld	management and real timestem in accordance with calenables automatic importanation into the system. Micros 8700 Pub and D The Micros 8700 UM diand real time synchrono with wireless handheld PC workstations. Ex. 10 The Micros PC workstat User Workstation" and such as "Ethernet 10Ba 1027 at 1-12. Digestor discloses w	te synchron laim 9, ation of the <b>Digestor</b> scloses an computing 27 at 1-2 to tion "funct includes no seT and 10 rireless ha	inforr inforr inicati g devi o 1-4, tions etwor 0Base andhe	Micros 8 and Dige See claim also Ex. 1 ¶¶ 704. mation mations system ices and m 1-12. both as a king functed interfacted eld device	700 Pub estor 1 3. See 1002 nagement m for use networked PC and a tionalities ees." Ex.
Claim 12 12. The information communications system POS database inform Claim 13 13. An information management and real time synchronous communications system for use with wireless handheld computing devices	management and real time stem in accordance with content enables automatic importantion into the system. Micros 8700 Pub and D The Micros 8700 UM di and real time synchrono with wireless handheld PC workstations. Ex. 10 The Micros PC worksta User Workstation" and such as "Ethernet 10Ba 1027 at 1-12. Digestor discloses we capabilities to connect to	ne synchron laim 9, ation of the <b>Digestor</b> scloses an ous commu computing 27 at 1-2 to tion "funct includes no seT and 10 rireless has to the inter	inforr inicati g devi o 1-4, ions 1 etwor 0Base andhe rnet.	Micros 8 and Dige See claim also Ex. 1 ¶¶ 704. mation ma ions system ices and m 1-12. both as a king funct e2 interfact eld devict Ex. 1022	700 Pub estor 1 3. See 1002 nagement m for use networked PC and a tionalities ces." Ex. ces with at 1076.
Claim 12 12. The information communications sys wherein the system of POS database inform Claim 13 13. An information management and real time synchronous communications system for use with wireless handheld computing devices and the internet	management and real timestem in accordance with calenables automatic importanation into the system. Micros 8700 Pub and D The Micros 8700 UM diand real time synchrono with wireless handheld PC workstations. Ex. 10 The Micros PC workstat User Workstation" and such as "Ethernet 10Ba 1027 at 1-12. Digestor discloses was capabilities to connect to See also Ex. 1002 ¶¶ 705	te synchron laim 9, ation of the <b>Digestor</b> scloses an computing 27 at 1-2 to tion "funct includes no seT and 10 rireless has to the inter 5-08.	inforr inicati g devi o 1-4, tions etwor 0Base andhe rnet.	Micros 8 and Dige See claim also Ex. 1 ¶¶ 704. mation ma ions system ices and m 1-12. both as a king funct e2 interfact eld devic Ex. 1022	700 Pub estor 1 3. See 1002 nagement m for use networked PC and a tionalities ces." Ex. ces with at 1076.

A POSITA would have found it obvious to combine the Micros system with the internet-capable devices disclosed in Digestor because it would have provided more inclusive networking capabilities, including internet connections, to the Micros system. Ex. 1002 ¶ 708.

Claim 13	Mic	eros 8700 Pub and Digestor
a) a master	The	Micros 8700 UM discloses a database configured to store
database	info	rmation relating to the restaurant pursuant to a master
connected in	data	base file structure.
said system	"Th	e SQL module provides an industry standard set of
and	com	mands that allow you to define, display, and update 8700
configured to	data	base information in tables (similar to a typical spreadsheet).
store	The	se commands also allow you to import database information
hospitality	into	many accounting packages as well as Standard database
application	app	lications like dBase IV. The Unix cron command allows
information	SQI	commands to be executed at specified dates and times.
pursuant to a	Thu	s, updates to the 8700 database can be performed
master	una	ttended." Ex. 1027 at 1-3.
database file	See	also "Master Item Menu File" at Ex. 1027 at D-33 to D-35;
structure;	Ex.	1012 (Jan. 20, 2010 Final Rejection) at 791. See also Ex.
	100	2 ¶¶ 709-11.
b) at least one		The Micros 8700 UM discloses a wireless handheld
wireless handhe	eld	touchscreen ("HHT") device capable of displaying
computing devi	ce	hospitality information, such as restaurant menus.
connected in sai	id	"The HHT is a portable User Workstation. Like the
system and		UWS/3, it contains an 8700 Revenue Center database.
configured to		Using the HHT, an operator can post orders, close guest
display said		checks, and perform almost every other operation that is
hospitality		available on a UWS" See Ex. 1027 at Micros 1-15.
application		See also Ex. 1002 ¶¶ 712-14. See also, Ex. 1012 (Jan. 20,
information;		2010 Final Rejection) at 792.
c) at least one w	/eb	Digestor discloses a web server. "automatic reauthoring
server connecte	d in	. can be performed either on the client, on the <u>server</u> , or on
said system;		an intermediary HTTP proxy server" Ex. 1022 at
		1076 (emphasis added). See also Ex. 1002 ¶¶ 715-16.

A POSITA would have found it obvious to combine the Micros 8700 system

with Digestor to enable access to the Micros 8700 system over the internet. Ex.

1002 ¶ 716.

Claim 13	Micros 8700 Pub and Digestor
d) at least one web	Digestor discloses web pages, which may be configured to
page connected in	display hospitality information.
said system and	"Digestor is a software system which automatically re-
configured to	authors arbitrary documents from the world-wide web to
display said	display appropriately on small screen devices such as
hospitality	PDAs and cellular phones, providing device-independent
application	access to the web." Ex. 1022 at 1075. See also Ex. 1002
information; and	¶¶ 717-19.

A POSITA would have found it obvious to combine the Micros 8700 system

with Internet technology as disclosed in Digestor to enable access to the Micros

8700 system over the internet. Ex.  $1002 \ \mbox{\P}$  719.

Claim 13	Micros 8700 Pub and Digestor
e) real time	The Micros 8700 UM discloses software for
communications	synchronizing restaurant menu information between the
control software	master database, user workstations and wireless
enabled to link and	handheld devices, such that substantially the same
synchronize hospitality	information is capable of being displayed on each
application information	device.
simultaneously	"The 8700 is an integrated Point-Of-Sale (POS) system
between the master	comprising modular hardware and flexible, user-
database, wireless	configured software An 8700 System includes
handheld computing	personal computer(s), User Workstations, printers,
device, web server and	peripheral devices, and software." Ex. 1027 at 1-2.
web page, wherein the	"The HHT is a portable User Workstation. Like the
communications	UWS/3, it contains an 8700 Revenue Center database.
control software is	Using the HHT, an operator can post orders, close
enabled to utilize	guest checks, and perform almost every other operation
parameters from the	that is available on a UWS. Ex. 1027 at 1-15.

Claim 13	Micros 8700 Pub and Digestor
master database file	"The Special Count may be set for those Menu Items
structure to	that are programmed for limited availability (Menu
synchronize the	Item Class Type Definition #16 - Check Menu Item
hospitality application	Availability Before Allowing Sale - is set ON.) The
information in real	Special Count is reduced each time a Menu Item is
time between the	ordered. When the count reaches zero, the Menu Item
master database, at	automatically shifts to "Not Available"." Ex. 1027 at
least one wireless	11-28.
handheld computing	"The limited availability menu item feature allows you
device, at least one	to define menu items to have a limited quantity
web server and at least	available: After a programmed number of sales are
one web page such that	posted, the system indicates that the menu item is
substantially the same	unavailable when that menu item is entered. Example:
information comprising	at the beginning of his shift, the manager entered the
the hospitality	number of daily special s available during lunch, near
application information	the end of the lunch shift, Mary entered an order for
is capable of being	five daily specials. She received the system prompt:
displayed on the	"ONLY 4 DAILY SPECIAL REMAINING."
wireless handheld	Immediately after service totalling her check, her order,
computing device, at	George, tried to enter an order for the daily special and
least one web page and	received this message: "NO MORE DAILY SPECIAL
other display screens of	REMAINING."" Ex. 1027 at 5-13.
the synchronized	See also Ex. 1002 ¶¶ 720-26. See also, Ex. 1012 (Jan.
system, such that the	20, 2010 Final Rejection) at 792.
hospitality application	Digestor discloses "a software system that
information is	automatically re-authors arbitrary documents form the
synchronized between	world-wide web to display appropriately on small
any connected users,	screen devices." Ex. 1022 at 1075; Ex. 1002 ¶ 725.

A POSITA would have found it obvious to implement the Micros 8700 system using Internet technology, and combine it with Digestor's re-authoring technology to enable access to the Micros 8700 HMS over the Internet by wireless handheld devices and other client devices. Ex. 1002 ¶ 726.

Claim 13	Micros 8700 Pub and Digestor
----------	------------------------------

Petition for Covered Business Method Review

wherein the	The Micros 8700 UM discloses software enabled to act as a real
communicati	time interface between the components of the system and the
ons control	communications protocols used by those components.
software is	"The 8700 is an integrated Point-Of-Sale (POS) system
enabled to	comprising modular hardware and flexible, user-configured
act as a real	software. In addition to POS operations, the 8700 System also
time	provides An 8700 System includes personal computer(s), User
interface	Workstations, printers, peripheral devices, and software." Ex.
between the	1027 Micros at 1-2.
elements of	"The Special Count may be set for those Menu Items that are
the system	programmed for limited availability (Menu Item Class Type
and any	Definition #16 - Check Menu Item Availability Before Allowing
applicable	Sale - is set ON.) The Special Count is reduced each time a Menu
communicati	Item is ordered. When the count reaches zero, the Menu Item
ons protocol,	automatically shifts to "Not Available"." Ex. 1027 at 11-28.
	"The limited availability menu item feature allows you to define
	menu items to have a limited quantity available: After a
	programmed number of sales are posted, the system indicates that
	the menu item is unavailable when that menu item is entered.
	Example: at the beginning of his shift, the manager entered the
	number of daily special s available during lunch, near the end of
	the lunch shift, Mary entered an order for five daily specials. She
	received the system prompt: "ONLY 4 DAILY SPECIAL
	REMAINING." Immediately after service totaling her check, her
	order, George, tried to enter an order for the daily special and
	received this message: "NO MORE DAILY SPECIAL
	REMAINING."" Ex. 1027 at 5-13. See also Ex. 1002 ¶¶ 727-31.

A POSITA would have understood that the Micros 8700 operating software acted as a real-time interface between the components of the system (such as user workstations and HHTs) and the applicable communications protocols used by these devices, because the system is described as an integrated system capable of providing synchronized data (including, e.g. the count of available items) to the various devices in the system. Ex. 1002 ¶ 731. A POSITA would have found it

obvious to replicate this functionality when implementing the Micros 8700 HMS

using Internet technology. Id.

Claim 13	Micros 8700 Pub and Digestor			
wherein the	The Micros 8700 UM discloses displaying cascaded sets of			
communication	linked graphical user interface screens appropriate for the			
s control	customized display layout of an HHT:			
software is	Previous Screen			
further enabled	Prev. Pres. [Previous Screen]. Screen The last, user-defined touchscreen is displayed.			
to	Note			
automatically	If several screens have been displayed and you wish to go back two or more screens, press [Previous Screen] as many times as necessary			
format a	until the desired screen displays. However, note that [Previous Screen] disregards (or skips) SLU screens.			
programmed	Prompts Ex 1027 at 2.7			
handheld	None. EX. 1027 at 3-7.			
configuration	touchscreen. Luckily. there is a [Previous Screen] key programmed on the SLU screen that is generated by [Salads]. When Mary presses [Previous Screen], the Main Food and Beverage Touchscreen is displayed again.			
for display as	This scenario is illustrated below.			
cascaded sets	TACO CEASAR CALAMARI CHEFS PAGE SALAD SALAD SALAD SALAD UP			
of linked	CHIX FRUIT HOUSE PASTA PAGE SALAD SALAD SALAD SALAD DOWN			
graphical user	POTATO SHRIMP ROMAINE SEAFOOD VOID			
interface	SALAD SALAD SALAD Prev Scr			
screens	1- Press key     2- Previous screen displays			
appropriate for	SALADS ENTREES Service Print			
a customized				
display layout	APPS SANDWCH UWS REPORTS 4 5 6			
of at least two	SOUPS SPECIAL BHET 0 · Ex. 1007 of 2 9			
different	Digestor teaches generating customized display layouts with			
wireless	Digestor teaches generating customized display layouts with			
handheld	cascaded sets of linked user interface screens for wireless			
computing	"Dispater is a software system which sutematically re outhors			
device display	Digestor is a software system which automatically re-authors			
sizes in the	arbitrary documents from the world-wide web to display			
same	appropriately on small screen devices such as PDAs and			
connected	centuar phones, providing device independent access to the			
system, and	web. Digestor is implemented as an HIIP proxy which			
wherein a	algorithm and a set of structural page transformations			
cascaded set of	to achieve the best looking document for a given display size"			
linked	to achieve the best looking document for a given display size. $E_{\rm F}$ 1022 at 1075			
graphical user	EA. 1022 at 1073.			



A POSITA would have understood that the Micros 8700 UM disclosed generating customized display layouts for devices of various screen sizes, such as User Workstations and HHTs. Ex.  $1002 \ \mbox{\mb$ 

devices); Ex. 1002  $\P$  737. It would further have been obvious to a POSITA that the

different sizes of display screens on such devices would result in customized

layouts having different numbers of screens. Id.

Claim 13	Micros 8700 Pub and Digestor
wherein the system is enabled for real time synchronous transmission of the configured hospitality application information to the wireless handheld computing device, the web server and the web page and real time synchronous transmissions of inputs responding to the configured hospitality application information from the wireless handheld computing device, or the web server or the web page.	See Claim 1 wherein clause at p 36-37. See also Ex. 1002 ¶¶ 622- 23.

Claim 14	Micros 8700 Pub and
	Digestor
14. The information management and real time	See Claim 2 preamble
synchronous communications system in accordance	and claim 13. See also
with claim 13, further including a communications	Ex. 1002 ¶ 739.
systemic relationship comprising:	
a) A Wireless Hub Application;	See Claim 2.a. See also
	Ex. 1002 ¶¶ 638-39.
b) A Web Hub Application;	See Claim 2.b. See also
	Ex. 1002 ¶¶ 640-43.
c) Linked Databases Between two or more different	See Claim 2.c. See also
Hospitality Applications; and	Ex. 1002 ¶¶ 644-45.
d) A Communications Setup Application.	See Claim 2.d. See also
	Ex. 1002 ¶¶ 646-48.

Claim 15	Micros 8700 Pub and Digestor
15. The information management and real time	See Claims 3 and
synchronous communications system of claim 13, wherein	13. See also Ex.
the system is enabled to automatically import the	1002 ¶¶ 649-52.
information from the POS (point of sale) database into the	

system.	
Claim 16	Micros 8700 Pub
	and Digestor
16. The information management and real time	See Claims 4 and
synchronous communications system of claim 13, wherein	13. See also Ex.
at least two different hospitality applications are integrated	1002 ¶¶ 653-55.
between and with one another.	
Claim 17	Micros 8700 Pub
	and Digestor
17. The information management and real time	See Claims 5 and
synchronous communications system in accordance with	13. See also Ex.
claim 13, wherein the hospitality application information	1002 ¶¶ 656-58.
also includes the completion of payment processing.	
Claim 18	Micros 8700 Pub
	and Digestor
18. The information management and real time	See Claims 6 and
synchronous communications system in accordance claim	13. See also Ex.
13, wherein the configured wireless handheld computing	1002 ¶¶ 659-62.
device is a smart phone.	

# C. Challenge to Claims 13-18 Based on Blinn and Digestor.

U.S. Patent No. 6,058,373 to Blinn et al. ("Blinn") has a filing date of October 16, 1996 and an issue date of May 2, 2000. Blinn is incorporated by reference in U.S. Patent No. 5,897,622, which was filed on October 16, 1996 and issued on April 27, 1999. Ex. 1038 (the "622 patent"). The '622 patent is § 102(a) prior art, and by incorporating Blinn by reference makes Blinn available to the public as of April 27, 1999. 37 C.F.R. § 1.14(a)(vi) and MPEP § 103 (unpublished application incorporated by reference into issued patent is available to public upon written request). Accordingly, Blinn was "publicly available" when the '622 patent issued as it is a "printed publication" under § 102(a). See

*Bruckelmyer v. Ground Heaters, Inc.*, 445 F.3d 1374, 1377-78 (Fed. Cir. 2006) (holding an application referenced in a published patent is "publicly available" as a printed publication under § 102(b) even though the application was only available in the archives of the Canadian Patent Office).

### 1. PO's Declarations Do Not Antedate Blinn

As discussed above, PO made two attempts during prosecution of the '077 patent to antedate references by submitting inventor declarations. The examiner rejected the first attempt and did not address the second. PO cannot rely on these declarations to antedate Blinn for the following reasons.

#### a. Statement of the Relevant Law

A reference may be antedated by showing conception of the invention prior to the effective date of the reference, coupled with either (1) a reduction to practice prior to the effective date of the reference, or (2) diligence from a period just prior to the effective date of the reference through a reduction to practice. MPEP § 2138.06. The reduction to practice may be actual or constructive. *Brown v. Barbacid*, 436 F.3d 1376, 1379 (Fed. Cir. 2006); MPEP § 2138.05. To establish conception, an inventor must show possession of each claim limitation. *Coleman v. Dines*, 754 F.2d 353, 359 (Fed. Cir. 1985). Conception testimony must be corroborated. *Id.* A "rule of reason" analysis is applied to determine whether conception has been corroborated. *Id.* at 360.

During the period in which diligence must be shown, there must be a continuous exercise of reasonable diligence. *Garmin Int'l, Inc. v. Cuozzo Speed Techs. LLC*, IPR2012-00001, Paper No. 59 (PTAB 2013). A party alleging diligence must account for the entire critical period. *Griffith v. Kanamaru*, 816 F.2d 624, 626 (Fed. Cir. 1987); *Gould v. Schawlow*, 363 F.2d 908, 919 (CCPA 1966); MPEP § 2138.06. A lapse in diligence, however brief, defeats a claim of diligence. *See, e.g., In re Mulder*, 716 F.2d 1542, 1542-46 (Fed. Cir. 1983) (lack of reasonable diligence where no evidence provided for 2 day period); *D'Amico v. Koike*, 347 F.2d 867, 871 (CCPA 1965) (one month lapse); MPEP § 2138.06.

Corroboration is required to prove an inventor's alleged diligence. *In re Jolley*, 308 F.3d 1317, 1328 (Fed. Cir. 2002). A "rule of reason" analysis is applied to determine whether the inventor's diligence testimony has been corroborated. *D'Amico*, 347 F.2d at 871. A party alleging diligence must provide corroboration with evidence that is specific both as to facts and dates. *Kendall v. Searles*, 173 F.2d at 993; *Gould*, 363 F.2d at 920; *see also* MPEP § 2138.06.

#### b. PO's Declarations Do Not Establish Conception

PO's declarations fail to demonstrate the inventor was in possession of each claim limitation of the '077 patent The McNally and Sanders declarations fail to even mention several elements of Challenged Claims, including, <u>among others</u>, the limitations: "real time interface," "cascaded sets of linked graphical user interface

-59-

screens," "customized display layout unique to the wireless handheld computing device," and "wherein a cascaded set of linked graphic user interface screens for a wireless handheld computing device in the system includes a different number of user interface screens from at least one other wireless handheld computing device in the system." While the exhibits to PO's declarations suggest there may have been a prototype system in 1998, they do not provide detail sufficient to establish that the prototype included the elements of the Challenged Claims discussed above. Ex. 1012 (McNally Dec. at Exs. 1-20) at 558-613; (June 26, 2009 Rejection) at 427. Additionally, several of these exhibits (3, 5 and 6) are undated, and therefore fail to corroborate the date of PO's alleged conception for this additional reason.

# c. PO's Declarations Do Not Establish Actual Reduction to Practice

Likewise, PO's declarations and supporting evidence fail to demonstrate an actual reduction to practice of the Challenged Claims prior to the filing date of the '850 patent, because, as discussed above, PO's declarations and supporting evidence fail to mention, much less establish, that any of these prototypes included at least the following claim limitations: "real time interface," "cascaded sets of linked graphical user interface screens," "customized display layout unique to the wireless handheld computing device," and "wherein a cascaded set of linked

-60-

graphic user interface screens for a wireless handheld computing device in the system includes a different number of user interface screens from at least one other wireless handheld computing device in the system."

# d. PO's Declarations Do Not Establish Diligence

As established below, Blinn constituted a printed publication under 35 U.S.C. § 102(a) on April 27, 1999. PO's declarations and supporting evidence fail to demonstrate diligence during the entire critical period from April 27, 1999 until the patent application was filed on September 21, 1999, and therefore are insufficient to antedate Blinn.

First, PO fails to provide any cognizable evidence of any particular act (or even generalized activity) taken on any given day (or at any time) during this period to constructively reduce the '077 patent to practice. The sole evidence regarding any such activity after July 1999 and before September 21, 1999 is an uncorroborated statement by Mr. McNally concerning alleged activity by him and his attorney in preparing a patent application. However, Mr. McNally's declaration says nothing about the work performed by the patent attorney, when that work was performed, or the extent of the patent attorney's diligence (or lack of diligence) during this period and is therefore insufficient to establish diligence. *Kendall*, 173 F.2d at 993; *Gould*, 363 F.2d at 920; *In re Jolley*, 308 F.3d at 1328.

Second, there are numerous additional large gaps of time unaccounted for by

any of PO's Declarations during the critical period. For example, Mr. McNally's supplemental declaration identifies April 19, 1999 and May 17, 1999 press releases relating to two strategic partnerships formed by Ameranth, but the declarations provide no evidence of any diligence toward either actual or constructive reduction to practice during the nearly one month period in between. Similarly, the supplemental declaration describes a May 22 National Restaurant Association tradeshow in Chicago and a June 17, 1999 partnership agreement between Ameranth and food.com, but provides no evidence of diligence in the nearly one month period between these dates. Nor does the supplemental declaration provide any evidence of diligence between the June 17, 1999 partnership agreement and a press release announcing this partnership nearly a month later on July 15, 1999. These repeated nearly one month gaps in time fail to demonstrate reasonable diligence towards reducing the invention to practice. In re Mulder, 716 at 1542-46; *Rieser*, 255 F.2d at 424; *Fitzgerald*, 268 at 766.

#### 2. Summary of Blinn

Blinn discloses a method and system for processing electronic sales transactions. The method and system described in Blinn sets forth communications among client devices (including wireless personal digital assistants and standalone computers), the internet, and a merchant system including a database and communications control means. Ex. 1002 ¶ 750.

Annotated Figures 1 and 2 from the patent serves as a helpful guide as to how Blinn's disclosure can be mapped onto the claims of the '077 patent:





Claims 13-18 are unpatentable under 35 U.S.C. § 103 (pre-AIA) as being obvious in view of Blinn and Digestor. Because both Blinn and Digestor discuss display of data on multiple devices with different display configurations, it would have been obvious to a POSITA to combine Digestor's customized display layout teachings to the client devices from Blinn. This combination renders each of the
claims of the '077 patent obvious as shown in the following charts. Ex. 1002

¶¶ 752; 839.

Claim 13	Blinn and Digestor
13. An information	Blinn discloses a system for processing electronic sales
management and real	transactions through using an information management
time synchronous	and synchronous communications system which uses
communications	wireless handheld computing devices and the internet:
system for use with	"The present invention provides a method and system for
wireless handheld	processing electronic sales transactions. In a preferred
computing devices	embodiment, an electronic merchandising system allows
and the internet	merchants to create electronic orders which are easily
comprising:	adaptable for different sales situations." Ex. 1025 at
	Abstract.
	"Focusing now on the communications medium 108 as
	shown in FIG. 2, the presently preferred communications
	medium 108 includes the Internet which is a global
	network of computers. The structure of the Internet,
	which is well known to those of ordinary skill in the art,
	includes a network backbone with networks branching
	from the backbone." Ex. 1025 at 9:10-16.
	"In other embodiments, the consumer computer 102 could,
	for example, be a computer workstation, a local area
	network of computers, an interactive television, an
	interactive klosk, a personal digital assistant, an interactive
	wireless communications device or the like which can
	interact with the communications medium 108." Ex. 1025
	at 10:9-14. See also Ex. 1025 at Abstract; Figs. 1, 2 at 102
	and 108; 9:11-12; 10:12-14; 13:36-43. See also Ex. 1002
	$\begin{array}{c} 1 \\ \hline 1 \\ \hline 2 \\ \hline 3 \\ \hline$
a) a master database	Blinn discloses a master database, identified as 150 in
connected in said	Figures 1 and 2, nosted by a centralized merchant system
system and	computer, which as a merchant system is capable of
configured to store	containing nospitality application information pursuant to
nospitality	a master database file structure, such as a Structured
application	Usery Language database.
mormation pursuant	the store server process 106 is in communication with
to a master database	one or more databases 130 with a database module 132."

Claim 13	Blinn and Digestor
file structure;	Ex. 1025 at 8:9-11.
	"The merchant system 104 includes an internet
	information server 202, a router 204, a global
	configuration controller 205, at least one merchant store
	server 212, a storage medium for HTML structures 128
	and one or more databases 130." Ex. 1025 at 11:31-41.
	"Preferably, the databases 130 are Structured Query
	Language (SQL) databases 130." Ex. 1025 at 13:13-14;
	see also 13:9-22.
	<i>See also</i> Figs. 1 and 2 at 130; Ex. 1002 ¶¶ 251-52; 757-61.

It would have been obvious to one of ordinary skill in the art that the database 130 could have contained hospitality applications and data as evidenced by the patent speaking to the availability to modify based on a "merchant's unique sales transactions," which a POSITA would understand could include hospitality-specific operations. *See* Ex. 1025 at 38:43-47; *see also* Ex. 1025 at 1:11-18, 1:30-38, 4:66-5:3, Ex. 1002 ¶ 761. For example, it was known in the art to sell hospitality goods and services such as hotel rooms over the internet. *See* discussion regarding MARHSA computerized reservations at Ex. 1021 at Fig. 5.36 and 230-31; Ex. 1002 ¶¶ 251-52. Indeed, in Blinn, the inventors identified in a preferred embodiment the flexibility to include adaptable electronic orders for different sales situations. Ex. 1025 at 1:67-2:3; Ex. 1002 ¶ 761.

#### Claim 13 Blinn and Digestor

-65-

Claim 13	Blinn and Digestor
b) at least one	Blinn discloses an interactive wireless communications device
wireless	such as a personal digital assistant which interacts with a
handheld	communications medium and includes software allowing access
computing	to the merchant system such that the device displays the
device	information requested from the system. The handheld wireless
connected in	computing device is referenced by the consumer client 102. Ex.
said system	1025 at Figs. 1 and 2 at 102; 10:9-32.
and	" the consumer computer 102 could, for example, be a
configured to	computer workstation, a local area network of computers, an
display said	interactive television, an interactive kiosk, a personal digital
hospitality	assistant, an interactive wireless communications device or the
application	like which can interact with the communications medium 108."
information;	Ex. 1025 at 10:9-14.
	"For example, the communications medium 108 can include
	wireless data transmission systems." Ex. 1025 at 9:23-28. See
	<i>also</i> Ex. 1002 ¶¶ 762-65.

It would have been obvious to one of ordinary skill in the art that the

consumer computer 102 could have stored hospitality applications and data. See

Ex. 1025 at 38:43-47; see also Ex. 1025 at 1:11-18, 1:30-38, 4:66-5:3; Ex. 1002

# ¶ 765.

Claim 13	Blinn and Digestor
c) at least one	Blinn discloses an Internet information server which works in
web server	conjunction with the merchant system. See Ex. 1025 at Fig. 2 at
connected in	202; 1:19-29; 12:23-34.
said system;	"Typically, a Web site is an Internet-connected computer or
	computer system which runs server software for serving
	information using the standard protocols of the World Wide
	Web." Ex. 1025 1:22-25.
	"The Internet information server 202 is a World Wide Web
	server. The Internet information server 202 supports the use of
	virtual servers, allowing multiple web servers to run on a single
	computer. The Internet information server 202 also uses the
	HyperText Transmission Protocol (HTTP) to communicate with

Claim 13	Blinn and Digestor
	the consumer browsers 110 or the merchant browser 210." Ex.
	1025 at 12:23-29. See also Ex. 1002 ¶¶ 766-68.
d) at least one	Blinn discloses web pages hosted by merchants created by a
web page	dynamic page generator on a store server process which provides
connected in	the web page to the consumer client. Ex. 1025 at Fig. 1 at 102,
said system	106, 110 and 120; Fig. 2 at 106; 1:22-29; 8:36-44.
and	"Typically, a Web site is an Internet-connected computer or
configured to	computer system which runs server software for serving
display said	information using the standard protocols of the World Wide
hospitality	Web." Ex. 1025 at 1:22-25.
application	"When a consumer directs the consumer browser 110 on the
information;	consumer computer to access the merchant system 104, the
and	dynamic page generator 120 creates web pages with illustrate
	different watches offered for sale." Ex. 1025 at 8:36-39. See
	<i>also</i> Ex. 1002 ¶¶ 769-72.

It would have been obvious to one of ordinary skill in the art that the web

page could have been configured to display said hospitality application

information. See Ex. 1025 at 38:43-47; see also Ex. 1025 at 1:11-18, 1:30-38,

4:66-5:3, Ex. 1002 ¶ 772.

Claim 13	Blinn and Digestor
e) real time	Blinn discloses communications control software running on
communications	the router which acts as an interface between the internet and
control software	the store server process:
enabled to link	"In the preferred embodiment, the router 204 and the merchant
and synchronize	store server 212 utilize the global configuration information to
hospitality	interconnect the consumer browsers 110 with the store server
application	processes 106." Ex. 1025 at 12:50-53.
information	Additionally, the communications control module
simultaneously	functionality is performed by the TCP/IP stack within the
between the	merchant system 104 and runs on software with the
master database,	Windows <sup>®</sup> NT operating system:
wireless	"The Microsoft Windows® NT operating system includes a

Claim 13	Blinn and Digestor
handheld	TCP/IP stack which handles all incoming and outgoing
computing	message traffic passed over the communications medium
device, web	108." Ex. 1025 at 11:65-12:1.
server and web	Blinn further discloses applications and data synchronized in
page, wherein	real time across the central database described above in 13a,
the	the wireless personal digital assistant described in element
communications	13b, the Web server described in 13c, and the Web page
control software	described in 13d:
is enabled to	"The consumer client 102 contains a consumer browser 110.
utilize	The consumer browser 110 communicates with the store
parameters from	server process 106 and displays the web documents created by
the master	the store server process 106. Each store server process 106
database file	provides a server architecture that supports the presentation
structure to	and administration of a virtual store. Preferably, the store
synchronize the	server process 106 comprises a number of components
hospitality	including a dynamic page generator 120, an action manager
application	122, one or more orders 124 and an order processing module
information in	126. Furthermore, in communication with the store server
real time	process 106 is a storage device such as a hard disk which
between the	contains HTML structures 128 which define the layout of
master database,	different HTML pages. In addition, the store server process
at least one	106 is in communication with one or more databases 130 with
wireless	a database module 132." Ex. 1025 at 7:64-8:11.
handheld	
computing	"In other embodiments, the consumer computer 102 could, for
device, at least	example, be a computer workstation, a local area network of
one web server	computers, an interactive television, an interactive kiosk, a
and at least one	personal digital assistant, an interactive wireless
web page such	communications device or the like which can interact with the
that	communications medium 108. While in such systems the
substantially the	operating systems will differ, they will continue to provide the
same	appropriate communications protocols needed to establish
information	communication links with the communications medium 108."
comprising the	Ex. 1025 at 10:9-18.
hospitality	"During a typical shopping session, the consumer browser 110
application	and the store server process 106 communicate with each other
information is	over the communications medium 108. Typically, the
capable of being	consumer browser 110 sends URL addresses to the store

Claim 13	Blinn and Digestor
displayed on the	server process 106, and the store server process 106 responds
wireless	with HTML documents. The HTML documents may contain
handheld	registration information, product offerings, promotional
computing	advertisements, order forms, etc." Ex. 1025 at 13:36-43.
device, at least	"Associated with the shopper table 300 is the shopper manager
one web page	320. The shopper manager 320 adds, modifies and deletes the
and other	entries existing in the shopper table 300." Ex. 1025 at 16:1-6.
display screens	"The product variant table 802 is also merchant defined and
of the	stores information for a specific product within the product
synchronized	family. Each row in the product variant table 802 is a record
system, such	corresponding to a particular product while each column
that the	contains information related to the products. For example, the
hospitality	product variant columns may contain a product's family
application	identifier, stock keeping unit (sku), a color value, a size value,
information is	etc. The format of the product family table 800 is merchant
synchronized	defined and can contain wide variety of product
between any	characteristics. The merchant specifies the location of a query
connected users,	which queries the product variant table 802 in the registry."
	Ex. 1025 at 16:34-45.
	"In addition, the URL can contain the number of items
	(quantity) and the price of the items." Ex. 1025 at 18:26-28.
	"The OrderItemValidate component 1226b is configured to
	check the order 124 for required items, and verify that the
	required items exist." Ex. 1025 at 24:36-38.
	"The components in the inventory stage 386 verify that every
	selected item is in stock." Ex. 1025 at 29:61-62.
	"When the ReduceLocalInventory component 1282e receives
	the order 124, the ReduceLocalInventory component 1282e
	reduces the inventory in an inventory database 130 by the
	number of products ordered. The ReduceLocalInventory
	component 1282e uses the sku key-value pairs and the
	quantity key-value pairs to specify a database query which
	deducts the quantity amounts from the database $130.^{\prime\prime}$ Ex.
	1025 at 38:25-31. See also Ex. 1025 at Figure 6. See also Ex.
	1002 ¶¶ 7/3-87.

It would have been obvious to a POSITA that upon the store server process

and consumer browsers on computers and handheld devices becoming connected, the sales and item data maintained on the store server databases would be sent to the consumer browsers for rendering on the consumer computer and wireless handheld device, and thereby the data and applications on the store server process and the consumer computers and handheld devices would become synchronized (as that term is properly construed) in real time. Ex. 1002 ¶ 787. This is further evidenced by the inventory stage, which adjusts the quantities in the database upon a sale made via one of the consumer browsers such that future downloads reflect the adjusted inventor levels, thereby achieving real time synchronization. Ex. 1025 at 36:29-51 and 38:25:31; Ex. 1002 ¶ 787.

Claim 13	Blinn and Digestor
wherein the	Blinn discloses software acting as a real time interface
communications	between the elements of the system and the applicable
control software	communications protocol such as the software running on the
is enabled to act	router handling all incoming and outgoing message traffic.
as a real time	See Ex. 1025 at 1:25-29; 8:9-11; 10:9-18; 11:67; 13:36-43.
interface	"In the preferred embodiment, the router 204 and the merchant
between the	store server 212 utilize the global configuration information to
elements of the	interconnect the consumer browsers 110 with the store server
system and any	processes 106." Ex. 1025 at 12:50-53.
applicable	Additionally, the communications control module
communications	functionality is performed by the TCP/IP stack within the
protocol,	merchant system 104 and runs on software with the
-	Windows <sup>®</sup> NT operating system:
	"The Microsoft Windows® NT operating system includes a
	TCP/IP stack which handles all incoming and outgoing
	message traffic passed over the communications medium
	108." Ex. 1025 at 11:65-12:1. See also Ex. 1002 ¶¶ 788-91.

Claim 13	Blinn and Digestor
wherein the	Blinn discloses the communications control software
communications	described above as automatically and simultaneously
control software	configuring the hospitality application information for display
is enabled to	on the wireless handheld computing device described in 13b
automatically	and the web page described in 13d in conformity with the
and	customized display layout through customized HTML pages
simultaneously	unique to the wireless handheld computing device described in
configure the	13b or the web page described in 13d, such that the
hospitality	customized HTML pages are compatible with the handheld
application	computing device described in 13b or the web page described
information for	in 13d. Ex. 1025 at Fig. 2, 7:64-8:17.
display on both	"Broadly speaking, the dynamic page generator 120 responds
the wireless	to consumer browser 110 requests for the HTML pages. The
handheld	dynamic page generator 120 can generate customized HTML
computing	pages with the HTML structures 128." Ex. 1025 at 8:12-14.
device and the	Additionally, Digestor discloses customizing the display for
web page in	handheld graphic user interfaces:
conformity with	"Finally, automatic re-authoring involves developing software
a customized	which can take an arbitrary web document designed for the
display layout	desktop, along with characteristics of the target display device,
unique to the	and re-author the document through a series of transformations
wireless	so that it can be appropriately displayed on the device. This
handheld	process can be performed either on the client, on the server, or
computing	on an intermediary HTTP proxy server (as in [7]) which exists
device or the	solely for the purpose of providing these transformation
web page,	services. An example of this latter approach is the UC
wherein said	Berkeley Pythia proxy [9], which performs transformations on
customized	web page images, although the focus of this work is on
display layout is	minimizing page retrieval time, not on producing the most
compatible with	appropriate page layout for the display device." Ex. 1022 at 2.
the displayable	"Automatic re-authoring is thus the ideal approach to
size of the	providing broad access to the web from a wide range of
handheld	devices, if it can be made to produce legible, navigable and
computing	aesthetically pleasing re-authored documents without loss of
device display	information." Ex. 1022 at 1077. See also Ex. 1002 ¶¶ 792-97.
screen or the	
web page, and	

A POSITA would have understood that Blinn's ability to create customized HTML pages would have permitted the HTML page to be customized for display on a wireless handheld device. Ex. 1002 ¶ 797. Additionally, a POSITA would have found it obvious to combine the Digestor disclosure of re-authoring information for handheld devices with its disclosure of PDAs used in the Blinn system such that the web pages would be displayed appropriately on the PDA. *Id.* 

Claim 13	Blinn and Digestor
wherein the	Blinn discloses the communications control software, in
communications	conjunction with the dynamic page generator on the merchant
control software	system, is enabled to format a programmed handheld
is further	configuration for display as cascaded sets of linked graphical
enabled to	user interface screens, including hyperlinks to related pages,
automatically	on handheld computing devices such as PDAs.
format a	"Broadly speaking, the dynamic page generator 120 responds
programmed	to consumer browser 110 requests for the HTML pages. The
handheld	dynamic page generator 120 can generate customized HTML
configuration	pages with the HTML structures 128." Ex. 1025 at 8:12-14.
for display as	" the consumer computer 102 could, for example, be a
cascaded sets of	computer workstation, a local area network of computers, an
linked graphical	interactive television, an interactive kiosk, a personal digital
user interface	assistant, an interactive wireless communications device or the
screens	like which can interact with the communications medium
appropriate for	108." Ex. 1025 at 10:9-14.
a customized	"The dynamic page generator 120 generates the HTML
display layout	documents sent to the consumer browser 110. The dynamic
of at least two	page generator 120 dynamically creates HTML documents in
different	response to commands generated by the consumer browser
wireless	110. The commands generated by the consumer browser 110
handheld	utilize the standard GET/POST format of the HyperText
computing	Transport Protocol (HTTP). For example, as discussed in
device display	more detail below, the buttons or other content items in an
sizes in the	HTML page contain a hyperlink to a URL." Ex. 1025 at
same connected	13:44-52.

Claim 13	Blinn and Digestor
system, and	Additionally, Digestor discloses customizing the display for
	handheld graphic user interfaces:
	"Finally, automatic re-authoring involves developing software
	which can take an arbitrary web document designed for the
	desktop, along with characteristics of the target display device,
	and re-author the document through a series of transformations
	so that it can be appropriately displayed on the device. This
	process can be performed either on the client, on the server, or
	on an intermediary HTTP proxy server (as in [7]) which exists
	solely for the purpose of providing these transformation
	services. An example of this latter approach is the UC
	Berkeley Pythia proxy [9], which performs transformations on
	web page images, although the focus of this work is on
	minimizing page retrieval time, not on producing the most
	appropriate page layout for the display device." Ex. 1022 at
	1076.
	"Automatic re-authoring is thus the ideal approach to
	providing broad access to the web from a wide range of
	devices, if it can be made to produce legible, navigable and
	aesthetically pleasing re-authored documents without loss of
	information." Ex. 1022 at 1077. See also Ex. 1002 ¶¶ 798-
	805.

A POSITA would have found it obvious to combine the Digestor disclosure

of re-authoring information for handheld devices with its disclosure of PDAs used

in the Blinn system such that the web pages would be displayed appropriately on

the PDA. Ex. 1002 ¶ 805.

Claim 13	Blinn and Digestor
wherein a cascaded set	Digestor discloses the ability to re-author web
of linked graphical user	documents based on the "the target display device, and
interface screens for a	re-author the document through a series of
wireless handheld	transformations so that it can be appropriately
computing device in	displayed on the device. This process can be
the system includes a	performed either on the client, on the server, or on an

Claim 13	Blinn and Digestor		
different number of	intermediary HTTP proxy server (as in [7]) which		
user interface screens	exists solely for the purpose of providing these		
from at least one other	transformation services. An example of this latter		
wireless handheld	approach is the UC Berkeley Pythia proxy [9], which		
computing device in	performs transformations on web page images,		
the system, and	although the focus of this work is on minimizing page		
	retrieval time, not on producing the most appropriate		
	page layout for the display device." Ex. 1022 at 1076.		
	<i>See also</i> Ex. 1002 ¶¶ 806-07.		

A POSITA would have found it obvious to combine the Digestor disclosure

of re-authoring information for handheld devices with its disclosure of PDAs used

in the Blinn system such that the web pages would be displayed appropriately

unique handheld devices. Ex. 1002 ¶ 807.

Claim 13	Blinn and Digestor
wherein the	Blinn discloses a merchant system for handling "all incoming
system is	and outgoing message traffic passed over the communications
enabled for	medium 108. The computers in the merchant system 104, can,
real time	however, include a wide range of devices which provide
synchronous	information, graphics or text. These devices may contain
transmission	specialized operating systems which communicate using their
of the	respective communications protocols." Ex. 1025 at 11:66-12:6.
configured	Blinn further discusses the real time, synchronous nature of its
hospitality	system:
application	"The consumer client 102 contains a consumer browser 110.
information to	The consumer browser 110 communicates with the store server
the wireless	process 106 and displays the web documents created by the
handheld	store server process 106. Each store server process 106
computing	provides a server architecture that supports the presentation and
device, the	administration of a virtual store. Preferably, the store server
web server	process 106 comprises a number of components including a
and the web	dynamic page generator 120, an action manager 122, one or
page and real	more orders 124 and an order processing module 126.
time	Furthermore, in communication with the store server process

synchronous	106 is a storage device such as a hard disk which contains			
transmissions	HTML structures 128 which define the layout of different			
of inputs	HTML pages. In addition, the store server process 106 is in			
responding to	communication with one or more databases 130 with a database			
the configured	module 132." Ex. 1025 at 7:64-8:11.			
hospitality	"In other embodiments, the consumer computer 102 could, for			
application	example, be a computer workstation, a local area network of			
information	computers, an interactive television, an interactive kiosk, a			
from the	personal digital assistant, an interactive wireless			
wireless	communications device or the like which can interact with the			
handheld	communications medium 108. While in such systems the			
computing	operating systems will differ, they will continue to provide the			
device, or the	appropriate communications protocols needed to establish			
web server or	communication links with the communications medium 108."			
the web page.	Ex. 1025 at 10:9-18.			
	"Associated with the shopper table 300 is the shopper manager			
	320. The shopper manager 320 adds, modifies and deletes the			
	entries existing in the shopper table 300." Ex. 1025 at 16:1-6.			
	"The product variant table 802 is also merchant defined and			
	stores information for a specific product within the product			
	family. Each row in the product variant table 802 is a record			
	corresponding to a particular product while each column			
	contains information related to the products. For example, the			
	product variant columns may contain a product's family			
	identifier, stock keeping unit (sku), a color value, a size value,			
	etc. The format of the product family table 800 is merchant			
	defined and can contain wide variety of product characteristics.			
	The merchant specifies the location of a query which queries the			
	product variant table 802 in the registry." Ex. 1025 at 16:34-45.			
	"In addition, the URL can contain the number of items			
	(quantity) and the price of the items." Ex. 1025 at 18:26-28.			
	"The OrderItemValidate component 1226b is configured to			
	check the order 124 for required items, and verify that the			
	required items exist." Ex. 1025 at 24:36-38.			
	"The components in the inventory stage 386 verify that every			
	selected item is in stock." Ex. 1025 at 29:61-62.			
	"When the ReduceLocalInventory component 1282e receives			
	the order 124, the ReduceLocalInventory component 1282e			
	reduces the inventory in an inventory database 130 by the			

	number of products ordered. The ReduceLocalInventory		
	component 1282e uses the sku key-value pairs and the quantity		
	key-value pairs to specify a database query which deducts the		
	quantity amounts from the database 130." Ex. 1025 at 38:25-		
	31. See also Ex. 1025 at Figure 6. See also Ex. 1002 ¶¶ 808-17.		
Claim 14	Blinn and Digestor		
14. The	Blinn discloses the information management and real time		
information	synchronous communications system in accordance with claim		
management	13 described above including a communications systemic		
and real time	relationship. See claim 13 above.		
synchronous	"The present invention provides a method and system for		
communicatio	processing electronic sales transactions. In a preferred		
ns system in	embodiment, an electronic merchandising system allows		
accordance	merchants to create electronic orders which are easily adaptable		
with claim 13,	for different sales situations. The preferred electronic order		
further	comprises flexible blackboards which allow merchants to add		
including a	sales information with what are called key-value pairs. In the		
communicatio	preferred embodiment, the order is an object which contains at		
ns systemic	least one order blackboard and one or more item blackboards.		
relationship	In addition, the preferred embodiment contains an order		
comprising:	processing module with multiple stages which process the order.		
	The preferred stages include a product information stage, a		
	merchant information stage, a shopper information stage, an		
	order initialization stage, an order check stage, an item price		
	adjust stage, an order price adjust stage, a shipping stage, a		
	handling stage, a tax stage, an order total stage, an inventory		
	stage, a payment stage and an accept stage." Ex. 1025 at		
	Abstract. See also Ex. 1002 ¶¶ 818-19.		
a) A Wireless	Blinn discloses a "consumer computer 102 [that] could, for		
Hub	example, be a computer workstation, a local area network of		
Application;	computers, an interactive television, an interactive kiosk, a		
	personal digital assistant, an interactive wireless		
	communications device or the like which can interact with the		
	communications medium 108. While in such systems the		
	operating systems will differ, they will continue to provide the		
	appropriate communications protocols needed to establish		
	communication links with the communications medium 108."		
	Ex. 1025 at 10:9-18. See also Ex. 1002 ¶¶ 820-21.		

The Wireless Hub Application is served by the communications medium 108, such as the internet, through which the consumer client communicates with the merchant system 104. Ex.  $1002 \ \mbox{\sc 821}$ .

Claim 14	Blinn and Digestor		
b) A Web	Blinn discloses an "Internet information server 202 is a World		
Hub	Wide Web server. The Internet information server 202 supports		
Application;	the use of virtual servers, allowing multiple web servers to run		
	on a single computer." Ex. 1025 at 12:23-27; see also id. at		
	7:34-49, 12:24-34. See also Ex. 1002 ¶¶ 822-23.		

The Web Hub Application sits in the merchant system at the Internet

Information Server allowing the consumer client communicates with the merchant

system 104 over the internet. Ex. 1002 ¶ 823.

Claim 14 I	Blinn and Digestor		
c) Linked	Blinn discloses linked databases between two or more different		
Databases	hospitality applications through store server processes in		
Between two	communication with multiple databases:		
or more	"In the preferred embodiment, the consumer browser 110 is a		
different	software program which allows a consumer to access the		
Hospitality	merchant system 104 over the communications medium 108. In		
Application;	the preferred embodiment, the consumer browser 110 is the		
and	Microsoft Internet Explorer version 3.0 developed by Microsoft		
	Corporation. One of ordinary skill in the art, however, will		
	recognize that numerous other types of access software could also		
	be used to implement the present invention. These other types of		
	access software could, for example, be other types of Internet		
	browsers such as the Netscape Navigator developed by Netscape,		
	Inc., or other types of client applications including custom		
	network browsers, two-way communications software, cable		
	modem software, point-to-point software and the like." Ex. 1025		
	at 10:19-32. See also Ex. 1002 ¶¶ 824-25.		
d) A	Blinn discloses a communications setup application through		
Communicati	ons its two-way communications software, cable modem		

Setup		software and network browsers: See Ex. 1025 at 10:19-32	
Application.		(supra). See also Ex. 1002 ¶¶ 826-27.	
Claim 15		Blinn and Digestor	
15. The		Blinn discloses the system automatically importing	
information		information from the Point of Sale software database into the	
management a	nd	system from the generation of purchase orders to saving the	
real time		purchase order in a specified database:	
synchronous		"The POGenPipe component 1282b generates a purchase	
communicatio	ns	order by directing the dynamic page generator 120 to generate	
system of claim	im an HTML purchase order with a purchase order		
13, wherein th	e	template. The POGenPipe component 1282b then uses	
system is		standard techniques such as named pipes to direct the	
enabled to		dynamic page generator 120 to send the HTML purchase	
automatically		order to another program. The SaveOrderToDb component	
import the	1282c uses well-known database techniques to save		
information fr	om	om purchase order in a specified database 130. The	
the POS (poin	t SaveItemsToDb component 1282d uses well-known databas		
of sale) databa	se techniques to saves information about the purchased items to		
into the systen	m.   a specified database 130." Ex. 1025 at 30:60-31:4. See also		
	Ex. 1025 at 30:29-39. See also Ex. 1002 ¶¶ 828-29.		
Claim 16		Blinn and Digestor	
16. The	Bli	nn discloses the information management and real time	
information	syn	synchronous communications system of claim 13 where	
management	nur	numerous types of access software are used to implement the	
and real time	sys	system permitting at least two different hospitality applications	
synchronous	integrated between and one another.		
communicati	"In the preferred embodiment, the consumer browser 110 is a		
ons system	software program which allows a consumer to access the		
of claim 13,	merchant system 104 over the communications medium 108. In		
wherein at	the preferred embodiment, the consumer browser 110 is the		
least two	Microsoft Internet Explorer version 3.0 developed by Microsoft		
different	Corporation. One of ordinary skill in the art, however, will		
hospitality	recognize that numerous other types of access software could also		
applications	be used to implement the present invention. These other types of		
are	access software could, for example, be other types of Internet		
integrated	browsers such as the Netscape Navigator developed by Netscape,		
between and	Inc., or other types of client applications including custom		
with one	network browsers, two-way communications software, cable		
another.	mo	dem software, point-to-point software and the like." Ex. 1025	

at 10:19-32. *See also* Ex. 1002 ¶¶ 830-32.

It would have been obvious to one of ordinary skill in the art that the web page could have been configured to display said hospitality application information. *See* Ex. 1025 at 38:43-47; *see also* Ex. 1025 at 1:11-18, 1:30-38, 4:66-5:3, Ex. 1002 ¶ 832.

Claim 17	Blinn and Digestor		
17. The	Blinn discloses the information management and real time		
information	synchronous communications system of claim 13 where		
management and	credit card payments are one form of implementing the		
real time	completion of payment processing in the hospitality		
synchronous	application information.		
communications	"The components in the payment stage 388 approve credit-		
system in	card payments. A payment default component 1274 sets the		
accordance with	payment auth code key-value pair in the order blackboard		
claim 13,	350 to "FAITH." While the preferred embodiment does not		
wherein the	have a payment optional component 1276 which performs		
hospitality	card authorization, software such as VeriFone's Point of Sale		
application	(vPOS) software could be used. VeriFone's Point of Sale		
information also	(vPOS) software is publicly available and can be obtained		
includes the	from VeriFone, Inc. The payment required component 1278		
completion of	evaluates whether the value associated with the payment		
payment	auth code key has been set." Ex. 1025 at 30:29-39. See		
processing.	<i>also</i> Ex. 1002 ¶¶ 833-34.		
Claim 18	Blinn and Digestor		
18. The	Blinn discloses the information management and real time		
information	synchronous communications system in accordance claim 13,		
management and	where the personal digital assistant or interactive wireless		
real time	communications device is a smart phone.		
synchronous	"In other embodiments, the consumer computer 102 could,		
communications	for example, be a computer workstation, a local area network		
system in	of computers, an interactive television, an interactive kiosk, a		
accordance	personal digital assistant, an interactive wireless		
claim 13,	communications device or the like which can interact with the		
wherein the	communications medium 108." Ex. 1025 at 10:9-18		

Claim 17	Blinn and Digestor
configured	(emphasis added).
wireless	Digestor discloses wireless handheld devices such as the
handheld	Nokia 9000i cell phone, the Sony MagicLink, the Apple
computing	Newton with the AppPen NetHopper browser, and the Sharp
device is a smart	MI-10. Ex. 1022 at 1075. See also Ex. 1002 ¶¶ 835-38.
phone.	

A POSITA would have understood that the "interactive wireless communications device" referred to in Blinn could encompass a smart phone such as the Nokia 9000i smartphone disclosed in Digestor. Ex. 1002 ¶ 838.

#### XII. THE CHALLENGES ARE NOT REDUNDANT

Neither of the two challenges to independent claim 13 in this petition are redundant, and therefore trial should be instituted with respect to both challenges. Challenge 1 (obviousness over Micros Pub and Digestor) cannot be antedated, whereas Challenge 2 (obviousness over on Blinn and Digestor) theoretically could be antedated. This issue is important given the existence of Rule 131 declarations in the file history of the '077 patent. Accordingly, Challenge 1 is not redundant over Challenge 2. Challenge 2 is not redundant over Challenge 1 because Challenge 2's primary reference, Blinn, explicitly discloses use of the Internet within the disclosed system, whereas Challenge 1's primary reference, Micros Pub, does not. Accordingly, Challenge 2 is not redundant over Challenge 1.

#### XIII. CONCLUSION

Petitioner requests that Trial be instituted and claims 1-18 be cancelled.

March 3, 2015

Respectfully Submitted,

By: <u>/s/ Richard S. Zembek</u> Richard S. Zembek Reg. No. 43,306 Norton Rose Fulbright US LLP 1301 McKinney, Suite 5100 Houston, Texas 77010 Tel: 713-651-5151 Fax: 713-651-5246 richard.zembek@nortonrosefulbright.com

Gilbert A. Greene Reg. No. 48,366 Norton Rose Fulbright US LLP 98 San Jacinto Boulevard, Suite 1100 Austin, Texas 78701 Tel: 512-474-5201 Fax: 512-536-4598 bert.greene@nortonrosefulbright.com

Attorneys for Expedia, Inc., Fandango, LLC, Hotel Tonight, Inc., Hotwire, Inc., Hotels.com, L.P., Kayak Software Corp., Live Nation Entertainment, Inc., Orbitz, LLC, OpenTable, Inc., Papa John's USA, Inc., StubHub, Inc., Ticketmaster, LLC, Travelocity.com LP, Wanderspot LLC, Agilysys, Inc., Domino's Pizza, Inc., Domino's Pizza, LLC, Hilton Resorts Corporation, Hilton Worldwide, Inc., Hilton International Co., Mobo Systems, Inc., Pizza Hut of America, Inc. and Pizza Hut, Inc., and Usablenet, Inc.

# **CERTIFICATE OF SERVICE**

The undersigned hereby certifies that a copy of the foregoing petition for Covered Business Method review and all Exhibits and other documents filed together with the petition were served on March 3, 2015, via courier, directed to PO and PO correspondent at the following addresses:

Locke Lord LLP	Michael D. Fabiano
Attn: IP Docketing	FABIANO LAW FIRM, P.C.
Three World Financial Center	12526 High Bluff Drive, Suite 300
New York, NY 10281-2101	San Diego, CA 92130
William J. Caldarelli	
Mazzarella Caldarelli LLP	
12340 El Camino Real, Suite 430	
San Diego, CA 92130	

By: <u>/s/ Richard S. Zembek</u> Richard S. Zembek