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IN THE UNITED STATES DISTRICT COURT

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FOR THE DISTRICT OF ARIZONA

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9 GolfSwitch Inc., a Nevada corporation; )  
10 and Spectrum Golf, Inc., an Arizona )  
corporation, )

No. CV 06-01119-PHX-NVW (consol.)

11 Plaintiffs/Counterdefendants, )

**ORDER**

12 vs. )

13 )

14 Incuborn Solutions, Inc. and GolfNow, )  
15 Inc., d/b/a Cypress Golf Solutions, )  
Arizona corporations; and Michael )  
Loustalot, an individual, )

16 Defendants/Counterclaimants. )

17 )

18 GolfSwitch, Inc., a Nevada corporation, )

19 Plaintiff/Counterdefendant, )

20 vs. )

21 )

22 TeeConnect, LLC, a Delaware limited )  
liability company; OpenCourse Solutions, )  
23 LLC, a Delaware limited liability )  
company; Heritage Golf Group, LLC, a )  
24 Delaware limited liability company; and )  
Heritage Golf Group, Inc., a Delaware )  
corporation; )

25 Defendants/Counterclaimants. )

26 )

27 Plaintiffs GolfSwitch, Inc. and Spectrum Golf, Inc. sued Incuborn Solutions, Inc.  
28 and GolfNow, Inc., d/b/a Cypress Golf Solutions and Michael Loustalot (collectively “the

1 Cypress Defendants”) for alleged infringement of U.S. Patent No. 7,016,857 (“the  
2 Patent”) and other claims. Plaintiff GolfSwitch, Inc., also sued Tee Connect, LLC,  
3 OpenCourse Solutions, LLC, Heritage Golf Group, LLC, and Heritage Golf Group, Inc.  
4 (collectively “the Tee Connect Defendants”) for alleged infringement of the Patent. On  
5 Plaintiffs’ motion, the court consolidated the cases and ordered joint discovery and trial of  
6 issues of claim construction, patent validity, and patent enforceability.

7 All parties have filed briefs supporting their proposed constructions of the Patent’s  
8 claim terms. Pursuant to *Markman v. Westview Instruments, Inc.*, 517 U.S. 370 (1996),  
9 the court must construe the claims of the patent as a matter of law. On June 30, 2008, the  
10 court held a *Markman* hearing during which the Patent and the complete File History  
11 were admitted as stipulated Joint Exhibits 1 and 2 and Plaintiffs’ expert testified. Having  
12 considered the evidence presented in the parties’ briefs, during the hearing, and in the  
13 exhibits, and for the reasons set forth below, the court construes the disputed terms as a  
14 matter of law as follows.

#### 15 **I. Legal Standard**

16 “[T]he claims of a patent define the invention to which the patentee is entitled the  
17 right to exclude.” *Phillips v. AWH Corp.*, 415 F.3d 1303, 1312 (Fed. Cir. 2005) (citations  
18 omitted). The court construes the scope and meaning of disputed patent claims as a  
19 matter of law. *Markman v. Westview Instruments, Inc.*, 517 U.S. 370, 372 (1996). “It is  
20 critical for trial courts to set forth an express construction of the material claim terms in  
21 dispute, in part because the claim construction becomes the basis of the jury instructions,  
22 should the case go to trial.” *AFG Industries, Inc. v. Cardinal IG Co., Inc.*, 239 F.3d 1239,  
23 1247 (Fed. Cir. 2001). The court needs to construe only the claim language that is in  
24 dispute. *NTP, Inc. v. Research In Motion, Ltd.*, 418 F.3d 1282, 1311 (Fed. Cir. 2005).

25 First, the court looks to the words of the claims themselves to define the scope of  
26 the patented invention. *Vitronics Corp. v. Conceptronic, Inc.*, 90 F.3d 1576, 1582 (Fed.  
27 Cir. 1996). The words of a claim generally are given the ordinary and customary  
28 meaning that a person having ordinary skill in the art would have given them at the time

1 of the patent application. *Phillips*, 415 F.3d at 1312-13. “Such person is deemed to read  
2 the words used in the patent documents with an understanding of their meaning in the  
3 field, and to have knowledge of any special meaning and usage in the field.” *Id.* at 1313.  
4 “[T]he person of ordinary skill in the art is deemed to read the claim term not only in the  
5 context of the particular claim in which the disputed term appears, but in the context of  
6 the entire patent, including the specification.” *Id.* To determine what a person of  
7 ordinary skill in the art would have understood disputed claim language to mean, the  
8 court looks to the words of the claims themselves (the context of the disputed terms), the  
9 remainder of the specification, the prosecution history, and extrinsic evidence concerning  
10 relevant scientific principles, the meaning of technical terms, and the state of the art. *Id.*  
11 at 1314.

12         Second, the court must read the claims in light of the specification, of which they  
13 are a part:

14             The specification contains a written description of the invention which must  
15 be clear and complete enough to enable those of ordinary skill in the art to  
16 make and use it. Thus, the specification is always highly relevant to the  
claim construction analysis. Usually, it is dispositive; it is the single best  
guide to the meaning of a disputed term.

17 *Vitronics*, 90 F.3d at 1582; *accord Phillips*, 415 F.3d at 1315. Because the words of a  
18 claim must be based on the descriptive part of the specification, the description aids in  
19 ascertaining the scope and meaning of the claims. *Phillips*, 415 F.3d at 1315. Therefore,  
20 the specification is the primary basis for construing the claims. *Id.*

21         Third, the court may also consider the prosecution history of the patent if it is in  
22 evidence. *Vitronics*, 90 F.3d at 1582. The prosecution history, *i.e.*, the complete record  
23 of the proceedings before the PTO, often lacks the clarity of the specification, but can  
24 “inform the meaning of the claim language by demonstrating how the inventor  
25 understood the invention and whether the inventor limited the invention in the course of  
26 prosecution, making the claim scope narrower than it would otherwise be.” *Phillips*, 415  
27 F.3d at 1317. “A patentee’s decision to narrow his claims through amendment may be  
28 presumed to be a general disclaimer of the territory between the original claim and the

1 amended claim.” *Regents of University of California v. Dakocytomation California, Inc.*,  
2 517 F.3d 1364, 1376 (Fed. Cir. 2008). A patentee must be held to what he declares  
3 during the prosecution of his patent, and the prosecution history excludes any  
4 interpretation clearly and deliberately disclaimed during prosecution. *Springs Window*  
5 *Fashions LP v. Novo Indus., L.P.*, 323 F.3d 989, 994-95 (Fed. Cir. 2003).

6 In most situations, analysis of the patent and its prosecution history, *i.e.*, the  
7 intrinsic evidence, will resolve any ambiguity in a disputed claim term, and it is improper  
8 to rely on extrinsic evidence. *Vitronics*, 90 F.3d at 1583. “[W]here the public record  
9 unambiguously describes the scope of the patented invention, reliance on any extrinsic  
10 evidence is improper. The claims, specification, and file history, rather than extrinsic  
11 evidence, constitute the public record of the patentee’s claim, a record on which the  
12 public is entitled to rely.” *Id.*

13 Where needed, however, the court also may consider “extrinsic evidence, which  
14 consists of all evidence external to the patent and prosecution history, including expert  
15 and inventor testimony, dictionaries, and learned treatises.” *Phillips*, 415 F.3d at 1317.  
16 Extrinsic evidence in the form of expert testimony can be useful to provide background  
17 on the technology at issue, to explain how an invention works, to ensure the court’s  
18 understanding of the technical aspects of the patent is consistent with that of a person  
19 skilled in the art, or to establish that a particular term in the patent or prior art has a  
20 particular meaning in the pertinent field. *Id.* at 1318. But conclusory, unsupported  
21 assertions by experts regarding the definition of a claim term are not useful to a court. *Id.*  
22 While extrinsic evidence can be useful, it is “less significant than the intrinsic record in  
23 determining the legally operative meaning of claim language” and “unlikely to result in a  
24 reliable interpretation of a patent claim scope unless considered in the context of the  
25 intrinsic evidence.” *Id.* at 1317, 1318 (internal quotations and citations omitted).

## 26 **II. The Patent**

27 On March 19, 1999, GolfSwitch’s predecessor-in-interest applied for the Patent,  
28 which discloses a computerized golf tee-time reservation system that permits multiple

1 individual users to concurrently access multiple golf course reservation systems to check  
2 the availability of tee times, reserve tee times, and modify and cancel tee-time  
3 reservations. The application included 14 independent and 57 dependent claims. On  
4 March 21, 2006, the Patent issued with 1 independent and 15 dependent claims. All of  
5 the disputed terms are in the independent claim, which states:

6 1 Golf tee-time reservation apparatus for implementing **seamless real**  
7 **time access concurrently** to a plurality of **disparate individual golf**  
8 **course reservation systems** situated at different locations, at least some of  
9 which use different **protocols**, said apparatus comprising

10 a plurality of **user input modules** distributed throughout a wide geographic  
11 area including at sites remote from one another, each **user input**  
12 **module** having an **interface** capable of **sending one or more tee-**  
13 **time requests** concurrently to said plurality of **disparate individual**  
14 **gold [sic] course reservation system [sic]**, and

15 an **interface module** having a data link with each of said plurality of **user**  
16 **input modules** for **concurrently receiving one or more tee-time**  
17 **requests** to said plurality of **disparate individual golf course**  
18 **reservation systems** as **real time transactions**, said **interface**  
19 **module** having a data link connection with each of said plurality of  
20 **disparate individual golf course reservation systems** and being  
21 arranged to **interface** with each different **protocol** of said plurality  
22 of **disparate individual golf course reservation systems** to **effect**  
23 **acceptance of one or more tee-time requests at the plurality of**  
24 **disparate individual golf course reservation systems** to which said  
25 one or more **tee-time requests** are directed, and said **interface**  
26 **module** being arranged to **concurrently process one or more tee-**  
27 **time requests** sent from a single **user input module** to said plurality  
28 of **disparate individual golf course reservation systems**.

19 Patent at 9:63-10:23 (emphasis added to disputed claim terms).

20 The Summary of the Invention states:

21 [I]t is an object of the present invention to provide a seamless  
22 user/service reservation network which can establish a communication  
23 protocol that is capable of interfacing with a plurality of different  
24 reservation systems. It is another object of the present invention to provide  
25 a graphical interface that allows a user access to multiple vendor reservation  
26 systems via the same single interface procedure. It is yet another object of  
27 the present invention to provide a seamless user/service reservation network  
28 that allows the user to issue multiple concurrent transactions to multiple  
vendor reservation systems within a single communication. It is a further  
object of the present invention to provide a communications protocol that  
allows the user to communicate with the seamless interface network  
irrespective of, and via multiple forms of entry, including an Internet web  
application, a graphical user interface, and additional interfaces. Finally, it  
is an object of the present invention to provide a method of doing business  
that allows a single user/service reservation network to facilitate multiple

1 input methods accessing multiple vendor reservation systems via a single  
2 transactional template.

3 These and other objects of the present invention are achieved as a  
4 method, device, and system for implementing a seamless user/service  
reservation network having three primary components: an input module, an  
interface module; [sic] and a vendor service module.

5 The input module includes a plurality of potential embodiments,  
6 including a graphical user interface, an Internet web site interface and a  
7 plurality of dedicated single use computer interfaces. The input module  
allows a registrant to access the network via typical input means such as  
8 mouse, keyboard or voice commands. Regardless of the type of interface  
the user attempts to access, the user interface processes all transactions in  
9 the same manner. Thus, the user interface varies the display format of the  
input means to correspond with and accommodate the needs of the  
particular type of user, while keeping the transaction protocol standardized.

10 The interface module serves the dual function of a transaction switch  
and an information dissemination system. Utilizing a multi-threaded  
11 process input means, the interface module processes multiple user  
transactions bundled into a single communication and concurrently divides  
12 and processes each transaction. The interface module communicates with  
both the user input module and the vendor service module accepting and  
13 sending communications to each module. Implementing a dedicated server  
communication format, the interface module facilitates communication  
14 irrespective of the individual embodiments of the other modules. Because  
of the multi-thread, multiple server configuration, the interface module  
15 facilitates concurrent processing of all bundled communications.

16 The vendor service module establishes a communication link with  
the interface module and responds to user transactions. Because its  
17 transactions are conducted through the interface module, and because all  
user inputs incorporate the same protocol, the vendor service module  
18 processes all transactions irrespective of the embodiment of user input.

19 Combined, the system of the present invention provides the golf  
reservation industry with a complete network capable of connecting  
20 multiple user inputs having bundled transactions to multiple vendor systems  
running different software reservation platforms.

21 *Id.* at 2:50-3:45. In addition, the Abstract includes the following:  
22

23 ...all user inputs accept the same input format and send all transactions via a  
bundled communication. The interface module comprises multiple servers  
24 designed to communicate with the user input module and the vendor service  
module and decode and process all bundled requests. Utilizing multi-thread  
25 processing, all transactions from either module are concurrently processed.  
The vendor service module incorporates multiple vendor systems running  
26 different software platforms. Each vendor software platform is linked with  
a dedicated network server that can accordingly translate all standard  
27 communications to the specific protocol of the individual software vendor.  
By incorporating multiple user inputs that are processed concurrently by  
28 multiple vendors running different software platforms[,] the seamless golf

1 reservation network establishes a standardized golf tee time reservation  
2 system unique to this industry.

3 *Id.* at page 1.

4 The Field of Invention within the Background of Invention states:

5 In general, this invention relates to a seamless reservation network and  
6 more specifically, to a seamless user/service reservation network enabling  
multiple user interfaces to concurrently access multiple vendor reservation  
systems running different software reservation platforms.

7 *Id.* at 1:12-16.

8 The Detailed Description of the Preferred Embodiment states in part:

9 The present invention relates to a method of implementing a  
10 seamless user/service reservation network capable of establishing a  
concurrent communication link between multiple users and multiple vendor  
11 reservation systems. Additionally, the present invention also relates to a  
method of business providing a golf reservation system that reduces all  
12 input transactions into a single, common interface which is relayed to  
multiple vendor interfaces.

13 ....

14 ...The user input module[] provides different types of users with an  
15 appropriate interface for bundling multiple user transactions and for  
receiving responses from either the interface module[] or the vendor  
16 module[]. The user input module varies the implementation of the specific  
user input interface depending on the needs and the sophistication of the  
17 user. In the preferred embodiment, some of the typical users include  
resellers, such as travel agents, Internet based users and individual users  
18 transacting on dedicated systems such as kiosks.

19 ....

20 As has been mentioned previously, the user input module [] of the  
present invention sends all transaction[s] as bundled requests which allows  
21 the system to process the individual requests efficiently, and return the  
processed requests from either the user input module or the vendor service  
22 module. Accordingly, the use of bundled transactions to a system using  
multi-threaded technology allows for true concurrent processing of system  
23 requests from either the user input module or the vendor service module.

24 As would be understood by someone skilled in the relevant art,  
multi-thread processing technologies allows a processor to divide allotted  
25 CPU time into multiple sub-processes that are processed within one clock  
cycle. By bundling each request as sub-processes within a larger process, a  
26 CPU would be allowed to process multiple booking, shopping, maintenance  
or internal processes within one clock cycle as opposed to having [to]  
27 process an individual request or communication in multiple clock cycles.  
Depending on the number of processors bundled within a single  
28 communication, this would reduce the processing time by a linear factor.  
Because of the multiple thread technology, an end user or vendor can

1 bundle requests and have these requests within each bundle processed  
 2 immediately and more efficiently by the system.

3 ....

4 ...Because each vendor module may or may not be running software  
 5 specifically designed to communicate directly with the interface module [], each  
 6 server within the network [] must be specifically programmed to correspond with  
 and translate the standard transactions supported by the present invention into the  
 specific protocol for each vendor reservation system....

7 ....

8 ...There is no limit as to the number of vendor service reservation systems  
 9 contained within the network, nor to the number and type of vendor software  
 platforms that the present invention will recognize....

10 ...Because the golf switch system can interface with any software platform,  
 including networks, the integrity of the reservation system remains intact.

11 ....

12 By standardizing the communications between modules, the present  
 13 invention allows multiple user inputs to utilize the same instructions to access  
 different vendors running different software platforms. Accordingly, the interface  
 14 module[] receives these transactions and processes them accordingly.

15 ...As mentioned in the above-mentioned discussion, the current prior art  
 16 reservations systems in the golfing industry cannot accommodate multiple  
 software platforms. Additionally, each prior art reservation system has its own  
 17 unique user interface. The present invention includes a method of supporting  
 multiple user inputs incorporating identical transactional protocols which are  
 18 connected, via an interface, to multiple vendor software reservation platforms.  
 Currently, the golf tee time reservation industry cannot incorporate both the  
 translational and communication functions into one single reservation network.  
 19 The present invention provides the industry with such a method.

20 *Id.* at 4:4-11, 4:28-38, 5:50-6:6, 6:56-62, 7:43-46, 7:63-65, 8:44-49, 9:17-29.

21 **III. Claim Construction**

22 The following chart summarizes the court’s construction of the disputed terms.

23 The full analysis supporting each construction is below.

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<u>Term</u>	<u>Construction</u>
26 “Tee-time request”	27 Request from an individual user of the tee-time 28 reservation network for tee-time availability, booking, modification, verification, and/or cancellation



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“To effect acceptance of one or more tee-time requests at the plurality of disparate individual golf course reservation systems”

To generate a response to one or more tee-time requests from the plurality of disparate individual golf course reservation systems

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“Seamless”

Not apparent to the user that the system is interacting with different golf course reservation systems or protocols

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“Real time”

Occurring in the present time

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“Real time transactions”

Transactions occurring in the present time

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“Disparate individual golf course reservation systems”

Computerized golf course reservation systems that use different software platforms

---

“Protocols”

Format for transmitting data

---

“Different protocol(s)”

Different communication protocols and different application protocols

---

“Access concurrently”

Access simultaneously with other user input modules

---

“Sending one or more tee-time requests concurrently”

Simultaneously sending one or more tee-time requests as bundled transactions within a single communication

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“Concurrently receiving one or more tee-time requests”

Simultaneously receiving one or more tee-time requests as bundled transactions within a single communication

---

“Concurrently process one or more tee-time requests”

1		Simultaneously process one or more tee-time requests within the same clock cycle using multi-threaded processing
2		
3	“Interface”	Means for communicating or exchanging
4		
5	“Interface module”	A component that transmits data between user input modules and disparate individual golf course reservation systems
6		
7	“User input modules”	Components through which an individual user of the tee-time reservation system inputs information to and/or interacts with the plurality of disparate golf course reservation systems through the interface module
8		
9		
10		

11 **A. “Tee-time request” and “To effect acceptance of one or more tee-time**  
 12 **requests at the plurality of disparate individual golf course reservation**  
 13 **systems”**

13 Plaintiffs’ proposed construction for “tee-time request” is “availability check,  
 14 booking, modification, verification, and/or cancellation.” The Cypress Defendants and  
 15 the Tee Connect Defendants’ proposed construction for “tee-time request” is “request  
 16 from an individual user of the tee-time reservation network for tee-time availability,  
 17 booking, modification, verification, and/or cancellation.” In their response brief Plaintiffs  
 18 do not dispute Defendants’ construction. Either proposed construction, however, makes  
 19 the use of the claim term in the phrase “to effect acceptance of one or more tee-time  
 20 requests” illogical if “acceptance” is given its ordinary meaning because an availability  
 21 check or request for verification may be responded to, but is not “accepted.”

22 Plaintiffs propose that the court construe the phrase “to effect acceptance of one or  
 23 more tee-time requests at the plurality of disparate individual golf course reservation  
 24 systems” as “to obtain responses directly from each disparate golf course reservation  
 25 system that the user’s request for availability, booking, verification, or cancellation has  
 26 been satisfied.” Plaintiffs’ construction is inaccurate because a user’s request to make a  
 27 reservation cannot always be satisfied. The Cypress Defendants and the Tee Connect  
 28 Defendants propose that the court construe this phrase as “to cause one or more tee-time

1 requests to be sent to, received by, and responded to by each disparate golf course  
2 reservation system.” In their responsive brief, the Tee Connect Defendants asserted that  
3 the differences between the parties’ proposed constructions are insignificant, and the  
4 court need not construe this claim term.

5       The Patent uses the term “tee-time requests” only in independent claim 1 and  
6 dependent claims 4 and 15. Claim 1 includes “each user input module having an interface  
7 capable of sending one or more tee-time requests” to individual golf course reservation  
8 systems, “an interface module having a data link with each ... user input module[] for  
9 concurrently receiving one or more tee-time requests ... as real time transactions,” “said  
10 interface module ... to interface with each different protocol of ... disparate individual golf  
11 course reservation systems to effect acceptance of one or more tee-time requests at the ...  
12 golf course reservation systems to which ... tee-time requests are directed,” and  
13 “concurrently process one or more tee-time requests sent from a single user input module  
14 to said plurality of disparate individual golf course reservation systems.” Patent at  
15 10:3-23.

16       The Summary of the Invention refers to a “network that allows the user to issue  
17 multiple concurrent transactions to multiple vendor reservation systems within a single  
18 communication.” *Id.* at 2:58-60. Figure 5 of the Patent “is a transactional diagram of the  
19 communication classifications between the modules of the present invention.” *Id.* at  
20 3:62-63, 8:4-5. The Detailed Description of the Preferred Embodiment describes Figure 5  
21 as categorizing the instructions and communications into four preferred categories:  
22 shopping, booking, maintenance, and internal. *Id.* at 8:5-43. The description of the four  
23 categories uses the terms “instructions,” “communications,” and “requests”  
24 interchangeably. *See id.* The shopping category includes requests from the user input  
25 module to either the interface module or the vendor service module and includes  
26 retrieving information regarding golf courses in a particular geographic area and  
27 availability of a specific tee time on a specific course. *Id.* at 8:13-22. “All booking  
28 instructions[] are communications from the user input module[] to the vendor service

1 module[]” and “include requests to book a specific tee time at a specific course[], requests  
2 to modify a previous reservation[], requests to cancel a previous tee time[], and requests  
3 to verify or confirm a previous tee time reservation[.]” *Id.* at 8:24-30. “Maintenance  
4 communications are typically transactions from the vendor service module[] either  
5 requesting the interface module[] to change the information[] stored within its database  
6 server, such as course layout descriptions or statistics, or a request to notify[] the user of a  
7 change in previously reserved tee time.” *Id.* at 8:32-37. Internal communications are  
8 performed within the interface module and include functions that check performance or  
9 verify that all servers and applications are running properly. *Id.* at 8:38-43.

10 The term “tee-time requests” was not used in the initial application for the Patent.  
11 File History at 480-523. It first was used in the amended claims submitted in October  
12 2003:

13 72. (New): A golf tee-time reservation system for implementing  
14 seamless real time access to one or more golf courses, said system  
comprising:

15 means for inputting a *tee-time request*;

16 means for interfacing a protocol with one or more different  
17 protocols;

18 means for issuing one or more *tee-time transactions* to one or more  
19 golf course reservation systems;

20 means for displaying one or more tee-time schedules; and

21 means for reserving one or more tee-times from said one or more  
22 golf course in real time.

23 73. (New): The golf tee-time reservation system of claim 72,  
24 wherein said means for inputting a *tee-time request* comprises a graphical  
25 user interface.

26 *Id.* at 389 (italics added).

27 In November 2004, the above claims were canceled, but a newly added claim 109  
28 included “each user input module having an interface capable of receiving one or more  
tee-time requests,” “an interface module having a data link connection with each of said  
user input modules for processing said tee-time requests as real time transactions,” and  
“said interface module ... being arranged to interface with each different protocol of said  
golf course reservation systems to effect acceptance of each of said tee-time requests at  
the golf course reservation systems to which said requests are directed.” *Id.* at 173-74.

1 At that point, claim 109 was the sole independent claim presented for consideration. *Id.*  
2 at 175. The accompanying remarks include the following:

3 The present invention thus allows *tee-time reservations* to be made with  
4 respect to golf course reservation system[s] that are not part of a common  
5 system but instead have their own different protocols. ... An interface  
6 module has a data link with each of the user input modules to process *tee-*  
7 *time requests* as real time transaction[s]. The interface module additionally  
has a data link connection with each of the golf course reservation systems  
and is arranged to interface with the different protocols associated with the  
different golf course reservation systems so that *tee-time requests* can be  
accepted at the golf course reservation systems.

8 *Id.* at 175 (italics added).

9 The June 2005 claim amendments replaced “tee-time transactions” with “tee-time  
10 requests” in claim 103 “in order to be consistent with the terminology used in patent  
11 claim 109.” *Id.* at 125, 127. The amendments also included replacing “receiving” with  
12 “sending” in claim 109, so that the user input module now was described as “having an  
13 interface capable of sending one or more tee-time requests concurrently.” *Id.* at 126. The  
14 patentees attached to their amendments a white paper by one of the inventors titled “U.S.  
15 Patent Defense” and dated May 3, 2005, which distinguished the GolfSwitch invention  
16 from prior art and responded to the Examiner’s findings. *Id.* at 130-53. The paper states,  
17 “GolfSwitch provides for **simultaneous** seamless real time tee-time interaction (tee-time  
18 availability searches, reservations and cancellations) with multiple golf courses running  
19 disparate tee-time reservation systems located at diverse geographical locations.” *Id.* at  
20 132, 133 (emphasis in original); *see also id.* at 144. The paper refers to “the issue of how  
21 the Golf Course manages the tee time reservations (i.e. available tee time schedules,  
22 cancellations, check-in, communicate reservations to the golf course administrators,  
23 etc...).” *Id.* at 138.

24 On October 24, 2005, patentees submitted a paper titled “Concurrent Processing of  
25 Tee Time Requests” dated October 17, 2005, which compares the GolfSwitch application  
26 to the Hunt, Germain, and Arnold patents. *Id.* at 49-62. It does not address the meaning  
27 of “tee-time request” or suggest that the term is relevant to distinguishing the GolfSwitch  
28 invention from prior art. It does summarize a portion of the application using the phrase

1 “multiple booking, shopping, maintenance or internal processes” with the phrase “a  
2 plurality of reservation transactions.” *Id.* at 51.

3 Thus, the term “tee-time request” was added to the Patent through amendments  
4 during prosecution, but its use did not narrow the scope of any claims. It refers to user-  
5 generated, response-seeking interaction with the golf course reservation network related  
6 to reserving tee times and not to maintenance and internal administrative transactions  
7 processed by the GolfSwitch invention.

8 The court therefore adopts Defendants’ proposed construction of “tee-time  
9 request” as “request from an individual user of the tee-time reservation network for tee-  
10 time availability, booking, modification, verification, and/or cancellation.”

11 Further, the court construes “to effect acceptance of one or more tee-time requests  
12 at the plurality of disparate individual golf course reservation systems” as “to generate a  
13 response to one or more tee-time requests from the plurality of disparate individual golf  
14 course reservation systems.”

15 **B. “Seamless”**

16 Plaintiffs and the Cypress Defendants propose the construction of “seamless” as  
17 “not apparent to the user that the system is interacting with different golf course  
18 reservation systems or protocols.” The Tee Connect Defendants urge the court to  
19 construe “seamless” as “direct connectivity between the plurality of user input modules  
20 and the plurality of disparate individual golf course reservation systems.”

21 Claim 1 discloses an apparatus that includes “each user input module having an  
22 interface capable of sending one or more tee-time requests concurrently to said plurality  
23 of disparate individual gol[f] course reservation system[s]” and “an interface module  
24 having a data link with each of said user input modules ... and said interface module  
25 having a data link connection with each of said plurality of disparate interface  
26 modules....” Thus, the plain language of the claim discloses an invention connecting the  
27 user input modules to the golf course reservation systems *through* the interface module  
28 and not directly.

1           Moreover, although how communications between modules are structured may  
2 affect seamlessness, connectivity does not constitute seamlessness. A person having  
3 ordinary skill in the art would understand “seamless” to refer to the user’s perception that  
4 he is interacting with a single integrated system. *See* Hearing Transcript, May 30, 2008,  
5 at 66:8-15.

6           The court therefore construes “seamless” as “not apparent to the user that the  
7 system is interacting with different golf course reservation systems or protocols.”

8           **C.    “Real time” and “Real time transactions”**

9           Claim 1 includes the terms “real time access” and “real time transactions.” Patent  
10 at 9:64, 10:11. Plaintiffs propose that “real time access” be construed as “the system is  
11 capable of communicating in a timely fashion with different golf course reservation  
12 systems so as to effectively make online tee-time reservations.” Plaintiffs propose that  
13 “real time transactions” be construed as “as timely as is necessary to satisfy the need of a  
14 user making online tee-time reservation (e.g., within one internet session).”

15           The Cypress Defendants propose that the court construe “real time” as “within a  
16 time frame that seems immediate to the user of the system” and “real time transactions”  
17 as “tee-time requests that are processed to the individual golf course reservation systems  
18 within a time frame that seems immediate to the user of the system.” The Tee Connect  
19 Defendants’ proposed construction of “real time” is “without delays or lag times” and of  
20 “real time transactions” is “tee-time requests that are processed against the most current  
21 and/or valid data without delays or lag times.”

22           In remarks submitted with the October 2003 amendment, patentees asserted:

23           The present invention provides a golf tee-time reservation system  
24 that comprises real-time concurrent processing. All other known prior art  
25 reservation systems/networks utilize a dependent database for retrieving and  
26 scheduling tee-time transactions. Real-time concurrent processing provides  
27 *immediate* processing of transactions for scheduling a tee-time. ... The  
28 subject invention permits tee-time information to be retrieved by  
systematically extracting the information and displaying it to the user  
*without delays or lag times* from separate hardware and database  
components.

1           In yet another differing aspect of the present invention, the present  
2 invention provides a real-time reservation network that utilizes a multi-  
3 threading technique. This technique provides *immediate* processing of  
4 transactions for the user []. A system database is not required for retrieving  
5 a tee-time request, and a database is only provided for storing user schedule  
6 information at the end of a transaction.

7           ...Again, the present invention provides a real-time seamless  
8 reservation system that functions *immediately* with differing golf  
9 reservation networks using multi-thread processing [].

10 File History at 396-97 (italics added).

11           The essence of the parties' arguments and citations to both intrinsic and extrinsic  
12 evidence is that "real time" means that it occurs *now*, in the present time, while the user is  
13 interacting with the system, and not in a batch to be processed later, and it operates on  
14 current data, not on a snapshot of past data. The term does not define the length of time  
15 during which the processing will be completed, only when the processing will occur.  
16 Whether a transaction is completed quickly enough to satisfy the user or to seem  
17 immediate to the user without delays or lag times may be a result of real-time processing  
18 combined with use of certain methods of processing, *e.g.*, concurrent multi-threaded  
19 processing, but it does not define "real time."

20           Claim 1 refers to "an interface module having a data link ... for concurrently  
21 receiving one or more tee-time requests ... as real time transactions." Patent at 10:7-11.  
22 If "transactions" means only "tee-time requests," as Defendants propose, the quoted  
23 language means "receiving tee-time requests as real time tee-time requests," and the word  
24 "transaction" provides no information. Rather than render the term "transaction"  
25 superfluous, the court concludes "transaction" is a commonly understood word and need  
26 not be construed. *See Phillips*, 415 F.3d at 1314.

27           Therefore, the court rejects all of the parties' proposed constructions of "real time"  
28 and "real time transactions." The court construes "real time" as "occurring in the present  
time" and "real time transactions" as "transactions occurring in the present time."



1           **D.     “Disparate individual golf course reservation systems”**

2           Plaintiffs propose construing “disparate individual golf course reservation  
3 systems” as “more than one golf course reservation system.” The Cypress Defendants  
4 and the Tee Connect Defendants’ proposed construction is “computerized golf course  
5 reservation systems that use different software platforms.”

6           The intrinsic evidence supports Defendants’ construction. The Patent’s Abstract  
7 states: “The vendor service module incorporates multiple vendor systems running  
8 different software platforms.” Patent at page 1. The Abstract further refers to “multiple  
9 vendors running different software platforms.” *Id.* The Background of Invention states:

10           In general, this invention relates to a seamless reservation network and  
11           more specifically, to a seamless user/service reservation network enabling  
12           multiple user interfaces to concurrently access *multiple vendor reservation  
13           systems running different software reservation platforms.*

14           *Id.* at 1:12-16 (emphasis added). The Summary of Invention refers to “a plurality of  
15 different reservation systems,” “multiple vendor reservation systems,” and “multiple  
16 vendor systems running different software reservation platforms.” *Id.* at 2:53, 55, 59-60.  
17 The Patent describes prior art golf reservation systems as being limited to specific golf  
18 courses that run the reservation system’s specific software and concludes there is a need  
19 for a golf reservation system that “can communicate with any vendor reservation network  
20 or individual vendor reservation software platform, and can facilitate the concurrent  
21 processing of a plurality of requests to different software platforms.” *Id.* at 1:29-33,  
22 2:37-45.

23           The court therefore construes “disparate individual golf course reservation  
24 systems” as “computerized golf course reservation systems that use different software  
25 platforms.”

26           **E.     “Protocols”**

27           Plaintiffs propose that “protocols” be construed as “format for transmitting data.”  
28 The Cypress Defendants and the Tee Connect Defendants propose that “protocols” be  
construed as “communication standards that govern the physical transport or transmission

1 of data from one computer to another, such as Transmission Control Protocol/Internet  
2 Protocol (TCP/IP), User Datagram Protocol/Internet Protocol (UDP/IP), and X.25.”  
3 Plaintiffs argue that Defendants’ proposed construction improperly limits the meaning of  
4 “protocols” to standards for the physical transmission of data and impermissibly restricts  
5 the claim to preferred embodiments. Defendants argue that Plaintiffs referred to the  
6 specific communication protocols TCP/IP, UDP/IP, and X.25, Plaintiffs’ proposed  
7 construction expands the meaning of “protocols” to include “specifically disclaimed  
8 general application layer types of formats such as HTTP or SOAP,” and the term should  
9 be construed to refer to communications layer protocol only. (Docs. ##181 at 12-13, 182  
10 at 16.)

11 At a minimum, the term “protocols” as used in the Patent means standards or  
12 formats for transmitting data. The term usually is found in the Patent specification in the  
13 context of or preceded by the word “communication” or “communications.”  
14 Occasionally it is used in the context of or preceded by the word “transaction” or  
15 “transactional.” In such contexts “format for transmitting data” is sufficient construction  
16 of “protocols.” But Claim 1 refers to “different protocols” of “disparate individual golf  
17 course reservation systems” without reference to communication, transaction, or  
18 application:

19 ...apparatus for implementing ... access ... to a plurality of disparate  
20 individual golf course reservation systems ... at least some of which use  
different protocols...

21 said interface module having a data link connection with each of said  
22 plurality of disparate individual golf course reservation systems and being  
23 arranged to interface with each different protocol of said plurality of  
disparate individual golf course reservation systems....

24 Patent at 9:63-67, 10:11-16. As previously construed, “disparate individual golf course  
25 reservation systems” means systems that use different software platforms. Claim 1  
26 therefore discloses an invention that provides access to and can interface with golf  
27 reservation systems that use different software platforms *and* different protocols.  
28

1 The Abstract states, “Each vendor software platform is linked with a dedicated  
2 network server that can accordingly translate all standard communications to the specific  
3 protocol of the individual software vendor.” *Id.* at page 1. The Background of the  
4 Invention concludes there is a need for a golf reservation system that, among other things,  
5 “can accommodate a communication protocol such that the system can communicate with  
6 any vendor reservation network or individual vendor reservation software platform.” *Id.*  
7 at 2:37-43.

8 The Summary of the Invention states:

9 [I]t is an object of the present invention to provide a seamless user/service  
10 reservation network which can establish a *communication protocol* that is  
11 capable of interfacing with a plurality of different reservation systems. ...  
12 It is a further object of the present invention to provide a *communications*  
13 *protocol* that allows the user to communicate with the seamless interface  
14 network irrespective of, and via multiple forms of entry, including an  
15 Internet web application, ....

13 ...Thus, the user interface varies the display format of the input means to  
14 correspond with and accommodate the needs of the particular type of user,  
15 while keeping *transaction protocol* standardized....

15 ...Because its transactions are conducted through the interface module, and  
16 because all user inputs incorporate the same *protocol*, the vendor service  
17 module processes all transactions irrespective of the embodiment of user  
18 input.

17 *Id.* at 2:50-64, 3:16-19, 3:37-40 (italics added). In the drawings, Fig. 6 “is an example of  
18 the preferred communication protocol of the present invention.”

19 The Detailed Description of the Preferred Embodiment includes the following:

20 ...Because each vendor module may or may not be running software  
21 specifically designed to *communicate* directly with the interface module [],  
22 each server within the network [] must be specifically programmed to  
23 correspond with and *translate the standard transactions* supported by the  
24 present invention into the specific *protocol* for each vendor reservation  
25 system....

24 By standardizing the *communications* between modules, the present  
25 invention allows multiple user inputs to utilize the same instructions to  
26 *access different vendors running different software platforms*. Accordingly,  
27 the interface module[] receives these transactions and processes them  
28 accordingly. FIG. 6 represents the preferred format for *all communication*.  
By following this format all communications are decoded and processed by  
the interface module[] in the same manner by the decoding server. In the  
preferred embodiment, the *communication protocol* includes a header  
segment[], an originating system code[], a message[], a time stamp of

1 transaction origination[], a time stamp of response[], and a user ID[]. As  
2 would be understood, this template could be modified and still be  
considered within the scope of the present invention.

3 ...As mentioned in the above-mentioned discussion, the current prior  
4 art reservations systems in the golfing industry cannot accommodate  
multiple software platforms. Additionally, each prior art reservation system  
5 has its own unique user interface. The present invention includes a method  
of supporting multiple user inputs incorporating identical *transactional*  
6 *protocols* which are connected, via an interface, to multiple vendor software  
reservation platforms. Currently, the golf tee time reservation industry  
7 cannot incorporate both the *translational and communication functions* into  
one single reservation network. The present invention provides the industry  
with such a method.

8  
9 *Id.* at 6:56-62, 8:44-58, 9:17-29.

10 In their October 2003 remarks to the examiner, distinguishing the Tagawa system,  
patentees represented:

11 In the present invention, each golf course operates independently  
12 from the other, whereby no relationship exists between networking,  
computer hardware, communication protocols, or software applications.  
13 The present invention is novel in that it provides a true seamless network  
coupling all non-related golf reservation systems/networks into a single golf  
14 course reservation system/network regardless of the hardware, software, or  
protocols used. *It provides the translation of differing protocols* in order to  
15 communicate a tee-time request from any one of the independent networks.

16 File History at 397 (italics added).

17 In their May 2005 submission, distinguishing the Hunt system, patentees  
18 represented:

19 GolfSwitch not only provides a normalized way of connecting to multiple  
disparate golf reservations systems from multiple disparate Tee Time  
20 Resellers (Travel Agents, Hotel Concierge, Websites, Kiosks, etc.) but also  
affords a single Wide Area Network link from the location (either Golf  
21 Course or Tee Time Reseller) into the “real-time” GolfSwitch  
*communications switching engine that provides the appropriate routing and*  
22 *protocol conversion*. GolfSwitch provides the following normalizations for  
both the Golf Course and the Tee Time Reseller:

23 Wide Area Network Communications Mediums:

- 24 • Private Frame Relay Connection
- 25 • Private T1 Lease Data Line Connection
- 26 • Private Satellite (VSAT) Data Link Connection
- Private Wireless CDPD Data Link Connection
- Virtual Private Network (VPN) Via The Public Internet

27 Communications Protocols:

- 28 • TCP/IP
- UDP/IP

- 1 • X.25
- 2 • SNA 6.2

3 Electronic Messaging Protocols:

- 4 • GolfSwitch Standardized Messaging Protocol
- 5 • Golf Tee Sheet Reservation Proprietary Messaging Protocol
- 6 • Tee Time Reseller Proprietary Messaging Protocol

7 ....

8 GolfSwitch improves upon the prior art of Hunt by allowing for only a single data connection from both the Travel Agents/Web Sites/Hotels/Vacation Packagers to the *centralized real-time switching network of GolfSwitch* as well as only a single data connection from each of the Golf Courses.

9 *Id.* at 152-53.

10 In their October 2005 submission, distinguishing the Arnold system, patentees  
11 stated, “Since Arnold is silent to the protocol used to interact with the different golf  
12 courses who are all running the same software, it is impossible for the examiner to make  
13 the statement that Arnold teaches the use of different protocols.” *Id.* at 61. Patentees’  
14 remark was directed to the examiner’s parenthetical comment that “using multiple  
15 protocol[s] is inherent in a web system, i.e. HTTP and SOAP,” which suggested that any  
16 web-based system such as Arnold necessarily uses multiple protocols. *Id.* Contrary to  
17 Defendants’ arguments, patentees’ remark does not disclaim the inclusion of application  
18 protocols in the term “protocols,” as used in Claim 1, but rather requires the inclusion of  
19 more than HTTP and SOAP. In other words, “different protocols” in Claim 1 is not  
20 satisfied if the only way tee-time requests can be processed at disparate golf course  
21 reservation systems is via the Internet.

22 The intrinsic evidence, supported by Plaintiffs’ expert’s hearing testimony, shows  
23 that “different protocols” as used in Claim 1 means the “disparate individual golf course  
24 reservation systems” include systems that use different communication protocols *and*  
25 different application protocols and the interface module is able to communicate with  
26 “*each* different protocol” of the disparate golf course reservation systems. As used in  
27 other parts of the Patent, the context adequately indicates whether “protocols” refers to  
28 communication protocols, application protocols, or both.

1 The court therefore construes “protocols” as “format for transmitting data.” The  
2 court further construes “different protocol(s)” in claim 1 as “different communication  
3 protocols and different application protocols.”

4 **F. “Access concurrently,” “Concurrently receiving one or more tee-time**  
5 **requests,” “Sending one or more tee-time requests concurrently,” and**  
6 **“Concurrently process one or more tee-time requests”**

6 All parties agree that “concurrently” means, at a minimum, “simultaneously.”  
7 Plaintiffs propose that “access concurrently,” “concurrently receiving one or more tee-  
8 time requests,” and “sending one or more tee-time requests concurrently” all be construed  
9 as “simultaneously with other user input modules.” Plaintiffs propose that “concurrently  
10 process one or more tee-time requests” be construed as “an interface that allows one user  
11 to make at least one tee-time request (as defined) for golf at multiple different courses,  
12 and where more than one request is made, they are acted on simultaneously.”

13 The Cypress Defendants and the Tee Connect Defendants propose that “access  
14 concurrently” be construed as “simultaneous interaction between a user and a plurality of  
15 disparate golf course reservation systems by bundling multiple transactions within a  
16 single communication and processing them within the same clock cycle using multi-  
17 threaded processing.” Defendants propose that “sending one or more tee-time requests  
18 concurrently” be construed as “simultaneously sending one or more tee-time requests as  
19 bundled transactions within a single communication.” They propose that “concurrently  
20 receiving one or more tee-time requests” be construed as “simultaneously receiving one  
21 or more tee-time requests as bundled transactions within a single communication.” They  
22 propose that “concurrently process one or more tee-time requests” be construed as  
23 “simultaneously process one or more tee-time requests within the same clock cycle using  
24 multi-threaded processing.”

25 The Abstract and the Summary of Invention portions of the Patent establish that  
26 multi-threaded processing of bundled transactions from and to each user input module is  
27 an essential component of the invention and not merely a preferred embodiment. The  
28 Abstract expressly states:

1 ...all user inputs accept the same input format and *send all transactions via*  
2 *a bundled communication*. The interface module comprises multiple  
3 servers designed to communicate with the user input module and the vendor  
4 service module and decode and *process all bundled requests*. *Utilizing*  
5 *multi-thread processing, all transactions from either module are*  
6 *concurrently processed*.

Patent at page 1 (italics added). The Summary of Invention also states:

7 It is yet another object of the present invention to provide a seamless  
8 user/service reservation network that allows the user to issue *multiple*  
9 *concurrent transactions* to multiple vendor reservation systems *within a*  
10 *single communication....*

11 The interface module serves the dual function of a transaction switch  
12 and an information dissemination system. *Utilizing a multi-threaded*  
13 *process input means, the interface module processes multiple user*  
14 *transactions bundled into a single communication and concurrently divides*  
15 *and processes each transaction*. The interface module communicates with  
16 both the user input module and the vendor service module accepting and  
17 sending communications to each module. ... *Because of the multi-thread,*  
18 *multiple server configuration, the interface module facilitates concurrent*  
19 *processing of all bundled communications....*

20 Combined, the system of the present invention provides the golf  
21 reservation industry with a complete network capable of *connecting*  
22 *multiple user inputs* having *bundled transactions* to multiple vendor  
23 systems running different software reservation platforms.

24 *Id.* at 2:53-56, 3:21-34, 3:41-45 (italics added). Thus, the network is capable of  
25 connecting multiple user inputs, each of which has bundled transactions, to multiple  
26 vendor systems.

In addition, the Detailed Description of the Preferred Embodiment states:

27 The present invention relates to a method of implementing a  
28 seamless user/service reservation network capable of establishing a  
29 *concurrent communication link between multiple users and multiple vendor*  
30 *reservation systems....*

31 ... Accordingly, *the use of bundled transactions to a system using multi-*  
32 *threaded technology allows for true concurrent processing* of system  
33 requests from either the user input module or the vendor service module.

34 As would be understood by someone skilled in the relevant art,  
35 *multi-thread processing technologies allows a processor to divide allotted*  
36 *CPU time into multiple sub-processes that are processed within one clock*  
37 *cycle. By bundling each request as sub-processes within a larger process, a*  
38 *CPU would be allowed to process multiple booking, shopping, maintenance*  
39 *or internal processes within one clock cycle as opposed to having [to]*  
40 *process an individual request or communication in multiple clock cycles.*  
41 Depending on the number of processors bundled within a single  
42 communication, this would reduce the processing time by a linear factor.

1 *Because of the multiple thread technology, an end user or vendor can*  
2 *bundle requests and have these requests within each bundle processed*  
3 *immediately and more efficiently by the system.*

3 *Id.* at 4:4-7, 5:54-6:6 (italics added).

4 Patentees distinguished the invention from the THISCO system because “the  
5 THISCO system can only process a single transaction per each communication” and  
6 “transactions to different systems cannot be processed concurrently.” *Id.* at 2:17-25.  
7 Patentees also distinguished the GolfSwitch system from the Hunt, Germain, and Arnold  
8 systems based on GolfSwitch’s concurrent processing of tee-time requests. File History  
9 at 49-62. They told the examiner that their invention enables “multiple user interfaces to  
10 concurrently access multiple vendor reservation systems,” “allows the user to issue  
11 multiple concurrent transactions to multiple vendor reservation systems within a single  
12 communication,” and “processes multiple user transactions bundled into a single  
13 communication and concurrently divides and processes each transaction.” *Id.* at 50.

14 Patentees asserted:

15 The use of Multi-Thread technology allows the GolfSwitch technology to  
16 truly concurrently (simultaneously) process a plurality of reservation  
17 transactions to a plurality of disparate individual golf course reservation  
18 systems situated in different locations. This is clearly distinct over the prior  
19 art.

18 *Id.* at 51. Patentees specifically contrasted “the sequential Germain approach” with “the  
19 concurrent GolfSwitch approach” using as an example of querying 30 golf courses for  
20 tee-time availability:

21 The GolfSwitch User Input module bundles one single communication that  
22 includes a request for tee time availability for each of the 30 golf courses....

23 –This single communication bundle is transmitted to the  
24 Central GolfSwitch System,

25 –the communication is then un-bundled where each [of] 30  
26 tee time availability requests is handled by a different  
27 processing thread so that they all can be processed within the  
28 same CPU clock cycle (Concurrent Multi-Thread  
Processing–refer to GolfSwitch Patent page 10, paragraph 3).

–Each thread transmits the electronic tee time availability  
request message to the specific golf course concurrently  
(simultaneously).



1           –Each thread receives its independent response from the  
2           specific golf course transaction it is serving.

3           –All responses are bundled into a single reply communication  
4           back to the user input module.

5           *Id.* at 53. As an appendix to their paper explaining GolfSwitch’s concurrent processing of  
6           tee-time requests, patentees included the Merriam-Webster online definition of  
7           “concurrent”: “occurring or operating at the same time.” *Id.* at 62.

8           The Patent and the prosecution history describe two different types of “concurrent  
9           processing”: (1) simultaneous processing of requests from a single (“each”) user input  
10          module to a “plurality of disparate individual golf course reservation systems,” by  
11          bundling multiple transactions within a single communication and processing them using  
12          multi-threaded technology, and (2) simultaneous processing of requests from “a plurality  
13          of user input modules” to a “plurality of disparate individual golf course reservation  
14          systems,” which does not necessarily involve bundled transactions and multi-threaded  
15          technology. The claim term “concurrently” therefore must be construed differently in  
16          each of the two different contexts.

17          Therefore, the court construes “access concurrently” in claim 1 as “access  
18          simultaneously with other user input modules.”

19          The court construes “sending one or more tee-time requests concurrently” in claim  
20          1 as “simultaneously sending one or more tee-time requests as bundled transactions  
21          within a single communication.”

22          The court construes “concurrently receiving one or more tee-time requests” in  
23          claim 1 as “simultaneously receiving one or more tee-time requests as bundled  
24          transactions within a single communication.”

25          The court construes “concurrently process one or more tee-time requests” in claim  
26          1 as “simultaneously process one or more tee-time requests within the same clock cycle  
27          using multi-threaded processing.”  
28

1           **G.    “Interface”**

2           Plaintiffs propose “interface” be construed as “means for communicating or  
3 exchanging.” The Cypress Defendants and the Tee Connect Defendants propose  
4 “interface” be construed as “means by which an individual user interacts with the  
5 plurality of disparate golf course reservation systems.”

6           Claim 1 uses “interface” as a noun, adjective, and verb:

7           ...each user input module having an *interface* capable of sending one or  
8 more tee-time requests...; and an *interface* module having a data link ..., said  
9 *interface* module ... being arranged to *interface* with each different protocol  
of said plurality of disparate individual golf course reservation systems....

10          Patent at 10:3-16 (italics added). The Summary of the Invention states:

11          It is another object of the present invention to provide a graphical *interface*  
12 that allows a user access to multiple vendor reservation systems via the  
13 same single *interface* procedure. ... It is a further object of the present  
14 invention to provide a communications protocol that allows the user to  
communicate with the seamless *interface* network irrespective of, and via  
multiple forms of entry, including an Internet web application, a graphical  
user *interface*, and additional *interfaces*.

15          ....

16          The input module includes a plurality of potential embodiments,  
17 including a graphical user *interface*, an Internet web site *interface* and a  
18 plurality of dedicated single use computer *interfaces*. The input module  
19 allows a registrant to access the network via typical input means such as  
mouse, keyboard or voice commands. Regardless of the type of *interface*  
20 the user attempts to access, the user *interface* processes all transactions in  
the same manner. Thus, the user *interface* varies the display format of the  
input means to correspond with and accommodate the needs of the  
particular type of user, while keeping the transaction protocol standardized.

21          *Id.* at 2:53-56, 60-65, 3:9-20 (italics added).

22          Construing “interface” as limited to user interactions would add redundancy where  
23 the communication or interaction expressly involves users, and confusion where it does  
24 not. Such a construction would not make the claim term more understandable to the jury.

25          The court therefore construes “interface” as “means for communicating or  
26 exchanging.”

1           **H.    “Interface module”**

2           Plaintiffs propose that “interface module” be construed as “a module configured  
3 for processing communication requests.” Defendants contend that Plaintiffs’ construction  
4 introduces a new term, “communication requests,” that would require further  
5 construction. The court agrees.

6           The Cypress Defendants and the Tee Connect Defendants propose that “interface  
7 module” be construed as “component that provides a communication link between, and  
8 concurrently processes bundled transactions to and from, the user input module and the  
9 plurality of disparate golf course reservation systems.” Defendants’ proposed  
10 construction unnecessarily includes “concurrently processes bundled transactions,” a  
11 feature of the invention more appropriately included in the claim terms expressly  
12 including the word “concurrently.”

13           Claim 1 discloses “an interface module having a data link with each of said  
14 plurality of user input modules” and “having a data link connection with each of said  
15 plurality of disparate individual golf course reservation systems.” Patent at 10:7-13. In  
16 the Summary of the Invention, the Patent discloses:

17           The interface module serves the dual function of a transaction switch and an  
18 information dissemination system. Utilizing a multi-threaded process input means,  
19 the interface module processes multiple user transactions bundled into a single  
20 communication and concurrently divides and processes each transaction. The  
21 interface module communicates with both the user input module and the vendor  
22 service module accepting and sending communications to each module.  
23 Implementing a dedicated server communication format, the interface module  
24 facilitates communication irrespective of the individual embodiments of the other  
25 modules. Because of the multi-thread, multiple server configuration, the interface  
26 module facilitates concurrent processing of all bundled communications.

27           *Id.* at 3:21-34. Further, the Abstract states, “The interface module comprises multiple  
28 servers designed to communicate with the user input module and the vendor service  
module and decode and process all bundled requests.” *Id.* at page 1. Thus, the interface  
module must be able to perform certain functions, *i.e.*, concurrently receive tee-time  
requests from user input modules, translate and communicate requests to disparate golf  
course reservation systems, and effect acceptance of tee-time requests, all as real-time

1 transactions. But those functions are disclosed by separate claim terms and should not be  
2 incorporated into the construction of “interface module.”

3 Therefore, the court rejects all of the parties’ proposed constructions of “interface  
4 module.” The court construes “interface module” as “a component that transmits data  
5 between user input modules and disparate individual golf course reservation systems.”

6 **I. “User input modules”**

7 Plaintiffs propose that “user input modules” be construed as “modules that receive  
8 user input (information); a system or network component for receiving user input such as  
9 remote access devices.” The Cypress Defendants and the Tee Connect Defendants’  
10 proposed construction is “components through which an individual user of the tee-time  
11 reservation system inputs information to and/or interacts with the plurality of disparate  
12 golf course reservation systems.”

13 Claim 1 discloses multiple user input modules, each of which “having an interface  
14 capable of sending one or more tee-time requests concurrently.” Patent 10:1-6. The  
15 Summary of the Invention describes an invention “that allows a user access to multiple  
16 vendor reservation systems via the same single interface procedure” and “to communicate  
17 with the seamless interface network.” *Id.* at 2:58-63. It teaches that the “input module  
18 includes a plurality of potential embodiments, including a graphical user interface, an  
19 Internet web site interface and a plurality of dedicated single use computer interfaces”  
20 and the “input module allows a registrant to access the network via typical input means  
21 such as mouse, keyboard or voice commands.” *Id.* at 3:9-14. Thus, the Patent makes  
22 clear that the user input modules permit the end user to access and interact with the golf  
23 reservation network and not merely “input” data. The user input modules, therefore, must  
24 also provide information to the end user. Defendants’ proposed construction is consistent  
25 with the specification if it is understood that the user input modules interact with the  
26 plurality of disparate golf course reservation systems through the interface module and  
27 not directly.

28

