

Declaration of Edward R. Tittel in Support of  
Petition for *Inter Partes* Review of  
U.S. Patent No. 6,415,316

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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Facebook, Inc.  
Petitioner

v.

Rembrandt Social Media, L.P.  
Patent Owner

U.S. Patent No. 6,415,316  
Filing Date: September 1, 1998  
Issue Date: July 2, 2002

TITLE: METHOD AND APPARATUS FOR IMPLEMENTING A WEB PAGE DIARY

**DECLARATION OF EDWARD R. ("ED") TITTEL**

*Inter Partes* Review No. 2014-\_\_

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I, Edward R. (“Ed”) Tittel, declare as follows:

**I. INTRODUCTION AND QUALIFICATIONS**

**A. Qualifications and Experience**

1. I am currently a business and computing technology author and consultant, focusing on information security, markup languages, web development and related technologies, IT certification, and network operating systems. Since December, 2006, I have been working as a full-time freelance writer, speaker, trainer, and consultant. I first began serving as an expert witness in intellectual property litigations in 2009.

2. I have more than thirty (30) years of technical experience in the computer and engineering field, including experience as a software developer. I worked for NetQoS, Inc. from May, 2006 to June, 2007 in several roles: Director of Training, Editor-in-Chief at NetPerformance.com (a network and performance management site) and Senior Researcher (to work on a TCP/IP performance management book). Prior to that engagement, I spent almost 10 years (1994–2004) as the owner and a full-time employee of LANWrights, Inc., a content development and project management company.

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3. Before then I held several positions at Novell, Inc. (1988–1994): Network Consultant, Senior Trainer, National Marketing Manager, and Director of Technical Marketing. In my previous position at Hart Information Systems (HIS, 1986–1988), I served as the Engineering Manager from October 1986 to January 1987. In that role, I procured and developed systems and software to exploit desktop publishing and microcomputer technology for a computer-oriented database publishing environment. I also served as HIS’s General Manager for almost one year beginning in January 1987; in that role, I supervised all management, administrative, and engineering staff, and oversaw business development, system evolution, market planning/strategy, sales management, and fiscal performance.

4. From 1984 to 1986, I worked at Schlumberger Well Services, a worldwide provider of oil field data acquisition and interpretation. I was the Project Leader for the design and development of two large FORTRAN applications to read, write, and manipulate well log data. I also served as the Software Coordinator for an artificial intelligence log analysis workstation project, including design reviews, requirements specifications, configuration and systems management, and external liaison with user groups.

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5. In 1983 and 1984 I worked as the Software Development Manager at Michael Leesley Consulting, which company was under contract to Auto-Trol Technology to develop a specialized CAD design workstation for process plant design. My primary responsibility for this project was to acquire and transport the Empress 32 database management system from the UNIX operating system to the Apollo Aegis operating system. I supervised a team of 6-9 programmers as we made this transition in 1983 and 1984. Attached as **Exhibit A** to this Declaration is a copy of my résumé, which provides a more complete description of my educational background and work experience.

6. I have a BA in Computer Science (equivalency) from the University of Texas at Austin (1981), and also completed 18 graduate hours in Computer Science at the University of Texas at Austin (1982). I worked as an instructor for the Adult & Continuing Education program at Austin Community College from 1997 to 2001, where I taught the following classes: Introductory & Intermediate HTML (1997–2001), Introductory & Advanced TCP/IP for WebMasters (1999–2001), Windows NT Administration for WebMasters (1999–2001), and Networking for WebMasters (2000–2001). I taught one- and two-day sessions at the InterOp/Key3Media tradeshow (1996–2002) and The Internet Security

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Conference (TISC) (1998–2001) with J. Michael Stewart. The InterOp/Key3Media sessions were Optimizing & Tuning Windows (1 day) and Windows Security Issues & Answers (2 days); the TISC session was called Windows Security Issues & Answers (1 day).

7. I am conversant with several computer languages (for example, C, C++, FORTRAN, Pascal, Perl, and Java), scripting languages (various Unix/Linux shells, JavaScript, PowerShell, and Tcl), markup languages (HTML, XHTML, XML, and numerous XML applications), operating systems (NetWare; Windows NT; Windows 2000, XP, Vista, Windows 7 and 8, and Windows Server 2003, 2008, and 2012) and network communication protocols (TCP/IP IPv4 and IPv6, plus numerous older stacks including IPX/SPX, NetBIOS/NetBEUI, and AppleTalk).

8. I have contributed to over 140 computer trade books, hundreds of articles, and numerous white papers, technical briefs, and online courses. Most recently, I finished ***Beginning Programming in HTML5 and CSS3*** (Wiley Publishing, Inc., September, 2013) and completed ***Guide to TCP/IP***, 4th Edition (Cengage Learning, September, 2012). Some specific book titles I authored or contributed to that are relevant to this matter include ***Building Web Commerce Sites*** (IDG Books Worldwide, December, 1996), ***The CGI Bible*** (IDG Books

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Worldwide, December, 1996), ***Foundations of WWW Programming, with HTML and CGI*** (IDG Books Worldwide, August, 1995), ***XML For Dummies***, 4th Edition (John Wiley & Sons, May, 2005; first edition published May 11, 1998), ***XML In Record Time*** (Sybex Books, December, 1998), ***HTML Style Sheets Design Guide*** (The Coriolis Group, January 1998), ***Dynamic HTML Black Book*** (The Coriolis Group, February, 1998), ***More HTML for Dummies*** (IDG Books Worldwide, 2d ed., 1997), ***The World Wide Web Encyclopedia***, CD-ROM (Charles River Media, January, 1996), ***Discover Java*** (Wiley Publishing, March, 1997), and ***The 60-Minute Guide to Java*** (IDG Books Worldwide, October, 1995). I am also a regular contributor/expert for numerous TechTarget.com websites that focus on security, networking, Windows systems, web services, and IT certification. My curriculum vitae in **Exhibit B** to this Declaration lists the books, articles, white papers, and other publications I have authored or to which I have contributed.

9. I am being compensated for the time I have spent on this matter at the rate of \$350 per hour. My compensation does not depend in any way upon the outcome of this proceeding. Additional details of my background are set forth in my current curriculum vitae, attached.



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**B. Materials Considered**

10. The analysis that I provide in this Declaration is based on my experience in the computer industry, as well as the documents I have considered including U.S. Patent No. 6,415,316 (“’316 patent”) [Ex. 1001], which states on its face that it issued from an application filed on September 1, 1998. I have also reviewed U.S. Patent No. 6,289,362 (“’362 patent”) [Ex. 1013], which states on its face that it was filed on the same day as the ’316 patent, by the same inventor and assigned to the same entity (Administrator Nederland B.V.). The ’362 patent “incorporates by reference” the disclosures of the ’316 patent. (’362, 1:9-11.) I have also reviewed claim construction rulings that I understand were made in a litigation involving the ’316 patent. [Exs. 1003, 1004].

11. I also reviewed various documents dated prior to September 1998 describing the state of the art at the time of the alleged invention of the ’316 patent (including publications authored or co-authored by me). As explained below, some of these documents are relied upon as actually disclosing the limitations of the ’316 patent, while others are being relied upon primarily for background purposes. The documents to which I cite in this Declaration are:

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Exhibit No.	Title of Document
1005	U.S. Patent No. 6,233,600 to Pito Salas et al.
1006	Ed Tittel et al., <i>More HTML for Dummies</i> (2d ed 1997), pp. xv-xxv, 57-84, 153-180, 341-364.
1007	Ed Tittel et al., <i>Foundations of World Wide Programming with HTML and CGI</i> (1995), pp. xxi-xxxvi, 125-144.
1008	William Martiner, <i>Visual Basic Programmer's Guide to Web Development</i> (1997), pp. vii-xiii, 47-97.
1009	David Fox et al., <i>Web Publisher's Construction Kit with HTML 3.2</i> (1996), pp. vii-xxv, 5-47, 51-61, 629-655.
1010	M. Frans Kaashoek et al., <i>Dynamic Documents: Mobile Wireless Access to the WWW</i> (1995)
1011	U.S. Patent No. 5,729,734 to Robert D. Parker et al.
1012	U.S. Patent No. 5,933,811 to Paul Angles et al.
1013	U.S. Patent No. 6,289,362 to Joannes Van Der Meer

**II. PERSON OF ORDINARY SKILL IN THE ART**

12. I understand that an assessment of claims of the '316 patent should be undertaken from the perspective of a person of ordinary skill in the art as of the earliest claimed priority date, which I am informed is September 1, 1998.

13. In my opinion, a person of ordinary skill in the art as of September 1998 would possess at least a bachelor's degree in information technology or computer science (or equivalent degree or experience) with at least two years of practical experience in computer programming and development and implementation of network-based systems (such as, for example, systems for communicating over the Internet or the Web). Alternatively, a person having no such formal degree could qualify as a person having ordinary skill in the art, provided that he or she had at least four years of practical experience in computer programming and the development and implementation of network-based systems (such as, for example, systems for communicating over the Internet or the Web).

14. Although my qualifications and experience exceed those of the hypothetical person having ordinary skill in the art defined above, my analysis and

opinions regarding the '316 patent have been based on the perspective of a person of ordinary skill in the art as of September 1998.

### **III. STATE OF THE ART OF THE RELEVANT TECHNOLOGY AT THE TIME OF THE ALLEGED INVENTION**

15. The '316 patent, which is entitled "Method and Apparatus for Implementing a Web Page Diary," discloses a technique for creating and displaying a web page that stores web page links and other content. ('316, 1:20-23.) In this section, I have provided a brief background of the state of Internet and web technology prior to September 1998 pertinent to the '316 patent.

#### **A. The World Wide Web and HTML**

16. The '316 patent relates generally to techniques for communicating over the Internet using the World Wide Web. The "Internet" refers to a vast interconnected network of computers. By 1993, the Internet had nearly 15 million users in almost 70 countries. (See David Fox et al., *Web Publisher's Construction Kit with HTML 3.2* (1996) [Ex. 1009] (hereafter "Fox"), at 5-6.) Many people refer to "the Internet" and "the World Wide Web" interchangeably, but these two terms identify different albeit related things. The "World Wide Web" (or "Web") refers to a specific way of communicating and conveying information over the Internet. The Web was generally understood as a network of web servers

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connected over the Internet that provide documents typically arranged in a particular format known as the HyperText Markup Language (HTML). HTML documents, commonly known as “web pages,” can be accessed using a “web browser” on the user’s computer using a protocol known as the Hypertext Transfer Protocol (HTTP). HTML documents may contain text, images, audio, video, links to other web pages or style sheets, and executable programs or scripts.

17. A “web browser” is a software program for execution on a user’s computer that allows the user to retrieve and view web pages. Prior to September 1, 1998, there were many different web browsers from which to choose. (Fox, at 52.) The two most popular web browsers as of September 1998 were Internet Explorer (from Microsoft Corporation) and Navigator (from Netscape Communications Corporation). A web browser issues requests to remote servers called “web servers.” A web server responds by sending information such as HTML documents to the browser. The web browser and web server, therefore, work together to deliver web pages and display them to a user.

18. Navigation through the Web with a web browser typically involves an address, known as a “Uniform Resource Locator” or “URL,” that specifies the

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location of a web page or other resource on the Internet. A URL is a text string that follows a specific syntax and formatting convention (e.g., “http://www.uspto.gov/”) that identifies the communication protocol (e.g., “http”), the web server or computer where the resource is located (“uspto.gov”), and may provide additional information such as a directory or name associated with the requested resource. (See Fox, at 15-18 (describing URL components).)

19. HTML files or web pages as of September 1998 were generally either “statically” stored on the web server, or generated “dynamically” by the web server in response to a request from a web browser. A “static” web page, as its name implies, is an HTML file stored on a web server that is, when requested, simply delivered to the web browser without modification. Every requesting user, therefore, will see the same web page. In contrast, a “dynamic” web page is generated “on-the-fly,” in response to a particular request by a web browser. (Ed Tittel et al., *Foundations of World Wide Web Programming with HTML & CGI* (1995) [Ex. 1007] (“Tittel (1995)”), at 125-26.) A “dynamic” web page, therefore, includes HTML and content that has been generated or tailored for the requesting web browser. Two well-known examples of “dynamic” web pages as of September 1998 would have included search engines (which display customized

search results based on user-specified search requests), and web pages showing information obtained from a database in response to a user request. (*Id.* at 126-27.) Although dynamic web pages were typically generated by web servers, as I explain in Part III.C below, it was also known that web pages could be generated at the user's computer and, more specifically, within the user's web browser.

20. A web page may include various content items such as text, graphics, audio and video. The HTML code on that page tells the web browser generally how the page should appear and how to display the content for the page.

(William Martiner, *Visual Basic Programmer's Guide to Web Development* (1997)

**[Ex. 1008]** ("Martiner"), at 60-62.) The HTML code for a given web page may include information that designates the typeface and style for text, the format and structure of the page, and arrangement of content on the page. A more advanced technique, known as "style sheets," provided even greater control over the appearance of a web page. A style sheet can be used, for example, to provide a set of formatting and display rules that can be applied across certain types of elements. (See Ed Tittel et al., *More HTML for Dummies* (2d ed. 1997) **[Ex. 1006]** ("Tittel (1997)"), at 57-58 (describing style sheets).)

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21. Style sheets can either be embedded within the HTML of a web page or contained in a separate file. In the latter scenario, commonly known as an “external style sheet,” the HTML file typically contained a tag known as a <LINK> tag that identified the URL for the style sheet file. When the web browser encountered the <LINK> tag, it downloaded the style sheet file from the server and used it to properly display the web page. (See Tittel (1997), at 68-69.)

22. Using external style sheets was exceedingly simple. As I wrote in 1997: “When you have all of the pieces and parts of a style sheet, how exactly do you link style definitions to your Web pages? It’s so simple it’s scary.” (*Id.* at 68.) Linking an external style sheet simply involved adding a single <LINK> tag to the HTML file specifying, among other things, the name of the style sheet file as stored on the web server:

```
<LINK REL=StyleSheet HREF="mystyle" TYPE="text/css" MEDIA=screen>.
```

(*Id.*)

23. In the example above, the “HREF” attribute specifies the name and location of the style sheet file. In that example, the sheet named “mystyle” is located in the same directory on the server as the web page, so a fully-qualified URL is unnecessary. If this <LINK> tag were included in a home page located at



<<http://www.uspto.gov/home.html>>, for example, the web browser would find the style sheet at <<http://www.uspto.gov/mystyle>>.

24. Externally-linked style sheets provided a clear advantage over simply embedding the style information in the HTML document itself – it allowed the web developer to apply the same style sheet file to a large collection of web pages, allowing it to more easily maintain a consistent user interface and user experience across the entire website. (*Id.* at 58 (“This flexibility creates a uniform look and feel throughout a large collection of Web documents.”).)

#### **B. Scripts, Applets and Other Browser-Based Computer Programs**

25. While HTML provided a simple means for defining the layout and format of web-based content for display in a browser, it lacked the ability to make that display interactive. Users could navigate and move to other web pages by clicking on hyperlinks, but individual pages did not provide the type of interactivity that typically is provided by native application software. The industry responded by developing a variety of technologies to create and embed downloadable programs into web pages. Two examples of these technologies, well-known prior to September 1998, included Java (from Sun Microsystems) and ActiveX (from Microsoft). Each technology provided a straightforward way to

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identify an executable computer program in the HTML for a web page, which would cause the browser to download the program to the user's computer and execute it there.

26. Java, for example, could be used to create animation, play music, play video games, display real-time video, and perform many other interactive tasks. (Tittel (1997), at 153-54; Fox, at 629-30.) Programs written in Java were typically called *applets*. (Fox, at 630.) To add a Java applet to a web page, the web page author needed only to insert the <APPLET> HTML tag into the HTML markup and place the applet file on the web server for retrieval by the web browser. (*Id.* at 631, 636-37.) For example, if a developer created a calendar applet named "Calendar.class" (applet filenames typically took a ".class" extension), it could add the following HTML code to its web page:

```
<APPLET CODE="http://tittel.com/Calendar.class" HEIGHT=300  
WIDTH=200> </APPLET>
```

27. When a Java-capable web browser encounters an <APPLET> like the one in the tag above, it downloads the named Java applet from the remote web server and executes it locally on the user's computer. The "CODE" attribute shown above contains a URL identifying the name and location of the applet file. (*Id.* at 636.) The "CODE" attribute could contain simply the name of a Java applet

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(if it was stored in the same directory as the web page), or a complete URL as shown above. (*Id.*) The “HEIGHT” and “WIDTH” attributes tell the user’s computer how much screen space the applet may occupy when executing. The closing `</APPLET>` tag signals the end of the information for the `<APPLET>` element. (*Id.* at 636-37.)

28. “ActiveX” was a similar and competing technology developed by Microsoft Corporation. (See Tittel (1997), at 176.) ActiveX was “a collection of tools designed to bring audio, animation and user interaction to Web documents.” (*Id.*) ActiveX programs were known as “ActiveX controls” or “ActiveX components,” and they could be embedded in a web page using techniques very similar to Java as described above. Suppose the calendar program discussed above were written as an ActiveX control called “Calendar.ocx” (ActiveX controls typically took an “.ocx” or “.cab” extension). The following HTML could be added to embed that ActiveX control into a web page:

```
<OBJECT CLASSID="clsid:54DDB4E0-829D-11CE-AC36-  
00AA00B47DD3" CODEBASE="http://tittel.com/My_Calendar.ocx"  
HEIGHT=300 WIDTH=200> </OBJECT>
```

(Martiner, at 76 (describing `<object>` tag).)

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29. When the web browser encounters the <OBJECT> tag above, it downloads the ActiveX control from the remote server (if it has not already been downloaded) and executes locally on the user's computer. The "CLASSID" attribute is typically a long sequence of letters and numbers that specifies a globally unique hexadecimal identifier for the ActiveX control or component. (*Id.* at 76-77.) The user's computer uses the "CLASSID" attribute to determine whether the ActiveX control or component has already been downloaded and installed. (*Id.* at 77.) The "CODEBASE" attribute contains a URL identifying the name and location of the ActiveX control. If the web browser encounters the ActiveX component for the very first time, "the browser must first download and install the component before it is used. For this reason, when you include an ActiveX component in a Web page, you must also specify the CodeBase (i.e., URL) from which the browser can download the control." (Martiner, at 77-78, 88 (describing automatic download service); *see also* Tittel (1997), at 341 ("ActiveX objects are automatically downloaded if the object is not on the user's machine.")) The ending </OBJECT> tag signals the end of the information in the <OBJECT> element.

**C. Browser-Based Computer Programs That Generate Web Pages**

30. As I mentioned previously, web pages prior to September 1998 were often generated by the web server and then transmitted to the browser. But this was not the only way a web page could be generated for display by a web browser. It was also known that computer programs running locally on the user's computer (such as Java applets or ActiveX components) could generate HTML for a web page that would be displayed by the web browser.

31. An early example of this technique was described in an article published in 1995, M. Frans Kaashoek et al., *Dynamic Documents: Mobile Wireless Access to the WWW* [Ex. 1010] ("Kaashoek"). Kaashoek describes a technique in which a web browser generates HTML-based web pages in the context of a mobile computing device. The web server transmits to the web browser a document that Kaashoek calls a "dynamic document," which includes a computer program (*i.e.* a Tcl script). "Dynamic documents are programs executed by WWW clients in order to generate the actual information displayed to the user." (Kaashoek, § 2, at 180.) Kaashoek explains that such a dynamic document may cause the client "to perform any number of actions in order to generate a final presentation to the user; other documents may be fetched, new HTML may be

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generated, information local to the client may accessed, or an entire X [Windows user] interface may be generated.” (*Id.*)

32. Kaashoek employs this technique of locally generating HTML web pages to provide a web interface for browsing and reading e-mail messages. (*Id.*, § 3.3, at 182-83.) After the dynamic document is downloaded, “[a]t the client, the browser then generates an HTML page for the message to display.” (*Id.*, at 183.) Kaashoek explains that “[t]his setup dynamically moves the application interface from the server to the client. As a result, we reduce the load on the server, we reduce the network traffic between the client and server, and we improve interactive performance.” (*Id.*)

33. Another example of a system that relies on software running on the user system to generate a web page is disclosed in U.S. Patent No. 6,233,600 to Pito Salas et al. (“Salas”) [**Ex. 1005**]. Salas describes a technique for creating an “eRoom,” a web-based collaborative environment for organizing information and sharing it with other users. As explained in Salas, “[a]n eRoom is a set of connected HTML pages displayed to a user that displays project-related files, data and discussion lists. Members of a team may congregate, share work and files,

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discuss ideas, stay informed and otherwise collaborate on common projects using an eRoom.” (Salas, 5:6-11.)

34. The system described in Salas, like that of Kaashoek, relies on software running in the user’s web browser to generate web pages locally. (*Id.*, 2:20-27, 6:64-7:4.) Salas explains that this software in one embodiment can be implemented as an ActiveX control:

Generation, display and management of eRooms is controlled by a “page builder” application residing on the client workstation **12**’. The page builder application may be provided as specialized hardware or software operating on a general purpose machine. In some embodiments, the page builder application may be provided as an Active X control or a COM object.

(*Id.*, 6:57-63.)

35. The page building software generates web pages by combining two pieces of information: (1) a web page “template” that specifies the design and layout of the web page; and (2) project data for display on an eRoom page. (*Id.*, 6:64-7:7, 10:66-11:12.) As explained in Salas:

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The client workstation **12'** uses project data received from the server **14** in combination with one or more template files to create and display to the user of the client workstation a private, secure collection of HTML pages that provide a virtual workroom for members of a team, whatever its size and wherever the members of the team are physically or corporately located, may be referred to throughout as an "eRoom", or an "eRoom page".

(*Id.*, 4:66-5:6.)

36. I provide a more detailed description of the operation of Salas in **Part V** below. As explained in Part V, the disclosures of Salas are remarkably similar to the system described the '316 patent.

#### **IV. THE '316 PATENT'S TECHNIQUE FOR ASSEMBLING WEB PAGES**

##### **A. The Specification of the '316 Patent**

37. The '316 patent, which is entitled "Method and Apparatus for Implementing a Web Page Diary," discloses a technique for creating and displaying a web page that stores web page links and other content. ('316 patent [Ex. 1001], 1:20-23.) The section entitled "Background of the Invention" states that "the Internet is the current 'ultimate' in information and communication



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technology. Still, it has quite a few drawbacks.” (*Id.*, 1:26-27.) One such “drawback,” according to the patent, pertains to difficulties some users may experience in creating a personalized web page because “setting up and maintaining a Website requires more knowledge and effort than many users possess.” (*Id.*, 1:40-41.)

38. The ’316 discloses a method and system for organizing and displaying information through a web page referred to in the patent as a “cohesive diary page.” As explained in the Summary of the Invention:

The present invention allows a user to create a “diary” containing multimedia references to Websites. These references (also called “content objects” or “objects”) can be addresses or URLs of, for example, text, bookmarks, images, programs, movies, etc. Many content objects are provided via the Websites of “content providers,” with the specific intent of making the content objects available to a user to place in his diary. Other content objects can be copied from the diaries of other users. Still other content objects are entered by the diary owner himself.

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(*Id.*, 2:2-11.) The specification further explains that the term “diary” arises “because the invention preferably allows the diary owner to save these references in association with dates and/or times.” (*Id.*, 2:12-14.)

39. In one embodiment described in the specification, the diary page owner selects a visual “theme” for the pages of his or her diary, the theme “reflect[ing] how the diary owner wants to present himself and his diary to the world.” (*Id.*, 2:26-29.) “The diary owner can set various levels of privacy for different portions of his diary. Therefore, certain portions of the diary (for example, a daily entry or a reminder list) can by [sic] viewed only be [sic] the diary owner, while other portions of the diary can be viewed by anyone with a web browser. Therefore, a diary owner may organize all or part of his diary to present an image of himself to the world.” (*Id.*, 2:40-46.)

40. People often think of the word “diary” as referring to a personal and private journal that is viewed only by a single individual – the owner of the diary – who authors all content in the diary. The “diary page” disclosed in the ’316 patent, however, diverges from this everyday usage in many ways. As explained above, the specification states that a “diary page” may contain content objects and links from third party web sites. (*Id.*, 2:2-11, 4:62-67, 5:19-24.) That content

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may be placed on the diary page by its owner, or by any other user who has permission to do so. (*Id.*, 5:19, 6:9-11 (“A diary owner can provide permission to authorized users to insert content entries manually or by other means, copy, delete, or move content entries.”).) Additionally, “[t]he diary can be read concurrently by multiple users in different locations.” (*Id.*, 5:48-49.)

41. The specification describes various ways in which content may be organized on a diary page (e.g., based on topical sections and chronological order), but those appear to be described as examples and not limitations that are essential to the “diary” of the alleged invention. (*Id.*, 4:67-5:8.) Based on the multiple different ways in which a “diary page” may be created and presented, therefore, the term “diary page” would be understood by a person of ordinary skill in the art to simply refer to a web page (which may be owned by a person or entity) that contains content data sent by a server to the user system.

42. The specification provides a lengthy description of the diary creation system, but the claims address only one aspect of it – the mechanics of actually assembling and displaying the “cohesive diary page” in a user’s browser. This section of my Declaration will therefore focus on the portions of the ’316 specification pertaining to the claimed process.

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43. In order to assemble and display a “diary page” to the user, the ’316 patent explains that the server must send two pieces of information to the viewer’s web browser: (1) “**diary information**,” which I will describe in more detail below, and (2) a “**diary program**” (or “**diary applet**” as it is referenced in the specification), which is an executable computer program that runs in the user’s web browser. The purpose of the “diary program,” as explained in more detail below, is to generate a diary page based on the “diary information” received from the server. (*Id.*, 7:1-3, 9:7-9.)

44. “Diary information” in the context of the ’316 patent comprises three types of information. First, the “diary information” includes the “**content data**” (or content objects as they are referenced in the specification) that may be displayed to a user. “A content object can be any type of object, including text, bookmarks, images, programs, movies, etc. The set of content objects inserted into the diary by the user is known as the ‘book content.’” (*Id.*, 5:21-25.)

45. Second, the “diary information” includes “**page design**” information, which is layout or style information that defines (at least in part) the visual appearance of a diary page. (*Id.*, 5:15-18 (“The page design defines the visual and audible appearance of the page. A page design provides slots for content entries

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or objects. The page design determines the size and location of these slots within the page.”.) The specification also uses the terms “presentation context” and “cover” to refer to this page design information. (*Id.*, 8:59-64, 17:60-61.) In one embodiment in the specification, the page design is represented as an HTML file that provides a template for the diary page. (*Id.*, 17:60-64, Fig. 12.) The HTML template includes textual strings referred to as “generator tags” that are used by the diary program, at the time the page is generated, to fill-in the correct data corresponding to the tags. (*Id.*, 17:64-18:3.) An exemplary listing of these tags is shown in Figure 12:

Generator Tag	Substituted By	Example Value
_SECTION_	the name of the section	Addresses
_DATESTRING_	the date	March 13, 1998
_YEAR_	the year	1998
_MONTH_	the month	3
_MONTHNAME_	the month	March
_DAY_	the day of the month	13
_WEEKDAY_	the day of the week	Friday
_TIME12_	the time of an entry in am/pm	9:30 pm
_TIME24_	the time of an entry, 24 hour based	21:30
_PAGE_	the number of the current page within a section	2
_MAXPAGE_	the total number of pages in a section	5

(*Id.*, Fig. 12 (partial figure shown).)

46. The specification states that the “**content data**” and the “**page design**” are “independent” of one another. This allows the user to change content data without changing the page design, and vice versa. (*Id.*, 5:26-28 (“Unlike a traditional book, the book design and book content of a diary are independent. Both of [sic] the book design and the book content may be changed at any point in time.”).)

47. The third type of “diary information” is referred to in the specification as “**configuration information**,” which includes “**privacy level information**.” The patent explains that “configuration information” is used to determine whether a user is permitted to view or access content on a diary page. “If a user does not have sufficient permission to view an object in a diary,” for example, “the diary may not make the object visible to the user, i.e., the user does not even know that the object exists, or it may present the object using an alternate representation.” (*Id.*, 5:63-67.) This is accomplished through use of “configuration information,” such as passwords, privacy levels or information identifying the authorized user. (*Id.*, 9:2-4 (“The configuration information, such as privacy level, passwords, or the full name of the user, is user-specific.”), 10:51-

54 (“The passwords for a particular user’s diary pages are stored as configuration information in that user’s diary information **114**.”).)

48. After the “**diary program**” receives the “**diary information**” from the diary server, the “diary program” generates HTML for the diary page based on the received information. (*Id.*, 7:1-3 (“Diary applet **112** reads diary information **114** received from the server and generates HTML **111** for one or more diary pages in accordance with diary information **114**.”); *see also id.*, 9:7-9.) The “diary program” described in the ’316 patent can be implemented as a Java applet, an ActiveX control, or any other appropriate executable program. (*Id.*, 6:52-56.) In the embodiment described in the specification, the diary page assembly takes place by “on the fly” substitution of the tags in the template HTML file with the appropriate content. (*Id.*, 17:61-18:3.)

49. Generation of the diary page also takes into account the “**configuration information**” and “**privacy level information**” received from the server. As mentioned previously, this means that if a user does not have permission to view an object in a diary, “the diary may not make the object visible to the user, i.e., the user does not even know that the object exists, or it may present the object using an alternate representation.” (*Id.*, 5:63-67; *see also id.*

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18:15-20 (“When a diary applet executing in the browser receives information for the user’s diary, the diary applet generates HTML only for those portions of the diary that have a privacy level lower than or equal to the privacy level of the viewer who is viewing the diary.”), *id.*, 17:19-21 (“Because of privacy concerns, content is ‘filtered’ by the session layer, which allows the user to see only the content that he is permitted to see.”).)

**B. The Claims of the ’316 Patent**

50. The two independent claims of the ’316 patent addressed in this Declaration – claims 1 and 17 – purport to recite a method and apparatus, respectively, for implementing the diary page generation process that I described in the preceding section. Claim 1 recites:

1. A method of organizing information for display, comprising:
  - [a] sending from a diary server to a user system, a diary program capable of being executed by a browser in the user system;
  - [b] sending diary information from the diary server to the user system, the information comprising content data including an associated time, a page design to specify the presentation of the content data, and



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configuration information for controlling behavior of a cohesive diary page,  
the configuration information including privacy level information;

[c] assembling the cohesive diary page by dynamically combining the  
content data and the page design in accordance with the configuration  
information for the cohesive diary page to be displayed by the diary  
program running in the browser;

[d] receiving by the diary server at least one request for at least one  
change concerning the diary information, from the diary program in the  
user system; and

[e] sending, by the diary server to the user system, new diary  
information for changing the cohesive diary page.

('316, Claim 1.) I added the bracketed notations (*e.g.*, “[a],” “[b],” etc.) to facilitate  
easier identification of these limitations in my Declaration. The other independent  
claim discussed in my Declaration is claim 17. That claim is similar in many  
respects to claim 1 but was drafted as an apparatus claim:

17. An apparatus that displays and organizes information, comprising:

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[a] a software portion configured to receive, by a user system from a diary server, a diary program capable of being run by a browser in the user system;

[b] a software portion configured to receive, by the user system from the diary server, diary information comprising content data including an associated time, a page design to specify the presentation of the content data, and configuration information for controlling behavior of a cohesive diary page, the configuration information including privacy level information;

[c] a software portion configured to assemble the cohesive diary page by dynamically combining the content data and the page design in accordance with the configuration information; and

[d] a software portion configured to display the cohesive diary page, by the diary program running in the browser.

('316, Claim 17.)

51. Unlike claim 1, claim 17 does not include the additional steps from claim limitations 1[d] and 1[e] relating to software for changing diary information

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and receiving new diary information for the page. A similar requirement is addressed by dependent claim 26:

26. The apparatus of claim **17** further comprising:

a portion configured to receive, from the diary server, new diary information;

a portion configured to change content of the diary page without changing a general appearance of the diary page, in accordance with the new diary information.

(’316, claim 26.) The additional claims addressed in this Declaration, claims 4, 18 and 20, are dependent claims that add, in my opinion, nothing of patentable significance. I address those claims in more detail below.

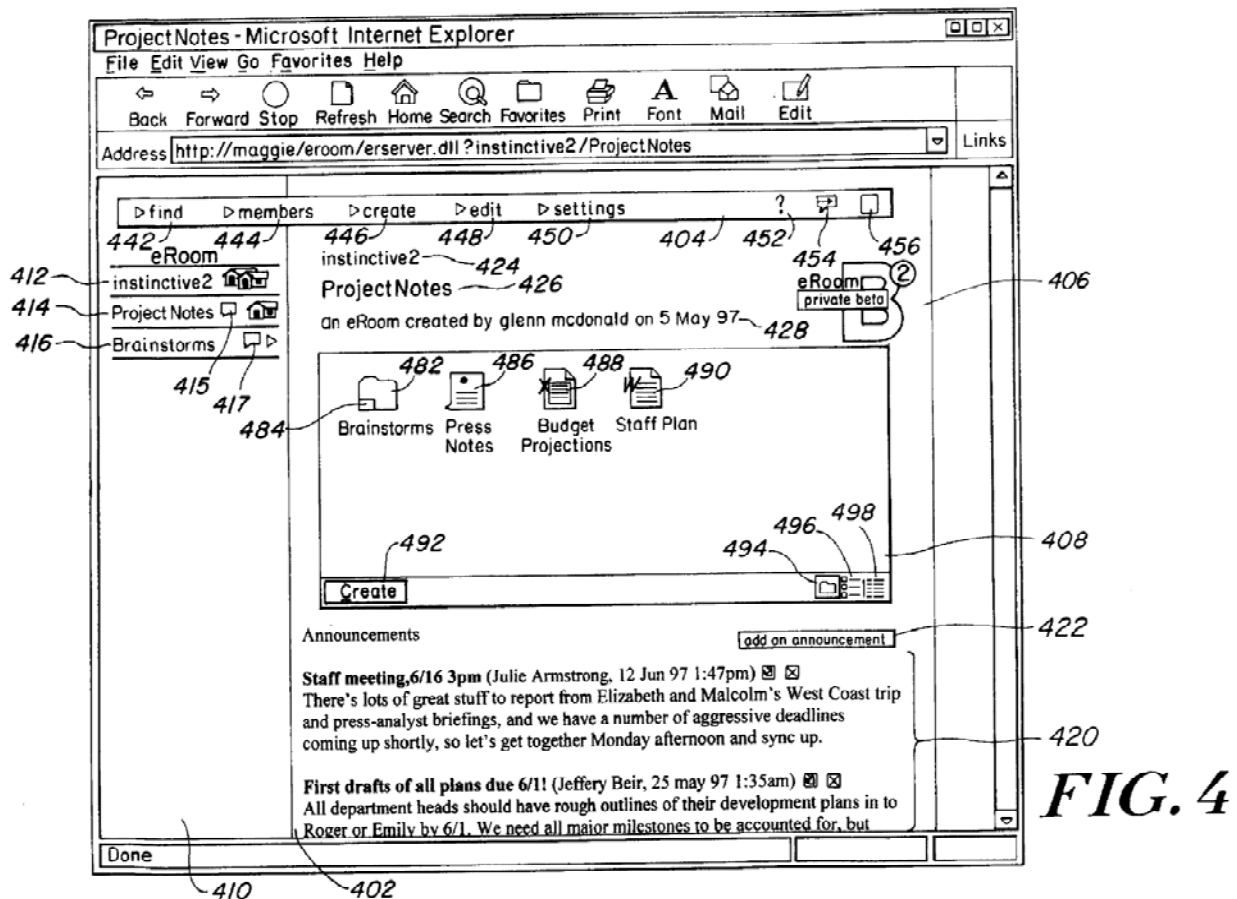
**V. APPLICATION OF THE PRIOR ART TO THE CLAIMS OF THE ’316 PATENT**

52. I have reviewed and analyzed the prior art references and materials listed in **Part I.B** above. In my opinion, the Salas (eRoom) reference that I briefly summarized above, alone or in combination with other references as described below, discloses or suggests each limitation of claims 1, 4, 17, 18, 20 and 26. I am informed that Salas properly qualifies as prior art because it states on its face that it issued from a patent application filed on July 15, 1997, prior to the filing date of the application for the ’316 patent.

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53. I provided a brief background on the Salas reference above, and I provide more detail here. Salas, entitled “Method and System for Providing a Networked Collaborative Work Environment,” describes a web-based technology for organizing information. As explained in Salas, “[a]n eRoom is a set of connected HTML pages displayed to a user that displays project-related files, data and discussion lists. Members of a team may congregate, share work and files, discuss ideas, stay informed and otherwise collaborate on common projects using an eRoom.” (Salas **[Ex. 1005]**, 5:6-11.) Figure 4 shows an exemplary eRoom page a user might see using the Internet Explorer web browser. (*Id.*, 5:21-24.)

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54. An eRoom page such as the one shown in Figure 4 above qualifies as a “**cohesive diary page**,” as I explain in more detail below. Users interact with eRooms “by using Web browsers in a traditional manner. That is, users may traverse a hyperlink to access an eRoom, or users may directly enter a URL address into the browser.” (*Id.*, 6:40-43.) As I explained in **Part IV.A**, above, the “diary page” of the ’316 patent is not a personal and private journal viewed by a single individual. The ’316 patent explains that, like the eRoom page shown

above, a “diary can be read concurrently by multiple users in different locations.”

(’316, 5:48-49.) A diary page may also contain content placed on the diary page by its owner, or by any other user who has permission to do so. (*Id.*, 5:19, 6:9-11 (“A diary owner can provide permission to authorized users to insert content entries manually or by other means, copy, delete, or move content entries.”).) In my opinion therefore, the eRoom page in Salas qualifies as a cohesive diary page.

55. Salas explains that each eRoom project contains a “project database” that is stored on a server (**14**). (Salas, 2:30-32, 3:24-27, Fig. 1 (**14**).) Salas also discloses at least one client workstation (**12**), connected to the eRoom server (**14**) through a network. (*Id.*, 3:17-18 (“Client workstations **12**’ are connected to one or more servers **14**.”).) Each client workstation stores some subset of the project database, such as “information related to the project which is relevant to that user’s effort on the project.” (*Id.*, 2:32-34.) Based on my comparison of the disclosures of Salas with the ’316 patent, in my opinion Salas discloses or suggests the techniques disclosed and claimed in the ’316 patent.

**A. Salas Discloses the “Diary Program” of the ’316 Patent**

56. Salas discloses a “**diary program**” in that it relies on a software program running in the user’s web browser to generate the HTML for the eRoom

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page (the “**cohesive diary page**”). Salas describes, for example, “a method for locally generating HTML pages for display,” based on project data and an HTML web page template. (*Id.*, 2:20-27, 6:64-7:4.) The software that generates the HTML for the eRoom pages is referred to as a “page builder” application:

Generation, display and management of eRooms is controlled by a “page builder” application residing on the client workstation **12’**. The page builder application may be provided as specialized hardware or software operating on a general purpose machine. In some embodiments, the page builder application may be provided as an Active X control or a COM object.

(*Id.*, 6:57-63.)

57. Salas discloses other software programs executing in the client workstation (*e.g.* ActiveX controls) that generate and handle other aspects of the eRoom page. (*Id.*, 5:29-36 (describing Java applet or ActiveX control for handling embedded discussions), 5:54-59 (same; for providing pictorial identification of the page); 13:23-26 (describing ActiveX control for handling uploading of files).) In my opinion, the page builder and other ActiveX software programs described in Salas correspond to the “diary program” recited in the ’316 patent. As noted

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previously, the '316 patent specifically states that the “diary program” may be implemented using ActiveX controls. ('316, 6:53-56 (“[A]ny appropriate executable program can be used to implement the functionality of the diary applet **112**, including but not limited to JavaScript, ActiveX controls, Visual Basic, and plug-ins.”) (underlining added).)

58. Salas does not state that the eRoom server (**14**) sends the ActiveX controls to the client workstation (**12**). Salas instead simply takes for granted that the ActiveX controls are installed on the client workstation, and does not explain how they were delivered. In my opinion, this simply represents the omission of a trivial, well-understood detail from the disclosures of Salas that would have been readily apparent to one of ordinary skill in the art. As I explained in my description of ActiveX in Part **III.B** above, it was well known that ActiveX controls were downloaded to the user’s computer from the web server. Embedding an ActiveX control in a web page specifically required the web developer to expressly specify the URL for the ActiveX file in the HTML. (See Martiner, at 77-78 (“As was previously stated, if the client system has not yet installed the component, then the browser must first download and install the component before it is used. For this reason, when you include an ActiveX component in a Web page, you must



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also specify the **CodeBase** (i.e., URL) from which the browser can download the control.” (Martiner, at 77-78 (boldface in original), *id.* at 88 (describing Internet automatic download service).) Similarly, as I explained in my 1997 reference:

“ActiveX objects may reside in stand-alone machines, on a LAN or intranet, or on the Internet. Specialized for the Internet, ActiveX objects are automatically downloaded if the object is not in the user’s machine.” (Tittel (1997), at 341 (definition of “ActiveX”) (underlining added).) My reference also explained that ActiveX, like Java, “make[s] it possible to send small programs to a Web browser without requiring the involvement of any other special software on the desktop or back-end capabilities from a Web server.” (*Id.* at 176 (bottom left column) (underlining added).)

59. One of ordinary skill in the art would therefore have understood that the ActiveX controls in Salas were necessarily downloaded (at least once) from the eRoom web server. The ability to download an ActiveX control from the server hosting the web page was so basic to the functionality of ActiveX that one of ordinary skill in the art would have regarded Salas’s absence of an express statement to that effect as insignificant, and in fact, as an omission of a detail well within the general knowledge of a skilled artisan. As I explained in my 1997

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reference, “ActiveX objects are automatically downloaded if the object is not in the user’s machine.” (Tittel (1997), at 341 (definition of “ActiveX”).)

60. Even assuming there was some question as to whether the ActiveX controls in Salas were sent by the web server (**14**), it would have been obvious to one of ordinary skill in the art to adapt the system of Salas to require the client workstations (**12**) to obtain the ActiveX controls that make up the “diary program” from the eRoom server (**14**). As I explained previously in **Part III.B**, the ability to download an ActiveX control from the web server was built into the <OBJECT> element itself – the very technique by which an ActiveX control would be embedded in a web page.

61. A skilled artisan as of September 1998 would have recognized a number of benefits of downloading ActiveX controls from the web server. First and foremost, it makes installation of ActiveX controls both easy and automatic for users. Software installation prior to the Internet and Web typically involved a user obtaining a CD-ROM or other physical medium and inserting it into the disk drive of the computer, in some cases requiring the assistance of a system administrator. These hassles and inconveniences are eliminated by the ability of an ActiveX control to download and install automatically upon the first visit to the

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web page on which the control has been placed. (Tittel (1997), at 341; Martiner, at 88.)

62. Second, using the built-in ActiveX download technique ensures that the user always has the most up-to-date version of the ActiveX control or component. (See Martiner, at 89 (“For this reason, not only does the [ActiveX] Internet Download Service look to see if a component is installed on the system, but it also checks to ensure that the most recent version of the control is present.”).) One of the clear advantages of software delivered over the Internet or Web, in fact, was the ability to instantly deliver the most current versions of software without the cost and time associated with using a physical storage medium, such as a CD-ROM or floppy disk, to disseminate software and/or software updates to a user.

63. Finally, ActiveX download techniques provide the advantage in that the control or component need only be downloaded once to the user’s web browser. “Once you have the component installed on your system, the next time that your browser needs to instance that type of component, no download is needed; it is simply instanced when it is called.” (Martiner, at 88.) “Since this file

transfer only needs to happen once over the Internet, the client perceives ActiveX controls as being loaded very quickly.” (*Id.*)

64. Finally, I note these teachings are entirely consistent with the system of Salas, which likewise only downloads files if needed. *See* Salas, 12:23-28 (“[T]he first step taken by the background daemon is that the local file directory is checked to determine if the selected file is already resident in local mass storage associated with the client workstation **12**’ (step **602**). If the file is not present or is stale, then it must be downloaded from the server **14**.”).)

**B. Salas In View of Tittel (1997) Discloses the “Diary Information” in the ’316 Patent**

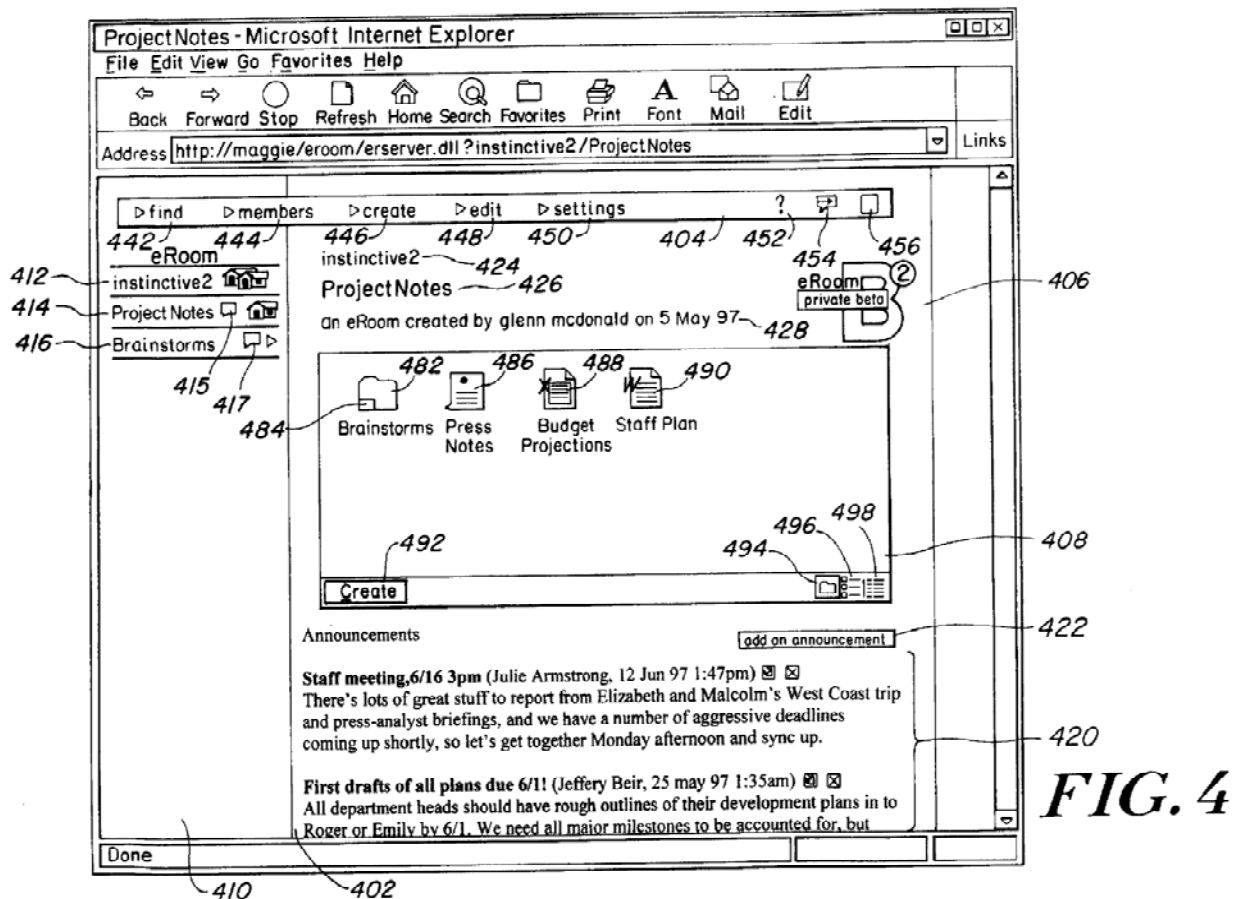
65. Claim 1, limitation **[b]** recites the step of “sending diary information from the diary server to the user system, the information comprising content data including an associated time, a page design to specify the presentation of the content data, and configuration information for controlling behavior of a cohesive diary page, the configuration information including privacy level information.” The “**diary information**” in this limitation includes three different types of information: (1) “content data including an associated time,” (2) “a page design,” and (3) “configuration information . . . including privacy level information.” I

explain below how Salas by itself, and in view of Tittel (1997), discloses or suggests each of these types of diary information.

1. **“Content Data Including an Associated Time”**

66. As I explained above, the eRoom server (**14**) in Salas sends project files and other content for the eRoom from the server (**14**) to the client workstation (**12**). As explained in Salas: “Client workstations **12**’ generally have local memory elements for storing data objects of files associated with a project that are downloaded from the server **14** as well as one or more eRoom templates.” (Salas, 5:12-15.) This is shown in Figure 4 below, which depicts an eRoom page showing several examples of content data:

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(Salas, Fig. 4.) As shown in Figure 4 above, the content data includes items such as the items under “Announcements,” the first being a “**Staff meeting**” entry from “Julie Armstrong” at “12 Jun 97 1:47 pm.” (*Id.* (underlining added).)

67. Salas discloses at least two other examples of transmission of content data that includes an associated time. Figure 4 above also shows content data in an item box (408) in the middle of the screen that contains icons for content items, including a notes file called “Press Notes” (486), a spreadsheet file called “Budget Projections” (488), and a word processing file called “Staff Plan”

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(490). (*Id.*, 5:60-64.) Each of these items has an associated date or time. Although those dates and times are not visible in Figure 4, this is because the current display mode for the item box (408) in Figure 4 happens to be set to “icon display,” which displays only the icon and name of the item and does not display the date and time. (*Id.*, 6:4-7.) The eRoom page can display files using three different user-selectable viewing modes, one of which provides a list display that shows the date and time associated with each file.

68. In particular, Salas explains that: “In the embodiment shown in FIG. 4, three icons are provided: an ‘icon display’ icon 494 (currently selected) which causes items to be displayed as large icons with identifying text underneath; a ‘list display’ icon 496 which causes items to be displayed as small icons with identifying text to one side of the icon; and a ‘report display’ icon which causes items to be displayed as a list.” (*Id.*, 6:4-10 (emphasis added).) Salas explains that selecting the “report display” icon will produce a list of the files in the item box (408), which “may be alphabetized, ordered by size of item, ordered by creation date, ordered by modification data [sic; date], or ordered by some other data field associated with each item.” (*Id.*, 6:10-13.) Salas therefore makes clear that each of the files in the item box (408) comprises content data that includes an

associated time of creation and modification, even though that information was not shown in the “icon mode” display used to create Figure 4. To display the creation and modification dates in “report display” mode, that information must have been transmitted to the client (and is indeed part and parcel of item metadata, usually called “file attributes,” in most file systems).

69. Finally, Salas discloses an alternative “report display” in which the item box (408) shows the date and time of modification for each content item. An eRoom page may be configured, in fact, to automatically display each file’s time of last modification when it is first displayed. (*Id.*, 8:34-38 (“The ‘DYNAMIC’ section for the example above specifies that the item box in a Folder starts displaying items in Report display, does not show a column for creation date, does show the time along with the date in the Modified column, and has modified column widths.”) (underlining added).) This provides another example in which content data and an associated time is sent from the eRoom server (14) to the client workstation (12). Any of the examples above discloses sending, from the diary server to the user system, content data including an associated time.



2. **“Page Design”**

70. Salas also discloses that eRoom server (**14**) sends “diary information from the diary server to the user system, the information comprising . . . a page design to specify the presentation of the content data.” The “page design” information in Salas comprises a “wrapper” file which, in turn, identifies a corresponding eRoom “template” that specifies the layout and style of the eRoom page:

[I]f the URL address is an eRoom, the server of the file returns a file of control information, referred to as a “wrapper” file. The wrapper file is an HTML file which contains, among other information, an identification of the object to be displayed. The wrapper file delivers an object ID which is used by the client workstation **12'** to look up the object in the local database **20** stored on the client workstation **12'**. The local database **20** includes information about the object, including which eRoom template to use and information regarding any “children” the object may have (for example, items contained in the item box).

(Salas, 6:45-56 (underlining added).) Salas further explains:

Referring to FIG. 5, the first step that is taken by the page builder application is to retrieve the eRoom template indicated by the wrapper file (step 502). An eRoom template is an HTML file having additional eRoom-specific information embedded in it.

(*Id.*, 6:64-7:1 (emphasis added).)

71. The eRoom template contains layout or style information that defines, at least in part, the visual appearance of the eRoom page. According to Salas, “eRoom information in a template includes sections controlling the page itself, the controls on it, and the way the page’s data is presented [sic; when] the page is created or edited.” (*Id.*, 7:8-10.) The eRoom template includes a series of “properties” specifying, for example, the way the items will be displayed on the page (e.g., in small icon, large icon or report view modes) (*id.*, 8:55-58), the width of the item box in Figure 4 (*id.*, 9:31-35), whether particular pieces of information will be displayed (e.g., the size, owner, date of a file) (*id.*, 9:13-24), and how columns on the eRoom page should be sorted (*id.*, 9:13-30). The “wrapper” and “template” files are independent of the content data, as there is nothing in Salas suggesting that the “wrapper” and “template” files are embedded within the content files themselves.

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72. Salas makes clear that the “wrapper” file is transmitted from the server (**24**) to the client workstation (**12**) (*id.*, 6:45-47), but reminiscent of my “diary program” discussion above, Salas does not explain how the eRoom template itself made its way onto the client workstation. Salas states that the downloaded “wrapper” file specifies the object and is used to determine the corresponding eRoom template, but the wrapper file does not itself appear to carry the information in the template file.

73. For many of the same reasons that I explained above in connection with downloaded ActiveX controls, the omission of an express description of downloading the template from the eRoom server (**14**) to the client workstation (**12**) does not provide any meaningful distinction between the ’316 patent and Salas. One of ordinary skill in the art would have readily appreciated that a file containing layout or style information could be downloaded from the server hosting the web page. As I explained in **Part III.A** above, the ability to embed external style sheets into an HTML file was well known, the style sheets specifying the appearance of certain elements of the web page. Style sheets serve substantially the same purpose as the templates in Salas – to specify a set of parameters for the appearance of a page. (Tittel (1997), at 58 (“In general, a style

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sheet defines a set of layout parameters for a document to ensure that similar elements in the document appear uniformly.”.) As I explained in my 1997 reference, style sheet information could very easily be placed in a file and referenced in a separate HTML file:

When you have all of the pieces and parts of a style sheet, how exactly do you link style definitions to your Web pages? It’s so simple that it’s scary. After you put together a style sheet, you can reference the style sheet from any HTML page by using the <LINK> tag.

(*Id.* at 68 (under “**Linking to External Style Sheets**”).) My 1997 reference also provides an example of using the <LINK> tag that includes an attribute (“HREF”) that specifies the URL of the style sheet to which the <LINK> tag refers. (*Id.*) This <LINK> tag could also be used to style information having different types and formats. (*Id.* at 68-69.)

74. It would have been obvious to one of ordinary skill in the art to adapt the “wrapper” file of Salas to include a reference to an eRoom template stored on the eRoom server (**14**). Salas makes clear that the template file itself is an HTML file. (Salas, 6:66-7:1 (“An eRoom template is an HTML file having additional eRoom-specific information embedded in it.”) (underlining added).) The wrapper

thus certainly could have included a <LINK> tag, which was a standard HTML tag at the time of the alleged invention. Adding a <LINK> tag to the wrapper HTML file to identify the location of a template file on the eRoom server (**14**) would have predictably resulted in the system of Salas in which both the wrapper file *and* the eRoom template file are obtained from the server (**14**) to the client workstation (**12**) when the eRoom is accessed by the user's web browser.

75. There would also have been several advantages over a system in which the template files must be stored or "pre-loaded" onto the client workstation. Salas makes clear that the template file is used by the ActiveX control to generate the eRoom web page. (Salas, 6:57-7:1, 10:66-11:3.) The benefits of obtaining the eRoom template from the server, therefore, mirror the advantages of obtaining the ActiveX controls from the server. Those benefits, as identified above, include: (1) simplifying installation of the ActiveX controls and templates; (2) ensuring that the user has the most up-to-date and correct template for use with the ActiveX controls; and (3) the ability to only download the template once to the user's web browser. Downloading the template files from the server (**14**) would allow the user to access an eRoom from a different computer where the eRoom template files have not yet been stored. This would

provide additional flexibility (by allowing the user to access the eRoom from any web-connected computer), and reduce administrative costs by avoiding the need for a system administrator to “pre-install” the template files on each computer used to access an eRoom.

3. **“Configuration Information” and “Privacy Level Information”**

76. Finally, Salas discloses or suggests that the eRoom server (14) sends “diary information from the diary server to the user system, the information comprising . . . configuration information for controlling behavior of a cohesive diary page, the configuration information including privacy level information.” As I explained above in **Part IV.A** above, the specification of the ’316 patent indicates that “configuration information” and “privacy level information” are used to determine whether a user is permitted to view or access content on a diary page. The eRoom file access information does just that.

77. Salas explains that “[s]ince every file and eRoom is represented as an object in the database, access of users to each item can be controlled by entries in the database schema.” (Salas, 14:37-39.) For example, each file in the database may contain “file metadata” that includes “access information such as which users may open, view and edit the file” (*id.*, 13:52-55). For example, this access

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information can specify whether the requesting user has permission to view or edit a specific file. (*Id.*, 12:34-39 (“[T]he access rights of the requesting user are checked. If the user has appropriate access rights, i.e., ‘can edit’ if the user has indicated editing will occur or ‘can view’ if the user has indicated only viewing will occur, the user will be allowed to retrieve the file.”).)

78. Salas also makes clear that this information is transmitted to the client workstation (**12**) prior to the display of the eRoom page. Salas describes a file synchronization technique in which the server sends updated information to the client workstation. (*Id.*, 11:12-67.) This synchronization results in the file metadata – which includes the access rights discussed above – being transmitted to the user system. “Once synchronization has been accomplished and local database metadata has been updated, the appropriate data objects are inserted into the eRoom . . . .” (*Id.*, 12:1-3.) The fact that the file metadata is sent to the user system prior to display of the eRoom page is also shown in the fact that the file metadata includes dates and/or times associated with each file (*id.*, 13:52-54, 8:34-38), which can be displayed on the eRoom using the “report display” view mode. (*Id.*, 6:10-13, 8:34-38.) As I explained above in the discussion of content data including an associated time, the ability to display the date and/or time of

files on the eRoom page also indicates that the metadata for those files was sent by the server to the client workstation.

**C. Salas In View of Parker Discloses the “Diary Program” Assembling a “Cohesive Diary Page” Based on the “Diary Information”**

79. Claim 1, limitation [c], recites the step of “assembling the cohesive diary page by dynamically combining the content data and the page design in accordance with the configuration information for the cohesive diary page to be displayed by the diary program running in the browser.” As I mentioned previously, the **“cohesive diary page”** in Salas is the eRoom page, an example of which is shown in Figure 4. (Salas, Fig. 4.) The page builder application in Salas (**“diary program”**) assembles the eRoom page (the **“cohesive diary page”**) by combining the project data (**“content data”**) and the eRoom template (**“page design”**):

The client workstation **12'** uses project data received from the server 14 in combination with one or more template files to create and display to the user of the client workstation a private, secure collection of HTML pages that provide a virtual workroom for members of a team, whatever its size and wherever the members of



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the team are physically or corporately located, may be referred to  
throughout as an “eRoom”, or an “eRoom page”.

(*Id.*, 4:66-5:6; *see also id.*, 6:57-59 (“Generation, display and management of eRooms is controlled by a ‘page builder’ application residing on the client workstation 12’.”).) Salas explains that the page builder application generates the web page by, among other things, “filling in” any replacement properties specified in the eRoom template. (*Id.*, 10:66-11:3.)

80. More specifically, the eRoom template file may include “replacement” properties that specify tags that will be replaced with particular corresponding content. “[O]nce the appropriate template has been retrieved from mass storage associated with the client workstation (step **502**), the next step taken by the page builder application is to replace all of the Replace Properties contained in the template with project information from the project database (step **504**). (*Id.*, 10:44-49.) The replace property “\$ROOM,” for example, tells the browser to insert the name of the eRoom at that location. (*Id.*, 10:51-54.) “In order to fully render an eRoom,” Salas explains, “the page builder application uses the portion of the project database which is stored locally on the client workstation **12**’, as well as any files which are stored locally, to ‘fill in’ any replace

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properties contained in the template.” (*Id.*, 10:66-11:3.) This technique closely mirrors the technique in the ’316 patent for using “on the fly” substitution of “generator tags” to generate a cohesive diary page. (’316, 17:60-18:3.)

81. As explained previously, Salas discloses privacy level information in the form of “file metadata” that includes “access information such as which users may open, view and edit the file.” (Salas, 13:52-55.) The displayed eRoom page ensures that each user can access the files based on his or her specific access control setting. As explained in Salas: “Files displayed by an eRoom may be viewed or edited by team members having the appropriate access controls (discussed in more detail below).” (*Id.*, 12:7-9.) The eRoom page in Salas is therefore assembled “in accordance with the configuration information for the cohesive diary page,” as recited in the ’316 patent.

82. As explained later in that column of Salas, when a user viewing an eRoom page attempts to access a file (for example by double-clicking the file (*id.*, 12:10-15)), the user’s access level is verified to ensure that the user can perform the requested operation:

[T]he access rights of the requesting user are checked. If the user has appropriate access rights, i.e., “can edit” if the user has indicated

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editing will occur or “can view” if the user has indicated only viewing  
will occur, the user will be allowed to retrieve the file.

(*Id.*, 12:34-39.) The privacy level in Salas permits the user to view the list of files in the project, but may prevent access upon an attempt by the user to view or edit one of those files. The access rights verification step described above is performed by a software process (“background daemon”) executing on the client workstation. (*Id.*, 12:16-22, 12:23-27.)

83. In my opinion, the disclosures from Salas discussed above, including the statement that “[f]iles displayed by an eRoom may be viewed or edited by team members having the appropriate access controls” (*id.*, 12:7-9), by itself suffices to disclose the assembly of the cohesive diary page “in accordance with the configuration information,” as recited in claim 1. In one embodiment in the ’316 patent specification, however, when a user is not permitted to access the file, “the diary does not make the object visible to the user, i.e., the user does not even know that the object exists, or it may present the object using an alternative representation.” (’316, 5:63-67.) I do not believe that the plain language of limitation [c] of claim 1 requires a visual indication, on the eRoom page itself, as to whether or not the user can access a particular file.

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84. In the event the claim is interpreted to require some visual indication on the “cohesive diary page” of the privacy level associated with the viewing user, the disclosures of Salas could be combined with U.S. Patent No. 5,729,734 to Robert D. Parker et al. (“Parker”) [Ex. 1011] to render this limitation obvious to one of ordinary skill in the art. Parker, entitled “File Privilege Administration Apparatus and Methods,” discloses a series of user interface techniques in order to display and modify the privileges of individual users to access for what Parker calls a server “sharepoint,” which is defined in Parker as “an item, e.g., a file, a folder, a volume, a hard disk, or the like, that is capable of being shared by the network users.” (Parker, 2:24-26.)

85. Parker explains that files (or other “sharepoints”) may be displayed to a particular user in a way that visually indicates the privilege or access level granted to that user. This is shown in the user interface of Figure 7, which shows a file directory listing exactly as it would be seen by a user of the system named “User C”:

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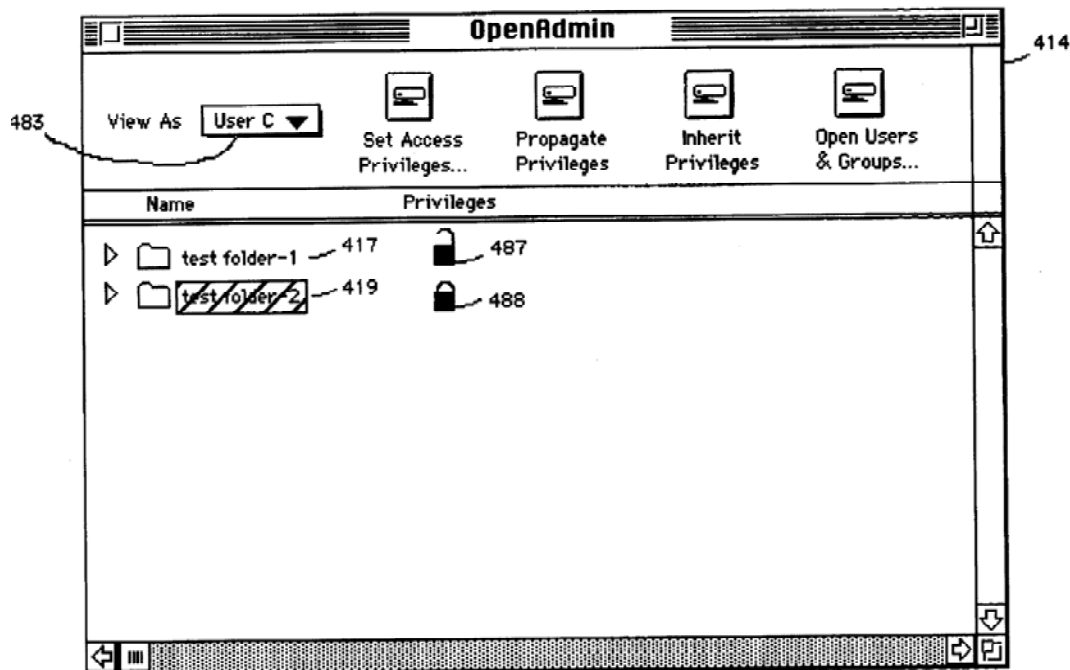


FIG. 7

86. Parker explains that the display in Figure 7 shows precisely how “User C” would see the two folders (417, 419) on its screen. (Parker, 11:32-35 (“When the administrator views as user C, the administrator is viewing from user C’s perspective (i.e., in accordance with user C’s access privileges as if the administrator was sitting at user C’s client terminal).”).) In the example above, because the administrator did not grant “User C” rights to “test folder-2” (488), that folder will appear grayed out or with a lock icon.

Since the administrator granted user C read access privileges to test folder-1 (417) in FIG. 5, test folder-1 (417) is shown to be accessible

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in FIG. 7 (by open lock icon **487** and by the fact that “test folder-1” is not ghosted, grayed out, or hidden). On the other hand, test folder-2 (419) is in a ghosted state indicating no access to test folder-2. In other embodiments, test folder-2 (419) may be grayed out, shaded, or hidden altogether.

(*Id.*, 11:40-47 (underlining added).)

87. Parker therefore discloses the creation of a page with files displayed “in accordance with the configuration information” including the privacy information, as recited in claim 1[c]. Parker specifically states Figure 7 shows the view “from user C's perspective (i.e., in accordance with user C's access privileges as if the administrator was sitting at user C's client terminal).” (Parker, 11:32-35 (underlining added for emphasis).) In my opinion, limitation [c] of claim 1 would be obvious over Salas in view of the above-mentioned disclosures of Parker.

88. Salas and Parker both disclose similar systems for organizing and displaying files in a networked environment that might have access restrictions attached to them, such as whether a user has permission to view and/or edit a particular file. (Salas, 12:7-9, 13:52-57; Parker, 1:19-28.) Both systems also employ a very similar user interface in which files or folders are displayed in icon or list

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form on the user's screen. (Salas, Fig. 4 (**482, 486, 488, 490**); Parker, Fig. 7 (**487, 488**)).) It would have been obvious to one of ordinary skill in the art to add, to the eRoom system of Salas, the user interface technique of Parker in which an item is displayed as "in a ghosted state," "greyed out, shaded, or hidden altogether" (Parker, 11:44-47), depending on the user's access privileges. This would predictably result in the eRoom system of Salas in which the browser obtains the Salas file metadata identifying the privileges for the user (Salas, 13:52-57), and then displays each file in the eRoom with a visual indication consistent with its corresponding access privileges (*e.g.* ghosted or grayed out).

89. A person of ordinary skill in the art would have had many motivations to make this combination. Parker itself states that "it is envisioned that a user accessing the network via its user privilege, will be able to distinguish whether the listed sharepoints are inaccessible, or accessible for read & write, read-only or write only via various access indicating icons." (Parker, 11:50-54 (underlining added).) The addition of this known element from Parker would provide a clear improvement to Salas by allowing a user to visually ascertain, before attempting to access a particular item listed in an eRoom, whether the requested access is permitted. This would also result in a more streamlined user experience in that

the user could preemptively avoid attempting file accesses that were not permitted.

**D. Salas Discloses Changing “Diary Information” and Receiving “New Diary Information” (Claims 1[d], [e])**

90. The fourth limitation of claim 1 recites the step of “receiving by the diary server at least one request for at least one change concerning the diary information, from the diary program in the user system.” Salas discloses several features, each of which independently discloses this limitation.

91. Salas explains that a user of an eRoom can change the project files and other content for the eRoom (“diary information”) by modifying an existing file or uploading a new file to the eRoom page. For example, “users may perform work on files and objects locally and upload the modified files and objects to the server **14** for viewing, comment, or further modification by other project team members.” (Salas, 13:7-10.) The user accomplishes this by “dragging” a file onto the eRoom:

Once the user is finished editing the file, it may be uploaded to the server **14** to allow other users access to it. The user signals that the file should be transmitted to the server **14** by dragging the file onto an eRoom displayed by the browser (step **704**). Dropping the file into



the displayed eRoom invokes an ActiveX control or a background  
daemon process which manages the upload of the file to the server

**14.**

(*Id.*, 13:19-26 (underlining added).)

92. Salas provides another example in which a user can contribute to an on-line discussion, such as the “Announcements” (**420**) shown on the eRoom page of Figure 4. The announcements section includes a button or facility (**422**) “add on announcement” that permits the user to add to the discussion:

In the embodiment depicted in FIG. 4, a discussion **420** is embedded within the page and there is a facility **422** to allow a viewer to contribute to the discussion **420**. The embedded discussion **420** and the contribution facility **422** may be implemented as ActiveX controls, a JAVA applet, or various other means.

(*Id.*, 5:28-34 (underlining added).)

93. As explained previously for claim 1[a], the ActiveX controls identified in Salas, including the ones referenced in the quotations above, comprise the recited “diary program.” The “request for at least one change concerning the

diary information” in each embodiment, therefore, is “from the diary program” as recited in claim 1[d].

94. The fifth and final limitation of claim 1, limitation [e], recites the step of “sending, by the diary server to the user system, new diary information for changing the cohesive diary page.” Salas explains that, from time to time, the contents of the eRoom need to be updated based on changes to the information contained in it. “Put another way, the client workstation’s local project database 20’ must be synchronized with the server’s project database 20 to ensure data coherency.” (Salas, 11:16-19.)

95. Salas discloses several techniques for performing this synchronization, including “periodically” and “event-triggered” in the foreground and background. (*Id.*, 11:19-27.) Each of these techniques relies on a “modification tag value” that is used by to determine whether an item on the local database is up-to-date. (*Id.*, 11:27-30, 11:42-47.) “If the modification tag value or state bits indicate that the object needs to be synchronized,” Salas explains, “the updated object may be requested from the server in the foreground or in the background.” (*Id.*, 11:30-34; *see also id.*, 11:34-41.)

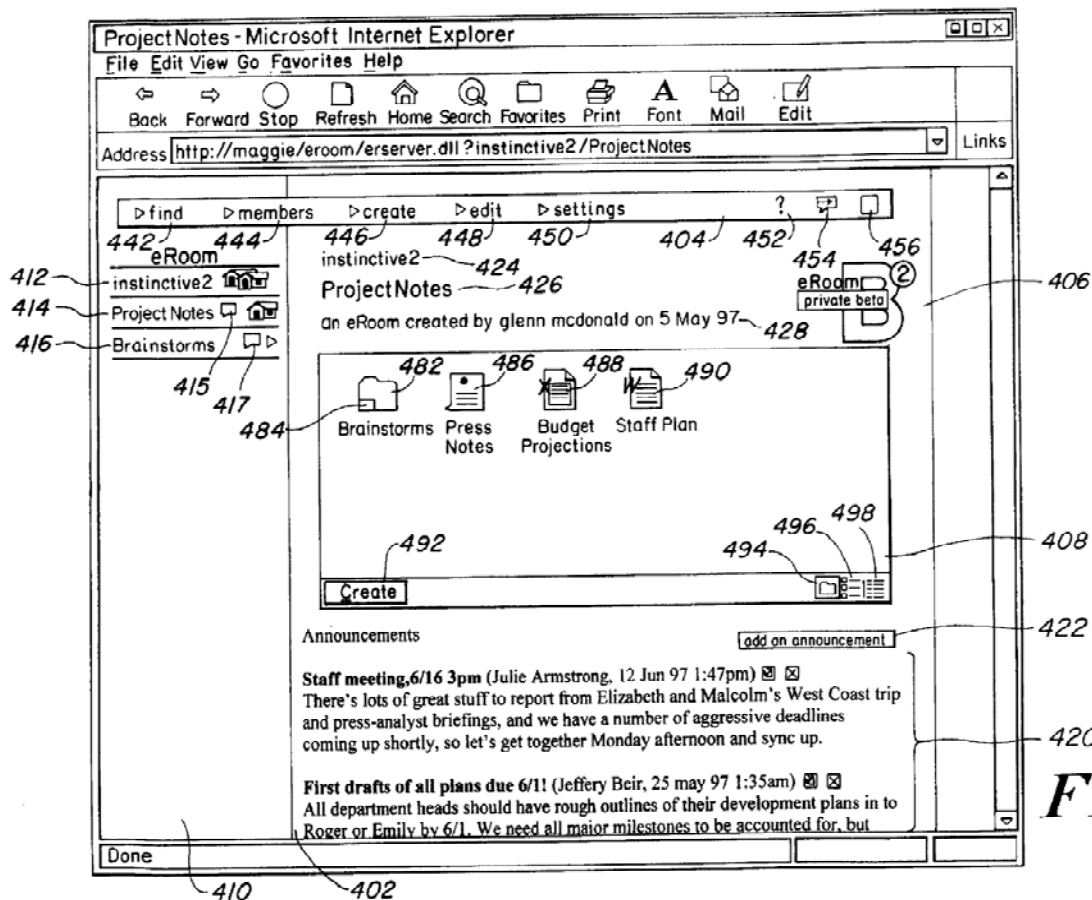
96. Once synchronization has been accomplished, “the appropriate data objects and values are inserted into the eRoom where indicated by Replace Properties, and the eRoom is displayed to the user (step 508) by the browser application in a traditional manner (refer to FIG. 4).” (*Id.*, 12:1-6 (underlining added).) The purpose of this synchronization process is to ensure that the client workstation has up-to-date content for the project. Salas therefore discloses “sending, by the diary server to the user system, new diary information for changing the cohesive diary page.”

**E. Salas Discloses Claim 4**

97. Dependent claim 4 recites: “The method of claim **1** wherein the new diary information is for changing content of the diary page without changing a general appearance of the diary page.” The term “**new diary information**” appears to refer back to limitation **[e]** of claim 1 reciting the step of “sending, by the diary server to the user system, new diary information for changing the cohesive diary page.” Salas also discloses this additional requirement.

98. As I explained above for claim **1[d]** and **1[e]**, Salas discloses that a user can change the “diary information” by, among other ways, adding to the “Discussion” portion of an eRoom or uploading a new file or modifying an existing

file. One of ordinary skill in the art would understand that the result of these actions would be to add to or modify entries on the eRoom page, but leave the overall look and appearance of the eRoom page the same. For example, consider Figure 4 of Salas:



99. The layout and overall appearance of Figure 4 is dictated by the eRoom “template” that specifies how the page will appear to the user. (Salas, e.g., 7:8-10.) As explained above, that template is independent of the content. If a user uploaded a new file to the eRoom pictured in Figure 4 above, for example,

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this would result in the new file being inserted into the item box (**408**), perhaps as an additional icon, after the client workstation's local database was synchronized.

(*Id.*, 12:1-6.) Similarly, if a user contributed new content to the Announcements section (**422**) (*id.*, 5:29-37), one of ordinary skill in the art would understand that this would result in the comment being added to that section. Nothing in Salas suggests that either action would result in any change to the eRoom template that dictates the general appearance of the eRoom page.

100. Salas makes clear, in fact, that the generation of the eRoom web page is accomplished by using the template and “filling in” the content in the locations specified by the template. (*Id.*, 10:66-11:3, 10:44-49.) Once the appropriate template has been obtained, “the next step taken by the page builder application is to replace all of the Replace Properties contained in the template with project information from the project database (step **504**). (*Id.*, 10:44-49.) For example, an eRoom template may include a replace property called “\$DISCUSSIONBODY” that is replaced with the actual discussion content when the eRoom page is generated and presented. (*Id.*, 11:3-12.) Although new discussion content may be placed on the eRoom page, the location and style of that content is determined by the eRoom template, not the discussion content itself. Salas

therefore discloses that “the new diary information is for changing content of the diary page without changing a general appearance of the diary page,” as stated in claim 4.

**F. Salas In View of Tittel (1997) and Parker Discloses Claims 17 and 26 for the Same Reasons as Claim 1**

101. As I explained in **Part IV.B** above, independent claim 17 is similar in many respects to claim 1 except that it is written as an apparatus claim that recites “a software portion configured to” perform many of the same steps of diary page assembly recited in claim 1. Claim 26 depends from claim 17 and recites functions similar to claim limitations 1[d] and 1[e] relating to changing diary information and receiving new diary information for the cohesive diary page. The functions of claims 17 and 26 appear to be drawn from the perspective of the “user system,” which includes software configured to “receive” a diary program from the diary server, “receive” diary information, “assemble” and “display” the cohesive diary page at the user system, and “receive” new diary information from the diary server. (’316, Claims 17 & 26.)

102. In my opinion, the recitation of a “software portion” in the limitations of claims 17 and 26 does not provide a basis to distinguish the disclosures of Salas that I discussed above for claim 1. One of ordinary skill in the

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art would understand that the eRoom system in Salas, in order to perform the functions recited in claims 17 and 26, would necessarily have to include software executing on the client workstation (**12**) that was programmed to carry out those functions. Salas explains that the system can be implemented using a standard web browser (Salas, 5:21-24), and that the eRoom page builder could be implemented on a “general-purpose machine” using ActiveX controls (*id.*, 6:57-63). It would simply be impossible to carry out the functions described in Salas without the presence of “software portions” on the user system that, when executed, performed the functions in claims 17 and 26.

103. This is also clear from a closer examination of the claim limitations as compared to Salas. Claim 17**[a]** recites “a software portion configured to receive, by a user system from a diary server, a diary program capable of being run by a browser in the user system.” This function is performed in Salas for all of the reasons I provided for claim 1**[a]** above. This “software portion” in Salas takes the form of a web browser installed on the user’s client workstation. (Salas, 5:21-24.) As explained in Salas, “[t]he browser executing on the client workstation interprets the HTML file that it has received and displays the Web page to the user of the client workstation.” (*Id.*, 1:31-34; *see also id.*, 6:40-43.) Because the

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ActiveX controls that make up the “diary program” in Salas may be embedded in an HTML file (see **Part III.B**, above), which is received and interpreted by the web browser, the browser performs this function of receiving the diary program as recited in claim 17**[a]**. This is consistent with the way in which this step is described in the ’316 specification. (’316, 8:35-38 (user starts web browser), 8:42-46 (web browser receives and executes diary program).)

104. Claim 17**[b]** recites in relevant part “a software portion configured to receive, by the user system from the diary server, diary information...” Salas in view of Tittel (1997) discloses the receipt of “diary information” for the reasons explained in claim 1**[b]** above. The “software portion” in Salas that performs this function would be understood as the web browser and ActiveX controls (including the “page builder application”) that carry out the eRoom system. (Salas, 6:57-63, 6:64-7:7:2.) Salas also describes a process (“background daemon”) running on the client workstation (**12**) that handles the downloading of content from the eRoom server (**14**). (*Id.*, 11:12-26.) These software portions satisfy the elements of claim 17**[b]**.

105. Claim 17**[c]** recites “a software portion configured to assemble the cohesive diary page by dynamically combining the content data and the page



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design in accordance with the configuration information.” Salas in view of Parker discloses the assembly of the “cohesive diary page” for the reasons explained for claim 1[c] above. The “software portion” in Salas that performs this function would include the ActiveX control that implements the eRoom “page builder” application. (Salas, 6:57-63.)

106. Claim 17[d] recites “a software portion configured to display the cohesive diary page, by the diary program running in the browser.” The “software portion” for performing this function would be a combination of the “diary programs” (discussed in claim 1[a] above), and the web browser itself. (Salas, 12:4-6 (“[T]he eRoom is displayed to the user (step 508) by the browser application in a traditional manner (refer to FIG. 4).”) (underlining added), Fig. 4 (showing web browser displaying eRoom page), 6:57-63.)

107. Dependent claim 26 recites “a portion configured to receive, from the diary server, new diary information,” followed by a “a portion configured to change content of the diary page without changing a general appearance of the diary page, in accordance with the new diary information.” The software portions for performing these steps are substantially the same as those for claims 17[b], [c] and [d], since this software in Salas is responsible for receiving the project files

and content (including any updated content) and displaying the eRoom page in accordance with the received content.

**G. Salas In View of Tittel (1997) and Parker Discloses Claim 18**

108. Dependent claim 18 depends from claim 17 and states: “The apparatus of claim **17**, further comprising: a portion configured to display contents of the diary page by the diary program in accordance with a cover for a diary.” It is not clear that this claim limitation adds anything different to the “page design” information described in claim 17.

109. As I explained in **Part IV.A** above, the ’316 specification uses the term “cover” refer to the same information as the “page design” recited in claim 17. (’316, 9:7-10 (“In step **308**, diary applet **112** generates one or more pages of the diary in HTML in accordance with the cover, content, and configuration information. The HTML is displayed as a diary page by browser **110**.”) (underlining added), 17:60-63 (“Covers are also called ‘presentation contexts.’ In one embodiment of the present invention, the presentation context can consist of HTML files in which ‘on the fly’ substitutions by the diary applet are performed.”).) The software portion recited in claim 18, therefore, is disclosed in

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Salas for the same reasons as the software portion for the “assembly” and “display” functions in claim 17[c] and 17[d] above.

110. One difference between a “cover” and a “page design” is that a cover may in one embodiment be provided by a third party “cover provider.” (’316, 17:3-6.) This does not appear to properly be considered part of the definition of the term “cover” because cover providers are separately called out in other claims (*e.g.* claim 22), and the specification describes use of a “default cover for the diary.” (’316, 11:39-41.)

111. However, even if it is assumed that the “cover” must include layout and style information different from the “page design” of claim 17, the eRoom template in Salas includes so many display, layout and style properties that one could simply select different pieces of information from that template to show the claimed “page design” and “cover.” One example of different layout or style information that was not discussed above is “Wizard” information that describes the appearance and functions of the on-screen controls for creating an editing an eRoom page. (Salas, 9:38-43.) Another example of “cover” information is a “graphical element **406** [that] is used to pictorially identify the viewed page. The graphical element **406** may be a corporate logo or other organizational identifier.”

(*Id.*, 5:54-59.) This graphical element may be a static image “or it may be a dynamic identifier such as a JAVA script or ActiveX control.” (*Id.*, 5:57-59.) In any event, Salas discloses a software portion “configured to display contents of the diary page by the diary program in accordance with a cover for a diary.”

**H. Salas In View of Tittel (1997) and Parker, and Further in View of Angles, Discloses Claim 20**

112. Dependent claim 20 depends from claim 18 and recites: “The apparatus of claim **18**, wherein the cover includes advertisements not requested by a user.” This claim, in my opinion, does not add anything novel or non-obvious to the apparatus of claims 17 and 18, discussed above.

113. The ability to add advertisements to web pages was well known prior to September 1998. Web pages often included “banner ads” at the top or bottom of the page that would advertise a product or service. These banner ads, when clicked by the user, would typically take the user’s web browser to a web site associated with the advertiser who placed the ad.

114. One example of a Web advertising system is disclosed in U.S. Patent No. 5,933,811 to Paul Angles et al., entitled “System and Method for Delivering Customized Advertisements within Interactive Communication Systems” [**Ex.**

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**1012]** Angles issued from an application filed on August 20, 1996, more than two years before the application for the '316 patent.

115. Angles discloses “an on-line advertising service which can custom tailor specific advertisements to particular consumers and track consumer responses to the advertisements.” (Angles, 2:46-49.) Angles explains:

As the popularity of the Internet and the World Wide Web has increased over the years, more companies are trying to find ways of promoting their product in a cost-effective manner. Thus, there has been a tremendous proliferation of corporate advertising across the Internet. For example, some companies such as Yahoo Corporation offer free services, such as the ability to search for particular sites on the Internet, but post advertising messages to consumers to help offset the cost of their service.

(Angles, 2:18-27.)

116. Angles discloses a system that selects an advertisement for the user and then incorporates it into a Web page. (*Id.*, 21:34-52.) “The consumer computer **12** then displays the electronic page **32** and customized advertisement **30** to the consumer.” (*Id.*, 21:43-44.) The page “appears to the consumer like all

other electronic pages **32** on the Internet **33**, except that it contains the customized advertisement **30** which has been pre-selected for that consumer.” (*Id.*, 21:49-52.) The selection of the advertisement is “based on the consumer’s profile” (*id.*, 8:58-61), not based on a request by the user.

117. It would have been obvious to one of ordinary skill in the art to adapt the system of Salas such that the eRoom is displayed in accordance with a cover for a diary that included advertisements not requested by a user, as disclosed in Angles. The motivation for such a combination could not be any more clear and compelling – obtaining revenue. That revenue could be used for profit, to defray the costs associated with providing the web site, or to facilitate offering the web site at a reduced fee.

118. Angles expressly and repeatedly confirms these motivations to combine. Angles explains that, as of 1996, “there has been a tremendous proliferation of corporate advertising across the Internet.” (*Id.*, 2:22-23.) “As the number of people accessing the Internet increases,” Angles further explains, “it will become more important to specifically target advertising to those individuals most likely to purchase the goods or services being offered.” (*Id.*, 2:32-34.) The system of Angles “allows the advertisement provider to monitor the number of

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advertisements viewed by consumers associated with a particular content provider. With this information, the content providers can receive advertising revenue based on the number of consumers who access their websites.” (*Id.*, 4:17-23; *see also id.*, 4:45-47 (“The Internet providers can then use this advertising revenue to reduce consumer access fees.”).)

119. The eRoom system of Salas could be readily adapted to include an advertisement as disclosed in Angles. The eRoom page includes a graphical element (**406**) displayed on the page. (Salas, Fig. 4 (**406**).) “The graphical element **406** may be a corporate logo or other organizational identifier. The graphical element may be static (as depicted in FIG. 4) or it may be a dynamic identifier such as a JAVA script or ActiveX control.” (*Id.*, 5:55-59.) One of ordinary skill in the art would have recognized that an advertisement could be placed anywhere on the eRoom page, or could augment or even replace the “cover” information associated with the graphical element (**406**). Adding web-based advertising from Angles to the eRoom system of Salas would predictably result in the system of Salas in which the eRoom page (Fig. 4) is displayed in accordance with a cover that includes an advertisement not requested by the user, as recited in claim 20.

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**VI. CONCLUSION**

120. In signing this Declaration, I recognize that the Declaration will be filed as evidence in a contested case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I also recognize that I may be subject to cross-examination in this proceeding. If required, I will appear for cross-examination at the appropriate time. I reserve the right to offer opinions relevant to the invalidity of the '316 patent claims at issue and/or offer testimony in support of this Declaration.

121. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 28 U.S.C. § 1001.

Dated: February 6, 2014

Respectfully submitted,

A handwritten signature in black ink, reading "Edward R. Tittel", written over a horizontal line.

Edward R. Tittel  
Austin, Texas



# EXHIBIT A

## ED TITTEL

2443 Arbor Drive  
Round Rock, TX 78681-2160  
[ed@edtittel.com](mailto:ed@edtittel.com)  
[www.edtittel.com](http://www.edtittel.com)

## RÉSUMÉ

(512) 252-7497 (hm)  
(512) 422-7943 (mbl)



### OBJECTIVES

To use my communications, training, presentation, and management skills to contribute significantly to any organization's prestige, visibility, and performance. To deliver quality information and customer value. To further develop skills in writing, speaking, training, research, computing technologies, and information delivery. To put my extensive experience in Web development, markup, and security topics to good and effective use.

### SUMMARY

A solid academic background in computer science, with recent emphasis on information security, markup languages, Web development, IT Certification, and network OSes. Excellent communications, presentation, and organization skills. Prior experience as a software developer, technical evangelist, trainer, and technical marketing professional. Currently working (since December 2006) as a freelance writer, speaker, trainer, consultant, and occasional expert witness. Contributor to over 100 computer trade books; developer of the successful *Exam Cram* series of books for Pearson. Regular contributor/expert for numerous TechTarget Web sites (security, networking, Windows, Web services). Recently completed books on unified threat management, telcos, and information security. Blog regularly for TechTarget, Pearson IT Certification, and Tom's IT Pro. Usually work on 3 or more books per year, and 3 or more articles per month.

### PRIOR WORK EXPERIENCE

#### **NetQoS, Inc.**

2006-2007

Network performance management company

Hired in May, 2006, as Director of Training; formed a training group and brought two course developers/writers on to design and develop sales and technical training curriculum. Served as editor-in-chief at NetPerformance.com from May, 2006 until June, 2007 (network and performance management site). Moved into a Senior Researcher role in October, 2006, to work on TCP/IP performance management topics. Left full-time employment with the company in December, 2006, to care for an ailing live-in parent (now deceased); continued to write for the Web site until June, 2007.

#### **LANWrights, Inc.**

(1990/)1994-2004

Content development and project management company

Started in 1990 to write books and articles, and develop sales and technical training. Worked part-time at business development and writing through May, 1994, when I went into this full-time. Hired 1<sup>st</sup> employees in 1994 and 1995, incorporated in 1997, sold the company to a Sylvan Learning incubator spinoff, LeapIT.com, in January 2000. Remained onboard until June 2004 at VP level to run a content development division. While there, I worked on over 100 books, an equal number of courses, and hundreds of magazine and Web pieces. Big wins there included *HTML for Dummies* (now in its 13th edition), *Exam Cram (2)*, and various college textbooks (on networking and Windows topics). Number of full-time employees ranged from 3 (1995-1996) to a high of 10 (2000). I managed the company for the ten years I worked there full-time. Biggest year ever (2001): \$1.45M; average year 1994-2004: \$850K (EBITDA).

#### **NOVELL, Inc.**

1988-1994

Local Area Networking Company

Hired in January, 1988, as **Network Consultant** in Austin, Texas. Duties included product presentations, demonstrations, installation, network design consulting and troubleshooting, and pre-sales technical support.

**Senior Trainer**, 11/1/88-7/15/89; developed technical training materials for in-house and external use.

**National Marketing Manager**, 2/15/90-1/24/93; represented standards-oriented and specialty products for Novell sales staff to major commercial, academic, and government accounts in the continental US.

**Director of Technical Marketing**, 1/25/93-5/13/94; senior manager in Novell Corporate Marketing, with technical oversight over corporate trade shows, the BrainShare developer's conference, publications, and Novell's presentation library.

#### **Hart Information Systems**

1986-1988

Typesetting/data management division of Hart Graphics, former national printing/publishing company

**Engineering Manager**, 10/86-1/87; procured and developed systems and software to exploit desktop publishing and microcomputer technology for a computer-oriented database publishing environment, primarily for the State of Texas.

**General Manager**, 1/87-1/88; direct supervision of all management, administrative and engineering staff, and business development, system evolution, market planning/strategy, sales management, and fiscal performance.

## Schlumberger Well Services

1984-1986

Austin Systems Center; World-wide provider of oil field data acquisition and interpretation.

**Project leader** in design and development of two large FORTRAN applications to read, write and manipulate well log data (hired & managed team of 5 programmers).

**Software Coordinator** for artificial intelligence log analysis workstation, including design reviews, requirements specifications, configuration and systems management, and external liaison with user groups.

Employment history prior to Schlumberger available by request. Brief stints at Thomas-Conrad Corporation (October 1989-March 1990) and Tivoli Systems (Nov 1997-May 1998) disclosed upon request. Expert witness work also disclosed upon request (and included in [CV](#)).

## TRAINING EXPERIENCE

<b>Austin Community College</b>	Adult & Continuing Education program	1997-2001
Introductory & Intermediate HTML classes		Austin, 1997-2001
Introductory & Advanced TCP/IP for WebMasters		Austin, 1999-2001
Windows NT Administration for WebMasters		Austin, 1999-2001
Networking for WebMasters		Austin, 2000-2001
<b>InterOp</b>	Trade Show and Content Company	1996-2002
Optimizing & Tuning Windows (1 day, co-taught w/Michael Stewart)		Interop, 1998-2002
Windows Security Issues & Answers (2 days, co-teach w/Michael Stewart)		Interop, 1997-2002
<b>The Internet Security Conference (TISC)</b>		1998-2001
Windows Security Issues & Answers (1 day, co-teach w/Michael Stewart)		TISC, 1998-2001

**Other training activities and offerings available upon request.**

## LANGUAGES, PROTOCOLS & SYSTEMS

C, C++, FORTRAN, HTML, XML, Pascal, Perl, Java.

NetWare; Windows NT; Windows 2000, XP, Vista, Win7&8, Server 2003,2008, and 2012.

TCP/IP (IPv4 and IPv6), numerous older stacks.

Fluent German, basic Russian.

## AFFILIATIONS

Association for Computing Machinery (ACM), 1982-present.

Institute of Electrical and Electronic Engineers (IEEE) Computer Society, 1993-present.

Member, Program Committee, NetWorld + Interop Trade Shows, 1993-1999.

## PUBLICATIONS

100-plus books; thousands of trade magazine & Web articles: See [Curriculum Vita](#).

## EDUCATION

1982 18 Graduate Hours, Computer Science, UT Austin.

1981 BA, Computer Science (equivalency), UT Austin.

1979 MA, Anthropology, University of Texas at Austin.

1973 AB, Anthropology, Princeton University, *cum laude*, Phi Beta Kappa

## PERSONAL/BUSINESS REFERENCES

David M. Piscitello, Chair, Interop Program Committee. (843) 683-9988, dave@corecom.com

Kent Baldauf, Jr., Partner, The Webb Law Firm, (412) 471-8815, KBaldaufJr@WebbLaw.com

David Strom, freelance writer/editor, (310) 857-6867, david@strom.com

Carole Jelen, President, Jelen Publications, (925) 930-0883, carole@jelenpub.com

Jeffrey A. Riley, President, Box 12 Communications, jriley@boxtwelve.com

Jason Bagby, Director of Media Sales, 512-628-8209, jason@spiceworks.com

# EXHIBIT B

## ED TITTEL CURRICULUM VITA

### **BOOKS Written (Ed Tittel listed as a named author/contributor) Listed alphabetically, by title**

[85 titles; some titles include multiple editions]

**Build the Ultimate Home Theater PC**, Wiley Publishing, Inc., December, 2005. 420 pp.

and Mike Chin

Co-author of a step-by-step guide to assembling and configuring a home theater PC based on Windows Media Center Edition.

**Building VRML Worlds**, Osborne/McGraw-Hill, November, 1996. 424 pp.

and Charlie Scott, Paul Wolfe, and Claire Sanders

Project manager and principle writer in a beginner-level book on the Virtual Reality Modeling Language (VRML). The book covers implementing VRML technology for the mass market. Also covered in the book: how to plan, design, and construct a VRML world. Accompanying CD-ROM includes example VRML worlds, authoring tools, and object libraries.

**Building Web Commerce Sites**, IDG Books Worldwide, December, 1996 (copyright 1997). 416 pp.

and Charlie Scott, Paul Wolfe, and Mike Erwin

Project manager and principal writer for a book about major commerce providers and technologies. Includes overviews of the leading e-commerce options, and detailed instructions on how to build Web commerce sites for UNIX, Macintosh, and Windows NT Web servers.

**Building Windows NT Web Servers**, IDG Books Worldwide, October, 1996. 696 pp.

and Mary Madden, and David B. Smith

Project manager and principal writer for a book about Windows NT 4.0 aimed at designing, configuring, installing, and maintaining any of a number of Web servers, including Microsoft's IIS, O'Reilly & Associates' WebSite Professional, Process Software's Purveyor, and more. CD-ROM includes numerous demonstration Web servers and related software.

**Certification Success Exam Cram**, 4th Ed., The Coriolis Group, March, 2002. 240 pp.

Author of a guide to Microsoft, Novell, Cisco, Oracle, Sun, CompTIA, and numerous other IT-related technical certification programs and offerings. (See also *IT Certification Success Exam Cram 2*.)

Three prior editions were completed for The Coriolis Group in 1997, 1999, and 2000.

**The CGI Bible**, IDG Books Worldwide, December, 1996. 658 pp.

and Mark Gaither, Sebastian Hassinger, and Mike Erwin

Retitled, updated 2nd edition of *The Foundations of WWW Programming, with HTML and CGI*.

**CIW Security Professional Certification Bible**, John Wiley & Sons, October, 2001. 1,044 pp.

By Mandy Andress and Phil Cox (Ed Tittel, Series Editor)

Cert prep book for CIW security professional exam.

**CIW Site Designer Certification Bible**, John Wiley & Sons, December, 2001. 764 pp.

By Natanya Pitts and Chelsea Valentine (Ed Tittel, Series Editor)

Cert prep book for CIW Site Designer exams.

**CISSP: Certified Information Systems Security Professional Study Guide, 5th Edition**, Sybex, an imprint of Wiley Publishing, January, 2011. 864 pp.

By James Michael Stewart, Mike Chapple, and Ed Tittel.

Cert prep book for Certified Information Systems Security Professional (CISSP) exam.

Three prior editions were completed for Sybex in 2002, 2003, 2005, and 2008.

**Computer Forensics Jump Start, 2<sup>nd</sup> Edition**, Sybex, an imprint of Wiley Publishing, March, 2011. 336 pp.

By Michael R. Solomon, K Rudolph, and Ed Tittel

Co-author for a hands-on book focused on providing aspiring forensic investigators an overview of the basic skills, tools, and techniques required to pursue a career in computer forensic investigations.

**Computer Telephony: For Home and Small Office**, AP Professional, January, 1996. 220 pp.

and Dawn Rader (with Steve James)

Project manager and editor for a hands-on book that covers computer telephony for PC users in home offices or small offices. Covers underlying standards and technologies, equipment and software vendors offerings, and a set of resources to help take advantage of the powerful synergy that interconnecting a PC and a telephone (or telephone system) can provide.

**Discover Java**, IDG Books Worldwide, March, 1997. 328 pp.

and Bill Brogden

An introduction to Java programming, built around the fundamental Java classes and the 1.1 Java SDK. Includes hands-on tutorials and projects, plus interviews with Java gurus and super users.

**E-Mail Essentials**, AP PROFESSIONAL, June, 1994. 282 pp.

and Margaret Robbins

Project manager and principal writer for an introductory e-mail design and management text which features information about basic networking, e-mail installation and maintenance, e-mail procurement and consulting, and the design and configuration of e-mail systems for business use.

**Exchange Server 5.5 Exam Cram**, Certification Insider Press, July, 1998. 528 pp.

and Barry Shilmover, and Tim Catura-Houser

Project manager and contributing writer for an exam preparation book focused on Microsoft MCSE Exam 70-081, MS Exchange Server 5.5.

**Exchange Server 5.5 Exam Prep**, Certification Insider Press, September, 1998. 638 pp.

and Barry Shilmover, and Tim Catura-Houser

Project manager and contributing writer for a lengthy, introductory exam preparation book focused on Microsoft MCSE Exam 70-081, MS Exchange Server 5.5.

**Foundations of WWW Programming, with HTML and CGI**, IDG Books Worldwide, August, 1995. 740 pp.

and Mark Gaither, Mike Erwin, and Sebastian Hassinger

An overview of Web document enhancement, primarily through CGI programming techniques on subjects ranging from WAIS and database access, to interactive chat and video facilities. This book covers the relationship between SGML and HTML, the various HTML standards, the CGI interface, and numerous aspects of exploiting that interface to enhance and improve the interactivity and dynamic behavior of Web pages.

**FrontPage 98 Exam Cram**, Certification Insider Press, January, 1999. 400 pp.

and James Michael Stewart and Kurt L. Hudson

Project manager and contributing writer for an exam preparation book focused on Microsoft MCSE Exam 70-055, MS FrontPage 98.

**Guide to Networking Essentials**, 5th Ed., Course Technology, June, 2006. 658 pp.

by Greg Tomsho, Ed Tittel, and David Johnson

Major contributor to a best-selling college textbook on basic networking concepts, tools, and technologies. Four prior editions were completed for Course Technology in 1998, 2001, 2002, and 2004.

**Guide to TCP/IP**, 4th Ed., Course Technology, September, 2012. 742 pp.

by Jeffrey L. Carrell, Laura Chappell, and Ed Tittel, with James Pyles

Co-author of a TCP/IP textbook that covers IPv4 and IPv6. The book combines protocol and services overviews with detailed analysis and hands-on descriptions of how to gather and use related protocol traces. Designer and lead author on the first three editions, which were completed in 2001, 2004, and 2007.

**Guide to Windows 2000 Core Technologies**, Course Technology, June, 2000. 500 pp.

by Ed Tittel and James Michael Stewart

Project manager and contributor to a sophomore level computer science operating systems text book aimed at exploring OS concepts through Windows 2000.

**Guide to Windows 2000 Professional**, Course Technology, June, 2000. 660 pp.

by Ed Tittel and James Michael Stewart

Revision of previous Windows NT Professional for Microsoft exam 70-210.

**Guide to Windows XP Professional**, Course Technology, June, 2002. 700 pp.

by Ed Tittel and James Michael Stewart

Revision of previous Windows 2000 Professional for Microsoft exam 70-270.

***Hacking Myth TV (ExtremeTech)***, John Wiley & Sons, August, 2008, 435 pp.

by Jarod Wilson, Ed Tittel, Matt Wright, and Justin Korelc

Project manager and co-author of this in-depth consumer-level guide to setting up, configuring, and optimizing a Myth TV PC.

***The Hip Pocket Guide to HTML 4.01***, IDG Books Worldwide, May, 2000. 144 pp.

by Ed Tittel, Natanya Pitts, and Chelsea Valentine

Project manager and contributor to the third edition of our popular easy-access reference to HTML tags, attributes, and coding information.

Two prior editions were completed for IDG Books in 1995 (32. edition) and 1997 (4.0 edition).

***HTML Style Sheets Design Guide***, The Coriolis Group, December, 1997, 232 pp.

Natanya Pitts and Stephen N. James

Project manager and contributing writer for a hands-on introduction to HTML Style Sheets, a.k.a. CSS1, aimed at design and Web professionals.

***Beginning HTML5 and CSS3 For Dummies***, Wiley Publishing, Inc., September, 2013, 384 pp.

by Ed Tittel and Chris Minnick

Co-author of this edition and for all 14 editions of a popular HTML introduction and “how-to” book. This is my personal overall best-selling book. Thirteen prior editions have been written for Wiley and its predecessors. This book was originally titled *HTML For Dummies*, dating back to 1995. Co-authors included Stephen J. James, Natanya Pitts (Anderson), Chelsea Valentine, Mary Burmeister, and Jeff Noble.

***Internet Access Essentials***, AP PROFESSIONAL, October, 1994. 388 pp.

and Margaret Robbins

Project manager and principal writer for an introductory Internet access book that features information on protocols, practices and netiquette for beginning Internet users, and covers the principal Internet applications for users of all levels.

***The Intranet Bible***, IDG Books Worldwide, March, 1997. 898 pp.

and James Michael Stewart

Project manager and principal writer for an overview book on intranet design, procurement, installation, configuration, and management.

***ISDN Clearly Explained***, AP Professional, June, 1997. 448 pp.

and Steve James, David Piscitello, and Lisa Phifer

Project manager and principal writer for a retitled second edition of *ISDN Access Essentials*, that features newly updated product reviews, installation guidelines, and case studies.

***ISDN Networking Essentials***, AP PROFESSIONAL, October, 1995. 305 pp.

and Steve James (with Dave Smith)

Co-writer of a hands-on book that covers ISDN communications for PC users in home offices or small offices. Covers underlying standards and technologies, equipment, software vendors’ ISDN offerings, and a set of resources to help individuals overcome the sometimes-formidable hurdles that ISDN can impose.

***IT Certification Success Exam Cram 2***. 3rd Ed., Coriolis Group Books, August, 2000. 240 pp.

by Ed Tittel and Kim Lindros

Co-author on book explaining various certification programs, prerequisites, and how such certification may benefit IT careers. This book was originally published under the title *Certification Success* in August, 1999. The second edition was published in January, 2003.

***Make Your CD-ROM Work***, Random House, October, 1995. 240 pp.

and Bob LeVitus

Primary writer for a how-to book on using CD-ROM titles and technologies for PCs and Macintoshes.

***Mastering XHTML Premium Edition (and Regular Edition)***, Sybex Books, November, 2001. 1,296 pp. (996 for regular).

By Ed Tittel, Chelsea Valentine, Mary Burmeister, and Lucinda Dykes

Massive general research and development book that explains how to write and use XHTML markup for Web content developers and programmers.

- MCSE Core Four Flash Cards**, Certification Insider Press, August, 1999. Four sets of 122 flash cards each.  
Project manager and contributing writer for set of flash cards to help test-takers practice for the Windows NT 4.0 MCSE Core Four exams: 70-058 Networking Essentials, 70-067 Windows NT Server 4.0, 70-068 Windows NT Server 4.0 in the Enterprise, and 70-083 Windows NT 4.0 Workstation.
- MCSE Core Four Practice Tests Exam Cram**, Certification Insider Press, June, 1999. 320 pp.  
Project manager and contributing writer for a book and CD containing practice tests to help test-takers practice for the Windows NT 4.0 MCSE Core Four exams: 70-058 Networking Essentials, 70-067 Windows NT Server 4.0, 70-068 Windows NT Server 4.0 in the Enterprise, and 70-083 Windows NT 4.0 Workstation.
- MCSE Guide to Microsoft NT Workstation 4.0**, Course Technology, January, 1998. 624 pp.  
and Christa Anderson, and David Johnson  
Primary writer for an in-depth exam preparation book on the Microsoft MCSE exam 70-073 on Windows NT Workstation. Designed as a college-level textbook.
- MCSE Guide to Networking Essentials**, Course Technology, January, 1998. 520 pp.  
and David Johnson  
Primary writer for an in-depth exam preparation book on the Microsoft MCSE exam 70-058 on Windows NT Workstation. Designed as a college-level textbook.
- MCSE Networking Essentials Exam Cram**, Certification Insider Press, November 1997. 352 pp.  
and Kurt Hudson, and J. Michael Stewart  
Project manager and principal writer for an exam preparation guide for MCSE exam 70-058.
- MCSE Networking Essentials Exam Cram Adaptive Edition**, Certification Insider Press, March 1999. 384 pp.  
and Kurt Hudson, and J. Michael Stewart  
Project manager and principal writer for an exam preparation guide for MCSE exam 70-058, updated to include coverage of adaptive testing strategies and techniques.
- MCSE Networking Essentials Exam Prep**, Certification Insider Press, February, 1998. 620 pp.  
and David Johnson  
Repackaged version of the MCSE Guide on the same subject, with additional appendices and CD-ROM content.
- MCSE NT Server 4 Exam Cram**, Certification Insider Press, October, 1997. 424 pp.  
Project manager and contributing writer for a short focused exam preparation book, aimed at exam 70-067 on Windows NT Server 4.0, including discussion of Microsoft's testing strategies.
- MCSE NT Server 4 Exam Cram Adaptive Edition**, Certification Insider Press, March, 1999. 446 pp.  
Project manager and contributing writer for reworked version of the original edition of this Exam Cram, aimed at exam 70-067 on Windows NT Server 4.0, updated to explain Microsoft's adaptive and short-form testing strategies.
- MCSE NT Server 4 in the Enterprise Exam Cram**, Certification Insider Press, October, 1997. 424 pp.  
Project manager and contributing writer for a short focused exam preparation book, aimed at exam 70-068 on Windows NT Server 4.0 in the Enterprise, including discussion of Microsoft's testing strategies.
- MCSE NT Server 4 In the Enterprise Exam Cram Adaptive Edition**, Certification Insider Press, March, 1999. 446 pp.  
Project manager and contributing writer for reworked version of the original edition of this Exam Cram, aimed at exam 70-068 on Windows NT Server 4.0 in the Enterprise, updated to explain Microsoft's adaptive and short-form testing strategies.
- MCSE TCP/IP Exam Cram**, Certification Insider Press, January, 1998. 300 pp.  
Project manager and contributing writer for a short focused exam preparation book, aimed at exam 70-059 on Windows NT 4.0 TCP/IP topics, protocols, and services, including discussion of Microsoft's testing strategies.
- MCSE TCP/IP Flash Cards**, Certification Insider Press, August, 1999. 122 flash cards.  
Set of flash cards, with a practice test on CD, to help students prepare for Microsoft exam 70-059 TCP/IP for Windows NT 4.0.
- MCSE Windows 2000 Foundations Exam Prep**, Certification Insider Press, July, 2000. 752 pp.  
By James Michael Stewart, Lee Scales, and Ed Tittel.  
Project manager and contributing writer for a general overview of Windows 2000 topics, concepts, terms, and technologies.



- MCSE Windows 95 Exam Cram 70-063**, Certification Insider Press, January, 1998. 360 pp.  
Project manager and contributing writer for a short focused exam preparation book, aimed at exam 70-063 on Windows 95, including discussion of Microsoft's testing strategies.
- MCSE Windows 95 Exam Cram 70-064**, Certification Insider Press, December, 1998. 384 pp.  
Project manager and contributing writer for a short focused exam preparation book, aimed at exam 70-064 on Windows 95, an updated version of the previous exam, including discussion of Microsoft's testing strategies.
- MCSE Windows 98 Exam Cram**, Certification Insider Press, January, 1999. 452 pp.  
Project manager and contributing writer for a short focused exam preparation book, aimed at exam 70-098 on Windows 98, including discussion of Microsoft's testing strategies.
- MCSE Workstation Exam Cram**, Certification Insider Press, October, 1997. 384 pp.  
Project manager and contributing writer for a short focused exam preparation book, aimed at exam 70-073 on Windows NT Workstation, including discussion of Microsoft's testing strategies.
- MCSE Workstation Exam Cram Adaptive Edition**, Certification Insider Press, March, 1999. 404 pp.  
Project manager and contributing writer for reworked version of the original edition of this Exam Cram, aimed at exam 70-073 on Windows NT Workstation 4.0, updated to explain Microsoft's adaptive and short-form testing strategies.
- MCSE NT Workstation 4 Exam Prep**, Certification Insider Press, March, 1998. 600 pp.  
and Christa Anderson, and David Johnson  
Repackaged version of the MCSE Guide on the same subject, with additional appendices and CD-ROM content.
- MORE HTML For Dummies**, 2<sup>nd</sup> Edition, IDG Books Worldwide, June, 1997. 418 pp.  
and Stephen N. James  
Project manager and principal writer for the second edition of this best-selling book, which features additional information on HTML frames and tables, plus information on scripting and programming languages that work with HTML, and information on how to manage and maintain a high-quality Web site.  
One prior edition was completed for IDG Books Worldwide in 1996.
- Network Design Essentials**, AP PROFESSIONAL, April, 1994. 282 pp.  
and Margaret Robbins  
Project manager and principal writer for an introductory network design and management text which features information about basic networking, network installation and maintenance, network procurement and consulting, and the design and configuration of networks for business use.
- Networking With NetWare For Dummies** (4th Edition), IDG Books Worldwide, September, 1998. 432 pp.  
and James Gaskin, and Earl Follis  
Project manager and principal writer for a revised NetWare text which featured discussion of basic networking and NetWare versions 3.12, 4.x, and 5.0.  
The 3rd edition was completed for IDG Books Worldwide in 1996, with Deni Connor and Earl Follis; two prior editions were completed in 1993 and 1994 with the same authoring team as for the 3<sup>rd</sup> edition.
- Networking With NetWare For Dummies Quick Reference**, IDG Books Worldwide, September, 1998. 212 pp.  
and James Gaskin, and Earl Follis  
Contributed to a short and pointed, small-format, quick reference guide to NetWare 4.x and 5.0.
- New & Improved Stupid Windows Tricks**, AP PROFESSIONAL, October, 1995. 129 pp.  
and Bob LeVitus  
Contributing writer for a "new and improved" edition of the earlier Addison-Wesley bestseller, *Stupid Windows Tricks*.
- PC Magazine Fighting Spyware, Viruses and Malware**, Wiley Publishing, Inc., December, 2004. 382 pp.  
Sole author of an in-depth book that examines PC security threats from online and email sources. Ranked #17 in Amazon's computer book Viruses category.
- The PC Networking Handbook**, AP PROFESSIONAL, October, 1995. 856 pp.  
Chief writer and editor for a hands-on book that covers LAN technologies from the wire level, all the way up to the NOS and application level. Includes sections on wiring, network troubleshooting, network peripherals, servers of all kinds, and network management. Provides pointers to online and in-print sources of networking information.

***Scene of the Cybercrime: Computer Forensics Handbook***, Syngress, August, 2002, 512 pp.

By Debra Littlejohn Shinder and Ed Tittel

Technical editor for a general textbook on computer forensics for law enforcement and IT professionals (also wrote one chapter).

***Schaum's Easy Outline of XML***, McGraw-Hill, March, 2004, 188 pp.

By Ed Tittel

Designed and wrote half of this undergraduate study guide, which provides a basic overview of XML syntax, document definitions, and key XML applications. This is the second edition of this title, which appeared originally in September, 2002, as *Schaum's Outline of XML*.

***Schaum's Outline of Computer Networking***, McGraw-Hill, May, 2002, 332 pp.

By Ed Tittel

Designed and wrote half of this undergraduate study guide, aimed at the top 5 best-selling college textbooks on general computer networking.

***The 60-Minute Guide to Java***, IDG Books Worldwide, October, 1995. 253 pp.

and Mark Gaither

Co-writer on a hands-on book that covers the Java programming language and the HotJava Web browser, both technologies based on research from Sun Microsystems, Inc. The book includes a language overview, a complete exposition of the language's syntax and semantics, and numerous sample applets and applications. Intended as an overview and first exposure to programmers seeking to learn more about the kinds of interactive facilities enabled by Java.

***Stupid Beyond Belief PC Tricks***, Addison-Wesley, August, 1992. 132 pp.

and Bob LeVitus (LeVitus is listed as primary author)

Wrote manuscript with minimal supervision from Bob LeVitus. Book includes 23 shareware or freeware DOS programs for use on IBM-PCs. As a sequel to *Stupid PC Tricks*, it mines the same light vein of computer entertainment and trickery.

***Stupid PC Tricks***, Addison-Wesley, May, 1991. 128 pp.

and Bob LeVitus (LeVitus is listed as primary author)

Wrote manuscript with minimal supervision from Bob LeVitus. Book includes 15 shareware or freeware DOS programs for use on IBM-PCs.

***Stupid Windows Tricks***, Addison-Wesley, March, 1992. 144 pp.

and Bob LeVitus (LeVitus is listed as primary author)

Wrote manuscript with minimal supervision from Bob LeVitus. Book includes 17 shareware or freeware Windows programs for use on IBM-PCs running DOS and Windows. As a sequel to *Stupid PC Tricks*, it mines the same light vein of computer entertainment and trickery.

***TICSA Training Guide***, Que/Pearson Certification, September, 2002. 576 pp.

by Ed Tittel (ed.), Mike Chapple, and Debra Littlejohn Shinder

Co-authored and edited this comprehensive guide to the TruSecure ICISA Certified Security Associate exam, aimed at entry-level security practitioners.

***The Trail Guide to CompuServe***, Addison-Wesley, October, 1994. 256 pp.

and Robert R. Wiggins (Wiggins is listed as primary author)

Project manager and principal writer for an introductory CompuServe book geared at effective understanding and use of CompuServe information resources and services. Written in a lighthearted vein, this book lays bare the essentials of CompuServe access and use, and includes an insider's view based on the authors' eleven years of combined experience as CompuServe sysops.

***Visual Cafe for Java Explorer: Database Development Edition***, Coriolis Group, February, 1998. 608 pp.

and Bill Brogden, and Jeff Louie

Project manager and contributor to a programming guide to Visual Café; book includes a CD-ROM with code samples and example projects.

**Web Graphics Sourcebook**, John Wiley & Sons, September, 1996. 846 pp.

and Susan Price, and James Michael Stewart

Project manager and principal writer for a book about creating, manipulating, and delivering quality graphical images as part and parcel of a Web site. Includes information on digital capture and graphics creation tools, plus tips and tricks on how to prepare artwork for delivery onto Web pages. CD-ROM includes graphics tools, image manipulators, and a wide range of graphics materials of all kinds.

**Web Programming Secrets**, IDG Books Worldwide/Programmer's Press, March, 1996. 700 pp.

and Mark Gaither, Sebastian Hassinger, and Mike Erwin

A set of programming tools and techniques to demonstrate the theory and practice of building CGI programs for Web use. This book starts with a CGI code generator for input variables, and proceeds to use this tool to build projects as diverse as a DNS domain request registration program, to a set of tools for making UNIX system commands available through the Web.

**Windows NT Networking For Dummies**, IDG Books Worldwide, September, 1996. 384 pp.

and Mary Madden, and Earl Follis

Project manager and principal writer for a book about Windows NT 4.0 networking. Includes a brief introduction to networking, plus coverage of network use of Windows NT 4.0 Workstation and Server.

**Windows NT Power Toolkit**, New Riders Publishing, September, 1999. 800 pp.

second chair to Stu Sjouwerman

Project manager and contributor to a book aimed at Windows NT Power Users, or would-be power users. The book includes discussion of many Microsoft and third-party software tools, most of which are included on the accompanying CD. A surprisingly strong seller considering how late it came to market during the Windows NT product cycle.

**Windows NT Server For Dummies**, IDG Books Worldwide, March 1999. 384 pp.

and Mary Madden, and Earl Follis

Project manager and principal writer for a book about Windows NT 4.0 Server. Includes a brief introduction to networking, plus coverage of network use of Windows NT 4.0 Server, including installation, configuration, and setup of various Windows NT-based network services (file, print, Web, FTP, and so forth).

**Windows Server 2003 For Dummies**, John Wiley & Sons, February 2003. 408 pp.

and James Michael Stewart

Contributor to a book about Windows 2003 Server. Includes a brief introduction to networking, plus coverage of network use of Windows 2003 Server, including installation, configuration, and setup of various Windows Server 2003-based network services (file, print, Web, FTP, and so forth).

**Windows Server 2008 For Dummies**, John Wiley & Sons, March 2004. 4012 pp.

and Justin Korelc

Contributor to a book about Windows 2008 Server. Includes a brief introduction to networking, plus coverage of network use of Windows 2008 Server, including installation, configuration, and setup of various Windows Server 2008-based network services (file, directory, print, Web, FTP, and so forth).

**Windows 2000 Networking For Dummies**, IDG Books Worldwide, January, 2001. 432 pp.

and James Michael Stewart

Project manager and principal writer for a book about Windows 2000 networking. Includes a brief introduction to networking, plus coverage of network use of Windows 2000 Workstation and Server.

**Windows 2000 Power Toolkit**, New Riders Publishing, December, 2000. 800 pp.

by Stu Sjouwerman and Barry Shilmover

Contributor to a power user's guide to Windows 2000 Professional and Server products, including numerous MS and third-party tools, utilities, tips, and tricks.

**Windows 2000 Server For Dummies**, IDG Books Worldwide, April, 1999. 432 pp.

and Mary T. Madden, and James Michael Stewart

Project manager and principal writer for a book about Windows 2000 Server administration. Includes networking concepts and terminology, server installation and management, plus coverage of Web-enabled network features.

***The World Wide Web Encyclopedia***, CD-ROM, Charles River Media, January, 1996. 1,200 pp.

and Michael Stewart (includes eight other contract contributors)

Designed, built, and co-wrote a massive hypertext CD-ROM, built entirely in HTML, that explains and explores WWW terminology and technology, and that includes numerous tutorials on various aspects of creating and using content on the Web. Includes a comprehensive computer-generated index and other wayfinding tools.

***XHTML For Dummies***, IDG Books Worldwide, September, 2000. 384 pp.

by Ed Tittel and Frank Boumphrey

Designer and principal author for an introductory book on the eXtensible HyperText Markup Language (XHTML), aimed at individuals who want to convert existing HTML to XHTML, or who wish to learn XHTML to create Web pages.

***XML For Dummies***, 4th Ed., John Wiley & Sons, May, 2005. 384 pp.

by Lucinda Dykes and Ed Tittel

Contributor to the fourth edition of an introductory book on understanding and using XML for Web pages and other applications; updated to reflect new tools, standards, and technologies since the 3rd edition (2002).

Three prior editions were completed for IDG Books Worldwide in 1998, 2000 and 2002. Other co-authors included Norbert Mitula, Frank Boumphrey, Natanya Pitts (Anderson), and Ramesh Chandak.

***XML Schemas***, Sybex Books, January, 2002, 656 pp.

by Lucinda Dykes, Ed Tittel, and Chelsea Valentine

A practitioner's guide to designing, maintaining, and using XML document definitions written to the W3C XML Schema standard. Also explains and explores alternative tools and technologies.

**CUSTOM BOOKS Written (Ed Tittel listed as a named author/contributor)**  
**Listed alphabetically, by title**

[15 titles]

***Beyond Infrastructure as a Service For Dummies, IBM Limited Edition***, Wiley Publishing, Inc., April, 2012. 72 pp.  
by Ed Tittel

Author of a book on infrastructure as a service (IaaS). Custom publication for IBM.

***Carrier Ethernet For Dummies***, Wiley Publishing, Inc., Fall 2009. 72 pp.

Designer and author of a concise book on Carrier Ethernet and SONET. Custom publication for Ciena Corporation.

***Clusters For Dummies***, 2nd edition, Wiley Publishing, Inc., Spring 2012. 48 pp.

Designer and author of a book on compute clusters for Platform Computing Corporation.

***Cyberheist: The biggest financial threat facing American businesses since the meltdown of 2008***, KnowBe4, April 2011. 240 pp.

by Stu Sjouwerman, Ed Tittel, Naomi Alpern, Justin Korelc, Kim Lindros, Jeff T. Parker, Jim Pyles, and Michelle Zavala

Designer, lead contributing author, and lead reviewer of a book on cybercrime.

***Data Center Networking For Dummies***, Wiley Publishing, Inc., December, 2009. 72 pp.

by Ed Tittel

Designer and author of a book on networking between data centers, for Ciena Corporation.

***Network Configuration and Change Management For Dummies***, Wiley Publishing, Inc., April, 2011. 48 pp.

by Ed Tittel

Designer and author of a book on network configuration and change management, for EMC Corporation.

***Green IT For Dummies, Dell & Intel Edition***, Wiley Publishing, Inc., February, 2010.

by Ed Tittel

Author of a book on green techniques and resources for the IT environment. Custom publication for Dell and Intel.

***Mobile Backhaul For Dummies***, Wiley Publishing, Inc., July 2009. 72 pp.

by Ed Tittel with Taylor Salman and Chris Janson

Lead author of a mobile backhaul book focusing on mobile communications network that interconnects cell towers with carrier networks and the Internet. Custom publication for Ciena Corporation.

***Optical Networking For Dummies***, 2nd edition, Wiley Publishing, Inc., June 2011. 72 pp.

By Ed Tittel with Chris Janson

Designer and lead author of an optical networking book, for Ciena Corporation.

***Phenomenal PC Games***, Prima Publishing, October, 1991. 138 pp.

and Bob LeVitus (LeVitus is listed as primary author)

Wrote entire manuscript with minimal supervision from Bob LeVitus. Book includes 15 shareware or freeware IBM-PC (DOS) games on diskette, along with documentation, suggestions for play, installation instructions, etc.

***SEC XBRL Mandate For Dummies***, 2nd edition. Clarity Systems Limited Edition, Wiley Publishing, Inc., March 2011. 32 pp.

by Ed Tittel

Book is a reference book for companies regarding the impact of the SEC XBRL Mandate, particularly the major impact of Level IV Detail Tagging in Year 2.

***Storage as a Service For Dummies***, DLT/NetApp Special Edition, Wiley Publishing, Inc., September, 2013. 24 pp.

by Ed Tittel

Book is a brief guide to the features, functions, and benefits of using STaaS, aimed at federal government end users and integrators.

***Telcos For Dummies***, Hitachi Data Systems Edition, Wiley Publishing, Inc., September, 2012. 24 pp.

by Ed Tittel

Book is a quick guide for sales people and resellers of Telco services worldwide. Readers can learn about business and technical information that explains what a Telco is, what Telcos do, the services Telcos can offer, and business opportunities.

***Unified Threat Management For Dummies***, Wiley Publishing, Inc., June, 2011. 96pp.

by Ed Tittel

Book is geared to IT professionals and those working with network computing or network security and presents, explores, and explains the features and benefits that UTM can deliver, considered within the context of the threat landscape that faces modern organizations today and for the foreseeable future. Custom publication for Fortinet, Inc.

***Website Security For Dummies***, WhiteHat Edition, Wiley Publishing, Inc., October, 2013. 48 pp.

by Ed Tittel

Book is aimed at anyone with 1+ years of website security experience, and covers what's involved in creating and maintaining website security.

**BOOKS Edited or Contributed**  
**Listed alphabetically, by title**

[28 titles]

**The Official Bbedit Book**, Ziff Davis Press, July, 1997. 350 pp.

by Bob LeVitus and Natanya Pitts

LANWrights holds a 30% interest in this book, stemming from then-employee Natanya Pitts' contribution to this manuscript.

**CNE Advanced NetWare 5 Administration Exam Cram**, Certification Insider Press, May, 1999. 576 pp.

by Melanie Hoag

Project manager and series editor for an exam preparation guide for CNE exam 050-640.

**CNE NetWare 4.11 to 5.0 Update Exam Cram**, Certification Insider Press, April, 1999. 360 pp.

by Randy Grein and Patrick Brown

Project manager and editor for an exam preparation guide for CNE exam 050-638.

**CNE NetWare 5 Administration Exam Cram**, Certification Insider Press, May, 1999. 466 pp.

by Barry Shilmover and Doug Bamlett

Project manager and series editor for an exam preparation guide for CNE exam 050-639.

**CNE Networking Technologies Exam Cram**, Certification Insider Press, May, 1999. 400 pp.

by Joel Stegall and David Johnson

Project manager and series editor for an exam preparation guide for CNE exam 050-632.

**CNE Service & Support Exam Cram**, Certification Insider Press, May, 1999. 456 pp.

by Melanie Hoag and Gary Novosel

Project manager and series editor for an exam preparation guide for CNE exam 050-635.

**Django: Visual QuickPro Guide**, PeachPit Press, December, 2009. 216 pp.

by Steven Holzner

Tech editor of a book about developing Web applications with Django, an open source Web application framework written in Python. Django follows the MVC (model view controller) design pattern.

**Dynamic HTML Black Book**, The Coriolis Group, February, 1998. 700 pp.

by Natanya Pitts-Moultis, C.C. Sanders, and Ramesh Chandak

Project manager and editor for an examination of Dynamic HTML technology, replete with copious examples, as a reference book for WebMasters and Web developers.

**Java 2 Programmer Exam Cram**, Certification Insider Press, April, 1999. 416 pp.

by Dr. Bill Brogden

Project manager and editor for an exam preparation guide for Sun exam 310-025.

**Java 2 Programmer Exam Prep**, Certification Insider Press, June, 1991. 568 pp.

by Dr. Bill Brogden

Project manager and editor for an exam preparation guide for Sun exam 310-025.

**jQuery Visual QuickStart Guide**, PeachPit Press, July, 2009. 240 pp.

by Steven Holzner

Tech editor for book on jQuery, a JavaScript library that simplifies event handling, animating, and Ajax interactions for rapid web development.

**MCSE IEAK 4.0 Exam Cram**, Certification Insider Press, August, 1998. 248 pp.

by David Johnson and J. Michael Stewart

Project manager and series editor for an exam preparation guide for MCSE exam 70-079.

**MCSE IIS 4.0 Exam Cram**, Certification Insider Press, July, 1998. 368 pp.

by J. Michael Stewart and Ramesh Chandak

Project manager and series editor for an exam preparation guide for MCSE exam 70-087.

**MCSE IIS 4.0 Exam Prep**, Certification Insider Press, July, 1998. 604 pp.

by J. Michael Stewart and Ramesh Chandak

Project manager and series editor for a detailed exam preparation study guide for MCSE exam 70-087.

- MCSE Proxy Server 2 Exam Cram**, Certification Insider Press, July, 1998. 304 pp.  
by David Johnson, Andy Ruth, and J. Michael Stewart  
Project manager and series editor for an exam preparation guide for MCSE exam 70-088.
- MCSE Proxy Server 2 Exam Prep**, Certification Insider Press, July, 1998. 592 pp.  
by David Johnson, J. Michael Stewart, and Andy Ruth  
Project manager and series editor for a detailed exam preparation study guide for MCSE exam 70-088.
- MCSE TCP/IP Exam Cram Adaptive Edition**, Certification Insider Press, June, 1999. 492 pp.  
by Gary Novosel, James Michael Stewart, and Kurt L. Hudson  
Project manager, series editor, and contributor to a quick and focused Exam Preparation study guide for MCSE exam 70-059.
- MCSE+I Practice Tests Exam Cram**, Certification Insider Press, August, 1999. 283 pp.  
by James Michael Stewart and Gary Novosel  
Project manager and contributing writer for a book and CD containing practice tests to help test-takers practice for the MCSE+I core exams and electives: 70-087 Internet Information Server, 70-059 TCP/IP, 70-079 IE 4 Administration, 70-088 Proxy Server and 70-081 Microsoft Exchange Server 5.5.
- Remote Access Essentials**, AP PROFESSIONAL, October, 1995. 237 pp.  
By Margaret Robbins  
A review of networked and standalone remote access technologies that enable users to dial in and use computer resources over the telephone. Includes discussion of relevant software and hardware components, case studies, and online resources.
- The 60-Minute Guide to Shockwave**, IDG Books Worldwide, March, 1996. 224 pp.  
By William Hurley, Prescott Gregg, and Sebastian Hassinger  
Co-writer and editor for a hands-on book that covers Macromedia's Shockwave for Director technology, and a variety of hands-on Web publication tutorials. The book includes a technology overview, a complete exposition of Shockwave's capabilities and use, and numerous sample projects. Intended as an overview and first exposure to programmers seeking to learn more about the kinds of capabilities enabled by Shockwave.
- The 60-Minute Guide to VRML**, IDG Books Worldwide, October, 1995. 218 pp.  
By Mike Erwin and Sebastian Hassinger  
Co-writer and editor for a hands-on book that covers the VRML programming language and development environments, and a variety of VRML-enabled Web browsers. The book includes a language overview, a complete exposition of the language's syntax and semantics, and numerous sample applications and virtual spaces. Intended as an overview and first exposure to programmers seeking to learn more about the kinds of virtual worlds enabled by VRML.
- Start Your Own Business**, Entrepreneur Magazine Press, October, 1998. 710 pp.  
by John Enck and the Staff of Windows NT Magazine  
Ed Tittel and James Michael Stewart contributed an article entitled "System Management Tools," pp.84-88 to this book.
- WebKit For Dummies**, Wiley For Dummies, February, 2012. 408 pp.  
by Chris Minnick  
Tech editor of this how-to guide to creating Web sites and mobile apps using WebKit.
- Windows NT Magazine Administrator's Survival Guide: Systems Management and Security**, 29th St. Press, July 1998. 376 pp.  
by Rieva Lesonsky and the Staff of Entrepreneur Magazine  
Ed Tittel contributed chapter 29 "Get Wired: Demystifying the world of computers," pp. 395-413.
- Windows NT Magazine Instant Solutions: Key to Optimizing & Tuning Windows NT 4.0**, 29th Street Press, April, 1999. 252 pp.  
by James Michael Stewart  
An extremely brief overview of Windows NT Performance Monitor and Network Monitor.
- Windows NT Server, One Step at a Time**, Microsoft Press, June, 1996. 352 pp.  
By Brian L. Brandt and Mike Nash  
An introduction to Windows NT 3.51, from installation to everyday management and use. LANWrights (and Ed Tittel) contributed chapters 2 through 19 of this book under contract to Microsoft, and all appendices.



***XML Black Book***, 2nd Ed., The Coriolis Group, June, 2000. 640 pp.

by Natanya Pitts-Moultis and Chelsea Valentine

An updated overview and explanation of XML technologies, aimed at WebMasters and Web developers who seek to take advantage of this powerful new data-oriented content management and delivery technology.

The first edition was completed for The Coriolis Group in November 1998 by Natanya Pitts-Moultis and Cheryl Kirk.

***XML In Record Time***, Sybex Books, December, 1998. 548 pp.

by Natanya Pitts

An introduction to and explanation of XML markup and concepts, aimed at making novices ready to begin working with XML as quickly as possible.

### **BOOKS that include the LANWrights Test Engine**

[Total: 23 titles; 16 not mentioned elsewhere.]

*A+ Exam Prep*, Certification Insider Press, April, 1998. 968 pp.  
*Exchange Server 5.5 Exam Prep\**, Certification Insider Press, September, 1998. 638 pp.  
*Java 2 Programmer Exam Prep\**, Certification Insider Press, June, 1991. 568 pp.  
*Linux Exam Prep\**, Certification Insider Press, March, 2000. 600 pp.  
*MCSD Architectures Exam Prep*, Certification Insider Press, September, 1999. 600 pp.  
*MCSD Visual C++ Desktop Exam Prep*, Certification Insider Press, November, 1999. 600 pp.  
*MCSD Visual Basic 6 Desktop Exam Prep*, Certification Insider Press, October, 1999. 1,000 pp.  
*MCSE Administering SQL Server 7 Exam Prep*, Certification Insider Press, March 2000. 700 pp.  
*MCSE Database Design On SQL Server 7 Exam Prep*, Certification Insider Press, November, 1999. 755 pp.  
*MCSE Networking Essentials Exam Prep\**, Certification Insider Press, February, 1998. 620 pp.  
*MCSE IIS 4.0 Exam Prep\**, Certification Insider Press, July, 1998. 604 pp.  
*MCSE NT Server 4 Exam Prep\**, Certification Insider Press, May, 1998. 640 pp.  
*MCSE NT Server 4 in the Enterprise Exam Prep\**, Certification Insider Press, July, 1998. 456 pp.  
*MCSE NT Workstation 4 Exam Prep\**, Certification Insider Press, March, 1998. 600 pp.  
*MCSE Proxy Server 2 Exam Prep\**, Certification Insider Press, July, 1998. 592 pp.  
*MCSE NT TCP/IP Exam Prep\**, Certification Insider Press, April, 1998. 396 pp.  
*MCSE Windows 98 Exam Prep\**, Certification Insider Press, March, 1999. 616 pp.  
*Microsoft Excel 97 Exam Prep*, Certification Insider Press, October, 1997. 512 pp.  
*Microsoft PowerPoint 97 Exam Prep*, Certification Insider Press, October, 1997. 264 pp.  
*Microsoft PowerPoint 2000 Exam Prep*, Certification Insider Press, January, 2000. 224 pp.  
*Microsoft Word 97 Exam Prep*, Certification Insider Press, October, 1997. 488 pp.  
*Microsoft Word 2000 Exam Prep*, Certification Insider Press, January, 2000. 464 pp.  
*Network+ Exam Prep*, Certification Insider Press, June, 1999. 696 pp.

***IT White Papers and Tech Briefs***  
***Listed alphabetically, by title***

[17 documents]

***“ABCs of IT Security for CPAs #4: A CPA’s Introduction to Mobile and Remote Computing Security Considerations”*** white paper, n.d., American Institute of Certified Public Accountants (AICPA), <http://infotech.aicpa.org/NR/rdonlyres/3BE1CA94-99AB-454F-9AFC-3D0B729D2114/0/MobileSecurity.pdf>

***“ABCs of IT Security for CPAs #5”*** white paper, 2009, American Institute of Certified Public Accountants (AICPA), [http://infotech.aicpa.org/NR/rdonlyres/B11DC393-F717-4E12-B3FC-8470A970AEFC/0/AICPA\\_DesktopSecurity\\_2.pdf](http://infotech.aicpa.org/NR/rdonlyres/B11DC393-F717-4E12-B3FC-8470A970AEFC/0/AICPA_DesktopSecurity_2.pdf)

***“ABCs of IT Security for CPAs #6: Introduction to Perimeter Security”*** white paper, with Justin Korelc, n.d., American Institute of Certified Public Accountants (AICPA)

***“ABCs of IT Security for CPAs #7: Introduction to Security Maintenance Considerations”*** white paper, with Justin Korelc, n.d., American Institute of Certified Public Accountants (AICPA)

***“Building an Enterprise IPv6 Test Lab”*** brief, with Jeff Carrell, edited by David Strom, ReadWriteWeb, October 21, 2011. <http://www.readwriteweb.com/enterprise/2011/10/brief-building-an-enterprise-i.php>

***“Consolidating Servers Through Virtualization”*** tech brief, Spiceworks/AMD, May 30, 2011. [http://community.spiceworks.com/lg/amd\\_consolidating\\_servers](http://community.spiceworks.com/lg/amd_consolidating_servers)

***“Ensuring the Continued Operation of Your Business When Disaster Strikes”*** white paper, with Earl Follis, Comcast/TechTarget, September 2013, pending publication

***“Identity Management and Access Control Introduction”*** white paper, with Justin Korelc, 2008, American Institute of Certified Public Accountants (AICPA), [http://www.aicpa.org/download/infotech/2008\\_Top\\_Tech/Identity\\_Management\\_&\\_Access\\_Control.pdf](http://www.aicpa.org/download/infotech/2008_Top_Tech/Identity_Management_&_Access_Control.pdf)

***“Making the Business Case for Leveraging Data Center Interconnect for Business Continuity”*** white paper, Juniper Networks/TechTarget, 2013, <http://www.juniper.net/us/en/local/pdf/additional-resources/techtargt-making-business-case.pdf>

***“Optimize Your Network Infrastructure to Deliver Higher Application Performance”*** white paper, Comcast/TechTarget, September 2013, pending publication

***“Redefining the Enterprise WAN”*** white paper, Juniper Networks/TechTarget, 2013, <http://www.juniper.net/us/en/forms/techtargt-redefining-enterprise-wan/>

***“Server 2008 R2 Data Warehousing Fasttrack”*** tech brief, Spiceworks/AMD, May 31, 2011. [http://community.spiceworks.com/lg/amd\\_sql\\_server\\_data\\_warehousing](http://community.spiceworks.com/lg/amd_sql_server_data_warehousing)

***“Server Side Virtualization for Backup, Business Continuity, & Disaster Recovery”*** tech brief, Spiceworks/AMD, May 31, 2011. [http://community.spiceworks.com/lg/amd\\_server\\_side\\_virtualization\\_updated](http://community.spiceworks.com/lg/amd_server_side_virtualization_updated)

***“The Essentials Series: Protecting Client Data in the Cloud: A Channel Perspective”*** white paper series, i365/Realtime, August, 2011. <http://nexus.realtimepublishers.com/espcd.php>

***“Top 10 Things to Consider During a Recession”*** white paper, with Justin Korelc, published Summer 2009, American Institute of Certified Public Accountants (AICPA)

***“Understanding the Need for Business Continuity Management and Disaster Recovery Planning”*** white paper, with Justin Korelc, 2008, American Institute of Certified Public Accountants (AICPA), [http://www.aicpa.org/download/infotech/2008\\_Top\\_Tech/Understanding\\_DRP\\_&\\_BCM.pdf](http://www.aicpa.org/download/infotech/2008_Top_Tech/Understanding_DRP_&_BCM.pdf)

***“VyprVPN™ —Your Data Security Drawbridge to the Cloud”*** white paper, Powerhouse Management, September 6, 2011

## ***Blogs***

[The entries in this section do not constitute an exhaustive list but represent the breadth and depth of blog postings by Ed Tittel.]

### ***HTML, XHTML, & CSS For Dummies***

Frequency: Monthly

Answers to commonly asked questions plus news and information relevant to various editions of *HTML For Dummies* (Ed Tittel and a varied cast of co-authors). Ed and Chris Minnick take turns blogging one or more times a month on Web markup languages, tools, and technologies.

<http://www.dummieshtml.com/category/editorial/>

### ***IT Career Jumpstart***

Frequency: Three times a week

Musings on IT careers, certification, employment, and the economy with a special emphasis on programs and offerings with broad market appeal.

<http://itknowledgeexchange.techtarget.com/it-jobs/>

### ***Making It in IT***

Frequency: Weekly with occasional extra postings

Information, news and information on IT careers and certifications, with a special emphasis on designing and implementing career development and continuing education programs for IT professionals from newcomers to experts.

<http://www.tomsitpro.com/tags/?refine=ed+tittel&author=ed+tittel>

### ***Pearson IT Certification***

Frequency: Weekly

Information, news, and musings on IT certification credentials and programs, higher education, and related career topics with a special emphasis on keep IT professionals updated on IT certification news and trends.

<http://www.pearsonitcertification.com/blogs/author.aspx?a=6491b443-ec58-44b7-a7fc-f2f95c53100d>

### ***Windows Enterprise Desktop***

Frequency: Three times a week

Information about tools, technologies, and Windows operating systems installation, configuration, deployment, and troubleshooting with a special emphasis on enterprise deployment and use of Windows desktop technologies.

<http://itknowledgeexchange.techtarget.com/vista-enterprise-desktop/>

### ***IT Certification Articles***

[The entries in this section do not constitute an exhaustive list but represent the breadth and depth of articles written by Ed Tittel.]

#### ***Biztech***

“Essential Certifications to Get Ahead in IT,” August 22, 2013.  
<http://www.biztechmagazine.com/article/2013/08/essential-certifications-get-ahead-it>

#### ***GoCertify.com***

“Java Certifications - What's Happening Now?,” June 5, 2013.  
<http://www.gocertify.com/articles/java-certifications-2013.html>

“Why Certify IT Certifications?,” January 22, 2013.  
<http://www.gocertify.com/articles/why-certify-certifications.html>

“Wanted: More Feedback on Certification Exam Results!”, January 8, 2013.  
<http://www.gocertify.com/articles/why-exam-feedback-is-needed.html>

“Putting Your Certs to Work on the Job Hunt,” November 28, 2012.  
<http://www.gocertify.com/articles/it-certifications-and-job-hunting.html>

“CPHIT Certification from Health IT Certification, LLC Ranked in the Top 5 IT Certifications in Healthcare,” June 19, 2012.  
<http://www.gocertify.com/press-releases/cphit-health-it-certification-ranked-top-five.html>

“IT Job Worries Increase the Importance of Training,” January 14, 2009.  
<http://www.gocertify.com/articles/training-up.html>

“Choosing a Microsoft Certification,” March 24, 2006.  
<http://www.gocertify.com/articles/choosing-a-microsoft-certification.html>

“How to Compete in the Post-Dot-Com Certification Era,” December 13, 2004.  
<http://www.gocertify.com/articles/tittel-compete.html>

“The State of Performance Based Testing,” July 25, 2004.  
<http://www.gocertify.com/articles/performancebasedtesting.html>

“MCSE/MCSA Certification Paths,” October 15, 2003.  
<http://www.gocertify.com/articles/mcse-windows2003-certification.html>

#### ***PearsonITCertification.com***

##### **General Certification Information**

“Ranking Certifications, Part 1: One Method for Rating Certifications (2013 Edition),” February 15, 2013.  
<http://www.pearsonitcertification.com/articles/article.aspx?p=1832676>

“Ranking Certifications, Part 2: The Ratings (2013 Edition),” February 15, 2013.  
<http://www.pearsonitcertification.com/articles/article.aspx?p=1832677>

“Why Vendors Like Certification Programs,” January 31, 2011.  
<http://www.pearsonitcertification.com/articles/article.aspx?p=1665786>

“Why Organizations and Professional Societies Build Cert Programs,” January 27, 2011.  
<http://www.pearsonitcertification.com/articles/article.aspx?p=1665785>

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Contributing editor

Monthly column: “Learning Tools;” occasional IT Study Guides: Certification Magazine; was under contract for 2-4 cover stories annually until January 2006; “Ask the Expert” on general IT certification and related career questions. Regular certification profile and cert expert opinion pieces, semi-monthly information security newsletter.

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[www.SearchSecurity.com](http://www.SearchSecurity.com): security certification surveys updated twice yearly; “Ask The Expert” (security certs)

[www.SearchSystemsChannel.com](http://www.SearchSystemsChannel.com): advice and tips aimed at value-added resellers (VARs), information technology resellers and systems integrators

[www.SearchWebmanagement.com](http://www.SearchWebmanagement.com): XML development & research tips, semi-monthly; Web Performance tips, monthly (Jan, 2001 through July, 2002); Outsourcing tips, semi-monthly (Jan, 2001 through July, 2002), Visual Studio.NET tips monthly

[www.SearchUnifiedCommunications.com](http://www.SearchUnifiedCommunications.com): UC expert advice and tips; “Ask the Expert”

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“Toshiba TDP-FF1AU Mobile Projector,” June, 2007, <http://www.tomsguide.com/us/dads-and-grads-buyers,review-958-2.html>

“Trimble AllSport GPS,” June, 2007, <http://www.tomsguide.com/us/dads-and-grads-buyers,review-958-7.html>

“Two Big-Screen Multimedia Notebooks with HD-DVD Players: Windows Media Center Notebooks With HD-DVD Players,” with Toby Digby, January, 2007, <http://www.tomsguide.com/us/mce-notebooks-revisited,review-865.html>

“The Ultimate Collection,” May, 2007, <http://www.tomsguide.com/us/grads-and-dads-1,review-948-4.html>

“Two New Twists on Skype Phone Gear: Introduction,” with Justin Korelc, May, 2006, <http://www.tomsguide.com/us/two-new-twists-on-skype-phone-gear,review-706.html>

“Valentine’s Day Gadget Lust: JVC Everio GZ-MG630,” by Rachel Rosmarin and Ed Tittel, February, 2009, <http://www.tomsguide.com/us/pictures-story/60-valentines-gadget-gifts.html>

“Vonage V-Phone,” May, 2007, <http://www.tomsguide.com/us/gifts-for-dads-and-grads-part-2,review-954-10.html>

“We Build 4 HDMI-Based HTPCs: Is The World Ready For DIY HDMI PCs? Are We?,” May, 2007, <http://www.tomsguide.com/us/we-build-4-diy-hdmi,review-943.html>

“We Test Our BYO HTPCs With Intel’s DHCAT: Intel’s Digital Home Capabilities Assessment Tool,” June, 2007, <http://www.tomsguide.com/us/exploring-intel,review-961.html>

“Why Bother With High Definition DVDs?,” February, 2007, <http://www.tomsguide.com/us/hd-dvd-buyers-guide,review-916-2.html>

“Zalman NC-1000 Cooler,” December, 2006, <http://www.tomsguide.com/us/holiday-buyers-guide-2006,review-860-11.html>



## **OTHER MAGAZINE ARTICLES**

### ***BYTE Magazine***

January, 1989.

“Making the Connection: Can IBM PCs, Macintoshes, and VAXes harmonize in the workplace?” pp. 317-325.

Discussion of state of the art for hardware and software that links PCs, Macs, and VAXes together in the workplace.

“Connecting...Cheap!” p. 318.

Overview of less expensive alternatives to networking for connecting machines mentioned above.

### ***Certification Magazine***

December, 1999

“Emerging Certifications Take Center Stage: Some not-so-well known certification programs can round out your IT credentials,” pp. 56-63.

Overview of hot certs, new and old, including MS, Cisco, SAP, Chauncey, and many more.

### ***ComputerLife***

September, 1996

and Bob LeVitus, “Fixing Flaky SCSI,” pp. 137-139.

Q&A on a number of topics, including SCSI device attachments, reading USENET newsgroups, compression utilities, and more.

June, 1995

“Let Your Spreadsheet Do the Cooking,” pp. 163-164.

Using a spreadsheet to convert recipes for 2 to recipes for 20 (or 200!) can be a snap if you know your units of measure, and follow a few rules of thumb. This article details how to do just that.

March, 1995

and Alice Hill, “Five Fast Tune Ups,” pp. 111-115.

Five quick fixes that can upgrade your system that are simpler than tuning your car, and guaranteed to be grease-free!

“Three Free (or almost free) Performance Boosters,” pp. 112-ff.

A discussion of three cost-efficient ways to improve the performance of PCs by building a better backup, defragmenting a hard disk and cleaning up the PC file system.

### ***ComputerWorld***

December 5, 1988.

“Resolving Differences on Mixed-Machine LANs” pp. 86-87.

Case studies of users moving data among various mini’s and mainframes to and from Macintoshes (Motorola, Hart Information Systems, Schlumberger).

### ***Connect: The Journal of Computer Networking***

Spring, 1989.

“Islands in the Sun,” pg. 58.

A description of Texas A&M’s Engineering Experiment Station Mac-PC networking.

“The Laboratory Mac,” pg. 58.

Macintosh networking at Motorola’s Schaumburg, IL. plant.

“Leading Edge Macintoshes,” pg. 61.

ARCO’s Plano, TX, networking environment uses Macs in a mixed AppleTalk, TCP/IP setting.

### ***Datamation***

January, 1997

and James Michael Stewart, “Choose the Right Platform and NOS for Your Intranet,” pp. 118-126.

Collection of edited excerpts taken from The Intranet Bible.

October, 1996

“Let NT Connect Your Intranet,” pp. 127-132.

An overview of Windows NT 4.0, and its built-in and add-on capabilities that can support an in-house intranet.

September, 1996

and Mary Madden, and David B. Smith, “Use NT for Your Web Server,” pp. 131-136.

Collection of edited abstracts taken from Building Windows NT Web Servers.

### ***InfoWorld***

August 12, 1996

and Jim Huggans, “Disaster recovery ‘Stacs’ up with Replica for NetWare,” pg. N1.

A review of Stac’s Replica NetWare backup software, which offers a broad range of backup services and capabilities.

### ***InfoWorld***

April 29, 1996

“OnNet32 brings Windows onto the Internet in style,” p. I6.

A review of FTP Software’s OnNet32 integrated communications software for e-mail and Internet access.

April 8, 1996

“Web technology saves tax system from obsolescence,” pp. 1,59.

A discussion of the use of Web front-end technology at the TX State Comptroller, where Web browsers are slated to become the interface of choice to their mainframe-based tax collection, accounting, and property management systems.

October 9, 1995.

“Write It Format It - Once,” pp. 59-61.

A discussion among World Wide Web (WWW) publishing leaders from the IRS, Novell and technical publisher O’Reilly and Assoc. on how to coordinate successful Web publishing projects while avoiding duplicate data problems.

August 14, 1995.

and Mary Madden, “Manager’s Bulletin Board,” pg. 59.

A discussion of reliance on SNMP and DMI standards for network managers who suffer from disjointed, unwieldy and patchwork vendor components and utilities.

August 14, 1995.

“Piecing Together Network Management,” pp. 53-58.

A discussion of the problems and issues faced by network managers who seek to use network management systems and software to help control and handle their networks (numerous sidebars, including discussions of current networking standards, and online resources about network management).

April 3, 1995.

“Multiprocessing Nears Prime-Time,” pp. 51-52.

A discussion of multiprocessing computing systems technology and terminology, with an analysis of today’s marketplace for MP systems, along with predictions for emerging trends.

August 5, 1992.

and Paul Burch, “Ins and Outs of NetWare Backup,” pp. 105-107.

A description and analysis options available for backing up NetWare LANs, including investigation of new Storage Management System alternatives for upcoming release of NetWare 4.0.

### ***Interop Online***

Weekly column beginning September 2, 1996

“Ed’s Advice,” opinion column on all things networking and Internet-related. Covers a broad range of topics.

### ***I-Way***

June/July, 1996.

and James Michael Stewart, “SuperPrint Lives up to its Name,” pp. 19-20, and “Internet Utility for Globetrotters,” pg. 22.

Two short reviews, the first of a Windows 95/NT print utility, the other of a time zone display and clock management program.

November, 1995.

and Steve James, “Just Browsing,” pp. 48-52.

An overview of various World Wide Web browsers. Some view the Web with graphical style and grace, while others take a no frills approach.

June, 1995.

“Out of the Slow Lane,” pp. 83-89.

A description of how to optimize hardware and software for speed to access the riches of information on the Internet and the World Wide Web in an efficient manner.

### ***MacWorld Magazine***

August, 1990.

“Flash: An AppleTalk File Transfer Utility,” pg. 205.

Review of Beagle Bros. Flash file transfer and chat utility for Macintoshes.

### ***Maximize***

December, 1995.

and Steve James, “Making Room in Your RAM,” pp. 42-46.

Discussion of how to run your favorite Windows applications without having an “out of memory” experience.

November, 1994 (startup date).

and Bob LeVitus, “Point & Click Talk Windows,”

Semi-monthly Windows help column with a humorous twist, ran through February, 1996.

### ***NetGuide***

July, 1996

and James Michael Stewart, "The Intranet Means Business," pp. 121-127.

Covers the whys and wherefores of the Intranet phenomenon in businesses and organizations all over the world, where Internet technologies are deployed for internal use, often with outstanding results.

June, 1995.

"You Send Me: Open your own virtual post office with electronic mail software that delivers," pp. 57-60.

An overview of E-mail software for PCs, with discussion of desirable features, capabilities, and things to seek out (and avoid) while becoming e-mail literate.

### ***NetWare Advisor***

October, 1990.

"Open Systems: Towards a Unified Network Management Strategy," pp. 12-13.

A discussion of levels of network management and the systems and standards evolving to meet them.

"Using Portables as File Servers," pp. 1, 11-13.

An overview of how to set up a portable PC as a NetWare server, with discussion of possible applications, Novell-certified portable platforms, and rules of thumb for use.

September, 1990.

Interview with Gary Stimac, VP, Engineering, Compaq Computer, 2 pp.

Selections from a transcript of a telephone interview that covered EISA vs. MicroChannel, superserver technology, Compaq's marketing plans, and state of the networking art at Compaq.

August, 1990.

"Using the Novell LANalyzer," pp. 3-6.

Hands-on description of using the LANalyzer to troubleshoot common network problems.

### ***PC Magazine, Network Edition***

August, 1995.

"Close-Up 6.0," pg. 283.

Short review of Close-Up 6.0, evaluating the features and functions of this remote control product by Norton Lambert.

"CoSession for Windows 2.0g," pp 283-ff.

Brief evaluation of Triton Technologies' remote access program.

November 22, 1994.

"Avanti takes NetWare to task," pp. NE 40.

First-Looks: short review of Avanti Technologies TaskMaster, a NetWare NLM that provides scripting facilities, along with a scheduler for running unattended batch jobs.

October 11, 1994.

"Don't Touch That Keypad," pp. NE 37-38.

First-Looks: short reviews of Clearwave Communications' Intellect Telephone PC Link and OCTuS, Inc.'s Personal Telecommunications Assistant, with a sidebar on Centrex telephone services.

### ***PC World***

February, 1996.

and Mary Madden, "Reliably Yours (choosing a reliable PC server)," pg. 120-124.

A discussion of hardware, tools, and techniques that server manufacturers use to improve reliability of machines destined for service as network servers, plus some approaches that users can employ to the same ends.

### ***Reseller Resource***

February, 1990.

"A Survivor's Tale: UNIX: Yesterday, Today, & Tomorrow," pp. 4-ff.

Overview of UNIX history and markets, including development and elaboration inside & outside Bell Labs.

### ***The Sun Observer***

Bimonthly column, ran from June 1989 to January 1990.

A column entitled "The Network View" that appeared in a number of PCI Communications' monthly vertical-market trade rags (including also *The Digital Desktop*, *Unisys World*, etc.). Primary focus was multivendor integration, networking architectures, and network management.

### ***SunWorld Online***

February, 1998

“What’s the point of XML” <http://www.sunworld.com/sunworldonline/swol-02-1998/swol-02-xml.html>

An overview of XML terminology, technology, and concepts, intended to help readers understand and orient themselves to this new and interesting Web publishing toolset.

September, 1996

“Benchmarking the Web.” <http://www.sun.com/sunworldonline/swol-09-1996/swol-09-webbench.html>

An examination of numerous Web benchmarks, including the recently announced SPECweb benchmark. Includes sidebars on Web benchmarking requirements and an interview with Dan Connolly of the W3C about Web benchmarking in general.

### ***The Web Security Report***

September, 2007

“The Wisdom of a Global Network.” [http://www.ironport.com/pdf/wsr\\_2007\\_09.pdf](http://www.ironport.com/pdf/wsr_2007_09.pdf)

An examination of how collective opinions and the knowledge of large numbers of people do better at problem solving, fostering innovation, decision making, and predicting future events and trends than do individuals or small groups.

### ***Windows NT Magazine***

September, 1996

and Mary Madden, “Multi-Homing on the Web,” pp. 87-93.

How to set up and configure your NT server to play host to multiple virtual Web sites on a single machine.

August, 1996

and Mary Madden, “Primary Domain Controllers, Backup Domain Controllers, and Availability,” pp. 75-78.

Implementing a backup of your primary domain controller will help keep the network running should that primary ever fail.

July, 1996

and Mary Madden, “Easy Access to the Internet,” pp. 107-110.

Using RAS and dial-up services to connect a Windows NT-based LAN to an Internet service provider.

March, 1996

and Mary Madden, “Extend Your Web Server,” pp. 35-40.

A review of methods for extending Web servers beyond simple text displays, including Java, Internet Studio, VRML, and animation techniques.

### ***WindowsUser***

September, 1992 - August, 1993.

Co-author (with Bob LeVitus) of “Point and Click Talk Windows,” a monthly column dedicated to answering user questions about Microsoft Windows. Also appeared on the magazine’s masthead as a contributing editor, and wrote 1-3 other articles on various subjects per month (total non-column pieces contributed: 25).

***OTHER WRITING:***

***Ghost Writing***

January, 1993- May, 1994

While still at Novell, I ghost-wrote articles for Ray Noorda and John Edwards for ***Computer Reseller News***, and ***Communications Week***.

***Contract Writing***

May, 1994-present

My current client list includes Novell, Microsoft, Tivoli Systems, Symantec Corporation, GTE Communications, Cheyenne, and MicroTest, for whom I have written white papers, book drafts, and technical briefs on a variety of subjects ranging from CD-ROM Servers, to Web services and monitoring, to information assurance and security, to Distributed Network Management.

### *Expert Witness Work*

Civil Action No. 2-06CV-42 (JRG) Hon Rodney Gilstrap DDR Holdings, LLC v. Hotels.com, et al  
Attorney of record: Fish & Richardson, P.C./Katrina G. Eash [eash@fr.com; 214-760-6118]  
Retained as non-infringement expert for three Patents-in-Suit  
Report filed June 29, 2012  
Case settled prior to trial date.

Civil Action No. 6:09-CV-422 Hon Leonard E. Davis Alcatel-Lucent USA Inc. v. Amazon.com, Inc., et al  
Attorney of record: Fish & Richardson, P.C./Lara Garner [LGarner@fr.com; 858-678-4332]  
The Webb Law Firm/Kent Baldauf, Jr. [KBaldaufJr@WebbLaw.com; 412-471-8815]  
Bracewell-Giuliani LLP/John H. Barr, Jr. [John.Barr@bglp.com; 713-221-1242]  
Retained as non-infringement expert for two of three total patents in contention  
Case heard October 11-14, 2011 [Testified on 10/13/2011]  
Deposed June 14, 2011 by Jan Conlin in Dallas, TX

Civil Action No. 6:07-CV-511 Hon. Leonard E. Davis Soverain Software LLC v. CDW Corporation, Newegg Inc. et al  
09/02/2009 Deposed in Pittsburgh, PA by Thomas L. Giannetti and Ognian V. Shentov  
09/03/2009 Deposed in Pittsburgh, PA by Thomas L. Giannetti and Ognian V. Shentov  
04/25-30/10 Attend trial for 6:07-CV-511 in Tyler, TX [Testified on morning of 4/28]  
Attorneys of record: The Webb Law Firm/Kent Baldauf, Jr. [KBaldaufJr@WebbLaw.com; 412-471-8815]

Civil Action No. 1:09-cv-3667 Hon. John W. Darrah 21 SRL v. Newegg Inc.  
08/09/2010 Draft expert report on non-infringement, work cancelled by out-of-court settlement of case  
No testimony given, no depositions taken, no report filed  
Attorney of record: Zarian-Midgley/Justin Stewart [stewart@zmjlaw.com; 208-562-4914]

Civil Action No: 6:09-cv-00481-LED US District Court Tyler Division Clear with Computers vs. Bergdorf Goodman et al  
4/26/2011 Signed Protective Order regarding case  
6/29/2011 Instructions received to cease and desist working on the case owing to out-of-court settlement  
No testimony given, no depositions take, no report filed  
Attorney of record: David Swetnam-Burland, Brann & Isaacson [dsb@brannlaw.com; 207.689.9760 ]

