

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Lakshmi Arunachalam
APPLICATION NO.: 11/980,185
FILING DATE: October 30, 2007
TITLE: Multi-Media Transactional Services (as amended)
EXAMINER: Viet Duy Vu
ART UNIT: 2454
CONF. NO.: 5863
ATTY.DKT.NO.: PA5041US

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RESPONSE A

Examiner Vu:

In response to the non-final office action dated January 6, 2010 (*Office Action*), please enter the following **amendments to the specification** and **claims**, which commence on **pages two** and **three**, respectively. The Applicant's **remarks** and **conclusions** may be found beginning on **pages eleven** and **fourteen**, respectively.

IN THE SPECIFICATION

PLEASE AMEND PARAGRAPHS 1-3 ON PAGE 1 OF THE ORIGINALLY FILED SPECIFICATION AS FOLLOWS:

[0001] This application is a continuation-in-part and claims the priority benefit of United States patent co-pending application number 09/792,323 filed February [[Feb.]] 23, 2001, now United States patent number 7,340,506, which [[was]] is a continuation-in-part and claims the priority benefit of United States patent application 08/879,958 filed June 20, 1997, now United States patent U.S. Patent number 5,987,500, which [[was]] is a divisional and claims the priority benefit of United States patent application number 08/700,726 filed [[Aug.]] August 5, 1996, now United States patent U.S. Patent number 5,778,178, which claims the priority benefit of United States ~~was related to and claimed priority from~~ provisional application number 60/006,634 filed [[Nov.]] November 13, 1995. United States patent application numbers Applications 09/792,323, 08,879,958, 08/700,726, and United States provisional application number 60/006,634 are hereby incorporated by reference.

[0002] In addition, related United States patent applications 09/863,704 filed May 23, 2001, 09/296,207 filed April 21, 1999 (now United States patent number 6,212,556), and United States provisional application number 60/206,422 filed May 23, 2000 are also all hereby incorporated by reference.

[0003] ~~The text of this application is substantially similar to that of application 08/700,726, now U.S. Patent 5,778,178.~~

IN THE CLAIMS

PLEASE AMEND THE CLAIMS AS FOLLOWS:

1. (currently amended) A method for delivering complete multimedia transactional services over the World Wide Web, the method comprising:

receiving a transactional request for access to multimedia content, the transactional request received from a multimedia user, wherein the transactional request includes an object that is a transactional data structure specific to a transactional web application;

executing an exchange component to provide the multimedia user with a choice of currently available multimedia content services accessible to the exchange component;

receiving a selection of a currently accessible multimedia content service from the multimedia user;

providing a choice of available multimedia content from the selected multimedia content service to the multimedia user;

receiving a request from the multimedia user for multimedia content from the selected multimedia content service; and

providing the requested multimedia content to the multimedia user ~~in real-time,~~ wherein providing the requested multimedia content includes and responsive to the routing of the transactional data structure and user request for multimedia content, and wherein the routing of the transactional data structure and subsequent providing of requested multimedia content occur in a service network atop the World Wide Web, and as part of a complete, non-deferred, and real-time transaction.

2. (previously presented) The method of claim 1, wherein the multimedia content includes video.

3. (previously presented) The method of claim 1, wherein the multimedia content includes audio.
4. (previously presented) The method of claim 1, wherein the multimedia content includes web advertising.
5. (currently amended) The method of claim 1, further comprising buying or selling ~~wherein the multimedia content is bought or sold.~~
6. (cancelled)
7. (previously presented) The method of claim 1, wherein providing the requested multimedia content is performed through execution of a switching or exchange component.
8. (previously presented) The method of claim 7, wherein the execution of the switching or exchange component provides a plurality of vertical services.
9. (previously presented) The method of claim 8, wherein vertical services are chosen from the group consisting of messaging, archival retrieval, directory services, data staging, and financial services.

10. (currently amended) A system for delivering complete multimedia transactional services over the World Wide Web, the system comprising:

a management component stored in memory and executable by a processor to receive a request from a multimedia user for multimedia content services, the request including an object that is a transactional data structure specific to a transactional web application;

an exchange component stored in memory and executable by a processor to supply the multimedia user with a choice of available multimedia content services, and wherein the exchange component is further executable to receive a choice by the multimedia user relating to a particular multimedia content service selected from the available multimedia content services; and

a switching component stored in memory and executable by a processor to provide for the transfer of information between the selected multimedia content service and the multimedia user whereby the multimedia user may choose and receive particular multimedia content, the transfer of information responsive to the including routing of the transactional data structure and user request for multimedia content, and wherein the routing of the transactional data structure and subsequent providing of requested multimedia content occur in a service network atop the World Wide Web, and as part of a complete, non-deferred, and real-time transaction.

11. (previously presented) The system of claim 10, wherein the selected multimedia content includes video.

12. (previously presented) The system of claim 10, wherein the selected multimedia content includes audio.

13. (previously presented) The system of claim 10, wherein the selected multimedia content includes web advertising.

14. (cancelled)

15. (previously presented) The system of claim 10, wherein the selected multimedia content is bought or sold.

16. (previously presented) The system of claim 10, wherein the switching component is further executable to provide a plurality of vertical services.

17. (previously presented) The system of claim 16, wherein the vertical services are chosen from the group consisting of messaging, archival retrieval, directory services, data staging, and financial services.

18.-52. (cancelled)

53. (currently amended) A method for providing an enhanced value chain between web merchants and users, the method comprising:

providing a Web site where a user can access a service network atop the World Wide Web upon which a plurality of Web merchants provide complete, non-deferred, and real-time point of service transactional capabilities, ~~the service network running on the Internet;~~

executing an exchange component that interacts with the Web site, wherein execution of the exchange component provides the user with information relating to available point of service applications;

receiving a choice of a point of service application from the user to complete a real-time transaction over the Web; and

routing a complete and non-deferred transactional data structure from the chosen point-of-service web application to the user in real-time, the transactional data structure being specific to the point of service web application.

54. (previously presented) The method of claim 53, wherein the exchange component communicates with a switching component.

55. (currently amended) The method of claim 54, wherein the switching component routes ~~information~~ the data structure between the user and the point of service application.

56. (previously presented) The method of claim 53 further comprising providing users a list of available point of service applications.

57. (previously presented) The method of claim 53, wherein the exchange component communicates with an object routing component.

58. (previously presented) The method of claim 57, wherein the object routing component allows completion of the real-time transaction.

59. (currently amended) The method of claim 53, wherein user is selected from the group consisting of a supplier, partner, distributor, or value-added reseller.

60.-71. (cancelled)

72. (currently amended) A method for performing a real time transaction over a digital network, the method comprising:

providing a web page for display on a computer system coupled to an input device;

providing a point of service application as a selection within the web page, wherein the point of service application provides access to both a checking and savings account, the point of service application operating in a service network atop the World Wide Web;

accepting a first signal from the user input device to select the point of service application;

accepting subsequent signals from the user input device; and

transferring funds from the checking account to the savings account in real time utilizing a routed transactional data structure that is both complete and non-deferred in addition to being specific to the point of service application, the routing occurring [[and]] in response to the subsequent signals.

73. (previously presented) The method of claim 72, wherein an exchange over the Web is used to complete the transfer of funds in a Web application.

74. (previously presented) The method of claim 72, wherein a management agent is used to complete the transfer of funds.

75. (previously presented) The method of claim 72, wherein object routing is used to complete the transfer of funds.

76. (currently amended) The method of claim 75, wherein the object routing includes the use of a distributed on-line service information base bases.

77. (previously presented) The method of claim 72, wherein a virtual information store is used to complete the transfer of funds.

78. (previously presented) The method of claim 77, wherein the virtual information store includes a networked object specific to a web application in a Web transaction.

79. (previously presented) The method of claim 78, wherein the networked object is the object identity in a Web transaction connecting from a Web application on a Web page to a transactional application executing anywhere on the Web.

80.-82. (cancelled)

83. (previously presented) The method of claim 72, wherein the transaction is a loan requested from a lender.

84. (previously presented) The method of claim 72, wherein the transaction is a vehicle purchased with bank financing.

85. (previously presented) The method of claim 72, wherein the transaction is accessing an account.

86.-110. (cancelled)

REMARKS

AMENDMENTS TO THE SPECIFICATION

The Examiner requested that the Applicant update the status of the related applications on the first page of the specification. See *Office Action*, 1. The Applicant has provided the requested information through an amendment to the specification.

35 U.S.C. § 103(A) REJECTION

The Examiner rejects claims 1-5, 7-13, 15-17, 53-59, 72-79 and 83-85 under 35 U.S.C. 103(a) as being unpatentable over Rogers et al. (U.S. patent number 5,793,964). See *Office Action*, 2. The Applicant respectfully disagrees in that the Rogers reference fails to disclose an object that is a transactional data structure specific to a transactional web application. Rogers also fails to disclose a service network operating atop the World Wide Web. Rogers finally fails to disclose complete, non-deferred, real-time transactions.

Independent claim 1 recites the step of ‘receiving a transactional request for access to multimedia content, the transactional request received from a multimedia user, wherein the transactional request includes **an object that is a transactional data structure specific to a transactional web application.**’ As noted above, Rogers fails to disclose an ‘object that is a transactional data structure’ as that term is understood in the ‘185 Patent application—a data structure specific to a Web application. While pending claims are given their “broadest reasonable interpretation” during patent prosecution, that interpretation, however, must be “consistent with the specification” and construed “interpreted [as] by one of ordinary skill in the art.” *Phillips v. AWH Corp.*, 415 F.3d 1303, 1316 (Fed. Cir. 2005); *In re Am. Acad. of Sci. Tech. Ctr.*, 367 F.3d 1359, 1364 (Fed. Cir. 2004); *In re Cortright*, 165 F.3d 1353, 1359 (Fed. Cir.1999); MPEP § 2111. The Rules of

Patent Practice require claims to “conform to the invention as set forth in the remainder of the specification” and that “the meaning of the terms in the claims . . . be ascertainable by reference to the description.” 37 C.F.R. § 1.75(d)(1). The Applicant respectfully submits that similar *words* do **not** equate to similar *concepts*. The Examiner’s application of Rogers against the claims of the ‘185Application requires adoption of an interpretation of the claims that is inconsistent with the specification and that would not have been adopted by one of ordinary skill in the art.

Rogers disclose ‘image objects 30, 31, 32, 33, 34.’ See 964:9:67; Fig. 2. Said objects do not constitute an encapsulation of data into a ‘transactional data structure specific to a transactional web application’ as is the ‘object’ that is recited in independent claim 1 of the present application. Rogers’ ‘object’ is not a ‘transactional data structure’ much less one that is specific to a non-existent transactional web application. Rogers, therefore, cannot meet this or any of the limitations in claim 1 that relate to an ‘object’ or transactional data structure specific to a transactional web application, including the final step of claim 1, which involves the ‘routing of the transactional data structure.’

Independent claim 1 also recites ‘**providing . . . requested multimedia content . . . in a service network atop the World Wide Web, and as part of a complete, non-deferred, and real-time transaction.**’ Rogers wholly fails to disclose a complete, non-deferred, real-time transaction. Rogers also fails disclose *any* transaction—much less one that is complete, non-deferred, and occurring in real-time—that occurs in a service network atop the World Wide Web. The Examiner’s rejection (as does Rogers) fails to distinguish between the physical Internet and the claimed “service network,” which may operate “atop a facilities network” such as the physical Internet, Web, email networks, or other IP-based facilities networks. Rogers concerns little more than the display, in a Web browser, of pie charts and reports. Such graphic displays are unrelated to transactional data structures specific to a transactional Web application and routing in a service network atop the World Wide Web. Rogers utilizes CGI and stripping field-by-field

from a Web form with each field being sent one at a time as standard I/O, which was previously disclaimed in parent application and now U.S. Patent number 5,778,178 at '178:1:65-2:31.

The Examiner states that “[c]laims 10-13, 15-17, 53-59 are similar in scope as that of claims 1-5 and 7-9” are similarly rejected. *Office Action*, 4. To the extent that Rogers fails to anticipate or render obvious claims 1-5 and 7-9, claims 10-13, 15-17, 53-59 are likewise novel and non-obvious per the Examiner’s stated logic.

Claims 72-79 and 83-85

Rogers does not anticipate nor render obvious independent claim 72, because Rogers does not disclose or teach a transactional Web application, much less a banking Web application that is transactional, complete, non-deferred, and operating in real-time in a service network atop the World Wide Web.

CONCLUSION

The Rogers reference fails to disclose an object that is a transactional data structure specific to a transactional web application. Rogers also fails to disclose a service network operating atop the World Wide Web. Rogers finally fails to disclose complete, non-deferred, real-time transactions. In light of the foregoing, Rogers fails to disclose any of the independent claims of the present application. Rogers similarly fails to disclose the completely claimed subject matter of any dependent claim for at least the same reasons as the independent claim from which said claim depends. The present application is believed to be in condition for allowance. The Examiner is invited to contact the undersigned with any questions concerning the present response.

Respectfully submitted,
Lakshmi Arunachalam

June 7, 2010

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Electronic Patent Application Fee Transmittal

Application Number:	11980185
Filing Date:	30-Oct-2007
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Filer:	TamThanh Thi Pham
Attorney Docket Number:	PA5041US

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with \$0 paid	1252	1	490	490

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				490

Electronic Acknowledgement Receipt

EFS ID:	7763968
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	07-JUN-2010
Filing Date:	30-OCT-2007
Time Stamp:	20:05:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$490
RAM confirmation Number	6061
Deposit Account	060600
Authorized User	

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		PA5041US_Response.pdf	149546 5a2a743c9d27c6f560dff36580d4247c8750be8f	yes	14

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Specification	2	2
Claims	3	10
Applicant Arguments/Remarks Made in an Amendment	11	14

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	30115 e99c0fd8e9f89fb3c645ce743490b12a0ec0b6c9	no	2
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New International Application Filed with the USPTO as a Receiving Office

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11/980,185	Filing Date 10/30/2007	<input type="checkbox"/> To be Mailed
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APPLICATION AS FILED – PART I			OTHER THAN SMALL ENTITY				
(Column 1)		(Column 2)	SMALL ENTITY <input checked="" type="checkbox"/>		OR	SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)		RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A			N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =		OR	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =			X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II					OTHER THAN SMALL ENTITY					
(Column 1)		(Column 2)	(Column 3)		SMALL ENTITY		OR	SMALL ENTITY		
AMENDMENT	DATE	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
	06/07/2010									
	Total <small>(37 CFR 1.16(i))</small>	* 33	Minus	** 110	= 0	X \$26 =	0	OR	X \$ =	
	Independent <small>(37 CFR 1.16(h))</small>	* 4	Minus	*** 13	= 0	X \$110 =	0	OR	X \$ =	
<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>										
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>										
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

APPLICATION AS AMENDED – PART II					OTHER THAN SMALL ENTITY					
(Column 1)		(Column 2)	(Column 3)		SMALL ENTITY		OR	SMALL ENTITY		
AMENDMENT	DATE	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
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	Independent <small>(37 CFR 1.16(h))</small>	*	Minus	***	=	X \$ =		OR	X \$ =	
<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>										
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>										
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

Legal Instrument Examiner:
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Electronic Acknowledgement Receipt

EFS ID:	6871772
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	13:18:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Warnings:

Information:

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Total Files Size (in bytes):			209661555		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	6894727
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	13:35:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	6876023
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	13:23:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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Warnings:					
Information:					
Total Files Size (in bytes):			524496567		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Electronic Acknowledgement Receipt

EFS ID:	6901290
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	13:56:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	NPL Documents	WEBX_NP076D.pdf	13610786 <small>2bb70200272975049d583ef13fe8256d478134d</small>	no	110

Warnings:

Information:

2	NPL Documents	WEBX_NP076E.pdf	13168142	no	107
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	6890447
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	13:28:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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47	NPL Documents	WEBX_NP135B.pdf	10986659	no	100
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	6895630
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	13:45:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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22	NPL Documents	WEBX_NP267A.pdf	21339679	no	150
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29	NPL Documents	WEBX_NP503.pdf	2157163	no	18
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30	NPL Documents	WEBX_NP504.pdf	3368114	no	24
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40	NPL Documents	WEBX_NP514.pdf	4413848	no	29
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54	NPL Documents	WEBX_NP523E.pdf	18496942	no	192
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56	NPL Documents	WEBX_NP523G.pdf	23901405	no	192
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58	NPL Documents	WEBX_NP220.pdf	185230	no	7
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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	Filing Date		2007-10-30
	First Named Inventor	Arunachalam, Lakshmi	
	Art Unit		2454
	Examiner Name	Viet Duy Vu	
	Attorney Docket Number		PA5041US

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	5	5148474		1992-09-15	Haralambopoulos et al.	
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10	5297249		1994-03-22	Bernstein et al.	
11	5329589		1994-07-12	Fraser et al.	
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21	5434974		1995-07-18	Loucks et al.	
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32	5519868		1996-05-21	Allen et al.	
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34	5539909		1996-07-23	Tanaka et al.	
35	5557780		1996-09-17	Edwards et al.	
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38	5592378		1997-01-07	Cameron et al.	
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42	5671279		1997-09-23	Elgamal	
43	5677708		1997-10-14	Matthews et al.	
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	1	97/18515	WO	A1	1997-05-02	Arunachalem, Lakshmi		<input type="checkbox"/>
	2	00/63781	WO	A1	2000-10-26	Arunachalem, Lakshmi		<input type="checkbox"/>

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13	5794234		1998-08-11	Church et al.	
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21	5845061		1998-12-01	Miyamoto et al.	
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11	6094673		2000-07-25	Dilip et al.	
12	6101482		2000-08-08	DeAgelo et al.	
13	6101527		2000-08-08	Lejeune et al.	
14	6119152		2000-09-12	Carlin et al.	
15	6125185		2000-09-26	Boesch	
16	6125352		2000-09-26	Franklin et al.	
17	6128315		2000-10-03	Takeuchi	
18	6134594		2000-10-17	Hellands et al.	
19	6135646		2000-10-24	Kahn et al.	

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

Application Number	11980185
Filing Date	2007-10-30
First Named Inventor	Arunachalam, Lakshmi
Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

20	6145090		2000-11-01	Yamaguchi et al.	
21	6185609		2001-02-06	Rangarajan et al.	
22	6192250		2001-02-20	Buskens et al.	
23	6205433		2001-03-20	Boesch et al.	
24	6212556		2001-04-03	Arunachalam	
25	6212634		2001-04-03	Geer et al.	
26	6249291		2001-06-19	Popp et al.	
27	6289322		2001-09-11	Kitchen et al.	
28	6295522		2001-09-25	Boesch	
29	6301601		2001-10-09	Helland et al.	
30	6327577		2001-12-04	Garrison et al.	

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31	6327579		2001-12-04	Crawford	
32	6334116		2001-12-25	Ganesan et al.	
33	6360262		2002-03-19	Guenthner et al.	
34	6363362		2002-03-26	Burfield et al.	
35	6411943		2002-06-25	Crawford	
36	6453426		2002-09-17	Gamache et al.	
37	6457066		2002-09-24	Mein et al.	
38	6473740		2002-10-29	Cockrill et al.	
39	6473791		2002-10-29	Al-Ghosein et al.	
40	6490567		2002-12-03	Gregory	
41	6553427		2003-04-22	Chang et al.	

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Attorney Docket Number	PA5041US

42	6574607		2003-06-03	Carter et al.	
43	6625581		2003-09-23	Perkowski	
44	6678664		2004-01-13	Ganesan	
45	6678696		2004-01-13	Helland et al.	
46	6714962		2004-03-30	Helland et al.	
47	6839677		2005-01-01	Mathur et al.	
48	6850996		2005-02-01	Wagner	
49	6856974		2005-02-15	Ganesan et al.	
50	6932268		2005-08-23	McCoy et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		11980185	
	Filing Date		2007-10-30	
	First Named Inventor	Arunachalam, Lakshmi		
	Art Unit		2454	
	Examiner Name	Viet Duy Vu		
	Attorney Docket Number		PA5041US	

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FOREIGN PATENT DOCUMENTS

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		11980185
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	First Named Inventor	Arunachalam, Lakshmi	
	Art Unit		2454
	Examiner Name	Viet Duy Vu	
	Attorney Docket Number		PA5041US

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6948063		2005-09-20	Ganesan et al.	
	2	7076784		2006-07-11	Russell et al.	
	3	7080051		2006-07-18	Kight et al.	
	4	7107244		2006-09-12	Kight et al.	
	5	7120602		2006-10-10	Kitchen et al.	
	6	7146338		2006-12-05	Kight et al.	
	7	7177846		2007-02-13	Moenickeheim et al.	
	8	7213003		2007-05-01	Kight et al.	

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9	7240031		2007-07-03	Kight et al.	
10	7251656		2007-07-31	Keown et al.	
11	7296004		2007-11-13	Garrison et al.	
12	7302408		2007-11-27	Engdahl et al.	
13	7302411		2007-11-27	Ganesan et al.	
14	7330831		2008-02-12	Biondi et al.	
15	7334128		2008-02-19	Ganesan et al.	
16	7366696		2008-04-29	Ganesan et al.	
17	7366697		2008-04-29	Kitchen et al.	
18	7383226		2008-06-03	Kight et al.	
19	7392223		2008-06-24	Ganesan et al.	

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	Art Unit	2454
	Examiner Name	Viet Duy Vu
	Attorney Docket Number	PA5041US

20	7395243		2008-07-01	Zielke et al.	
21	7340506		2008-03-04	Arunachalam	
22	60208057		2000-05-31	Krichilsky	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020152200	A1	2002-10-17	Krichilsky et al.	
	2	20030069922	A1	2003-04-10	Arunachalam	
	3	20080091801	A1	2008-04-17	Arunachalam	

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	11980185
	Filing Date	2007-10-30
	First Named Inventor	Arunachalam, Lakshmi
	Art Unit	2454
	Examiner Name	Viet Duy Vu
	Attorney Docket Number	PA5041US

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		11980185	
	Filing Date		2007-10-30	
	First Named Inventor	Lakshmi Arunachalam		
	Art Unit		2454	
	Examiner Name	Viet Duy Vu		
	Attorney Docket Number		PA5041US	

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Application Number	11980185
Filing Date	2007-10-30
First Named Inventor	Lakshmi Arunachalam
Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

1	'Complaint for Declaratory Judgment of Patent Non/Infringement, Invalidity, and Unenforceability; (Dated July 2, 2009) Microsoft Docket #001 (219 pages)	<input type="checkbox"/>
2	'Defendant Webxchange Inc.'S Motion To Dismiss Microsoft's Complaint With Prejudice For Lack Of Subject-Matter Jurisdiction, And For Attorneys' Fees (entered August 26, 2009) Microsoft Docket #009	<input type="checkbox"/>
3	'Microsoft's Opposition To WebXchange, Inc.'s Motion To Dismiss Microsoft's Complaint (dated September 14, 2009) Microsoft Docket #012	<input type="checkbox"/>
4	Order Dismissing Microsoft (October 30, 2009) Judge Alsup Microsoft Docket #017	<input type="checkbox"/>
5	Memorandum Opinion Microsoft (October 30, 2009) Judge Farnan Microsoft Docket #018	<input type="checkbox"/>
6	COMPLAINT filed with Jury Demand against Allstate Corporation, Allstate Insurance Company, Allstate Life Insurance Company, Allstate Financial Services LLC, Allstate Financial LLC - . (Filing fee \$ 350, receipt number 0311000000000419775.) - filed by WebXchange Inc.. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Civil Cover Sheet)(lid) (Entered: 03/05/2008), Allstate Docket #1	<input type="checkbox"/>
7	ANSWER to 1 Complaint, with Jury Demand, COUNTERCLAIM against WebXchange Inc. by Allstate Corporation, Allstate Insurance Company, Allstate Life Insurance Company, Allstate Financial Services LLC, Allstate Financial LLC. (McGeever, Elizabeth) (Entered: 04/25/2008), Allstate Docket #15	<input type="checkbox"/>
8	ANSWER to 15 Answer to Complaint, Counterclaim Plaintiff WebXchange Inc.'s Answer to Defendant Allstate's Counterclaims by WebXchange Inc..(Heaney, Julia) (Entered: 05/19/2008), Allstate Docket #26	<input type="checkbox"/>
9	CLAIM CONSTRUCTION OPENING BRIEF [DEFENDANTS' OPENING BRIEF IN SUPPORT OF THEIR PROPOSED CLAIM CONSTRUCTIONS] filed by Allstate Insurance Company, Allstate Life Insurance Company, Allstate Financial Services LLC. (Moore, David) (Entered: 10/29/2008), Allstate Docket #61	<input type="checkbox"/>
10	CLAIM CONSTRUCTION OPENING BRIEF filed by WebXchange Inc.. (Attachments: # 1 Exhibits A-B)(Heaney, Julia) (Entered: 10/29/2008), Allstate Docket #62	<input type="checkbox"/>
11	FIRST AMENDED ANSWER, Affirmative Defenses, and Counterclaims to 1 Complaint by Allstate Corporation, Allstate Insurance Company, Allstate Life Insurance Company, Allstate Financial Services LLC, Allstate Financial LLC. (nms) (nms). (Entered: 01/14/2009), (Three Parts) Allstate Docket #90	<input type="checkbox"/>

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	11980185
	Filing Date	2007-10-30
	First Named Inventor	Lakshmi Arunachalam
	Art Unit	2454
	Examiner Name	Viet Duy Vu
	Attorney Docket Number	PA5041US

12	ANSWER to 90 Amended Answer to Complaint, Counterclaim by WebXchange Inc..(Heaney, Julia) (Entered: 02/02/2009), Allstate Docket #96	<input type="checkbox"/>
13	MOTION to Bifurcate AND FOR EARLY TRIAL ON THE ISSUE OF INEQUITABLE CONDUCT - filed by FedEx Corporation, FedEx Kinko's Office & Print Services, Inc., FedEx Corporate Services Inc.. (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), Allstate Docket #107	<input type="checkbox"/>
14	NOTICE OF MOTION re 107 MOTION to Bifurcate AND FOR EARLY TRIAL ON THE ISSUE OF INEQUITABLE CONDUCT; Requesting the following Motion Day: April 17, 2009 (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), Allstate Docket #108	<input type="checkbox"/>
15	7.1.1 STATEMENT re 107 MOTION to Bifurcate AND FOR EARLY TRIAL ON THE ISSUE OF INEQUITABLE CONDUCT by FedEx Corporation, FedEx Kinko's Office & Print Services, Inc., FedEx Corporate Services Inc.. (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), Allstate Docket #109	<input type="checkbox"/>
16	REDACTED VERSION of 110 Opening Brief in Support,, by FedEx Corporation, FedEx Kinko's Office & Print Services, Inc., FedEx Corporate Services Inc.. (Attachments: # 1 Exhibit 1, # 2 Exhibit 2, # 3 Exhibit 3, # 4 Exhibit 4, # 5 Exhibit 5, # 6 Exhibit 6, # 7 Exhibit 7, # 8 Exhibit 8, # 9 Exhibit 9, # 10 Exhibit 10, # 11 Exhibit 11, # 12 Exhibit 12, # 13 Exhibit 13)(Gaza, Anne) (Entered: 03/23/2009), (Four Parts) Allstate Docket #111	<input type="checkbox"/>
17	CLAIM CONSTRUCTION OPENING BRIEF Defendants' Opening Brief in Support of Their Proposed Claim Constructions filed by Allstate Insurance Company, Allstate Life Insurance Company, Allstate Financial Services LLC. (McGeever, Elizabeth) (Entered: 03/23/2009), Allstate Docket #112	<input type="checkbox"/>
18	CLAIM CONSTRUCTION OPENING BRIEF filed by WebXchange Inc.. (Attachments: # 1 Exhibits A-B)(Heaney, Julia) (Additional attachment(s) added on 3/25/2009: # 2 Main Document) (nms). (Entered: 03/23/2009), (Two Parts) Allstate Docket #114.	<input type="checkbox"/>
19	PLAINTIFF WEBXCHANGE INC.'S CORRECTED ANSWERING BRIEF IN OPPOSITION TO DEFENDANTS' MOTION TO BIFURCATE, AND FOR EARLY TRIAL ON, THE ISSUE OF INEQUITABLE CONDUCT /// CERTIFICATE OF SERVICE I, the undersigned, hereby certify that on May 13, 2009, I electronically filed the foregoing with the Clerk of the Court using CM/ECF, which will send notification of such filing(s) to the following: /// CERTIFICATE OF SERVICE I, the undersigned, hereby certify that on May 13, 2009, I electronically filed the foregoing	<input type="checkbox"/>
20	"DECLARATION OF ERIC 3. STIEGLITZ IN SUPPORT OF PLAINTIFF WEBXCHANGE INC.'S ANSWERING BRIEF IN OPPOSITION TO DEFENDANTS' MOTION TO BIFURCATE, AND FOR EARLY TRIAL ON, THE ISSUE OF INEQUITABLE CONDUCT // REDACTED - PUBLIC VERSION / signed April 27, 2009 CERTIFICATE OF SERVICE I, the undersigned, hereby certify that on May 13, 2009, I electronically filed the foregoing with the Clerk of the Court using CM/ECF, which will send notification of such filing(s) to the following: (Two Parts)", Allstate Docket #132.	<input type="checkbox"/>
21	Case 1:08-cv-00131-JJF Document 142 Filed 06/01/2009 Page 1 of 19 // REPLY BRIEF IN SUPPORT OF DEFENDANTS' MOTION TO BIFURCATE, AND 11011 EARLY TRIAL ON, THE ISSUE OF INEQUITABLE CONDUCT /// REDACTED PUBLIC VERSION /// CERTIFICATE OF SERVICE I hereby certify that on June 1, 2009, I caused to be served by electronic mail the foregoing document and electronically filed the same with the Clerk of Court using CM/ECF which will send notification of such filing(s) to the following: 'Exhibits A-W to Redacted Reply	<input type="checkbox"/>
22	"Case 1:08-cv-00131-JJF Document 146 Filed 06/18/2009 Page 1 of 5 // MOTION FOR LEAVE TO AMEND ANSWER, AFFIRMATIVE DEFENSES, AND COUNTERCLAIMS // Filed: June 18, 2009", Allstate Docket #146.	<input type="checkbox"/>

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

Application Number	11980185
Filing Date	2007-10-30
First Named Inventor	Lakshmi Arunachalam
Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

23	"DEFENDANTS' OPENING BRIEF IN SUPPORT OF ITS MOTION FOR LEAVE TO AMEND ANSWER, AFFIRMATIVE DEFENSES, AND COUNTERCLAIMS // Case 1:08-cv-00131-JJF, Filed 06/18/2009 Page 1 of 12 ", Allstate Docket #147.	<input type="checkbox"/>
24	PLAINTIFF WEBXCHANGE INC.'S ANSWERING BRIEF IN OPPOSITION TO ALLSTATE'S SECOND MOTION FOR LEAVE TO AMEND ITS ANSWER, C.A. No. 08-131 (JJF), Allstate Docket #148.	<input type="checkbox"/>
25	COMPLAINT filed with Jury Demand against Dell Inc. -. (Filing fee \$ 350, receipt number 0311000000000419782.) - filed by WebXchange Inc.. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Civil Cover Sheet)(lid) (Entered: 03/05/2008), Dell Docket #1.	<input type="checkbox"/>
26	ANSWER to 1 Complaint with Jury Demand, COUNTERCLAIM [DELL INC.'S ANSWER, DEFENSES AND COUNTERCLAIMS TO WEBXCHANGE INC.'S COMPLAINT FOR PATENT INFRINGEMENT] against Dell Inc. by Dell Inc..(Horwitz, Richard) (Entered: 03/26/2008), Dell Docket #8.	<input type="checkbox"/>
27	ANSWER to 8 Answer to Complaint, Counterclaim Plaintiff WebXchange Inc.'s Answer to Defendant Dell's Counterclaims by WebXchange Inc..(Heaney, Julia) (Entered: 04/18/2008), Dell Docket #11.	<input type="checkbox"/>
28	CLAIM CONSTRUCTION OPENING BRIEF [DEFENDANTS' OPENING BRIEF IN SUPPORT OF THEIR PROPOSED CLAIM CONSTRUCTIONS] filed by Dell Inc.. (Moore, David) (Entered: 10/29/2008), Dell Docket #45.	<input type="checkbox"/>
29	CLAIM CONSTRUCTION OPENING BRIEF filed by WebXchange Inc.. (Attachments: # 1 Exhibits A-B)(Heaney, Julia) (Entered: 10/29/2008), Dell Docket #46.	<input type="checkbox"/>
30	REPLY BRIEF re 37 MOTION for Discovery filed by Dell Inc.. (Attachments: # 1 Exhibit A - L, # 2 Exhibit M - S)(Gaza, Anne) (Entered: 10/31/2008), Dell Docket #47.	<input type="checkbox"/>
31	MOTION to Amend/Correct Answer and Counterclaims to Complaint (UNOPPOSED) - filed by Dell Inc.. (Attachments: # 1 Notice of Motion, # 2 Text of Proposed Order, # 3 Exhibit A (First Amended Answer), # 4 Exhibit B (Blackline of First Amended Answer))(Moore, David) Modified on 1/13/2009 (nms). (Entered: 01/12/2009), Dell Docket #72.	<input type="checkbox"/>
32	ORDER Granting 72 Defendant Dell Inc.'s Unopposed Motion to Amend its Answer and Counterclaims to Webexchange Inc's Original Complaint for Patent Infringement. Signed by Judge Joseph J. Faman, Jr. on 1/13/2009. (nms) (Entered: 01/14/2009), Dell Docket #74.	<input type="checkbox"/>
33	Dell Inc.'s FIRST AMENDED ANSWER and Counterclaims to 1 Complaint by Dell Inc.. (nms) (Entered: 01/14/2009), Dell Docket #75.	<input type="checkbox"/>

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	11980185
	Filing Date	2007-10-30
	First Named Inventor	Lakshmi Arunachalam
	Art Unit	2454
	Examiner Name	Viet Duy Vu
	Attorney Docket Number	PA5041US

34	ANSWER to 75 Amended Answer to Complaint, Counterclaim by WebXchange Inc..(Heaney, Julia) (Entered: 02/02/2009), Dell Docket #79.	<input type="checkbox"/>
35	MOTION to Bifurcate AND FOR EARLY TRIAL ON, THE ISSUE OF INEQUITABLE CONDUCT - filed by FedEx Corporation, FedEx Kinko's Office & Print Services, Inc., FedEx Corporate Services Inc.. (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), Dell Docket #85.	<input type="checkbox"/>
36	NOTICE OF MOTION re 85 MOTION to Bifurcate AND FOR EARLY TRIAL ON THE ISSUE OF INEQUITABLE CONDUCT; Requesting the following Motion Day: April 17, 2009 (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), Dell Docket #86.	<input type="checkbox"/>
37	7.1.1 STATEMENT re 85 MOTION to Bifurcate AND FOR EARLY TRIAL ON THE ISSUE OF INEQUITABLE CONDUCT by FedEx Corporation, FedEx Kinko's Office & Print Services, Inc., FedEx Corporate Services Inc.. (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), Dell Docket #87.	<input type="checkbox"/>
38	REDACTED VERSION of 88 Opening Brief in Support., by FedEx Corporation, FedEx Kinko's Office & Print Services, Inc., FedEx Corporate Services Inc.. (Attachments: # 1 Exhibit 1, # 2 Exhibit 2, # 3 Exhibit 3, # 4 Exhibit 4, # 5 Exhibit 5, # 6 Exhibit 6, # 7 Exhibit 7, # 8 Exhibit 8, # 9 Exhibit 9, # 10 Exhibit 10, # 11 Exhibit 11, # 12 Exhibit 12, # 13 Exhibit 13)(Gaza, Anne) (Entered: 03/23/2009), (Three Parts) Dell Docket #89.	<input type="checkbox"/>
39	CLAIM CONSTRUCTION OPENING BRIEF Defendants' Opening Brief in Support of Their Proposed Claim Constructions filed by Dell Inc.. (McGeever, Elizabeth) (Entered: 03/23/2009), Dell Docket #90.	<input type="checkbox"/>
40	CLAIM CONSTRUCTION OPENING BRIEF filed by WebXchange Inc.. (Attachments: # 1 Exhibits A-B)(Heaney, Julia) (Additional attachment(s) added on 3/25/2009: # 2 Main Document) (nms). (Entered: 03/23/2009), (Two parts) Dell Docket #92.	<input type="checkbox"/>
41	Defendant Dell Inc.'s Motion for Leave to Amend Its Answer (to file a Second Amended Answer); Jury Trial Demanded (entered July 23, 2009) Dell Docket #130.	<input type="checkbox"/>
42	Plaintiff WebXchanges Inc.'s Answering Brief in Opposition to Dell's Second Motion for Leave to Amend its Answer (entered August 10, 2009) Dell Docket #134.	<input type="checkbox"/>
43	Defendant Dell Inc.'s Opening Brief in Support of Its Motion for Leave to Amend Answer (entered August 11, 2009) Dell Docket #136.	<input type="checkbox"/>
44	Declaration of Charlotte Pontillo In Support Of WebXchange Inc.'s Answering Brief In Opposition to Dell's Second Motion for Leave to Amend Its Answer; (entered August 12, 2009) Dell Docket #137.	<input type="checkbox"/>

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	11980185
	Filing Date	2007-10-30
	First Named Inventor	Lakshmi Arunachalam
	Art Unit	2454
	Examiner Name	Viet Duy Vu
	Attorney Docket Number	PA5041US

45	Defendant Dell Inc.'s Reply Brief in Support of Its Motion for Leave to Amend Answer (entered August 20, 2009) Dell Docket #138.	<input type="checkbox"/>
46	Order, Judge Stark, Dell Docket #139.	<input type="checkbox"/>
47	COMPLAINT filed with Jury Demand against FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc. - (Filing fee \$ 350, receipt number 0311000000000419793.) - filed by WebXchange Inc.. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C, # 4 Civil Cover Sheet)(lid) (Entered: 03/05/2008), FedEx Docket #1	<input type="checkbox"/>
48	ANSWER to 1 Complaint, with Jury Demand, COUNTERCLAIM against WebXchange Inc. by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc..(Gaza, Anne) (Entered: 04/25/2008), FedEx Docket #13.	<input type="checkbox"/>
49	ANSWER to 13 Answer to Complaint, Counterclaim Plaintiff WebXchange Inc.'s Answer to Defendant FedEx's Counterclaims by WebXchange Inc..(Heaney, Julia) (Entered: 05/19/2008), FedEx Docket #24.	<input type="checkbox"/>
50	CLAIM CONSTRUCTION OPENING BRIEF [DEFENDANTS' OPENING BRIEF IN SUPPORT OF THEIR PROPOSED CLAIM CONSTRUCTIONS] filed by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc.. (Moore, David) (Entered: 10/29/2008), FedEx Docket #58.	<input type="checkbox"/>

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	Filing Date		2007-10-30	
	First Named Inventor	Lakshmi Arunachalam		
	Art Unit		2454	
	Examiner Name	Viet Duy Vu		
	Attorney Docket Number		PA5041US	

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Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

1	CLAIM CONSTRUCTION OPENING BRIEF filed by WebXchange Inc.. (Attachments: # 1 Exhibits A-B)(Heaney, Julia) (Entered: 10/29/2008), FedEx Docket #59.	<input type="checkbox"/>
2	MOTION to Amend/Correct 13 Answer to Complaint, Counterclaim - filed by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc.. (Attachments: # 1 Exhibit A, # 2 Exhibit B, # 3 Exhibit C)(Gaza, Anne) (Entered: 01/12/2009), FedEx Docket #89.	<input type="checkbox"/>
3	NOTICE OF MOTION by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc. re 89 MOTION to Amend/Correct 13 Answer to Complaint, Counterclaim MOTION to Amend/Correct 13 Answer to Complaint, Counterclaim ; Requesting the following Motion Day: February 19, 2009 (Gaza, Anne) (Entered: 01/12/2009), FedEx Docket #90.	<input type="checkbox"/>
4	SEALED OPENING BRIEF in Support re 89 MOTION to Amend/Correct 13 Answer to Complaint, Counterclaim MOTION to Amend/Correct 13 Answer to Complaint, Counterclaim filed by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc.. Answering Brief/Response due date per Local Rules is 1/30/2009. (Gaza, Anne) (Entered: 01/12/2009), FedEx Docket #91	<input type="checkbox"/>
5	ORDER Granting 89 Unopposed Motion for Leave to Amend Answer. Signed by Judge Joseph J. Faman, Jr. on 1/13/2009. (nms) (Entered: 01/14/2009), FedEx Docket #96.	<input type="checkbox"/>
6	FIRST AMENDED ANSWER, Affirmative Defenses, and Counterclaims to Plaintiff re 1 Complaint, with Jury Demand by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc..(nms) (Entered: 01/14/2009), FedEx Docket #97.	<input type="checkbox"/>
7	REDACTED VERSION of 91 Opening Brief in Support, by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc.. (Attachments: # 1 Exhibit A - D)(Gaza, Anne) (Entered: 01/21/2009), FedEx Docket #98.	<input type="checkbox"/>
8	Amended ANSWER to 97 Answer to Complaint, Counterclaim by WebXchange Inc..(Heaney, Julia) (Entered: 02/02/2009), FedEx Docket #100.	<input type="checkbox"/>
9	MOTION to Bifurcate AND FOR EARLY TRIAL ON, THE ISSUE OF INEQUITABLE CONDUCT - filed by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc.. (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), FedEx Docket #108.	<input type="checkbox"/>
10	NOTICE OF MOTION re 108 MOTION to Bifurcate AND FOR EARLY TRIAL ON, THE ISSUE OF INEQUITABLE CONDUCT; Requesting the following Motion Day: April 17, 2009 (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), FedEx Docket #109.	<input type="checkbox"/>
11	STATEMENT re 108 MOTION to Bifurcate AND FOR EARLY TRIAL ON, THE ISSUE OF INEQUITABLE CONDUCT by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc.. (Gaza, Anne) Modified on 3/23/2009 (nms). (Entered: 03/19/2009), FedEx Docket #110.	<input type="checkbox"/>

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Attorney Docket Number	PA5041US

12	CLAIM CONSTRUCTION OPENING BRIEF Defendants' Opening Brief in Support of Their Proposed Claim Constructions filed by FedEx Corporation, FedEx Kinko's Office & Print Services Inc., FedEx Corporate Services Inc.. (McGeever, Elizabeth) (Entered: 03/23/2009), FedEx Docket #113.	<input type="checkbox"/>
13	CLAIM CONSTRUCTION OPENING BRIEF filed by WebXchange Inc.. (Attachments: # 1 Exhibits A-B)(Heaney, Julia) (Additional attachment(s) added on 3/25/2009: # 2 Main Document) (nms). (Entered: 03/23/2009), (Two parts) FedEx Docket #115.	<input type="checkbox"/>
14	DEFENDANTS' MOTION FOR LEAVE TO AMEND ITS ANSWER, FedEx Docket #145.	<input type="checkbox"/>
15	DEFENDANTS' BRIEF IN SUPPORT OF ITS MOTION FOR LEAVE TO AMEND ANSWER // C.A No, 08-133 (JIF) // Dated: June 12, 2009, FedEx Docket #147.	<input type="checkbox"/>
16	UIUC , "The Common Gateway Interface", pp1_4, http://hoohoo.ncsa.uiuc.edu/cgi/primer.html , Retrieved on 5/22/2001 , WBX000.	<input type="checkbox"/>
17	Arnold, K et al. , "Media-Independent Interfaces in a Media-Dependent World", Proceedings of the USENIX Conference on Object-Oriented Technologies, Monterey, CA, June 1995 , WBX001.	<input type="checkbox"/>
18	Arshad, K.M et al. , "A CORBA based framework for trusted E-Commerce Transactions", Enterprise Distributed Object Computing Conference, pp 18-25, EDOC '99. Proceedings, 3rd International, 9/27/1999 , WBX002.	<input type="checkbox"/>
19	Atkinson, R. , RFC 1825: "Security Architecture for the Internet Protocol", Naval Research Laboratory, Category: Standards Track, Network Working Group, 8/1/95 , WBX007.	<input type="checkbox"/>
20	Banks, M. , "America Online: A Graphics-based Success", Link-Up, Jan/Feb 1992 , WBX008.	<input type="checkbox"/>
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23	BARRON, C. and WEIL, B., "Dr. Dobbs Portal: Implementing a Web Shopping Cart", Online Transactions in PERL, 9/1/96 WBX011.	<input type="checkbox"/>
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25	Bharat, K. et al. , "Distributed Applications in a Hypermedia Setting", Proc. of the International Workshop on Hypermedia Design, Montpellier, http://www.cc.gatech.edu/gvu/people/PhdKrishnaIWHD.html , 6/1/95 , WBX013.	<input type="checkbox"/>
26	Birrell A. et al. , "Network Objects", SRC Research Report, 2/28/94, WBX014.	<input type="checkbox"/>
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28	Bowen, C. et al. , "How to Get the Most out of CompuServe" 5th Ed. 1991, Random House, Inc. 1991, WBX016.	<input type="checkbox"/>
29	Braden, R. et al. , RFC 1122: "Requirements for Internet Hosts -- Communication Layers" 10/1/89, WBX017.	<input type="checkbox"/>
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31	MICROSOFT, 7,340,506 - APPENDIX A to the Request for Inter Partes Re-examination of, Payne, December 2008, WBX019.	<input type="checkbox"/>
32	Broadvision, "Broadvision One-to-One: On-line Marketing and Selling Application System Developers' Guide", 1995, WBX020.	<input type="checkbox"/>
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34	Broadvision, "Broadvision One-to-One: On-Line Marketing and Selling Application System: Installation and System Administration Guide" 1995, WBX022.	<input type="checkbox"/>
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39	Case, J. et al. , "Network Management and the Design of SNMP", Connexions (ISSN 0894-5926), Vol. 3, No. 3, March 1989, WBX027.	<input type="checkbox"/>
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41	Chung, S. et al. , "A Heterogeneous Distributed Information System", IEEE, pp 443-447, 1993, WBX029.	<input type="checkbox"/>
42	Courtney, A. , "Phantom: An Interpreted Language for Distributed Programming", Proceedings of the USENIX Conference on Object-Oriented Technologies, Monterey, CA, June 1995, WBX030.	<input type="checkbox"/>
43	CYBERCASH, "Affiliate Marketing Service", http://www.cybercash.com/products/affiliatemarketing.html [retrieved on 5/23/01] 1996, WBX031.	<input type="checkbox"/>
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45	"CyberCash B2BServices", 1996, WBX033.	<input type="checkbox"/>
46	"CyberCash Cash Register Internet Payment Service". Web Page [online]. CyberCash Cash Register--Online Secure Payment Service. [retrieved on May 23, 2001] Retrieved from the Internet:<URL:http://www.cybercash.com/cashregister pp. 1-2. 1996, WBX034.	<input type="checkbox"/>
47	"CyberCash--Cash Register--How it Works" [retrieved on May 23, 2001] Retrieved from the Internet:<URL:http://www.cybercash.com/cashregister/howitworks.html pp. 1-3. 1996, WBX035.	<input type="checkbox"/>
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6	CYBERCASH, "Payment Software for Brick and Mortar Merchants" http://www.cybercash.com/pcauthorize 1996-2001, WBX046.	<input type="checkbox"/>
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13	DAVISON, A. , "Coding with HTML forms: HTML goes interactive", Dr. Dobb's Journal, June 6, 1995, Vol 20, No. 6, pp70-79, WBX052b.	<input type="checkbox"/>
14	"Distributed Object Technology in the Financial Services Industry: Trading and Risk Management", A White Paper, Sun Microsystems, 1995, WBX053.	<input type="checkbox"/>
15	DENG, R.H. et al. , "Integrating Security in CORBA-based Architectures", IEEE, June 1995, pp 50- 61, WBX054.	<input type="checkbox"/>
16	DETLEFS, D. et al. , "Debugging Storage Management Problems in Garbage Collected Environments, Proceedings of the USENIX Conference on Object-Oriented Technologies, Monterey, CA, June 1995, WBX055.	<input type="checkbox"/>
17	DIETINGER, T. , "Object-Oriented Implementation of a Multiprotocol Hyper-G client for MS-Windows, Diplomarbeit in Telematik, TU Graz, 1995-07-01, WBX056.	<input type="checkbox"/>
18	Dr. GUI on Components, COM and ATL, http://msdn.microsoft.com/library/welcome/dsmsdn/msdn_drguion020298.htm , 1998-02-02, pp. 1-61 [retrieved on May 22, 2001], WBX057.	<input type="checkbox"/>
19	EDWARDS, N. , "Object Wrapping (for WWW) – The Key to Integrated Services, ANSA Phase III, 1995-04-25 , WBX058.	<input type="checkbox"/>
20	EHIKIOYA, S.A. , "An Agent-Based System for Distributed Transactions: a Model for Internet-Based transactions", Electrical and Computer Engineering, 1999 IEEE Canadian Conference on, Vol 1, 1999-05-09, pp 289-294, WBX059.	<input type="checkbox"/>
21	Microsoft DJ Order, C-08-05149 WHA "Order Granting Defendant's Motion To Dismiss", Federal Court of Northern California, 2009-02-17, WBX060.	<input type="checkbox"/>
22	"Portal Solutions, an Open Market eBusiness Solution Brief". White Paper. Open Market, Forrester Research TechRankings, February 2001, WBX061.	<input type="checkbox"/>

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23	"Wireless Solutions, An Open Market eBusiness Solution Brief", WhitePaper. Open Market, Forrester Research TechRankings, February 2001, WBX062.	<input type="checkbox"/>
24	FRAGA, J. et al. , "A Programming Model for Real-Time Applications in Open Distributed Systems", IEEE, 1995, pp 104-111, WBX063.	<input type="checkbox"/>
25	"Dell, Fedex, Allstate, Delaware Claim Construction Introductory Brief_Defendants_Opening Brief in Support of Their Proposed Claim Constructions 3.23.09, 3/27/09, WBX064.	<input type="checkbox"/>
26	GLOSSBRENNER, A. , "MasterGuide to Compuserve", "Chapter 15: Travel Services: Join CompuServe and See the World", Prentice Hall, 1987, WBX065.	<input type="checkbox"/>
27	GROSS, C. , "Taking the Splash Diving into ISAPI Programming", ISAPI Programming, Microsoft Interactive Developer, <URL:http://www.Microsoft.com/mind/0197/ISAPI.htm, 1997-01-01, pp1_10 [retrieved on May 22, 2001], WBX066.	<input type="checkbox"/>
28	"Open Market Inc, Managing in a Turbulent Environment", Harvard Business School, 9-196-097, 1996-08-29 , WBX067.	<input type="checkbox"/>
29	HICKEY, M., "Shopping at Home: One Modem Line, No Waiting", Home PC, Dec. 1, 1994, p. 307, Dialog, File 647, Acc# 01038162, WBX068A.	<input type="checkbox"/>
30	LANG , "Cashing In: The Rush is on to Buy and Sell on the Internet But on Sidelines for Now", Advertising Age, Dec. 19, 1994, p. 11, Dialog, File 16, Acc# 05419137, WBX068B.	<input type="checkbox"/>
31	LICHTY, T. , "America Online Tour Guide", MacIntosh Edition, Version 2, Chapter 1, 3, 8,10, 1992, WBX068C.	<input type="checkbox"/>
32	Tymnet", Wikipedia, the free encyclopedia, http://en.wikipedia.org/wiki/tymnet, Retrieved on 5/1/2007, WBX068D.	<input type="checkbox"/>
33	Cox, B. et al. , "NetBill Security and Transaction Protocol", Carnegie Millon University, Pittsburgh, PA 15212-3890, undated, WBX068E.	<input type="checkbox"/>

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34	LAMOND, K. et al. , "Credit Card Transactions Real World and OnLine", http://www.virtualschool.edu/mon/ElectronProperty/klamond/credit_card.htm , 1996, pp.1-16, WBX068F.	<input type="checkbox"/>
35	"Open Market Catalog Centre", Page [online. Open Market, Inc.--Enterprise Content Management & Delivery. Retrieved on the Internet:<URL: http://www.openmarket.com/cgi-bin/gx.cgi/AppLogic+FT-ContentServer?pagename=FutureTense/Apps/Xcelerate/Render&c=Arti_ZZZ , WBX069.	<input type="checkbox"/>
36	Business Wire, High Beam Wire, "Open Market releases first complete software solution" 16-Oct-95, WBX070.	<input type="checkbox"/>
37	MCCLOGHRIE, K. et al. , RFC 1156, "Management Information Base for Network Management of TCP/IP-based internets", 1990-05-01 , WBX071.	<input type="checkbox"/>
38	Case, J. et al. , RFC 1157 5/1/90, WBX072.	<input type="checkbox"/>
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42	"ORBIX Programmer's Guide", IONA Technologies, 1997-10-01, WBX076.	<input type="checkbox"/>
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1	7,340,506 Inter Partes Re-examination Exhibit 3- WebXchange Claim Construction Introductory Brief, In the US District Court for the District of Delaware, C.A. No. 08-131 (JJF), C. A. 08-132 (JJF), No. 08-133 (JJF), Microsoft, 2008-10-29, WBX148.	<input type="checkbox"/>
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	11980185
Filing Date	2007-10-30
First Named Inventor	Lakshmi Arunachalam
Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

1	ORFALI, R. et al. , "The Essential Distributed Objects Survival Guide"-Part3-1, John Wiley and Sons, 1996 , WBX207.	<input type="checkbox"/>
2	ORFALI, R. et al. , "The Essential Distributed Objects Survival Guide"-Part3-2, John Wiley and Sons, 1996 , WBX208.	<input type="checkbox"/>
3	ORFALI, R. et al. , "The Essential Distributed Objects Survival Guide"-Part3-3, John Wiley and Sons, 1996, WBX209.	<input type="checkbox"/>
4	ORFALI, R. et al. , "The Essential Distributed Objects Survival Guide"-Part4-1, John Wiley and Sons, 1996, WBX210.	<input type="checkbox"/>
5	ORFALI, R. et al. , "The Essential Distributed Objects Survival Guide"-Part4-2, John Wiley and Sons, 1996, WBX211.	<input type="checkbox"/>
6	ORFALI, R. et al. , "The Essential Distributed Objects Survival Guide"-Part4-3, John Wiley and Sons, 1996, WBX212.	<input type="checkbox"/>
7	ORFALI, R. et al. , "The Essential Distributed Objects Survival Guide"-Part4-4, John Wiley and Sons, 1996 , WBX213.	<input type="checkbox"/>
8	Broadvision , "Broadvision One-to-One: Programmer's Reference, Part 1" 1995 , WBX214.	<input type="checkbox"/>
9	Broadvision , "Broadvision One-to-One: Programmer's Reference, Part 2" 1995 , WBX215.	<input type="checkbox"/>
10	OMG , "The Common Object Request Broker: Architecture and Specification", CORBA v2.0_("NYC-#1655390-v1), July 1995-1996, WBX216.	<input type="checkbox"/>
11	NYC-#1579692-v1-WebXchange_--_March_3_DELL_Complaint.DOC, 2008-03-03, WBX217.	<input type="checkbox"/>

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Filing Date	2007-10-30
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Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

12	NYC-#1579751-v1-WebXchange_-_March_3_Allstate_Complaint.DOC, 2008-03-03, WBX218.	<input type="checkbox"/>
13	NYC-#1579947-v1-WebXchange_-_March_3_FedEx_Complaint.DOC, 2008-03-03, WBX219.	<input type="checkbox"/>
14	THE OPEN GROUP , "Inter-domain Management: Specification Translation", 1997, WBX222.	<input type="checkbox"/>
15	THE OPEN GROUP , "Inter-domain Management_Summary of Similarities and Differences", 1997, WBX223.	<input type="checkbox"/>
16	THE OPEN GROUP , "Inter-domain Management_object models comparison", 1997, WBX224.	<input type="checkbox"/>
17	MILLER, M. , "Managing Internetworks with SNMP", 1993, pp138-139, M&T Books., '506 Inter Partes Re-examination Exhibit 12, December 2008, WBX225.	<input type="checkbox"/>
18	UMAR, A. , "Distributed Computing: A Practical Synthesis", "Appendix B: Tutorial on TCP/IP Protocol Suite", (BellCore), 1993, WBX226.	<input type="checkbox"/>
19	UMAR, A. , "Distributed Computing: A Practical Synthesis", "Chapter 5: Client-Server Systems and Application-Interconnectivity", (BellCore), 1993, WBX227.	<input type="checkbox"/>
20	SPERO , "Binary Gateway Interface- An API for Dynamically Extensible http Servers", 1994-07-01, Retrieved on April 5, 2009 from http://www.ibiblio.org/mdma-release/BGI-spec.txt , WBX228.	<input type="checkbox"/>
21	"Point, Click and Shop' Never So Easy; The CheckFree Wallet(TM) Allows Consumers and Merchants to Conduct Simple, Safe Internet Transactions" NewsHound, San Jose Mercury News, PRNewswire, 4/10/95, Retrieved on April 5, 2009 from http://besser.tsoa.nyu.edu_ZZZ , WBX229.	<input type="checkbox"/>
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Application Number	11980185
Filing Date	2007-10-30
First Named Inventor	Lakshmi Arunachalam
Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

23	"EASEL CORPORATION INTRODUCES COMPREHENSIVE PROGRAM FOR EXPANDING OBJECT TECHNOLOGY EXPERTISE", 1995-03-13, BUSINESS WIRE, Retrieved on April 5, 2009 from http://209.85.173.132/search?q=cache:McsjZC2srEJ.findarticles.com/p/articles/mi_m0EIN/is_1995_Marc_ZZZ,WBX231 .	<input type="checkbox"/>
24	"Internet Information Commerce: The First Virtual (TM) Approach", July 1995, Proceedings of the First USENIX Workshop on Electronic Commerce, New York, New York, Retrieved on April 5, 2009 from http://www.usenix.org/publications/library/proceedings/ec95/f_ZZZ,WBX232 .	<input type="checkbox"/>
25	"O'REILLY RELEASES WEBSITE (TM) WEB SERVER FOR WINDOWS NT", WebView, EIT (Enterprise Integration Technologies), 1995-05-12, Volume 7 : Issue 41, ISSN 1004-042X, Computer underground Digest, Retrieved on April 5, 2009 from http://cu-digest.org/CUDS7/cud74_ZZZ,WBX233 .	<input type="checkbox"/>
26	"RSA AND EIT JOINT VENTURE WILL MAKE INTERNET TRANSACTIONS SECURE", Terisa Systems, EIT and RSA: Secure HTTP, 6/13/1994, Retrieved on April 5, 2009 from http://1997.webhistory.org/www.lists/www-talk.1994q2/0980.html,WBX234 .	<input type="checkbox"/>
27	"CommerceNet The First Large-Scale Market Trial of Electronic Commerce on the Internet" EIT: CommerceNet, 1994-08-03, Proceedings of the May 1994, Ties That Bind: Building Community Networks conference, Retrieved on April 5, 2009 from http://internet.eser_ZZZ,WBX235 .	<input type="checkbox"/>
28	RUBIN, A., "IETF - Stockholm meeting" NetCheck: E-signatures, 1995-08-05, pp1-2, CIPHER, Newsletter of the IEEE Computer Society's TC on Security and PrivacyElectronic, Issue 8, Retrieved on April 5, 2009 from http://www.ieee-security.org/Cipher/PastIssu_ZZZ,WBX236 .	<input type="checkbox"/>
29	OPEN MARKET, "FastCGI:A High-Performance Web Server Interface", April 1996, Retrieved on April 5, 2009 from http://www.fastcgi.com/devkit/doc/fastcgi-whitepaper/fastcgi.htm,WBX237 .	<input type="checkbox"/>
30	SUN MICROSYSTEMS, "HotJava", Wikipedia, the free encyclopedia, June 1995, Retrieved on April 5, 2009 from http://en.wikipedia.org/wiki/HotJava,WBX238 .	<input type="checkbox"/>
31	W3C Status Codes, HTRESP_html_w3_org, 1992 WBX239.	<input type="checkbox"/>
32	HEWLETT PACKARD, "HP Oadapter/OpenODB", July 1994, Retrieved on April 5, 2009 from http://web.bilkent.edu.tr/Online/oofaq/oo-faq-S-8.13.0.5.html,WBX240 .	<input type="checkbox"/>
33	Internet Shopping Network_ISN Business Newswire (1995) WBX241.	<input type="checkbox"/>

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Application Number	11980185
Filing Date	2007-10-30
First Named Inventor	Lakshmi Arunachalam
Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

34	NCR Co-operative Frameworks 3, (1993) WBX242.	<input type="checkbox"/>
35	Distributed Objects Everywhere, NEO, Wikipedia (1996) WBX243.	<input type="checkbox"/>
36	NetMarket (1996) WBX244.	<input type="checkbox"/>
37	Enterprise Object Netorks, Wikipedia (1996) WBX245.	<input type="checkbox"/>
38	OMG Document Number 91_12_1 Revision 1_1 (1997) WBX246.	<input type="checkbox"/>
39	DigiCash Smartcards (1997) WBX247.	<input type="checkbox"/>
40	IBM System Object Model_SOM (1998) WBX248.	<input type="checkbox"/>
41	IBM System Object Model_SOM,DSOM (1998) WBX249.	<input type="checkbox"/>
42	Open Market StoreBuilder (1995) WBX250.	<input type="checkbox"/>
43	WebXpress Web StoreFront (1996) WBX251.	<input type="checkbox"/>
44	PNC, Industry.Net do eCommerce (1996) WBX252.	<input type="checkbox"/>

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	11980185
	Filing Date	2007-10-30
	First Named Inventor	Lakshmi Arunachalam
	Art Unit	2454
	Examiner Name	Viet Duy Vu
	Attorney Docket Number	PA5041US

45	10KPowerShip,PowerPartner (1996) WBX253.	<input type="checkbox"/>
46	T. Berners Lee Hypertext Mark up Language RFC1866(1995) WBX 254.	<input type="checkbox"/>
47	E. Nebel RFC1867 (1995) WEBX255.	<input type="checkbox"/>
48	RFC1942 (1996) WEBX256.	<input type="checkbox"/>
49	J. Seidman RFC1980 (1996) WBX257.	<input type="checkbox"/>
50	HTML - Wikipedia, the free encyclopedia – Notepad (1998) WBX258.	<input type="checkbox"/>

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Examiner Signature		Date Considered	
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	Filing Date		2007-10-30	
	First Named Inventor	Lakshmi Arunachalam		
	Art Unit		2454	
	Examiner Name	Viet Duy Vu		
	Attorney Docket Number		PA5041US	

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵

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Filing Date	2007-10-30
First Named Inventor	Lakshmi Arunachalam
Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

1	BERNERS-LEE, T., RFC 1630, "Universal Resource Identifiers in WWW", Network Working Group, CERN, June 1994 WBX259.	<input type="checkbox"/>
2	Object Broker Service Middleware Sourcebook (1995) WBX260.	<input type="checkbox"/>
3	Inter Parte Re-Examination 95/001,129 (2008) WBX261.	<input type="checkbox"/>
4	6,212,556 Re-exam file history 90/010,417 filed (2009) WBX262.	<input type="checkbox"/>
5	U.S. application 11/980,185 prosecution history filed 2008, prosecution history as of March 12, 2009 WBX263.	<input type="checkbox"/>
6	WebX Opening Brief District of Delaware March 23, 2009 WBX264.	<input type="checkbox"/>
7	U.S. Patent 5,778,178 Re_Examination of 90010346_178 prosecution history through August 20, 2009 WBX267.	<input type="checkbox"/>
8	WBXexecsummary4809new2bizplan[1] (2009) WBX268.	<input type="checkbox"/>
9	KRAMER, DOUGLAS Java Whitepaper May 1996, WBX500.	<input type="checkbox"/>
10	09863704 Copy of Response to Non-Final Office Action 06-06-2006, WBX501.	<input type="checkbox"/>
11	09863704 Copy of Response to Non-Final Office Action 07-23-2008 and Examiner Interview Summaries dated 7-2-08 and 7-16-08, WBX502.	<input type="checkbox"/>

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Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

12	09863704 Copy of Response to Non-Final Office Action 08-21-2007, WBX503.	<input type="checkbox"/>
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22	09863704 RCE 02-01-2008, WBX513.	<input type="checkbox"/>

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Art Unit	2454
Examiner Name	Viet Duy Vu
Attorney Docket Number	PA5041US

23	09863704 RCE 06-30-2009, WBX514.	<input type="checkbox"/>
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25	09863704 RCE 12-08-2006, WBX516.	<input type="checkbox"/>
26	11980185 Copy of the Restriction Requirement 10-19-2009, WBX517.	<input type="checkbox"/>
27	90010417 Determination Re-exam Ordered 05-20-2009, WBX518.	<input type="checkbox"/>
28	File History of U.S. Patent 5,778,178, WBX519.	<input type="checkbox"/>
29	File History of U.S. Patent 5,987,500, WBX520.	<input type="checkbox"/>
30	File History of U.S. Patent 6,212,556, WBX521.	<input type="checkbox"/>
31	File History of U.S. Patent 7,340,506, WBX522.	<input type="checkbox"/>
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33	Arunachalam , 09/863,704_2nd_rule56_disclosure.pdf, March 4, 2009 , WBX006.	<input type="checkbox"/>

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	Filing Date	2007-10-30
	First Named Inventor	Lakshmi Arunachalam
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	Examiner Name	Viet Duy Vu
	Attorney Docket Number	PA5041US

34	Arunachalam , 11/980,185_Duty of Candor Rule 56 Disclosure, 2/11/09, WBX220.	<input type="checkbox"/>
35	Arunachalam , 11/980,185_Duty of Candor Rule 56 Disclosure, 3/4/09, WBX221.	<input type="checkbox"/>

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	Art Unit	2454
	Examiner Name	Viet Duy Vu
	Attorney Docket Number	PA5041US

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

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

None

SIGNATURE

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

Signature	/Tam Thanh Pham/	Date (YYYY-MM-DD)	2010-01-28
Name/Print	Tam Thanh Pham	Registration Number	50565

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

**IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT(S): Lakshmi Arunachalam
APPLICATION NO.: 11/980,185
FILED: October 30, 2007
TITLE: Method and Apparatus for Enabling Real-Time Bi-Directional
Transactions on a Network
EXAMINER: Viet Duy Vu
GROUP ART UNIT: 2454
ATTY.DKT.NO.: PA5041US

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**INFORMATION DISCLOSURE STATEMENT
Under 37 C.F.R. § 1.56, and 1.97-1.98**

SIR:

Pursuant to the provisions of 37 C.F.R. §§ 1.56 and 1.97-98 of the Rules of Practice in Patent Cases, enclosed herewith is form PTO-SB-08, listing several references. The Examiner is requested to make these references of official record in the application.

The references cited may be material to examination of the application and are submitted in compliance with the Applicant's duty of disclosure as defined by 37 C.F.R. § 1.56. No representation is made or intended as to the completeness of this list, nor is the inclusion of any reference on this list an admission that it is prior art or pertinent to this application.

Applicant has enclosed the applicable fee of \$180.00 with this submission, in accordance to C.F.R. § 1.17(p). If more fees are due, however, the Commissioner is hereby authorized to charge any necessary fees to Account Number 06-0600.

Respectfully submitted,
Lakshmi Arunachalam

January 28, 2010

By: /Tam Thanh Pham/
Tam Thanh Pham, Reg. No. 50,565
Carr & Ferrell LLP
2200 Geng Road
Palo Alto, CA 94303
TEL: (650) 812-3400
FAX: (650) 812-3444

Electronic Patent Application Fee Transmittal

Application Number:	11980185
Filing Date:	30-Oct-2007
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Filer:	TamThanh Thi Pham/Bindi Patel
Attorney Docket Number:	PA5041US

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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

Electronic Acknowledgement Receipt

EFS ID:	6904859
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	14:24:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$180
RAM confirmation Number	649
Deposit Account	060600
Authorized User	

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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	6894923
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	13:41:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

Electronic Acknowledgement Receipt

EFS ID:	6903878
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	29-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	14:13:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	6858753
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	28-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	20:48:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

Electronic Acknowledgement Receipt

EFS ID:	6866671
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	28-JAN-2010
Filing Date:	30-OCT-2007
Time Stamp:	21:14:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/980,185	10/30/2007	Lakshmi Arunachalam	PA5041US	5863
22830	7590	01/06/2010	EXAMINER	
CARR & FERRELL LLP 2200 GENG ROAD PALO ALTO, CA 94303			VU, VIET DUY	
			ART UNIT	PAPER NUMBER
			2454	
			MAIL DATE	DELIVERY MODE
			01/06/2010	PAPER

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

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

Art Unit: 2454

1. Applicant is requested to update status of related applications cited in page 1 of the specification, i.e., providing patent numbers where appropriate.

Art Rejections:

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-5, 7-13, 15-17, 53-59, 72-79 and 83-85 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rogers et al, U.S. pat. No. 5,793,964.

Per claim 1, Rogers discloses a method for delivering complete multimedia transactional services over the Internet comprising:

a) receiving a request for access multimedia content from a user, wherein the request includes data structure specific to a web application (see col 9, lines 59-67 and col 10, lines 59-62);

Art Unit: 2454

- b)** executing an exchange component (web server) to provide the user with a choice of currently available contents/services accessible by the exchange component (col 9, lines 45-58):
- c)** receiving a selection of a multimedia content from the user (col 10, lines 17-21);
- d)** providing the requested content/service to the user in real-time, wherein providing the requested content includes routing the data structure (see col 10, lines 44-62).

Rogers does not explicitly teach enabling user to select desired content from a sub-menu. An official notice is taken that the use of sub-menus in user interface is well known in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize sub-menus in Rogers because it would have provided better user interface, i.e., reducing clutters.

Per claims 2-3, Rogers teaches delivering various types of services/contents including retails, banking, video, etc., (see col 14, lines 55-67).

Per claim 4, it is noted that the use of ads in web contents is well known in the art.

Per claim 5, Rogers teaches delivering content to the user for a fee (see col 10, lines 36-41).

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Per claims 7-9, Rogers teaches using a plurality of switching and data exchange components to provide different types of services to users (see col 15-16).

Claims 10-13, 15-17, 53-59, are similar in scope as that of claims 1-5 and 7-9.

Per claims 72-79 and 83-85, Rogers does not teach performing a specific banking transaction. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize Rogers's invention to perform any conventional financial transactional services including banking transactions (see col 9, lines 45-58 and col 14, line 55 - col 15, line 22).

Conclusion:

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Vu whose telephone number is 571-272-3977. The examiner can normally be reached on Monday through Friday from 7:00am to 4:00pm. The Group general information number is 571-272-2100. The Group fax number is 571-273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn, can be reached on 571-272-1915.

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

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Page 5

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access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Viet Vu/

Primary Examiner, Art Unit 2454

01/04/10

Notice of References Cited	Application/Control No. 11/980,185	Applicant(s)/Patent Under Reexamination ARUNACHALAM, LAKSHMI	
	Examiner Viet Vu	Art Unit 2454	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-6,249,291	06-2001	Popp et al.	345/473
*	B US-5,793,964	08-1998	Rogers et al.	709/202
	C US-			
	D US-			
	E US-			
	F US-			
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	M US-			

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	N				
	O				
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*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
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BIB DATA SHEET

CONFIRMATION NO. 5863

SERIAL NUMBER 11/980,185	FILING or 371(c) DATE 10/30/2007 RULE	CLASS 709	GROUP ART UNIT 2454	ATTORNEY DOCKET NO. PA5041US	
APPLICANTS Lakshmi Arunachalam, Menlo Park, CA; ** CONTINUING DATA ***** This application is a CIP of 09/792,323 02/23/2001 PAT 7,340,506 which is a CIP of 08/879,958 06/20/1997 PAT 5,987,500 which is a DIV of 08/700,726 08/05/1996 PAT 5,778,178 and claims benefit of 60/006,634 11/13/1995 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 11/28/2007					
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input type="checkbox"/> No Verified and Acknowledged <u>/VIET VU/</u> Examiner's Signature	<input type="checkbox"/> Met after Allowance Initials	STATE OR COUNTRY CA	SHEETS DRAWINGS 13	TOTAL CLAIMS 110	INDEPENDENT CLAIMS 13
ADDRESS CARR & FERRELL LLP 2200 GENG ROAD PALO ALTO, CA 94303 UNITED STATES					
TITLE Method and apparatus for enabling real-time bi-directional transactions on a network					
FILING FEE RECEIVED 3880	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L2	196379	multimedia multi-media	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/03 14:05
L3	273	1 same 2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/03 14:05
L4	15961747	@ad< "19951113"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/03 14:05
L5	1	3 and 4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/03 14:05
L6	39	1 and 4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/03 14:06
L7	526277	realtime (real adj time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/03 14:44

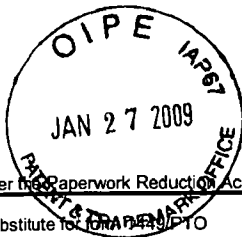
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EAST Search History (Interference)

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(Use as many sheets as necessary)

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Application Number	11/980,185
Filing Date	10/30/07
First Named Inventor	LAKSHMI ARUNACHANDRAN
Art Unit	
Examiner Name	
Attorney Docket Number	

Sheet _____ of _____

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- A COBRA BASED FRAMEWORK - ARSHAD et al	1999		
	2	US- GENERIC MET INFO BASE BROWSER - PAVLOU et al.			
	3	US- HETRO DISTRIB INFO SYSTEM - CHUNG et al	1995		
	4	US- AGENT BASED SYSTEM - INTERNET BASED - EHKIOYA	1999		
	5	US- BROADVISION 1-1 DEV. GUIDE - 1995 CONTENTS ONLY - VII			
	6	US- BROADVISION - PGM REF 1995 PP 4-5, 21, 30, 97			
	7	US- BROADVISION - TECH OVERVIEW 1995 PP 1-3			
	8	US- DATABASE ACCESS INTEL-NETWORKS - RAATHKAINON P-1			
	9	US- 802.3 REPEATER DEVICES 1992 PP 1-3			
	10	US- ERP MEETS WEB E-COMMERCE 1998 P-1			
	11	US- MICROSOFT TRANSACTION SERVER - LIMPREHT 1997			
	12	US- NETBILL - PROTOCOL P-1 TYGAR			
	13	US- OBJ ORIENTED - HYPER G - MS WINDOWS - CONTENTS & PR			
	14	US- DIALOG WEB - M. HUCKEY 1994 P-1			
	15	US- TRANSACTION INTERNET PROTOCOL - VOGLER et al. 1999			
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	16	RFC 1065	1988	NETWORK WORKING GROUP		
	17	RFC 1318	1992	NETWORK WORKING GROUP		
	18	RFC 1283	1991	NETWORK WORKING GROUP		
	19	RFC 1516	1993	NETWORK WORKING GROUP		
						

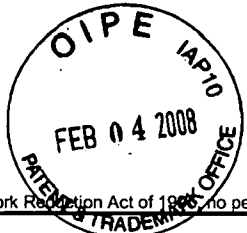
Examiner Signature	/Viet Vu/	Date Considered	01/03/2010
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<p>Substitute for form 1449/PTO</p> <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p> <p>Sheet <u>1</u> of <u>4</u></p>	<p style="text-align: center;">Complete if Known</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Application Number</td> <td>11/980,185</td> </tr> <tr> <td>Filing Date</td> <td>10-30-2007</td> </tr> <tr> <td>First Named Inventor</td> <td>Lakshmi Arunachalm</td> </tr> <tr> <td>Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td></td> </tr> </table>	Application Number	11/980,185	Filing Date	10-30-2007	First Named Inventor	Lakshmi Arunachalm	Art Unit		Examiner Name		Attorney Docket Number	
Application Number	11/980,185												
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First Named Inventor	Lakshmi Arunachalm												
Art Unit													
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DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code ² (if known)		
		US- 5,491,800	02-1996	GOLDSMITH et al.
		US- 5,577,251	11-1996	HAMILTON et al.
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		US- 5,347,632	9-13-94	FILEPP et al.

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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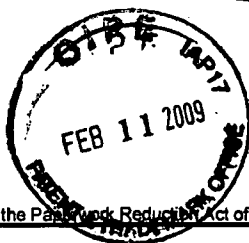
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Filing Date	10-30-2007
		First Named Inventor	Lakshmi Arunachalm
		Art Unit	
		Examiner Name	
		Attorney Docket Number	
		Sheet	<u>4</u>

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Application Number	11/980,185												
Filing Date	10/30/07												
First Named Inventor	LAKSHMI ARUNACHALAN												
Art Unit													
Examiner Name													
Attorney Docket Number													
Sheet <u>1</u> of <u>3</u>													

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- BROAD VISION ONE-TO-ONE			P vii
	①	US- DEVELOPERS GUIDE			
		US-			
	②	US- BROAD VISION ONE-TO-ONE			
		US- INSTALLATION & SYSTEM ADMIN GUIDE			
		US-			
	③	US- BROAD VISION ONE-TO-ONE			PP 1-3
		US- TECHNICAL OVERVIEW			
		US-			
	④	US- BROAD VISION ONE-TO-ONE			
		US- DYNAMIC COMMAND CTR USERS GUIDE			
		US-			
	⑤	US- PRODIGY MADE EASY 2ND ED			
		US-			
	⑥	US- COMPUTER NETWORKS - SYS APPROACH			
		US- PETERSON & DAVIE			
		US-			
	⑦	US- UNTANGLING THE WORLD-WIDE-WEB			
		US- REILHAN, CAMILL & HINCHAY			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	7 ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	⑧	THE SIMPLE BOOK - AN INTRO TO INTERNET MANAGEMENT				

Examiner Signature	Date Considered	
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Sheet 2 of 3**Complete if Known**

Application Number	11/980,185
Filing Date	10/30/07
First Named Inventor	LAKSHMI ARUNACHALAN
Art Unit	
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U. S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
	(9)	US- GOOGLE GROUP COMP. DOC - REC'S 1212			
		US- 1213 ON CONCISE DEFINITIONS			
		US- MIB AND MIB II			
		US-			
		US-			
	(10)	US- SMALL TALK OBJECT MODEL			
		US- http://www.objs.com/x3h7/SMALLTALK.HTM			
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		US- HYPERMEDIA SETTING - BHARAT			
		US- & CARDELLI			
		US-			
	(13)	US- DIENST: IMPLEMENTATION REF MANUAL			
		US- LAGOZE, SHAW, DAVIS & KRAFFT			
		US-			

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	(14)	OBJECT WRAPPING FOR (WWW)			1995	
		EDWARDS				
	(15)	UNDER STANDING DCE CHAPT-3				
		DCE - THE NETWORK AS COMPUTER ETC				

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Application Number	11/980,185		
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First Named Inventor	LARSHMI ARUNACHANDAN		
Art Unit			
Examiner Name			
Attorney Docket Number			
Sheet	3	of	3

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		Number-Kind Code ² (if known)			
	(16)	US- VISUAL OBJECTION - SYSTEM FOR BLOG DISTRIBUTION MULTI-USER APPS BY DIRECT MANIPULATION			
		US- BHARAT & BROWN			
	(17)	US- USING THE WEB AS A SURVEY TOOL			
		US- PITKOW & RECKER			
	(18)	US- COMPOSERIE FOR WINDOWS			
		US- BANKS			
	(19)	US- DISTRIBUTED OBJECT TECHNOLOGY IN FINANCIAL SERVICES INDUSTRY			
		US- SUN MICROSYSTEMS			
	(20)	US- BUSINESS WIRE - OPEN MARKET RELEASES - -			
	(21)	US- DISTRIBUTED COMPUTING - A PRACTICAL SYNTHESIS - UMAR			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	† ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	(22)	ORBIX - PROGRAMMER'S GUIDE				
		JONA TECHNOLOGIES LTD				
	(23)	TRAVEL SERVICES - JOIN COMPUSERIE & SEE THE WORLD			1987	

Examiner Signature	Niet Vu/	Date Considered	01/03/2010
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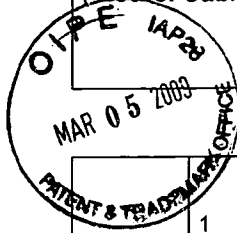
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)



Application Number	11/980,185		
Filing Date	OCT. 30, 2007		
First Named Inventor	LAKSHMI ARUNACHALAM		
Art Unit			
Examiner Name			
Attorney Docket Number			

1	Order Granting Defendant's Motion to Dismiss - Northern District of California 02/17/2009	<input type="checkbox"/>
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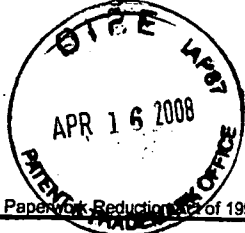
Search Notes 	Application/Control No. 11980185	Applicant(s)/Patent Under Reexamination ARUNACHALAM, LAKSHMI
	Examiner Viet Vu	Art Unit 2454

SEARCHED			
Class	Subclass	Date	Examiner
709	217, 219, 223, 225, 227, 229, 250	1/3/10	vv
719	328, 329	1/3/10	vv

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Text only - see printout	1/3/10	vv

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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PTO/SB/08A (01-08)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/980,185
		Filing Date	Oct. 30, 2007
		First Named Inventor	Lakshmi Arunachalam
		Art Unit	
		Examiner Name	
Sheet <u>1</u>	of <u>8</u>	Attorney Docket Number	

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Name	Publication Date MM-DD-YYYY	Author if known
		Dr. GUI on Components, COM, and ATL		http://msdn.microsoft.com/library/welcome/dsmsdn/msdn-drguion020298.htm
	1	Part 1: You're Gonna Do COM?	2-2-1998	
		Part 2: Basics of COM	2-9-1998	" "
		Part 3: Getting Objects and Interfaces	2-23-1998	" "
		Part 4: The Class Object and Class Factory	3-2-1998	" "
		Part 5: Implementing an Object	3-30-1998	" "
		Part 6: Using our COM Object in Visual Basic...	4-27-1998	" "
		Part 7: Using our Object from Visual C++	5-29-1998	" "
		Part 8: Get Smart! Using our COM Object...	7-30-1998	" "
	2	Microsoft.COM.NEWS Dr. GUI's Gentle Guide to COM	~11-1-1999	http://www.microsoft.com/Com/news/drgui.asp

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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	Application Number: 11/980,185 Filing Date: Oct. 30, 2007 First Named Inventor: Lakshmi Arunachalam Art Unit: Examiner Name: Attorney Docket Number:
Sheet <u>2</u> of <u>8</u>	

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Name	Publication Date MM-DD-YYYY	Author if known
	3	Taking the Splash Diving into ISAPI Programming	1/1997	Christian Gross http://www.microsoft.com/mind/0197/isapi-htm
	4	Chapter 1, NSAPI Basics	12/22/1997	http://developer.netscape.com/docs/manuals/enterprise/nsapi/svrop.htm
	5	The Common Gateway Interface	Retrieved 5/22/2001	http://hochonansa.uinc.edu/cgi/primer.html
	6	Open Market Content-Driven eBusiness Solutions	Retrieved 5/15/2001	http://www.openmarket.com/cgi-bin/gx.cgi/AppLogic+FTContentServer?pagename=FutureTense/Apps/Xcelerate/View&c=Collect...
	7	Open Market Content Server	5/15/2001	http://www.openmarket.com/cgi-bin/gx.cgi/AppLogic+FTContentServer?pagename=FutureTense/Apps/Xcelerate/Render&c=Artic...

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Sheet	3	of	8

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	8	Open Market Content Centre	Retrieved 5/15/2001	http://www.openmarket.com/cgi-bin/gx.cgi/ AppLogic + FT Content Server ? pagename = Future Tense / Apps / Xcelerate / Render & C = Artic...	
			↓		
	9	OpenMarket Integration Centre	5/15/2001	"	"
			↓		
	10	OpenMarket Personalization Centre	5/15/2001	"	"
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	11	OpenMarket Catalog Centre	5/15/2001	"	"
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	12	OpenMarket Marketing Studio	5/15/2001	"	"
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	13	OpenMarket Satellite Server	5/15/2001	"	"
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	14	OpenMarket Commerce Products	5/15/2001 Retrieved ³	http://www.openmarket.com/cgi-bin/gx.cgi/Apologic+FTContentServer?pagename=FutureTense/Apps/Xcelerate/...	
	15	OpenMarket Transact	5/15/2001	"	"
	16	OpenMarket Shop site	5/15/2001	"	"
	17	OpenMarket Open Exchange Shop Site 5.0	5/15/2001	"	"
	18	OpenMarket Wireless Solutions, an OpenMarket eBusiness Solution Brief	2/13/2001	http://www.openmarket.com/	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ² Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	Date Considered	
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Substitute for form 1449/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>	Complete if Known												
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Application Number</td> <td>11/980,185</td> </tr> <tr> <td>Filing Date</td> <td>Oct. 30, 2007</td> </tr> <tr> <td>First Named Inventor</td> <td>Lakshmi Arunachalam</td> </tr> <tr> <td>Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td></td> </tr> </table>	Application Number	11/980,185	Filing Date	Oct. 30, 2007	First Named Inventor	Lakshmi Arunachalam	Art Unit		Examiner Name		Attorney Docket Number	
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First Named Inventor	Lakshmi Arunachalam												
Art Unit													
Examiner Name													
Attorney Docket Number													
Sheet <u>5</u> of <u>8</u>													

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Name	Publication Date MM-DD-YYYY	Author if known
	19	Open Market Portal Solutions an OpenMarket eBusiness Solution Brief	2/21/2001	http://www.openmarket.com/
	20	CyberCash Inc. - The E-Commerce Leader in Payment Solutions - B2B	1996 Retrieved 5/23/2001	http://www.cybercash.com/
	21	CyberCash Products	5/23/2001	http://www.cybercash.com/products/
	23	CyberCash Cash Register - Online Secure Payment Service	5/23/2001	http://www.cybercash.com/cashregister/
	22	Cybercash ICVERIFY 2.5 Upgrade	5/23/2001	http://www.cybercash.com/icverify/upgrade.html

FOREIGN PATENT DOCUMENTS					
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Sheet <u>6</u> of <u>8</u>	Application Number: <u>11/980,185</u> Filing Date: <u>Oct. 30, 2007</u> First Named Inventor: <u>Lakshmi Arunachalam</u> Art Unit: _____ Examiner Name: _____ Attorney Docket Number: _____

U. S. PATENT DOCUMENTS					
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	<u>24</u>	<u>Cybercash Cash Register - How It Works</u>	<u>Retrieved 5/23/2001</u>	<u>http://www.cybercash.com/cashregister/howitworks.html</u>	
	<u>25</u>	<u>Cybercash Cash Register - Industry Leading Features</u>	<u>5/23/2001</u>	<u>http://www.cybercash.com/cashregister/features.html</u>	
	<u>26</u>	<u>Cybercash Cash Register - Why Choose Cash Register?</u>	<u>5/23/2001</u>	<u>http://www.cybercash.com/cashregister/why.html</u>	
	<u>27</u>	<u>Cybercash Cash Register - Online Secure Payment Service</u>	<u>2000</u>	<u>http://webdata.cybercash.com/demos/</u>	
	<u>28</u>	<u>Cybercash Web Authorize - Enterprise and Hosting Payment Processing</u>	<u>Retrieved 5/23/2001</u>	<u>http://www.cybercash.com/webauthorize/</u>	

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Filing Date	Oct. 30, 2007												
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Examiner Name													
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Sheet <u>7</u> of <u>8</u>													

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Name	Publication Date MM-DD-YYYY	Author if known	
	29	Cybercash B2B Payment Services	Retrieved 5/23/2001	http://www.cybercash.com/b2b/	
	30	Cybercash Fraud Patrol Service	5/23/2001	http://www.cybercash.com/fraudpatrol/	
	34	Cybercash PDA Authorize - Payment Software for Brick-and-Mortar Merchants	5/23/2001	http://www.cybercash.com/pcauthorize/	
	35	Microsoft Component Services - Server Operating System - A Technology Overview	Dated 8/15/98 Retrieved 5/22/2001	http://www.microsoft.com/com/wpaper/compsvcs.asp	
	36	iPIN Home	Retrieved 5/23/2001	http://www.ipin.com/	
	37	iPIN Company Info	" "	http://www.ipin.com/01comp.html	

FOREIGN PATENT DOCUMENTS						
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 8

Complete if Known

Application Number	11/980,185
Filing Date	Oct. 30, 2007
First Named Inventor	Lakshmi Arunachalam
Art Unit	
Examiner Name	
Attorney Docket Number	

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Name	Publication Date MM-DD-YYYY	Author if known
	33	iPIN Products - The iPIN Approach	Retrieved 5/23/2008	http://www.ipin.com/02prod.html
	39	iPIN Products - Technology	" "	http://www.ipin.com/02prod-tech.html
	40	iPIN Products - Solutions	" "	http://www.ipin.com/02prod-solution.html
	41	iPIN Products - Service Options	" "	http://www.ipin.com/02prod-service.html
	42	iPIN Partners	" "	http://www.ipin.com/03part.html
	31	Cybercash Fraud Patrol - How It Works	" "	http://www.cybercash.com/fraudpatrol/howitworks.html

FOREIGN PATENT DOCUMENTS

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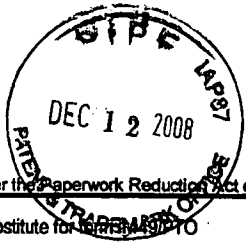
Examiner Signature: Niet Vu/ Date Considered: 01/03/2010

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	Complete if Known	
	Application Number	11/980,185
	Filing Date	OCT. 30, 2007
	First Named Inventor	Lakshmi Arunachalam
	Art Unit	
	Examiner Name	
Sheet 1 of 1	Attorney Docket Number	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	①	US- 5,637,635	11-22-1994	BAUER et al.	_____
		US-			
		US-			
		US-			
		US-			
		US-			
	②	US- POSTING OF JOYCE REYNOLDS TO COMP. DOC USENET (MAR 27, 1991)			
		US-			
		US-			
		US-			
		US-			
	③	US- SAMPLE BOOK: AN INTRO TO INTERNET MANAGEMENT PP. 14-15, PP. 379-387 (2ND ED 1994)			
		US-			
		US-			
		US-			
	④	US- MANAGING INTERNETWORKS WITH SNMP MILLER PP. 138-139 (1993)			
		US-			
		US-			
	⑤	US- "UNTANGLING THE WORLD WIDE WEB" RELIHAN, CATHL, HINCHAY (10-1994)			
		US-			

FOREIGN PATENT DOCUMENTS						
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	⑥	RFC 1155	05-1990	Network Working Group		
	⑦	RFC 1157	05-1990	Network Working Group		
	⑧	RFC 1213	03-1991	Network Working Group		
	⑨	RFC 1447	04-1993	Network Working Group		
	⑩	RFC 1156	05-1990	Network Working Group		

Examiner Signature	/Viet Vu/	Date Considered	01/03/2010
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	11/980,185
Filing Date	10-30-2007
First Named Inventor	L. ARUNACHALM
Art Unit	
Examiner Name	
Attorney Docket Number	

Sheet 1 of 00

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		Number-Kind Code ² (if known)			
		US- 6473740	10-27-02	COLKRICK et al	
		US- 6490567	12-3-02	GREGORY	
		US- 6574607	6-3-03	CARTER et al	
		US- 6678664	1-13-04	GANESAN	
		US- 6714962	3-30-04	HELLAND	
		US- 6856974	2-15-05	GANESAN et al	
		US- 6948663	9-20-05	GANESAN et al	
		US- 7080651	7-18-06	CRAWFORD	
		US- 7120602	10-10-06	KITCHEN et al	
		US- 7175074	2-13-07	MEJIAS et al	
		US- 7213003	5-1-07	KIGHT et al	
		US- 7251656	7-31-07	KEOWN et al	
		US- 7302408	11-27-07	ENSMATH et al	
		US- 7330831	2-12-08	BIGNO et al	
		US- 7366696	4-29-08	GANESAN et al	
		US- 7383226	6-3-08	KIGHT et al	
		US- 7392223	6-24-08	GANESAN et al	
		US- 7395319	7-1-08	HARRIS et al	
		US- 5475819			

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		Filing Date	10-30-2007
		First Named Inventor	ARUN CAJALM
		Art Unit	
		Examiner Name	
		Attorney Docket Number	
Sheet	2	of	10

U. S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
		US-5,475,819	12-12-1995	MILLER et al	
		US-5,859,978	1-12-1999	SONDERGGER et al	
		US-5,404,523	4-4-1995	DELLA FERRA	
		US-5,708,780	1-13-1998	LEVERGOOD et al	
		US-5,715,214	2-3-1998	PAYNE et al	
		US-6,249,291	6-19-2001	POPP et al	
		US-6,125,352	9-26-2000	FRANKLIN et al	
		US-5,347,632	9-13-1994	FILEPP et al	
		US-5,870,724	2-9-1999	LAWLOR	
		US-6,092,053	7-18-2000	BOESCH et al	
		US-5,475,819	12-12-1995	MILLER et al	Dup
		US-5,432,937	7-11-95	TEVNIAN et al	
		US-5,873,093	2-16-99	WILLIAMSON et al	
		US-5,826,085	10-20-98	BENNETT et al	
		US-5,664,111	9-2-97	NAHAN et al	
		US-5,892,821	7-6-99	TURNER	
		US-5,574,939	5-19-98	HERZ et al	
		US-5,745,681	4-29-98	LEVINE et al	
		US-5,742,762	4-21-98	SHOLL et al	

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

Examiner Signature		Date Considered
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¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 10**Complete if Known**

Application Number	11/980,185
Filing Date	10-30-07
First Named Inventor	ARUNCHA LM
Art Unit	
Examiner Name	
Attorney Docket Number	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US 5537464	7-16-96	LEWIS et al	
		US 5873093	2-16-99	WILLIAMSON et al	
		US 5446896	8-29-95	HEGARTY et al	
		US 5148474	9-15-92	HARALAMBPOUKOS et al.	
		US 4829372	5-9-89	MCCALLEE et al	
		US 5706442	1-6-98	ANDERSON et al	
		US 5960411	9-28-99	HARTMAN et al	
		US 5539909	7-23-96	TANAKA et al	
		US 5758327	5-26-98	GARDNER et al	
		US 5231566	7-27-93	BLUTINGER et al	
		US 4984155	1-8-91	GEIER et al	
		US 5845265	12-1-98	WOOLSTON	
		US 5910987	6-8-99	GINTER et al	
		US 5794234	8-11-98	CHURCH et al	
		US 5517645	5-14-96	STUTZ et al	
		US 5297249	3-22-94	BERNSTEIN et al	
		US 5724424	3-3-98	GIFFORD	
		US 5452433	9-14-95	NIHART et al	
		US 5455903	10-3-95	JOLISSANT et al	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/980,185
		Filing Date	10-30-07
		First Named Inventor	ARUNACHALM
		Art Unit	
		Examiner Name	
Sheet	7	of	10
		Attorney Docket Number	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 6473791	10-29-02	AL-GHOLEIN et al	
		US- 6553427	4-22-03	CHANG et al	
		US- 6625581	9-23-03	PERKOWSKI	
		US- 6678696	1-13-04	HELLAND et al	
		US- 6850996	2-1-05	WAGNER	
		US- 6932268	8-23-05	MCCOY et al	
		US- 7076784	7-11-06	RUSSELL et al	
		US- 7107244	9-12-06	KIGHT et al	
		US- 7146338	12-5-06	KIGHT et al	
		US- 7177846	2-13-07	MOENICKHAM et al	
		US- 7240031	7-3-07	KIGHT et al	
		US- 7296004	11-13-07	GARRISON et al	
		US- 7302411	11-27-07	GANESAN et al	
		US- 7334128	2-19-08	GANESAN et al	
		US- 7366697	4-29-08	KITCHEN et al	
		US- 7389514	6-17-08	RUSSELL et al	
		US- 7395243	7-1-08	ZIELKE et al	
		US- 5125091	6-23-92	STAAS et al	
		US- 5239662	8-29-93	DANIELSON et al	

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

Examiner Signature	Date Considered
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Substitute for form 1449/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; font-size: small;">(Use as many sheets as necessary)</p>	<h3 style="text-align: center; margin: 0;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Application Number</td> <td>11/980,185</td> </tr> <tr> <td>Filing Date</td> <td>10-30-07</td> </tr> <tr> <td>First Named Inventor</td> <td>ARDNA CHALM</td> </tr> <tr> <td>Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td></td> </tr> </table>	Application Number	11/980,185	Filing Date	10-30-07	First Named Inventor	ARDNA CHALM	Art Unit		Examiner Name		Attorney Docket Number	
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Filing Date	10-30-07												
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Art Unit													
Examiner Name													
Attorney Docket Number													
Sheet <u>8</u> of <u>10</u>													

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-5408619	4-18-95	ORAN	
		US-5428792	6-27-95	CONNOR et al	
		US-5440744	8-8-95	JACOBSON et al	
		US-5442791	8-15-95	WRABETZ et al	
		US-5475819	12-12-96	MULLER et al	
		US-5537467	7-16-96	LEWIS et al	
		US-5560005	9-24-96	HOOVER et al	
		US-5712913	1-27-98	CHALM	
		US-5757917	5-26-98	ROSE et al	
		US-5771354	6-23-98	CRAWFORD	
		US-5781631	7-14-98	CHALM	
		US-5826241	10-20-98	STEIN et al	
		US-5856974	1-5-99	GERVAIS et al	
		US-5864866	1-26-99	HENCKEL et al	
		US-5878140	3-2-99	CHALM	
		US-5884301	3-16-99	TAKANO	
		US-5890161	3-30-99	HELLAND et al	
		US-5893076	4-6-99	HAFNER et al	
		US-5897621	4-27-99	BOESCH et al	

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature _____	Date Considered _____
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Filing Date	10-30-07												
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Art Unit													
Examiner Name													
Attorney Docket Number													
Sheet <u>9</u> of <u>10</u>													

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		US-5909492	6-1-99	PAYNE et al	
		US-5913061	6-15-99	GUPTA et al	
		US-5956400	9-21-99	CHAMUN et al	
		US-5958004	9-28-99	HELLAND et al	
		US-6014651	1-11-00	CRAWFORD et al	
		US-6049785	4-11-00	GIFFORD	
		US-6055514	4-25-00	WREN	
		US-6073237	6-6-00	ELLISON	
		US-6101482	8-8-00	DI ANGELO et al	
		US-6125185	9-26-00	BOESCH	
		US-6128315	10-3-00	TAKEUCHI	
		US-6185609	2-6-01	RANGARAJAN et al	
		US-6205433	3-26-01	BOESCH et al	
		US-6212634	4-3-01	GBER et al	
		US-6289322	9-11-01	KITCHEN et al	
		US-6301601	10-9-01	HELLAND et al	
		US-6327579	10-4-01	CRAWFORD	
		US-6360262	3-19-02	SUENTHNER et al	
		US-6411943	6-25-02	CRAWFORD	

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Examiner Signature	Date Considered	
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/980,185	10/30/2007	Lakshmi Arunachalam	PA5041US

CONFIRMATION NO. 5863

POA ACCEPTANCE LETTER

22830
CARR & FERRELL LLP
2200 GENG ROAD
PALO ALTO, CA 94303



Date Mailed: 11/23/2009

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/11/2009.

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

/s/brahim/

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



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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/980,185	10/30/2007	Lakshmi Arunachalam	

Clifford Kraft
320 Robin Hill Dr.
Naperville, IL 60540

CONFIRMATION NO. 5863
POWER OF ATTORNEY NOTICE



Date Mailed: 11/23/2009

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/11/2009.

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

/sibrahim/

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Lakshmi Arunachalam
APPLICATION NO.: 11/980,185
FILING DATE: October 30, 2007
TITLE: Multimedia Transactional Services (as amended)
ART UNIT: 2454
EXAMINER: Viet Duy Vu
ATTY.DKT.NO.: PA5041US

MAIL STOP AMENDMENT
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

ELECTION AND AMENDMENT

In response to the restriction requirement mailed October 19, 2009, please enter the following **amendments to the specification** and claims, which commence on **pages two and three**, respectively. The Applicant's **remarks** may be found on **page eleven**.

REMARKS

The Examiner requires restriction to one of the inventions identified in the *Restriction* dated October 19, 2009. *Restriction, 2.*

The Applicant hereby elects (without traverse) the invention identified as belonging to Group I and encompassing claims 1-17, 53-59, and 72-85. See *Restriction, 2.* The Applicant has cancelled all non-elected claims and reserves the right to pursue the same in a subsequently filed divisional application.

The Examiner is respectfully requested to enter the amendments presented with this response and continue with examination of the now-elected claims.

Respectfully submitted,
Lakshmi Arunachalam

November 19, 2009

By: /Tam Thanh Pham/
Tam Thanh Pham (50,565)
CARR & FERRELL LLP
2200 Geng Road
Palo Alto, CA 94303
T: 650.812.3400
F: 650.812.3444

Electronic Acknowledgement Receipt

EFS ID:	6492014
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Customer Number:	22830
Filer:	TamThanh Thi Pham
Filer Authorized By:	
Attorney Docket Number:	PA5041US
Receipt Date:	19-NOV-2009
Filing Date:	30-OCT-2007
Time Stamp:	21:07:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		00412386.pdf	58650 <small>c4b52c837307ce330bf0c2a42eb28f97be33ffe4</small>	yes	11

Multipart Description/PDF files in .zip description			
Document Description		Start	End
Response to Election / Restriction Filed		1	1
Specification		2	2
Claims		3	10
Applicant Arguments/Remarks Made in an Amendment		11	11

Warnings:

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 11/980,185	Filing Date 10/30/2007	<input type="checkbox"/> To be Mailed
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APPLICATION AS FILED – PART I			OTHER THAN SMALL ENTITY				
	(Column 1)	(Column 2)	SMALL ENTITY <input checked="" type="checkbox"/>	OR			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A			N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =		OR	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =			X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II					OTHER THAN SMALL ENTITY				
	(Column 1)	(Column 2)	(Column 3)		SMALL ENTITY	OR			
AMENDMENT	11/19/2009	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total <small>(37 CFR 1.16(i))</small>	* 33	Minus ** 110	= 0	X \$26 =	0	OR	X \$ =	
	Independent <small>(37 CFR 1.16(h))</small>	* 4	Minus *** 13	= 0	X \$110 =	0	OR	X \$ =	
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						OR		
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

	(Column 1)	(Column 2)	(Column 3)					
AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total <small>(37 CFR 1.16(i))</small>	*	Minus **	=	X \$ =		X \$ =	
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus ***	=	X \$ =		X \$ =	
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>							
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						OR	
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/Kim Downing/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
 If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE SPECIFICATION

PLEASE AMEND THE TITLE AS FOLLOWS:

~~Method and Apparatus for Enabling Real Time Transactions on a Network~~

Multimedia Transactional Services

IN THE CLAIMS

PLEASE AMEND THE CLAIMS AS FOLLOWS:

1. (currently amended) A method for delivering complete multimedia ~~wireless~~ transactional services over the World Wide Web, the method comprising the steps of:
 - receiving a transactional request for access to multimedia content, the transactional request received from a multimedia wireless user, wherein the transactional request includes a data structure specific to a web application for access to media content;
 - ~~handing said transactional request to an exchange component, said exchange component~~ executing an exchange component to provide the multimedia ~~providing said wireless user with a choice of currently available multimedia content services accessible to the by said exchange component;~~
 - receiving a selection of a ~~particular~~ currently accessible multimedia content service from the multimedia ~~said wireless~~ user;
 - providing a choice of available multimedia content from ~~said particular~~ the selected multimedia content service to the multimedia ~~said wireless~~ user;
 - receiving a request from the multimedia ~~said wireless~~ user for ~~particular multimedia content from the selected multimedia content service; and~~ [[.]]
 - providing ~~said particular wireless~~ the requested multimedia content ~~in real time~~ to the multimedia ~~said wireless~~ user in real time, wherein providing the requested multimedia content includes routing of the data structure.
2. (currently amended) The method ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 1, wherein ~~said particular wireless~~ the multimedia content includes video.

3. (currently amended) The method ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 1, wherein ~~said particular wireless~~ the multimedia content includes audio.

4. (currently amended) The method ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 1, wherein ~~said particular wireless~~ the multimedia content includes web advertising.

5. (currently amended) The method ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 1, wherein ~~said particular wireless~~ the multimedia content is bought or sold includes buying or selling.

6. (cancelled)

7. (currently amended) The method ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 1, wherein ~~the step of providing said particular wireless~~ the requested multimedia content is performed through execution of a switching or exchange component.

8. (currently amended) The method ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 7, wherein ~~[[said]]~~ the execution of the switching or exchange component provides a plurality of vertical services.

9. (currently amended) The method ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 8, wherein ~~[[said]]~~ vertical services are chosen from the group consisting of messaging, archival retrieval, directory services, data staging, and financial services.

10. (currently amended) A system for delivering complete multimedia wireless transactional services over the World Wide Web, the system comprising:

a management component stored in memory and executable by a processor to ~~capable of communicating with a wireless user, said management component receiving~~ receive a request from a multimedia wireless user for multimedia wireless media content services, the request including a data structure specific to a web application;

an exchange component stored in memory and executable by a processor to supply the multimedia ~~supplying said wireless user with a choice of available~~ multimedia content wireless media services, and wherein ~~[[said]]~~ the exchange component is further executable to receive ~~receives~~ a choice by the multimedia said ~~wireless user~~ relating to a particular ~~wireless media~~ multimedia content service selected from the available multimedia content services; and

a switching component stored in memory and executable by a processor to provide for the transfer of information ~~providing information transfer between the~~ selected multimedia content ~~said particular wireless media~~ service and the multimedia ~~said wireless user~~ whereby the multimedia ~~which said wireless user may choose and~~ receive particular ~~wireless media~~ multimedia content, the transfer of information including routing of the data structure.

11. (currently amended) The system ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 10, wherein ~~said particular~~ the selected ~~wireless media~~ multimedia content includes video.

12. (currently amended) The system ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 10, wherein ~~said particular~~ the selected multimedia wireless media content includes audio.

13. (currently amended) The system ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 10, wherein ~~said particular~~ the selected multimedia ~~wireless media~~ content includes web advertising.

14. (cancelled)

15. (currently amended) The system ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 10, wherein ~~said particular wireless media~~ the selected multimedia content is bought or sold ~~includes web buying and selling~~.

16. (currently amended) The system ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 10, wherein ~~[[said]]~~ the switching component is further executable to provide ~~provides~~ a plurality of vertical services.

17. (currently amended) The system ~~for delivering complete wireless transactional services over the World Wide Web~~ of claim 16, wherein ~~[[said]]~~ the vertical services are chosen from the group consisting of messaging, archival retrieval, directory services, data staging, and financial services.

18.-52. (cancelled)

53. (currently amended) A method for providing an enhanced value chain between web merchants and users, the method comprising ~~the steps of:~~

~~providing a service network running on the internet upon which a plurality of web merchants provide real-time point of service transactional capabilities;~~

~~providing a Web at least one web site where a user can access [[said]] a service network upon which a plurality of Web merchants provide real-time point of service transactional capabilities, the service network running on the Internet;~~

~~executing providing an exchange component that interacts with said web the Web site, wherein [[said]] execution of the exchange component provides [[said]] the user with information relating to available point of service applications;~~

~~receiving a choice of a point of service application from allowing the user to choose a particular point of service application and to interact with that particular point of service application to complete a real-time transaction over the Web.~~

54. (currently amended) The method ~~for providing an enhanced value chain between web merchants and users~~ of claim 53, wherein [[said]] the exchange component communicates with a switching component.

55. (currently amended) The method ~~for providing an enhanced value chain between web merchants and users~~ of claim 54, wherein [[said]] the switching component routes information between [[said]] the user and ~~said particular~~ the point of service application.

56. (currently amended) The method ~~for providing an enhanced value chain between web merchants and users~~ of claim 53 further comprising providing users wherein ~~users are provided~~ with a list of available point of service applications.

57. (currently amended) The method ~~for providing an enhanced value chain between web merchants and users~~ of claim 53, wherein [[said]] the exchange component communicates with an object routing component.

58. (currently amended) The method ~~for providing an enhanced value chain between web merchants and users~~ of claim 57, wherein ~~[[said]]~~ the object routing component allows completion of ~~[[said]]~~ the real-time transaction.

59. (currently amended) The method ~~for providing an enhanced value chain between web merchants and users~~ of claim 53 wherein ~~[[said]]~~ user is selected from the group consisting of ~~may be~~ a supplier, partner, distributor, or value-added reseller ~~resellers~~.

60.-71. (cancelled)

72. (currently amended) A method for performing a real time transaction over a digital network, the method comprising:

providing a web page for display on a computer system coupled to an input device, ~~wherein a user input device is coupled to the computer system;~~

providing a point of service application as a selection within the web page, wherein the point of service application provides access to both a checking and savings account;

accepting a first signal from the user input device to select the point of service application;

accepting subsequent signals from the user input device; and

transferring, ~~in real time and in response to the subsequent signals,~~ funds from the checking account to the savings account in real time and in response to the subsequent signals.

73. (currently amended) The method of claim 72, wherein an ~~further comprising: using a web service exchange over the Web is used~~ to complete the transfer of funds in a Web application.

74. (currently amended) The method of claim 72, ~~wherein further comprising: using a~~ management agent is used to complete the transfer of funds.

75. (currently amended) The method of claim 72, ~~wherein further comprising: using~~ object routing is used to complete the transfer of funds.

76. (currently amended) The method of claim 75, wherein the object routing includes: ~~using~~ the use of distributed on-line service information bases.

77. (currently amended) The method of claim 72, ~~wherein further comprising: using a~~ virtual information store is used to complete the transfer of funds.

78. (currently amended) The method of claim 77, wherein the virtual information store includes a ~~web service~~ networked object specific to a web application in a Web transaction.

79. (currently amended) The method of claim 78, wherein the networked object is the object identity in a Web transaction connecting from a Web application on a Web page to a transactional application executing anywhere on the Web ~~includes a networked object identity.~~

80. (cancelled)

81. (cancelled)

82. (cancelled)

83. (currently amended) The method of claim 72, wherein ~~[[said]]~~ the transaction is ~~requesting~~ a loan requested from a lender.

84. (currently amended) The method of claim 72, wherein ~~[[said]]~~ the transaction is ~~purchasing~~ a vehicle purchased with bank financing ~~from a bank~~.

85. (currently amended) The method of claim 72, wherein ~~[[said]]~~ the transaction is accessing an account.

86.-110. (cancelled)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Lakshmi Arunachalam
APPLICATION NO.: 11/980,185
FILING DATE: October 30, 2007
TITLE: Method and Apparatus for Enabling Real-Time Bi-Directional
Transactions on a Network
ATTY.DKT.NO.: PA5041US

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

REVOCATION AND POWER OF ATTORNEY

I, the undersigned, **Lakshmi Arunachalam**, as Chief Executive Officer for **WebXchange, Inc.**, the assignee of the entire right, title and interest in the above-referenced United States patent application, am **authorized to act on behalf of the assignee** and hereby revoke all prior powers of attorney previously submitted in the above-referenced U.S. patent application and hereby appoint the agents and attorneys associated with Customer Number **22830** to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Please direct all communication relative to this application to the following correspondence address:

CUSTOMER NUMBER 22830

CARR & FERRELL LLP
2200 Geng Road
Palo Alto, CA 94303
TEL: (650) 812-3400
FAX: (650) 812.3444

Respectfully submitted,

Date: 9.22.09

Lakshmi Arunachalam
Lakshmi Arunachalam
Chief Executive Officer for WebXchange, Inc.

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

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: WebXchange, Inc.

Application No./Patent No.: 11/980,185 Filed/Issue Date: October 30, 2007

Entitled: Method and Apparatus for Enabling Real-Time Bi-Directional Transactions on a Network

WebXchange, Inc., a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

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

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

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

OR

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

1. From: Lakshmi Arunachalam To: WebXchange, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

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

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

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

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

Lakshmi Arunachalam
Signature

9.22.09
Date

Lakshmi Arunachalam
Printed or Typed Name

(650) 854-3393
Telephone Number

Chief Executive Officer for WebXchange, Inc.
Title

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

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

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, **Lakshmi Arunachalam** do hereby sell, assign, and transfer to **WebXchange, Inc.**, a **corporation** with offices at **222 Stanford Ave., Menlo Park, CA 94024** (“Assignee”), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in United States patent application number **11/980,185** filed **October 30, 2007** and entitled:

“Method and Apparatus for Enabling Real-Time Bi-Directional Transactions on a Network”

and in and to said application and all utility, divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States patent application; and

Agree that said Assignee may apply for and receive patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history

thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

Covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 9.22.09.

Name: Lakshmi Arunachalam
Lakshmi Arunachalam

Electronic Acknowledgement Receipt

EFS ID:	6436806
Application Number:	11980185
International Application Number:	
Confirmation Number:	5863
Title of Invention:	Method and apparatus for enabling real-time bi-directional transactions on a network
First Named Inventor/Applicant Name:	Lakshmi Arunachalam
Correspondence Address:	Clifford Kraft - 320 Robin Hill Dr. - Naperville IL 60540 US - -
Filer:	TamThanh Thi Pham/Colby Springer
Filer Authorized By:	TamThanh Thi Pham
Attorney Docket Number:	
Receipt Date:	11-NOV-2009
Filing Date:	30-OCT-2007
Time Stamp:	18:58:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		5041US_Revocation.pdf	177337 a4bf48d75fb73c2f17c05a9aaccb485e414858c3	yes	4
Multipart Description/PDF files in .zip description					
	Document Description		Start		End
	Power of Attorney		1		1
	Assignee showing of ownership per 37 CFR 3.73(b).		2		4
Warnings:					
Information:					
Total Files Size (in bytes):			177337		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/980,185	10/30/2007	Lakshmi Arunachalam		5863

7590 10/19/2009
Clifford Kraft
320 Robin Hill Dr.
Naperville, IL 60540

EXAMINER

VU, VIET DUY

ART UNIT	PAPER NUMBER
2454	

MAIL DATE	DELIVERY MODE
10/19/2009	PAPER

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

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

Art Unit: 2454

Restriction:

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-17, 53-59 and 72-85, drawn to interface for conducting Internet transaction, classified in class 709, subclass 219.

II. Claims 18-24, drawn to network portal for accessing application database, classified in class 709, subclasses 219, 250.

III. Claims 25-39 and 60-71, drawn to data switching/routing in network, classified in class 709, subclasses 219, 328.

IV. Claims 40-52, drawn to application of web service, classified in class 709, subclass 219 and class 705, subclasses 26, 28.

V. Claims 86-110, drawn to provisioning web services, classified in class 709, subclasses 203, 219 and class 719, subclass 313.

Inventions I-V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is

Art Unit: 2454

separately usable. In the instant case, each invention has a distinct application as set forth above.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the technological complex art, examination of all inventions would impose serious burden to the examiner. Accordingly, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (see 37 CFR 1.143).

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Vu whose telephone number is 571-272-3977. The examiner can normally be reached on Monday through Friday from 7:00am to 4:00pm. The Group general information number is 571-272-2100. The Group fax number is 571-273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn, can be reached on 571-272-1915.

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

Application/Control Number: 11/980,185

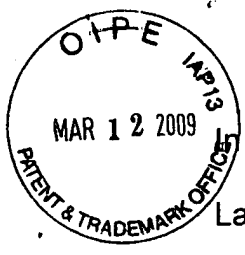
Page 4

Art Unit: 2454

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Viet Vu/
Primary Examiner, Art Unit 2454
10/14/09

JFW



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

is re application of:)
)
Lakshmi Arunachalam)
)
Serial No. 11/980,185)
)
Filing Date: Oct. 30, 2007)
)
Title: METHOD AND APPARATUS)
FOR ENABLING REAL TIME)
TRANSACTIONS ON A)
NETWORK)
)

Art Unit:
Examiner

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Honorable Commissioner:

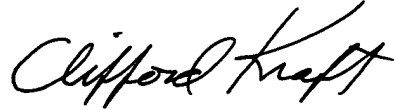
In accordance with 37 C.F.R. §1.97, please accept this Information Disclosure Statement and copies of any non-US patent art. This material was supplied by a defendant in a patent lawsuit of the parent patent in this case. It was not available before this date.

COMMENTS

It is believed that this disclosure complies with 37 C.F.R. §1.56 and 1.98 and M.P.E.P. §2000. This disclosure statement should not be construed as a representation that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(a) exists. A copy of each non-US patent reference

is being supplied. Some references may contain marks; no significance should be attached to these.

Respectfully submitted



Clifford H. Kraft
Reg. No. 35,229
Attorney of Record

CORRESPONDENCE ADDRESS CUSTOMER NUMBER: 000074642

Clifford H. Kraft
320 Robin Hill Dr.
Naperville, IL 60540

(708) 528-9092

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 with sufficient postage.

On: MARCH 9, 2009

By: Clifford Kraft

Name: Clifford H. Kraft



IFU

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)	Art Unit: 2455
)	
Lakshmi Arunachalam)	Examiner:
)	
Serial No. 11/980,185)	
)	
Filing Date: October 30, 2007)	
)	
Title: METHOD AND APPARATUS)	
FOR ENABLING REAL TIME)	
BI-DIRECTIONAL)	
TRANSACTIONS ON A)	
NETWORK)	
)	

DUTY OF CANDOR DISCLOSURE UNDER 37. C.F.R §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Honorable Commissioner:

In accordance with 37 C.F.R. §1.56, please accept this Duty of Candor Disclosure.

COMMENTS

Microsoft Corporation filed complaint CV 08 05149 in the United States Federal Court for the Northern District of California against the owner of several of the parent patents (applications) to this pending application 11/980,185. The motion to dismiss Microsoft's complaint was granted by Judge Alsup on February 17, 2009, in which he

ruled that, failing Microsoft amending its claims by March 3, 2009, all of Microsoft's claims will be dismissed with prejudice. Microsoft amended its complaint on March 3, 2009, which will be supplied in an Information Disclosure Statement in this application. Judge Alsup's ruling stated that "Microsoft is using counterfeit logic to manufacture a controversy where none exists.", regarding Microsoft's "effort to open a new front in a new district arising out of patent litigation already proceeding in another district", namely the Delaware Court under the Honorable Judge Farnan.

Microsoft had asked for a declaratory judgment of enforceability based on alleged inequitable conduct against the present inventor in procuring the following parent patents: 5,778,178 (08/700,726), 6,212,556 (09/296,207) and 7,340,506 (09/792,323). All of these patents are priority applications to the present application. The complaint and dismissal order have already been supplied in an Information Disclosure Statement in this application and are currently in the record.

Microsoft alleged that the inventor Ms. Lakshmi Arunachalam failed to disclose certain documents during the course of prosecution of the three patents, namely, 5,778,178 (08/700,726), 6,212,556 (09/296,207) and 7,340,506 (09/792,323). In particular, Microsoft alleged that the inventor did not disclose the following three documents: 1) SMI RFC-1155, "Structure and Identification of Management Information for TCP/IP Based Internets", published May 1990, 2) MIB II RFC-1213, "Management Information Base for Network Management for TCP/IP Based Internets: MIB-II", published March 1991, and 3) SNMP RFC-1157, "A Simple Network Management Protocol (SNMP)", published May 1990. All three of these SNMP documents have already been supplied to the Patent Office in an Information Disclosure in the present

application. Also, the inventor had disclosed SNMP to the USPTO during initial prosecution in Column 7, Line 63, in the 5,778,178 patent and in several pages of the provisional patent application having the Serial Number 60/006,634 filed on November 13, 1995. The inventor had worked on porting SNMP software across multiple UNIX platforms, but had neither seen nor read the SNMP standards' documents during initial prosecution. In a previous Rule 56 disclosure filed in this application, the attorney's statement that "the applicant did not know of the existence of these documents during initial prosecution.", simply meant that the applicant/inventor had neither seen nor read the SNMP standards' documents. The attorney inadvertently filed the previous disclosure without sending it to the inventor for review.

Microsoft also alleged that the inventor not only knew of these documents, but copied portions of them into the specification of these patents.

Microsoft, in their complaint, presented the Table below, but omitted in their Table many lines from the 5,778,178 patent. For example, Microsoft omitted Lines 29-34 from Column 8 of the 5,778,178 patent, thereby leaving out the context of a Web transaction, causing a possible mistaken impression that SNMP and a Web transaction are one and the same. Likewise, Microsoft has made numerous other omissions in their Table. For example, Lines 25-37 of Column 8 of the 5,778,178 patent are as follows: "Each object in the DOLSIB has a name, a syntax and an encoding. The name is an administratively assigned object ID specifying an object type. The object type together with the object instance serves to uniquely identify a specific instantiation of the object. For example, if object 610 is information about models of cars, then one instance of that object would provide user 100 with information about a specific model of the car while

another instance would provide information about a different model of the car. The syntax of an object type defines the abstract data structure corresponding to that object type. Encoding of objects defines how the object is represented by the object type syntax while being transmitted over the network.”

Likewise, Microsoft has omitted many lines from the 5,778,178 patent and the Provisional Patent application number 60/006,634 in their Table, again leading to a possible mistaken impression.

<u>RFC 1156 Excerpts</u>	<u>'178 Patent Excerpts</u>
<p>Managed objects are accessed via a <u>virtual information store</u>, termed the Management Information Base or MIB. Objects in the MIB are defined using Abstract Syntax Notation One (ASN.1) [8] defined in the [Internet standard] SMI.</p> <p>In particular, <u>each object has a name, a syntax, and an encoding. The name is an object identifier, an administratively assigned name, which specifies an object type. The object type together with an object instance</u></p>	<p>DOLSIBs are <u>virtual information stores optimized for networking.</u></p> <p><u>Each object in the DOLSIB has a name, a syntax and an encoding. The name is an administratively assigned object ID specifying an object type. The object type together with the object instance serves to uniquely identify a specific instantiation of the object. The syntax of an object type defines the abstract data structure corresponding to that object type. Encoding</u></p>
<p><u>serves to uniquely identify a specific instantiation of the object.</u> For human convenience, we often use a textual string, termed the OBJECT DESCRIPTOR, to also refer to the object type.</p>	<p><u>of objects defines how the object is represented by the object type syntax while being transmitted over the network.</u></p>
<p><u>The syntax of an object type defines the abstract data structure corresponding to that object type.</u> The ASN.1 language is used for this purpose. However, the SMI [12] purposely restricts the ASN.1 constructs which may be used. These restrictions are explicitly made for simplicity.</p>	<p>12. A method for enabling object routing on the World Wide Web, said method for enabling object routing comprising the steps of: <u>creating a virtual information store containing information entries and attributes;</u> </p>
<p><u>The encoding of an object type is simply how that object type is represented using the object type's syntax. Implicitly tied to the notion of an object type's syntax and encoding is how the object type is represented when being transmitted on the network.</u> The SMI specifies the use of the basic encoding rules of ASN.1 [9], subject to the additional requirements imposed by the SNMP.</p>	<p>15. The method claim 12 wherein said step of associating each of said information entries and said attributes with said object identity further includes the step of <u>storing a name, a syntax and an encoding for each of said object identities.</u></p> <p>16. The method in claim 15 wherein <u>said name of said object identity specifies an object type.</u></p>

The inventor/applicant admits that these SNMP documents were not disclosed to the Patent Office in the previous cases. She had already disclosed SNMP in the Provisional patent application having the Serial Number 60/006,634 filed on November 13, 1995 and in the 5,778,178 patent. The inventor further admits that there is language in her specification that is similar, though NOT IDENTICAL, to that contained in these SNMP documents, and her specification also has language that Microsoft chose to omit in the Table above that clearly shows the innovative context that was totally unrelated to SNMP. The words in her specification connote a unique, novel, inventive meaning (distinctly different from SNMP) that she has taught extensively throughout the parent patents. For example, SNMP has nothing to do with a "checking account" on a Web page, or a "car" POSvc application on the Web offered by a Web Merchant. SNMP is about managing physical devices on a physical network. SNMP does not support object operations. Besides, the Web is a simple windowing network atop the Internet. The Web and Internet are not the same. The inventor wrote the sentences appearing in the Provisional patent application having the Serial Number 60/006,634 filed on November 13, 1995 and in the 5,778,178 specification and approved them during initial prosecution of the Provisional and the 5,778,178 patents. The attorney in the previous Rule 56 disclosure did not mean that "the inventor is not sure where the similar language appearing in the specification came from" - in the sense of not knowing who wrote it, he simply meant that the applicant/inventor had not read the SNMP standards' documents and did not realize that the language was similar. The attorney inadvertently filed the previous disclosure without sending it to the inventor for review.

Microsoft also alleged that the inventor failed to notify the Patent Office about her PCT application No. PCT/US96/18165 published in 1997 as WO 97/18515 in the case of patent number 6,212,556 (09/296,556) filed April 21, 1999. Since the '556 patent application was a continuation-in-part, it contained new matter, and claims to new matter.

The inventor admits that her PCT application was published in 1997, more than one year before the filing date of the application for the '556 patent, and that the application for the '556 patent was a CIP and contained new matter. The inventor did not disclose the PCT application to the examiner. However, as Microsoft states in their complaint, the PCT application was almost identical to the original parent application U.S. Patent number 5,778,178 (08/700,634). This original US parent application was on file at the Patent Office and known to the examiner through the chain of priority claimed in the application for the '556 patent. Since the PCT application was almost identical to the original parent, it did not contain any of the new matter. Therefore, the inventor was therefore not required to disclose it to the examiner since it was cumulative. In any case, a copy of PCT/US96/18165 has already been supplied in an Information Disclosure Statement in the present application.

To the extent that the present examiner concludes that the material in the SNMP RFCs 1155, 1213, 1157 is relevant to the present case, further examination is invited by the inventor. However, it is the inventor's belief that these SNMP documents are not material to the present claims. The present claims are directed to real-time transactions related to Web pages involving switching in real-time between a plurality of sellers/Web Merchants. The SNMP RFC documents simply do not discuss switching in real-time

between a plurality of sellers/Web Merchants presenting multiple Web pages so that real-time transactions can take place or that a user interactively settles multiple Web transactions from different sellers/Web Merchants simultaneously.

Example claims from the current application are Claims 25, 1, 2, 3, 4, 5, 7, 8, 9, 18, 19, 20, 21, 23, 26, 40, 47, 50, 51, 53, 72, 83, 84:

Claim 25: An exchange component of a web-based transactional service comprising: a plurality of application components; a switching component; an object routing component; a web page component; wherein said web page component provides a web page to a user that allows said user to select a particular transactional service, said switching component switches information between said user and an application component related to said particular transactional service, and said object routing component routes media content objects between said particular transactional service and said user.

Claim 1: A method for delivering complete wireless transactional services over the World Wide Web comprising the steps of: receiving a transactional request from a wireless user for access to media content; handing said transactional request to an exchange component, said exchange component providing said wireless user with a choice of currently available media content services accessible by said exchange component; receiving a selection of a particular accessible media content service from said wireless user; providing a choice of available media content from said particular media content service to said wireless user; receiving a request from said wireless user for particular media content; providing said particular wireless media content in real time

to said wireless user.

Claim 2: The method for delivering complete wireless transactional services over the World Wide Web of claim 1 wherein said particular wireless media content includes video.

Claim 3: The method for delivering complete wireless transactional services over the World Wide Web of claim 1 wherein said particular wireless media content includes audio.

Claim 4: The method for delivering complete wireless transactional services over the World Wide Web of claim 1 wherein said particular wireless media content includes web advertising.

Claim 5: The method for delivering complete wireless transactional services over the World Wide Web of claim 1 wherein said particular wireless media content includes buying or selling.

Claim 7: The method for delivering complete wireless transactional services over the World Wide Web of claim 1 wherein the step of providing said particular wireless media content is performed through a switching or exchange component.

Claim 8: The method for delivering complete wireless transactional services over the

World Wide Web of claim 7 wherein said switching or exchange component provides a plurality of vertical services.

Claim 9: The method for delivering complete wireless transactional services over the World Wide Web of claim 8 wherein said vertical services are chosen from the group consisting of messaging, archival retrieval, directory services, data staging and financial services.

Claim 18: An employee-accessible web service network portal operated by a business entity comprising: a point of service application provided by a particular sub-entity related to said business entity; a second application provided by a different sub-entity also related to said business entity; a portal allowing an employee access to said point of service application, said portal also allowing said employee to transfer information from said second application to said point of service application.

Claim 19: The employee-accessible web service network portal of claim 18 wherein said particular sub-entity is a payroll department.

Claim 20: The employee-accessible web service network portal of claim 18 wherein said different sub-entity is a human resources department.

Claim 21: The employee-accessible web service network portal of claim 18 wherein funds can be transferred by said point of service application to benefit said employee.

Claim 23: The employee-accessible web service network portal of claim 18 wherein one of said point of service application allows access to the group of services consisting of 401K plans, expense reports, time cards, payroll, travel, vacation and commissions.

Claim 26: The exchange component of a web-based transactional service of claim 25 wherein said switching component is a value added network switch.

Claim 40: A web service transaction system for allowing N-Way transactions comprising: a web-based application accessible by N web participants, where N is an integer greater than 1, each of said web participants providing a service, and wherein said web-based application allows transfer of information between members of said N web participants; a user interface to said web-based application, wherein a user can access a service from at least one of said N web participants; and wherein said web-based application notifies at least one of said web participants when the user accesses a service from another of said web participants.

Claim 47: A cooperative multiple merchant web service system comprising: at least one point of service application accessible by a plurality of web merchants, each of said web merchants providing goods or services, said point of service application allowing transfer of information between said web merchants; a user interface to said point of service application, wherein said user can access at least some of said goods or services, and wherein access by said user to one of said merchant's goods or services is communicated to at least one other of said merchants.

Claim 50: The cooperative multiple merchant web service system of claim 47 wherein one of said merchants is a financial institution.

Claim 51: The cooperative multiple merchant web service system of claim 47 wherein at least one of said merchants provides fungible goods.

Claim 53: A method for providing an enhanced value chain between web merchants and users comprising the steps of: providing a service network running on the internet upon which a plurality of web merchants provide real-time point of service transactional capabilities; providing at least one web site where a user can access said service network; providing an exchange component that interacts with said web site, wherein said exchange component provides said user with information relating to available point of service applications; allowing the user to choose a particular point of service application and to interact with that particular point of service application to complete a real-time transaction over the Web.

Claim 72: A method for performing a real time transaction over a digital network, the method comprising: providing a web page for display on a computer system, wherein a user input device is coupled to the computer system; providing a point of service application as a selection within the web page, wherein the point of service application provides access to both a checking and savings account; accepting a first signal from the user input device to select the point of service application; accepting subsequent signals from the user input device; and transferring, in real-time and in response to the subsequent signals, funds from the checking account to the savings account.

Claim 83: The method of claim 72 wherein said transaction is requesting a loan from a lender.

Claim 84: The method of claim 72 wherein said transaction is purchasing a vehicle with financing from a bank.

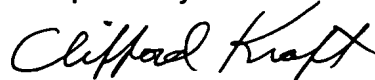
None of the three SNMP RFC documents mention anything about a Web page. None of them mention switching a user in real-time between a plurality of sellers/Web Merchants. None of them mention switching a user from a first server to a 401K or payroll application. None of them mention media content that includes video, audio, financial services. None of them mention a user interactively settling multiple Web transactions from different sellers/Web Merchants simultaneously. Similar arguments apply to the other claims.

The Federal Circuit in the case Rohm & Haas Co. v. Crystal Chemical Co., 772 F.2d 1556, 220 U.S.P.Q. 289, 301 (Fed. Cir. 1983) has discussed what, if anything, can be done in the PTO during prosecution to cure or overcome possible previous misconduct.

There has been no misconduct, as alleged by Microsoft. However, in an abundance of caution, the inventor/applicant hereby applies the formula given by the Federal Circuit to cure or overcome possible previous misconduct. The formula given by the Federal Circuit is a) the applicant must expressly advise the PTO of the existence of a prior misrepresentation, stating specifically where it resides; b) the applicant must advise the PTO of the actual facts, if the prior misrepresentation was factual, and must indicate that further examination may be required; and c) the applicant must establish the patentability of the claimed subject matter.

Thus, following this formula: a) The inventor has disclosed that there is an allegation of inequitable conduct in a parent case, and that the allegation names documents that were not submitted to the examiner at that time. The applicant admits that she did not submit these SNMP documents in the parent case, and has submitted them in the present case. She had already disclosed SNMP in the 5,778,178 in Column 7, Line 63, and in the Provisional patent application having Serial number 60/006,634, filed on November 13, 1995 reinforcing that she had no deceptive intent nor has there been any misrepresentation. b) The inventor does not believe these SNMP documents to be material; however, to the extent the PTO feels they are material, the inventor invites the examiner to use these documents in the present application. c) The applicant has argued how the claims in the current application are patentable over these SNMP documents, since these SNMP documents do not teach Web pages, nor switching in real-time between a plurality of sellers/Web Merchants, nor that user interactively settles multiple Web transactions from different sellers/Web Merchants simultaneously, nor electronic mail.

Respectfully Submitted



Clifford Kraft
Reg. No. 35,229
Attorney of Record



CORRESPONDENCE ADDRESS **CUSTOMER NUMBER 000074642**

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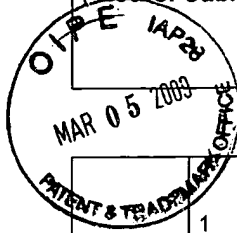
708 528-9092 Tel.
630 393-9114 Fax.

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On: MARCH 4, 2009
By: Clifford Kraft
Name: Clifford H. Kraft

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



Application Number	11/980,185	
Filing Date	OCT. 30, 2007	
First Named Inventor	LAKSHMI ARUNACHALAM	
Art Unit		
Examiner Name		
Attorney Docket Number		

1	Order Granting Defendant's Motion to Dismiss - Northern District of California 02/17/2009	<input type="checkbox"/>
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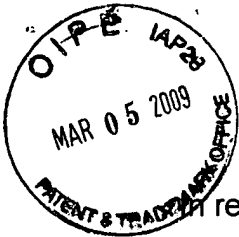
If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

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

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



JFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of:)	Art Unit:
)	
Lakshmi Arunachalam)	Examiner
)	
Serial No. 11/980,185)	
)	
Filing Date: Oct. 30, 2007)	
)	
Title: METHOD AND APPARATUS)	
FOR ENABLING REAL TIME)	
TRANSACTIONS ON A)	
NETWORK)	
)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Honorable Commissioner:

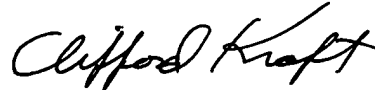
In accordance with 37 C.F.R. §1.97, please accept this Information Disclosure Statement and copies of any non-US patent art. This material was supplied by a defendant in a patent lawsuit of the parent patent in this case. It was not available before this date.

COMMENTS

It is believed that this disclosure complies with 37 C.F.R. §1.56 and 1.98 and M.P.E.P. §2000. This disclosure statement should not be construed as a representation that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(a) exists. A copy of each non-US patent reference

is being supplied. Some references may contain marks; no significance should be attached to these.

Respectfully submitted



Clifford H. Kraft
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Attorney of Record

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On: MAR. 1, 2009

By: Clifford Kraft

Name: Clifford H. Kraft



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)	Art Unit:
)	
Lakshmi Arunachalam)	Examiner:
)	
Serial No. 11/980,185)	
)	
Filing Date: Oct. 30, 2007)	
)	
Title: METHOD AND APPARAUTUS)	
FOR ENABLING REAL-TIME)	
TRANSACTIONS ON A)	
NETWORK)	
)	

DUTY OF CANDOR DISCLOSURE UNDER 37. C.F.R §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Honorable Commissioner:

In accordance with 37 C.F.R. §1.56, please accept this Duty of Candor Disclosure.

COMMENTS

Microsoft Corporation has recently filed a complaint CV 08 5149 in the United States Federal Court for the Northern District of California against the owner of several of the parent patents (applications) in this case. Microsoft has asked for a declaratory judgment of unenforceability based on alleged inequitable conduct against the present inventor in procuring the following parent patents: 5,778,178 (08/700,726), 6,212,556 (09/296,207) and 7,340,506 (09/792,323). All of these patents are priority applications

to the present case. This complaint has already been supplied in an Information Disclosure Statement in this case and is currently in the record.

Microsoft alleges that the inventor Ms. Lakshmi Arunachalam failed to disclose certain documents during the course of prosecution of these three patents. In particular, Microsoft alleges that the inventor did not disclose the following three documents: 1) SMI RFC-1155, "Structure and Identification of Management Information for TCP/IP Based Internets", published May 1990, 2) MIB II RFC-1213 "Structure and Identification of Management Information for TCP/IP Based Internets", published March 1991, and 3) SNMP RFC-1157, "A Simple Network Management Protocol (SNMP)", published May 1990. All three of these documents have already been supplied to the Patent Office in an Information Disclosure in the present case. However, the applicant did not know of the existence of these documents during initial prosecution.

Microsoft also alleges that the inventor not only knew of these documents, but copied portions of them into the specification of these patents.

Microsoft, in their complaint, presented the following table:

<u>RFC 1156 Excerpts</u>	<u>'178 Patent Excerpts</u>
<p>Managed objects are accessed via <u>a virtual information store</u>, termed the Management Information Base or MIB. Objects in the MIB are defined using Abstract Syntax Notation One (ASN.1) [8] defined in the [Internet standard] SMI.</p> <p>In particular, <u>each object has a name, a syntax, and an encoding. The name is an object identifier, an administratively assigned name, which specifies an object type. The object type together with an object instance</u></p>	<p>DOLSIBs are <u>virtual information stores optimized for networking.</u></p> <p><u>Each object in the DOLSIB has a name, a syntax and an encoding. The name is an administratively assigned object ID specifying an object type. The object type together with the object instance serves to uniquely identify a specific instantiation of the object. The syntax of an object type defines the abstract data structure corresponding to that object type. Encoding</u></p>

serves to uniquely identify a specific instantiation of the object. For human convenience, we often use a textual string, termed the OBJECT DESCRIPTOR, to also refer to the object type.

The syntax of an object type defines the abstract data structure corresponding to that object type. The ASN.1 language is used for this purpose. However, the SMI [12] purposely restricts the ASN.1 constructs which may be used. These restrictions are explicitly made for simplicity.

The encoding of an object type is simply how that object type is represented using the object type's syntax. Implicitly tied to the notion of an object type's syntax and encoding is how the object type is represented when being transmitted on the network. The SMI specifies the use of the basic encoding rules of ASN.1 [9], subject to the additional requirements imposed by the SNMP.

of objects defines how the object is represented by the object type syntax while being transmitted over the network.

12. A method for enabling object routing on the World Wide Web, said method for enabling object routing comprising the steps of:

creating a virtual information store containing information entries and attributes;

....

15. The method claim 12 wherein said step of associating each of said information entries and said attributes with said object identity further includes the step of storing a name, a syntax and an encoding for each of said object identities.

16. The method in claim 15 wherein said name of said object identity specifies an object type.

The inventor admits that these documents were not disclosed to the Patent Office in the previous cases since she did not know of them, and that there is language in her specification that is similar to that contained in these documents. The inventor is not sure where the similar language appearing in her specification came from.

Microsoft also alleges that the inventor failed to notify the Patent Office about her PCT application No. PCT/US96/18165 published in 1997 as WO 97/18515 in the case of patent number 6,212,556 (09/296,556) filed April 21, 1999. Since the '556 patent application was a continuation-in-part, it contained new matter, and claims to new matter.

The inventor admits that her PCT application was published in 1997, more than one year before the filing date of the application for the `556 patent, and that the application for the `556 patent was a CIP and contained new matter. The inventor did not disclose the PCT application to the examiner. However, as Microsoft states in their complaint, the PCT application was almost identical to the original parent application U.S. Patent number 5,778,178 (08,700,634). This original US parent application was on file at the Patent Office and known to the examiner through the chain of priority claimed in the application for the `556 patent. Since the PCT application was almost identical to the original parent, it did not contain any of the new matter. Therefore, the inventor was therefore not required to disclose it to the examiner since it was cumulative. In any case, a copy of PCT/US96/18165 has been already been supplied in an information disclosure in the present case.

To the extent that the present examiner concludes that the material in RFCs 1155, 1213 and 1157 is relevant to the present case, further examination is invited by the inventor. However, it is the inventor's belief that these SNMP documents are not material to the present claims. The present claims are directed to real time transactions relating to web pages involving switching between multiple servers. The RFC documents simply do not discuss switching users between multiple servers presenting multiple web pages so that real time transactions can take place.

An example claim from the current case is claim 87:

Claim 87. A method of permitting an online transaction in real-time by a user with at least one computing device on the World Wide Web comprising the steps of:

presenting a first web page from a first server allowing a user to choose a transaction from a plurality of possible transactions;

presenting a second web page allowing said user to display said second web page on said computing device and to interactively enter into said transaction with a particular seller;

switching said user from said first server to a payment server remote from said first server allowing said user to interactively settle said transaction wherein said user communicates directly from a user device to said payment server;

allowing said user to communicate by electronic mail with said seller.

None of the three RFC documents mention anything about a web page.

None of them mention switching a user from a first server to a payment server.

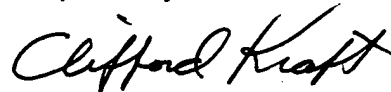
None of them mention electronic mail. Similar arguments apply to the other claims.

The Federal Circuit in the case Rohm & Haas Co. v. Crystal Chemical Co., 772 F.2d 1556, 220 U.S.P.Q. 289, 301 (Fed. Cir. 1983) has discussed what, if anything, can be done in the PTO during prosecution to cure or overcome possible previous misconduct. The formula given by the Federal Circuit is a) the applicant must expressly advise the PTO of the existence of a prior misrepresentation, stating specifically where it resides; b) the applicant must advise the PTO of the actual facts, if the prior misrepresentation was factual, and must indicate that further examination may be required, and c) the applicant must establish the patentability of the claimed subject matter.

Thus, following this formula: a)The inventor has disclosed that there is an

allegation of inequitable conduct in a parent case, and that the allegation names documents that were not submitted to the examiner at that time. The applicant admits that she did not submit these documents in the parent case since she did not know of them, and has submitted them in the present case. b) The inventor does not believe these documents to be material; however, to the extent the PTO feels they are material, the inventor invites the examiner to use these documents in the present case. c) The applicant has argued how the claims in the current case are patentable over these documents since these documents do not teach web pages, switching in real time between multiple servers and electronic mail.

Respectfully submitted



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On: FEB. 11, 2009

By: Clifford Kraft

Name: Clifford H. Kraft

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)	Art Unit:
)	
Lakshmi Arunachalam)	Examiner
)	
Serial No. 11/980,185)	
)	
Filing Date: Oct. 30, 2007)	
)	
Title: METHOD AND APPARATUS)	
FOR ENABLING REAL TIME)	
TRANSACTIONS ON A)	
NETWORK)	
)	

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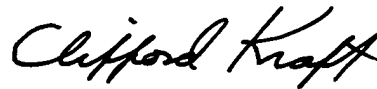
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COMMENTS

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Respectfully submitted



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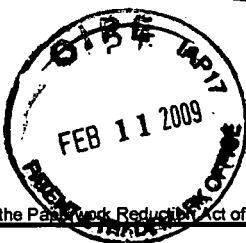
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On: FEB. 9, 2009

By: Clifford Kraft

Name: Clifford H. Kraft



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Art Unit													
Examiner Name													
Attorney Docket Number													
Sheet <u>1</u> of <u>3</u>													

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number <small>Number-Kind Code² (if known)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	①	US- BROAD VISION ONE-TO-ONE DEVELOPERS GUIDE			P vii
	②	US- BROAD VISION ONE-TO-ONE INSTALLATION & SYSTEM ADMIN GUIDE			
	③	US- BROAD VISION ONE-TO-ONE TECHNICAL OVERVIEW			PP 1-3
	④	US- BROAD VISION ONE-TO-ONE DYNAMIC COMMAND CTR USERS GUIDE			
	⑤	US- PRODIGY MADE EASY 2ND ED			
	⑥	US- COMPUTER NETWORKS - SYS APPROACH PETERSON & DAVIE			
	⑦	US- UNTANGLING THE WORLD-WIDE-WEB REKHANI, CAMILL & HUNCHEY			

FOREIGN PATENT DOCUMENTS					
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	⑧	THE SIMPLE BOOK - AN INTRO TO INTERNET MANAGEMENT			

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		Filing Date	10/30/07
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		Art Unit	
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		Number-Kind Code ² (if known)			
	9	US- GOOGLE GROUP COMP. DOC - REC'S 1212			
		US- 1213 ON CONCISE DEFINITIONS			
		US- MIB AND MIB II			
		US-			
		US-			
	10	US- SMALL TALK OBJECT MODEL			
		US- http://www.objs.com/x3h7/SMALLTALK.HTM			
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		US-			
	12	US- DISTRIBUTED APPLICATIONS IN A			
		US- HYPERMEDIA SETTING - BHARAT			
		US- & CARDELLI			
		US-			
	13	US- DIENST: IMPLEMENTATION REF MANUAL			
		US- LAGOZE, SHAW, DAVIS & KRAFFT			
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	14	OBJECT WRAPPING FOR (WWW)			1995	
		EDWARDS				
		UNDER STANDING DCE CHAPT-3				
	15	DCE - THE NETWORK AS COMPUTER ETC				

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		Number-Kind Code ² (if known)			
	(16)	US- VISUAL OBJE - SW FOR BLOG DISTRIB APPS BY DIRECT MANIPULATION			MULTI-USER
		US- BHARAT & BROWN			
	(17)	US- USING THE WEB AS A SURVEY TOOL			
		US- PITKOW & RECKER			
	(18)	US- COMPOSERIE FOR WINDOWS			
		US- BANKS			
	(19)	US- DISTRIBUTED OBJECT TECHNOLOGY IN FINANCIAL SERVICES INDUSTRY			
		US- SUN MICROSYSTEMS			
	(20)	US- BUSINESSURE - OPEN MARKET RELEASES - -			
	(21)	US- DISTRIBUTED COMPUTING - A PRACTICAL SYNTHESIS - UMAR			

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
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		JONA TECHNOLOGIES LTD				
	(23)	TRAVEL SERVICES - JOIN COMPUSERIE & SEE THE WORLD			1987	

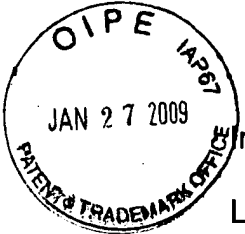
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Respectfully submitted



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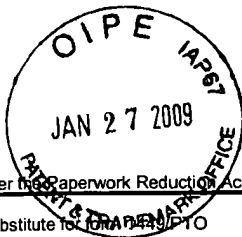
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By: Clifford Kraft

Name: Clifford H. Kraft



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		Number-Kind Code ² (if known)			
	1	US- A COBRA BASED FRAMEWORK - ARSHAD et al	1999		
	2	US- GENERIC MET INFO BASE BROWSER - PAVLOU et al.			
	3	US- HETRO DISTRIB INFO SYSTEM - CHUNG et al	1995		
	4	US- AGENT BASED SYSTEM - INTERNET BASED - EHKIOYA	1999		
	5	US- BROADVISION 1-1 DEV. GUIDE - 1995 CONTENTS ONLY - VII			
	6	US- BROADVISION - PGM REF 1995 PP 4-5, 21, 30, 97			
	7	US- BROADVISION - TECH OVERVIEW 1995 PP 1-3			
	8	US- DATABASE ACCESS INTEL-NETWORKS - RAATHKAINON P-1			
	9	US- 802.3 REPEATER DEVICES 1992 PP 1-3			
	10	US- ERP MEETS WEB E-COMMERCE 1998 P-1			
	11	US- MICROSOFT TRANSACTION SERVER - LIMPREHT 1997			
	12	US- NETBILL - PROTOCOL P-1 TYGAR			
	13	US- OBJ ORIENTED - HYPER G - MSWINDOWS - CONTENTS & PR			
	14	US- DIALOG WEB - M. HUCKEY 1994 P-1			
	15	US- TRANSACTION INTERNET PROTOCOL - VOGLER et al. 1999			
		US-			
		US-			
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	16	RFC 1065	1988	NETWORK WORKING GROUP		
	17	RFC 1318	1992	NETWORK WORKING GROUP		
	18	RFC 1283	1991	NETWORK WORKING GROUP		
	19	RFC 1516	1993	NETWORK WORKING GROUP		

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Network Working Group
Request for Comments: 1065

M. Rose
K. McCloghrie
TWG
August 1988

Structure and Identification of Management Information for TCP/IP-based internets

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1. Status of this Memo

This memo provides the common definitions for the structure and identification of management information for TCP/IP-based internets. In particular, together with its companion memos which describe the initial management information base along with the initial network management protocol, these documents provide a simple, workable

architecture and system for managing TCP/IP-based internets and in particular, the Internet.

This memo specifies a draft standard for the Internet community. TCP/IP implementations in the Internet which are network manageable are expected to adopt and implement this specification.

Distribution of this memo is unlimited.

2. Introduction

This memo describes the common structures and identification scheme for the definition of management information used in managing TCP/IP-based internets. Included are descriptions of an object information model for network management along with a set of generic types used to describe management information. Formal descriptions of the structure are given using Abstract Syntax Notation One (ASN.1) [1].

This memo is largely concerned with organizational concerns and administrative policy: it neither specifies the objects which are managed, nor the protocols used to manage those objects. These concerns are addressed by two companion memos: one describing the Management Information Base (MIB) [2], and the other describing the Simple Network Management Protocol (SNMP) [3].

This memo is based in part on the work of the Internet Engineering Task Force, particularly the working note titled "Structure and Identification of Management Information for the Internet" [4]. This memo uses a skeletal structure derived from that note, but differs in one very significant way: that note focuses entirely on the use of OSI-style network management. As such, it is not suitable for use in the short-term for which a non-OSI protocol, the SNMP, has been designated as the standard.

This memo attempts to achieve two goals: simplicity and extensibility. Both are motivated by a common concern: although the management of TCP/IP-based internets has been a topic of study for some time, the authors do not feel that the depth and breadth of such understanding is complete. More bluntly, we feel that previous experiences, while giving the community insight, are hardly conclusive. By fostering a simple SMI, the minimal number of constraints are imposed on future potential approaches; further, by fostering an extensible SMI, the maximal number of potential approaches are available for experimentation.

It is believed that this memo and its two companions comply with the guidelines set forth in RFC 1052, "IAB Recommendations for the

RFC 1065

SMI

August 1988

Development of Internet Network Management Standards" [5]. In particular, we feel that this memo, along with the memo describing the initial management information base, provide a solid basis for network management of the Internet.

3. Structure and Identification of Management Information

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using Abstract Syntax Notation One (ASN.1) [1].

Each type of object (termed an object type) has a name, a syntax, and an encoding. The name is represented uniquely as an OBJECT IDENTIFIER. An OBJECT IDENTIFIER is an administratively assigned name. The administrative policies used for assigning names are discussed later in this memo.

The syntax for an object type defines the abstract data structure corresponding to that object type. For example, the structure of a given object type might be an INTEGER or OCTET STRING. Although in general, we should permit any ASN.1 construct to be available for use in defining the syntax of an object type, this memo purposely restricts the ASN.1 constructs which may be used. These restrictions are made solely for the sake of simplicity.

The encoding of an object type is simply how instances of that object type are represented using the object's type syntax. Implicitly tied to the notion of an object's syntax and encoding is how the object is represented when being transmitted on the network. This memo specifies the use of the basic encoding rules of ASN.1 [6].

It is beyond the scope of this memo to define either the initial MIB used for network management or the network management protocol. As mentioned earlier, these tasks are left to the companion memos. This memo attempts to minimize the restrictions placed upon its companions so as to maximize generality. However, in some cases, restrictions have been made (e.g., the syntax which may be used when defining object types in the MIB) in order to encourage a particular style of management. Future editions of this memo may remove these restrictions.

3.1. Names

Names are used to identify managed objects. This memo specifies names which are hierarchical in nature. The OBJECT IDENTIFIER concept is used to model this notion. An OBJECT IDENTIFIER can be used for purposes other than naming managed object types; for example, each international standard has an OBJECT IDENTIFIER assigned to it for the purposes of identification. In short, OBJECT IDENTIFIERS are a means for identifying some object, regardless of the semantics associated with the object (e.g., a network object, a standards document, etc.)

An OBJECT IDENTIFIER is a sequence of integers which traverse a global tree. The tree consists of a root connected to a number of labeled nodes via edges. Each node may, in turn, have children of its own which are labeled. In this case, we may term the node a subtree. This process may continue to an arbitrary level of depth. Central to the notion of the OBJECT IDENTIFIER is the understanding that administrative control of the meanings assigned to the nodes may be delegated as one traverses the tree. A label is a pairing of a brief textual description and an integer.

The root node itself is unlabeled, but has at least three children directly under it: one node is administered by the International Standards Organization, with label iso(1); another is administrated by the International Telegraph and Telephone Consultative Committee, with label ccitt(2); and the third is jointly administered by the ISO and the CCITT, joint-iso-ccitt(3).

Under the iso(1) node, the ISO has designated one subtree for use by other (inter)national organizations, org(3). Of the children nodes present, two have been assigned to the U.S. National Bureau of Standards. One of these subtrees has been transferred by the NBS to the U.S. Department of Defense, dod(6).

As of this writing, the DoD has not indicated how it will manage its subtree of OBJECT IDENTIFIERS. This memo assumes that DoD will allocate a node to the Internet community, to be administered by the Internet Activities Board (IAB) as follows:

```
internet    OBJECT IDENTIFIER ::= { iso org(3) dod(6) 1 }
```

That is, the Internet subtree of OBJECT IDENTIFIERS starts with the prefix:

```
1.3.6.1.
```

This memo, as an RFC approved by the IAB, now specifies the policy under which this subtree of OBJECT IDENTIFIERS is administered. Initially, four nodes are present:

```
directory   OBJECT IDENTIFIER ::= { internet 1 }
mgmt        OBJECT IDENTIFIER ::= { internet 2 }
experimental OBJECT IDENTIFIER ::= { internet 3 }
private     OBJECT IDENTIFIER ::= { internet 4 }
```

3.1.1. DIRECTORY

The directory(1) subtree is reserved for use with a future memo that discusses how the OSI Directory may be used in the Internet.

3.1.2. MGMT

The mgmt(2) subtree is used to identify objects which are defined in IAB-approved documents. Administration of the mgmt(2) subtree is delegated by the IAB to the Assigned Numbers authority for the Internet. As RFCs which define new versions of the Internet-standard Management Information Base are approved, they are assigned an OBJECT IDENTIFIER by the Assigned Numbers authority for identifying the objects defined by that memo.

For example, the RFC which defines the initial Internet standard MIB would be assigned management document number 1. This RFC would use the OBJECT IDENTIFIER

```
{ mgmt 1 }
```

or

```
1.3.6.1.2.1
```

in defining the Internet-standard MIB.

The generation of new versions of the Internet-standard MIB is a rigorous process. Section 5 of this memo describes the rules used when a new version is defined.

3.1.3. EXPERIMENTAL

The experimental(3) subtree is used to identify objects used in Internet experiments. Administration of the experimental(3) subtree is delegated by the IAB to the Assigned Numbers authority of the Internet.

For example, an experimenter might received number 17, and would have available the OBJECT IDENTIFIER

```
{ experimental 17 }
```

or

```
1.3.6.1.3.17
```

for use.

As a part of the assignment process, the Assigned Numbers authority may make requirements as to how that subtree is used.

3.1.4. PRIVATE

The private(4) subtree is used to identify objects defined unilaterally. Administration of the private(4) subtree is delegated by the IAB to the Assigned Numbers authority for the Internet. Initially, this subtree has at least one child:

```
enterprises OBJECT IDENTIFIER ::= { private 1 }
```

The enterprises(1) subtree is used, among other things, to permit parties providing networking subsystems to register models of their products.

Upon receiving a subtree, the enterprise may, for example, define new MIB objects in this subtree. In addition, it is strongly recommended that the enterprise will also register its networking subsystems under this subtree, in order to provide an unambiguous identification mechanism for use in management protocols. For example, if the "Flintstones, Inc." enterprise produced networking subsystems, then they could request a node under the enterprises subtree from the Assigned Numbers authority. Such a node might be numbered:

```
1.3.6.1.4.1.42
```

The "Flintstones, Inc." enterprise might then register their "Fred Router" under the name of:

```
1.3.6.1.4.1.42.1.1
```

3.2. Syntax

Syntax is used to define the structure corresponding to object types. ASN.1 constructs are used to define this structure, although the full generality of ASN.1 is not permitted.

The ASN.1 type ObjectSyntax defines the different syntaxes which may be used in defining an object type.

3.2.1. Primitive Types

Only the ASN.1 primitive types INTEGER, OCTET STRING, OBJECT IDENTIFIER, and NULL are permitted. These are sometimes referred to as non-aggregate types.

3.2.1.1. Guidelines for Enumerated INTEGERS

If an enumerated INTEGER is listed as an object type, then a named-number having the value 0 shall not be present in the list of

enumerations. Use of this value is prohibited.

3.2.2. Constructor Types

The ASN.1 constructor type SEQUENCE is permitted, providing that it is used to generate either lists or tables.

For lists, the syntax takes the form:

```
SEQUENCE { <type1>, ..., <typeN> }
```

where each <type> resolves to one of the ASN.1 primitive types listed above. Further, these ASN.1 types are always present (the DEFAULT and OPTIONAL clauses do not appear in the SEQUENCE definition).

For tables, the syntax takes the form:

```
SEQUENCE OF <entry>
```

where <entry> resolves to a list constructor.

Lists and tables are sometimes referred to as aggregate types.

3.2.3. Defined Types

In addition, new application-wide types may be defined, so long as they resolve into an IMPLICITLY defined ASN.1 primitive type, list, table, or some other application-wide type. Initially, few application-wide types are defined. Future memos will no doubt define others once a consensus is reached.

3.2.3.1. NetworkAddress

This CHOICE represents an address from one of possibly several protocol families. Currently, only one protocol family, the Internet family, is present in this CHOICE.

3.2.3.2. IpAddress

This application-wide type represents a 32-bit internet address. It is represented as an OCTET STRING of length 4, in network byte-order.

When this ASN.1 type is encoded using the ASN.1 basic encoding rules, only the primitive encoding form shall be used.

3.2.3.3. Counter

This application-wide type represents a non-negative integer which

monotonically increases until it reaches a maximum value, when it wraps around and starts increasing again from zero. This memo specifies a maximum value of $2^{32}-1$ (4294967295 decimal) for counters.

3.2.3.4. Gauge

This application-wide type represents a non-negative integer, which may increase or decrease, but which latches at a maximum value. This memo specifies a maximum value of $2^{32}-1$ (4294967295 decimal) for gauges.

3.2.3.5. TimeTicks

This application-wide type represents a non-negative integer which counts the time in hundredths of a second since some epoch. When object types are defined in the MIB which use this ASN.1 type, the description of the object type identifies the reference epoch.

3.2.3.6. Opaque

This application-wide type supports the capability to pass arbitrary ASN.1 syntax. A value is encoded using the ASN.1 basic rules into a string of octets. This, in turn, is encoded as an OCTET STRING, in effect "double-wrapping" the original ASN.1 value.

Note that a conforming implementation need only be able to accept and recognize opaquely-encoded data. It need not be able to unwrap the data and then interpret its contents.

Further note that by use of the ASN.1 EXTERNAL type, encodings other than ASN.1 may be used in opaquely-encoded data.

3.3. Encodings

Once an instance of an object type has been identified, its value may be transmitted by applying the basic encoding rules of ASN.1 to the syntax for the object type.

4. Managed Objects

Although it is not the purpose of this memo to define objects in the MIB, this memo specifies a format to be used by other memos which define these objects.

An object type definition consists of five fields:

OBJECT:

A textual name, termed the OBJECT DESCRIPTOR, for the object type, along with its corresponding OBJECT IDENTIFIER.

Syntax:

The abstract syntax for the object type. This must resolve to an instance of the ASN.1 type ObjectSyntax (defined below).

Definition:

A textual description of the semantics of the object type. Implementations should ensure that their instance of the object fulfills this definition since this MIB is intended for use in multi-vendor environments. As such it is vital that objects have consistent meaning across all machines.

Access:

One of read-only, read-write, write-only, or not-accessible.

Status:

One of mandatory, optional, or obsolete.

Future memos may also specify other fields for the objects which they define.

4.1. Guidelines for Object Names

No object type in the Internet-Standard MIB shall use a sub-identifier of 0 in its name. This value is reserved for use with future extensions.

Each OBJECT DESCRIPTOR corresponding to an object type in the internet-standard MIB shall be a unique, but mnemonic, printable string. This promotes a common language for humans to use when discussing the MIB and also facilitates simple table mappings for user interfaces.

4.2. Object Types and Instances

An object type is a definition of a kind of managed object; it is

declarative in nature. In contrast, an object instance is an instantiation of an object type which has been bound to a value. For example, the notion of an entry in a routing table might be defined in the MIB. Such a notion corresponds to an object type; individual entries in a particular routing table which exist at some time are object instances of that object type.

A collection of object types is defined in the MIB. Each such subject type is uniquely named by its OBJECT IDENTIFIER and also has a textual name, which is its OBJECT DESCRIPTOR. The means whereby object instances are referenced is not defined in the MIB. Reference to object instances is achieved by a protocol-specific mechanism: it is the responsibility of each management protocol adhering to the SMI to define this mechanism.

An object type may be defined in the MIB such that an instance of that object type represents an aggregation of information also represented by instances of some number of "subordinate" object types. For example, suppose the following object types are defined in the MIB:

OBJECT:

```
    atIndex { atEntry 1 }
```

Syntax:

```
    INTEGER
```

Definition:

```
    The interface number for the physical address.
```

Access:

```
    read-write.
```

Status:

```
    mandatory.
```

OBJECT:

```
    atPhysAddress { atEntry 2 }
```

Syntax:

```
    OCTET STRING
```

Definition:

```
    The media-dependent physical address.
```

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Access:
read-write.

Status:
mandatory.

OBJECT:

atNetAddress { atEntry 3 }

Syntax:
NetworkAddress

Definition:
The network address corresponding to the media-dependent physical address.

Access:
read-write.

Status:
mandatory.

Then, a fourth object type might also be defined in the MIB:

OBJECT:

atEntry { atTable 1 }

Syntax:

```
AtEntry ::= SEQUENCE {  
    atIndex  
    INTEGER,  
    atPhysAddress  
    OCTET STRING,  
    atNetAddress  
    NetworkAddress  
}
```

Definition:
An entry in the address translation table.

Access:
read-write.

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Status:
mandatory.

Each instance of this object type comprises information represented by instances of the former three object types. An object type defined in this way is called a list.

Similarly, tables can be formed by aggregations of a list type. For example, a fifth object type might also be defined in the MIB:

OBJECT:

atTable { at 1 }

Syntax:

SEQUENCE OF AtEntry

Definition:

The address translation table.

Access:

read-write.

Status:

mandatory.

such that each instance of the atTable object comprises information represented by the set of atEntry object types that collectively constitute a given atTable object instance, that is, a given address translation table.

Consider how one might refer to a simple object within a table. Continuing with the previous example, one might name the object type

{ atPhysAddress }

and specify, using a protocol-specific mechanism, the object instance

{ atNetAddress } = { internet "10.0.0.52" }

This pairing of object type and object instance would refer to all instances of atPhysAddress which are part of any entry in some address translation table for which the associated atNetAddress value is { internet "10.0.0.52" }.

To continue with this example, consider how one might refer to an aggregate object (list) within a table. Naming the object type


```
{ atEntry }
```

and specifying, using a protocol-specific mechanism, the object instance

```
{ atNetAddress } = { internet "10.0.0.52" }
```

refers to all instances of entries in the table for which the associated atNetAddress value is { internet "10.0.0.52" }.

Each management protocol must provide a mechanism for accessing simple (non-aggregate) object types. Each management protocol specifies whether or not it supports access to aggregate object types. Further, the protocol must specify which instances are "returned" when an object type/instance pairing refers to more than one instance of a type.

To afford support for a variety of management protocols, all information by which instances of a given object type may be usefully distinguished, one from another, is represented by instances of object types defined in the MIB.

4.3. Macros for Managed Objects

In order to facilitate the use of tools for processing the definition of the MIB, the OBJECT-TYPE macro may be used. This macro permits the key aspects of an object type to be represented in a formal way.

```
OBJECT-TYPE MACRO ::=
BEGIN
    TYPE NOTATION ::= "SYNTAX" type (TYPE ObjectSyntax)
                    "ACCESS" Access
                    "STATUS" Status
    VALUE NOTATION ::= value (VALUE ObjectName)

    Access ::= "read-only"
              | "read-write"
              | "write-only"
              | "not-accessible"
    Status ::= "mandatory"
              | "optional"
              | "obsolete"

END
```

Given the object types defined earlier, we might imagine the following definitions being present in the MIB:

```
atIndex OBJECT-TYPE
```

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```

        SYNTAX  INTEGER
        ACCESS  read-write
        STATUS  mandatory
        ::= { atEntry 1 }

atPhysAddress OBJECT-TYPE
    SYNTAX  OCTET STRING
    ACCESS  read-write
    STATUS  mandatory
    ::= { atEntry 2 }

atNetAddress OBJECT-TYPE
    SYNTAX  NetworkAddress
    ACCESS  read-write
    STATUS  mandatory
    ::= { atEntry 3 }

atEntry OBJECT-TYPE
    SYNTAX  AtEntry
    ACCESS  read-write
    STATUS  mandatory
    ::= { atTable 1 }

atTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF AtEntry
    ACCESS  read-write
    STATUS  mandatory
    ::= { at 1 }

AtEntry ::= SEQUENCE {
    atIndex
        INTEGER,
    atPhysAddress
        OCTET STRING,
    atNetAddress
        NetworkAddress
}

```

The first five definitions describe object types, relating, for example, the OBJECT DESCRIPTOR `atIndex` to the OBJECT IDENTIFIER { `atEntry 1` }. In addition, the syntax of this object is defined (INTEGER) along with the access permitted (read-write) and status (mandatory). The sixth definition describes an ASN.1 type called `AtEntry`.

5. Extensions to the MIB

Every Internet-standard MIB document obsoletes all previous such documents. The portion of a name, termed the tail, following the OBJECT IDENTIFIER

{ mgmt version-number }

used to name objects shall remain unchanged between versions. New versions may:

- (1) declare old object types obsolete (if necessary), but not delete their names;
- (2) augment the definition of an object type corresponding to a list by appending non-aggregate object types to the object types in the list; or,
- (3) define entirely new object types.

New versions may not:

- (1) change the semantics of any previously defined object without changing the name of that object.

These rules are important because they admit easier support for multiple versions of the Internet-standard MIB. In particular, the semantics associated with the tail of a name remain constant throughout different versions of the MIB. Because multiple versions of the MIB may thus coincide in "tail-space," implementations supporting multiple versions of the MIB can be vastly simplified.

However, as a consequence, a management agent might return an instance corresponding to a superset of the expected object type. Following the principle of robustness, in this exceptional case, a manager should ignore any additional information beyond the definition of the expected object type. However, the robustness principle requires that one exercise care with respect to control actions: if an instance does not have the same syntax as its expected object type, then those control actions must fail. In both the monitoring and control cases, the name of an object returned by an operation must be identical to the name requested by an operation.

6. Definitions

```

RFC1065-SMI DEFINITIONS ::= BEGIN

EXPORTS -- EVERYTHING
    internet, directory, mgmt,
    experimental, private, enterprises,
    OBJECT-TYPE, ObjectName, ObjectSyntax, SimpleSyntax,
    ApplicationSyntax, NetworkAddress, IpAddress,
    Counter, Gauge, TimeTicks, Opaque;

-- the path to the root

internet      OBJECT IDENTIFIER ::= { iso org(3) dod(6) 1 }

directory     OBJECT IDENTIFIER ::= { internet 1 }

mgmt          OBJECT IDENTIFIER ::= { internet 2 }

experimental  OBJECT IDENTIFIER ::= { internet 3 }

private       OBJECT IDENTIFIER ::= { internet 4 }
enterprises   OBJECT IDENTIFIER ::= { private 1 }

-- definition of object types

OBJECT-TYPE MACRO ::=
BEGIN
    TYPE NOTATION ::= "SYNTAX" type (TYPE ObjectSyntax)
                    "ACCESS" Access
                    "STATUS" Status
    VALUE NOTATION ::= value (VALUE ObjectName)

    Access ::= "read-only"
              | "read-write"
              | "write-only"
              | "not-accessible"
    Status ::= "mandatory"
              | "optional"
              | "obsolete"
END

-- names of objects in the MIB

ObjectName ::=
    OBJECT IDENTIFIER

```

```
-- syntax of objects in the MIB

ObjectSyntax ::=
    CHOICE {
        simple
            SimpleSyntax,

        application-wide
            ApplicationSyntax
    }

SimpleSyntax ::=
    CHOICE {
        number
            INTEGER,

        string
            OCTET STRING,

        object
            OBJECT IDENTIFIER,

        empty
            NULL
    }

ApplicationSyntax ::=
    CHOICE {
        address
            NetworkAddress,

        counter
            Counter,

        gauge
            Gauge,

        ticks
            TimeTicks,

        arbitrary
            Opaque
    }
```

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```
-- other application-wide types, as they are
-- defined, will be added here
}

-- application-wide types

NetworkAddress ::=
    CHOICE {
        internet
        IPAddress
    }

IPAddress ::=
    [APPLICATION 0]          -- in network-byte order
    IMPLICIT OCTET STRING (SIZE (4))

Counter ::=
    [APPLICATION 1]
    IMPLICIT INTEGER (0..4294967295)

Gauge ::=
    [APPLICATION 2]
    IMPLICIT INTEGER (0..4294967295)

TimeTicks ::=
    [APPLICATION 3]
    IMPLICIT INTEGER

Opaque ::=
    [APPLICATION 4]          -- arbitrary ASN.1 value,
    IMPLICIT OCTET STRING   -- "double-wrapped"

END
```

7. Acknowledgements

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Network Working Group
Request for Comments: 1318

B. Stewart, Editor
Xyplex, Inc.
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Definitions of Managed Objects for Parallel-printer-like Hardware Devices

Status of this Memo

This document specifies an IAB standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "IAB Official Protocol Standards" for the standardization state and status of this protocol. Distribution of this memo is unlimited.

1. Abstract

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in TCP/IP based internets. In particular, it defines objects for the management of parallel-printer-like devices.

2. The Network Management Framework

The Internet-standard Network Management Framework consists of three components. They are:

RFC 1155 which defines the SMI, the mechanisms used for describing and naming objects for the purpose of management. RFC 1212 defines a more concise description mechanism, which is wholly consistent with the SMI.

RFC 1156 which defines MIB-I, the core set of managed objects for the Internet suite of protocols. RFC 1213, defines MIB-II, an evolution of MIB-I based on implementation experience and new operational requirements.

RFC 1157 which defines the SNMP, the protocol used for network access to managed objects.

The Framework permits new objects to be defined for the purpose of experimentation and evaluation.

3. Objects

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB.

Objects in the MIB are defined using the subset of Abstract Syntax Notation One (ASN.1) [7] defined in the SMI. In particular, each object has a name, a syntax, and an encoding. The name is an object identifier, an administratively assigned name, which specifies an object type.

The object type together with an object instance serves to uniquely identify a specific instantiation of the object. For human convenience, we often use a textual string, termed the OBJECT DESCRIPTOR, to also refer to the object type.

The syntax of an object type defines the abstract data structure corresponding to that object type. The ASN.1 language is used for this purpose. However, the SMI [3] purposely restricts the ASN.1 constructs which may be used. These restrictions are explicitly made for simplicity.

The encoding of an object type is simply how that object type is represented using the object type's syntax. Implicitly tied to the notion of an object type's syntax and encoding is how the object type is represented when being transmitted on the network.

The SMI specifies the use of the basic encoding rules of ASN.1 [8], subject to the additional requirements imposed by the SNMP.

3.1. Format of Definitions

Section 5 contains the specification of all object types contained in this MIB module. The object types are defined using the conventions defined in the SMI, as amended by the extensions specified in [9,10].

4. Overview

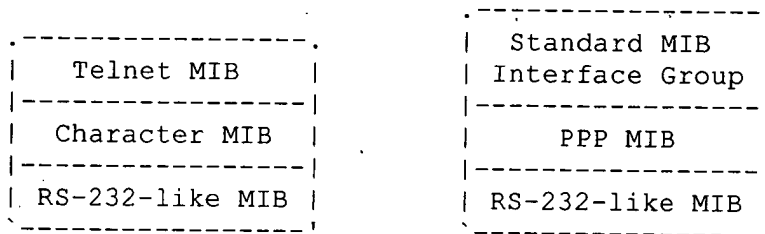
The Parallel-printer-like Hardware Device MIB applies to interface ports that might logically support the Interface MIB, a Transmission MIB, or the Character MIB (most likely the latter). The most common example is a Centronics or Data Products type parallel printer port.

The Parallel-printer-like MIB is one of a set of MIBs designed for complementary use. At this writing, the set comprises:

Character MIB
 PPP MIB
 RS-232-like MIB
 Parallel-printer-like MIB

The RS-232-like MIB and the Parallel-printer-like MIB represent the physical layer, providing service to higher layers such as the Character MIB or PPP MIB. Further MIBs may appear above these.

The following diagram shows two possible "MIB stacks", each using the RS-232-like MIB.



The intent of the model is for the physical-level MIBs to represent the lowest level, regardless of the higher level that may be using it. In turn, separate higher level MIBs represent specific applications, such as a terminal (the Character MIB) or a network connection (the PPP MIB).

The Parallel-printer-like MIB is mandatory for all systems that have such a hardware port supporting services managed through some other MIB, for example, the Character MIB.

The Parallel-printer-like MIB includes multiple similar types of hardware, and as a result contains objects not applicable to all of those types. Such objects are in a separate branch of the MIB, which is required when applicable and otherwise absent.

The Parallel-printer-like MIB includes Centronics, Data Products, and other parallel physical links with a similar set of control signals.

The MIB contains objects that relate to physical layer connections. Such connections may provide interesting hardware signals (other than for basic data transfer), such as Power and PaperOut.

The MIB comprises one base object and three tables, detailed

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in the following sections. The tables contain objects for ports and input and output control signals.

5. Definitions

```

RFC1318-MIB DEFINITIONS ::= BEGIN

IMPORTS
    Counter
        FROM RFC1155-SMI
    transmission
        FROM RFC1213-MIB
    OBJECT-TYPE
        FROM RFC-1212;

-- this is the MIB module for Parallel-printer-like
-- hardware devices

para    OBJECT IDENTIFIER ::= { transmission 34 }

-- the generic Parallel-printer-like group

-- Implementation of this group is mandatory for all
-- systems that have Parallel-printer-like hardware
-- ports supporting higher level services such as
-- character streams

paraNumber OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The number of ports (regardless of their current
        state) in the Parallel-printer-like port table."
    ::= { para 1 }

-- the Parallel-printer-like Port table

paraPortTable OBJECT-TYPE
    SYNTAX SEQUENCE OF ParaPortEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "A list of port entries. The number of entries is
        given by the value of paraNumber."
    ::= { para 2 }

```

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```

paraPortEntry OBJECT-TYPE
    SYNTAX ParaPortEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "Status and parameter values for a port."
    INDEX { paraPortIndex }
    ::= { paraPortTable 1 }

```

```

ParaPortEntry ::=
    SEQUENCE {
        paraPortIndex
            INTEGER,
        paraPortType
            INTEGER,
        paraPortInSigNumber
            INTEGER,
        paraPortOutSigNumber
            INTEGER
    }

```

```

paraPortIndex OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "A unique value for each port. Its value ranges
        between 1 and the value of paraNumber. By
        convention and if possible, hardware port numbers
        map directly to external connectors. The value for
        each port must remain constant at least from one
        re-initialization of the network management agent to
        the next."
    ::= { paraPortEntry 1 }

```

```

paraPortType OBJECT-TYPE
    SYNTAX INTEGER {
        other(1),
        centronics(2),
        dataproducts(3)
    }
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The port's hardware type."
    ::= { paraPortEntry 2 }

```

```

paraPortInSigNumber OBJECT-TYPE

```

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```

SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The number of input signals for the port in the
    input signal table (paraPortInSigTable). The table
    contains entries only for those signals the software
    can detect."
 ::= { paraPortEntry 3 }

```

```

paraPortOutSigNumber OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The number of output signals for the port in the
    output signal table (paraPortOutSigTable). The
    table contains entries only for those signals the
    software can assert."
 ::= { paraPortEntry 4 }

```

```
-- the Input Signal table
```

```

paraInSigTable OBJECT-TYPE
SYNTAX SEQUENCE OF ParaInSigEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
    "A list of port input control signal entries."
 ::= { para 3 }

```

```

paraInSigEntry OBJECT-TYPE
SYNTAX ParaInSigEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
    "Input control signal status for a hardware port."
INDEX { paraInSigPortIndex, paraInSigName }
 ::= { paraInSigTable 1 }

```

```

ParaInSigEntry ::=
SEQUENCE {
    paraInSigPortIndex
        INTEGER,
    paraInSigName
        INTEGER,
    paraInSigState

```

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```

        INTEGER,
        paraInSigChanges
        Counter
    }

```

```
paraInSigPortIndex OBJECT-TYPE
```

```
SYNTAX INTEGER
```

```
ACCESS read-only
```

```
STATUS mandatory
```

```
DESCRIPTION
```

```
    "The value of paraPortIndex for the port to which
    this entry belongs."
```

```
 ::= { paraInSigEntry 1 }
```

```
paraInSigName OBJECT-TYPE
```

```
SYNTAX INTEGER { power(1), online(2), busy(3),
                paperout(4), fault(5) }
```

```
ACCESS read-only
```

```
STATUS mandatory
```

```
DESCRIPTION
```

```
    "Identification of a hardware signal."
```

```
 ::= { paraInSigEntry 2 }
```

```
paraInSigState OBJECT-TYPE
```

```
SYNTAX INTEGER { none(1), on(2), off(3) }
```

```
ACCESS read-only
```

```
STATUS mandatory
```

```
DESCRIPTION
```

```
    "The current signal state."
```

```
 ::= { paraInSigEntry 3 }
```

```
paraInSigChanges OBJECT-TYPE
```

```
SYNTAX Counter
```

```
ACCESS read-only
```

```
STATUS mandatory
```

```
DESCRIPTION
```

```
    "The number of times the signal has changed from
    'on' to 'off' or from 'off' to 'on'."
```

```
 ::= { paraInSigEntry 4 }
```

```
-- the Output Signal table.
```

```
paraOutSigTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF ParaOutSigEntry
```

```
ACCESS not-accessible
```

```
STATUS mandatory
```

```
DESCRIPTION
```

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"A list of port output control signal entries."
 ::= { para 4 }

paraOutSigEntry OBJECT-TYPE
 SYNTAX ParaOutSigEntry
 ACCESS not-accessible
 STATUS mandatory
 DESCRIPTION
 "Output control signal status for a hardware port."
 INDEX { paraOutSigPortIndex, paraOutSigName }
 ::= { paraOutSigTable 1 }

ParaOutSigEntry ::=
 SEQUENCE {
 paraOutSigPortIndex
 INTEGER,
 paraOutSigName
 INTEGER,
 paraOutSigState
 INTEGER,
 paraOutSigChanges
 Counter
 }

paraOutSigPortIndex OBJECT-TYPE
 SYNTAX INTEGER
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "The value of paraPortIndex for the port to which
 this entry belongs."
 ::= { paraOutSigEntry 1 }

paraOutSigName OBJECT-TYPE
 SYNTAX INTEGER { power(1), online(2), busy(3),
 paperout(4), fault(5) }
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "Identification of a hardware signal."
 ::= { paraOutSigEntry 2 }

paraOutSigState OBJECT-TYPE
 SYNTAX INTEGER { none(1), on(2), off(3) }
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "The current signal state."

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```
 ::= { paraOutSigEntry 3 }
```

```
 paraOutSigChanges OBJECT-TYPE
```

```
   SYNTAX Counter
```

```
   ACCESS read-only
```

```
   STATUS mandatory
```

```
   DESCRIPTION
```

```
       "The number of times the signal has changed from
        'on' to 'off' or from 'off' to 'on'."
```

```
 ::= { paraOutSigEntry 4 }
```

```
 END
```

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8. Security Considerations

Security issues are not discussed in this memo.

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April 1992

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[<- RFC Index \(1201..1300\)](#)

RFC 1283

Obsoleted by [RFC 1418](#)

Network Working Group
Request for Comments: 1283
Obsoletes: [RFC 1161](#)

M. Rose
Dover Beach Consulting, Inc.
December 1991

SNMP over OSI

Status of this Memo

This memo defines an Experimental Protocol for the Internet community. Discussion and suggestions for improvement are requested. Please refer to the current edition of the "IAB Official Protocol Standards" for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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1. Background

The Simple Network Management Protocol (SNMP) as defined in [1] is now used as an integral part of the network management framework for TCP/IP-based internets. Together, with its companions standards, which define the Structure of Management Information (SMI) [2], and the Management Information Base (MIB) [3], the SNMP has received widespread deployment in many operational networks running the Internet suite of protocols.

It should not be surprising that many of these sites might acquire OSI capabilities and may wish to leverage their investment in SNMP technology towards managing those OSI components. This memo addresses these concerns by defining a framework for running the SNMP

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in an environment which supports the OSI transport services.

In OSI, there are two such services, a connection-oriented transport services (COTS) as defined in [4], and a connectionless-mode transport service (CLTS) as defined in [5]. Although the primary deployment of the SNMP is over the connectionless-mode transport service provided by the Internet suite of protocols (i.e., the User Datagram Protocol or UDP [6]), a design goal of the SNMP was to be able to use either a CO-mode or CL-mode transport service. As such, this memo describes mappings from the SNMP onto both the COTS and the CLTS.

1.1. A Digression on User Interfaces

It is likely that user-interfaces to the SNMP will be developed that support multiple transport backings. In an environment such as this, it is often important to maintain a consistent addressing scheme for users. Since the mappings described in this memo are onto the OSI transport services, use of the textual scheme described in [7], which describes a string encoding for OSI presentation addresses, is recommended. The syntax defined in [7] is equally applicable towards transport addresses.

In this context, a string encoding usually appears as:

```
[<t-selector>/]<n-provider><n-address>[+<n-info>]
```

where:

- (1) <t-selector> is usually either an ASCII string enclosed in double-quotes (e.g., "snmp"), or a hexadecimal number (e.g., '736e6d70'H);
- (2) <n-provider> is one of several well-known providers of a connectivity-service, one of: "Internet=" for a transport-service from the Internet suite of protocols, "Int-X25=" for the 1980 CCITT X.25 recommendation, or "NS+" for the OSI network service;
- (3) <n-address> is an address in a format specific to the <n-provider>; and,
- (4) <n-info> is any additional addressing information in a format specific to the <n-provider>.

It is not the purpose of this memo to provide an exhaustive description of string encodings such as these. Readers should consult [7] for detailed information on the syntax. However, this

memo recommends that, as an implementation option, user-interfaces to the SNMP that support multiple transport backings SHOULD implement this syntax.

1.1.1. Addressing Conventions for UDP-based service

In the context of a UDP-based transport backing, addresses would be encoded as:

Internet=<host>+161+2

which says that the transport service is from the Internet suite of protocols, residing at <host>, on port 161, using the UDP (2). The token <host> may be either a domain name or a dotted-quad, e.g., both

Internet=cheetah.nyser.net+161+2

and

Internet=192.52.180.1+161+2

are both valid. Note however that if domain name "cheetah.nyser.net" maps to multiple IP addresses, then this implies multiple transport addresses. The number of addresses examined by the application (and the order of examination) are specific to each application.

Of course, this memo does not require that other interface schemes not be used. Clearly, use of a simple hostname is preferable to the string encoding above. However, for the sake of uniformity, for those user-interfaces to the SNMP that support multiple transport backings, it is strongly RECOMMENDED that the syntax in [7] be adopted and even the mapping for UDP-based transport be valid.

1.2. A Digression of Layering

Although other frameworks view network management as an application, extensive experience with the SNMP suggests otherwise. In essence, network management is a function unlike any other user of a transport service. The citation [8] develops this argument in full. As such, it is inappropriate to map the SNMP onto the OSI application layer. Rather, it is mapped to OSI transport services, in order to build on the proven success of the Internet network management framework.

2. Mapping onto CLTS

Mapping the SNMP onto the CLTS is straight-forward. The elements of procedure are identical to that of using the UDP, with one exception: a slightly different Trap PDU is used. Further, note that the CLTS

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and the service offered by the UDP both transmit packets of

information which contain full addressing information. Thus, mapping the SNMP onto the CLTS, a "transport address" in the context of [1], is simply a transport-selector and network address.

2.1. Addressing Conventions

Unlike the Internet suite of protocols, OSI does not use well-known ports. Rather demultiplexing occurs on the basis of "selectors", which are opaque strings of octets, which have meaning only at the destination. In order to foster interoperable implementations of the SNMP over the CLTS, it is necessary define a selector for this purpose.

2.1.1. Conventions for CLNP-based service

When the CLTS is used to provide the transport backing for the SNMP, demultiplexing will occur on the basis of transport selector. The transport selector used shall be the four ASCII characters

snmp

Thus, using the string encoding of [7], such addresses may be textual, described as:

"snmp"/NS+<nsap>

where:

(1) <nsap> is a hex string defining the nsap, e.g.,

"snmp"/NS+4900590800200038bafe00

Similarly, SNMP traps are, by convention, sent to a manager listening on the transport selector

snmp-trap

which consists of nine ASCII characters.

3. Mapping onto COTS

Mapping the SNMP onto the COTS is more difficult as the SNMP does not specifically require an existing connection. Thus, the mapping consists of establishing a transport connection, sending one or more SNMP messages on that connection, and then releasing the transport connection. Further, a slightly different Trap PDU is used.

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Consistent with the SNMP model, the initiator of a connection should not require that responses to a request be returned on that connection. However, if a responder to a connection sends SNMP messages on a connection, then these MUST be in response to requests received on that connection.

Ideally, the transport connection SHOULD be released by the initiator, however, note that the responder may release the connection due to resource limitations. Further note, that the amount of time a connection remains established is implementation-specific. Implementors should take care to choose an appropriate dynamic algorithm.

Also consistent with the SNMP model, the initiator should not associate any reliability characteristics with the use of a connection. Issues such as retransmission of SNMP messages, etc., always remain with the SNMP application, not with the transport service.

3.1. Addressing Conventions

Unlike the Internet suite of protocols, OSI does not use well-known ports. Rather demultiplexing occurs on the basis of "selectors", which are opaque strings of octets, which have meaning only at the destination. In order to foster interoperable implementations of the SNMP over the COTS, it is necessary define a selector for this purpose. However, to be consistent with the various connectivity-services, different conventions, based on the actual underlying service, will be used.

3.1.1. Conventions for TP4/CLNP-based service

When a COTS based on the TP4/CLNP is used to provide the transport backing for the SNMP, demultiplexing will occur on the basis of transport selector. The transport selector used shall be the four ASCII characters

snmp

Thus, using the string encoding of [7], such addresses may be textual, described as:

"snmp"/NS+<nsap>

where:

(1) <nsap> is a hex string defining the nsap, e.g.,

"snmp"/NS+4900590800200038baf00

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Similarly, SNMP traps are, by convention, sent to a manager listening on the transport selector

snmp-trap

which consists of nine ASCII characters.

3.1.2. Conventions for TP0/X.25-based service

When a COTS based on the TP0/X.25 is used to provide the transport backing for the SNMP, demultiplexing will occur on the basis of X.25 protocol-ID. The protocol-ID used shall be the four octets

03018200

This is the X.25 protocol-ID assigned for local management purposes. Thus, using the string encoding of [7], such addresses may be textual described as:

Int-X25=<dte>+PID+03018200

where:

(1) <dte> is the X.121 DTE, e.g.,

Int-X25=23421920030013+PID+03018200

Similarly, SNMP traps are, by convention, sent to a manager listening on the protocol-ID

03019000

This is an X.25 protocol-ID assigned for local purposes.

4. Trap PDU

The Trap-PDU defined in [1] is designed to represent traps generated on IP networks. As such, a slightly different PDU must be used when representing traps generated on OSI networks.

RFC1283 DEFINITIONS ::= BEGIN

IMPORTS

TimeTicks
 FROM RFC1155-SMI -- [2] --
 VarBindList
 FROM RFC1157-SNMP -- [1] --
 ClnpAddress

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FROM CLNS-MIB -- [9] --;

Trap-PDU ::= [4]

IMPLICIT SEQUENCE {
 enterprise -- type of object generating
 OBJECT IDENTIFIER, -- trap, see sysObjectID
 agent-addr -- address of object generating
 ClnpAddress, -- trap

```

generic-trap          -- generic trap type
  INTEGER {
    coldStart(0),
    warmStart(1),
    linkDown(2),
    linkUp(3),
    authenticationFailure(4),
    egpNeighborLoss(5),
    enterpriseSpecific(6)
  },

specific-trap        -- specific code, present even
  INTEGER,           -- if generic-trap is not
                    -- enterpriseSpecific

time-stamp           -- time elapsed between the last
  TimeTicks,        -- (re)initialization of the
                    -- network entity and the
                    -- generation of the trap

variable-bindings    -- "interesting" information
  VarBindList
}

END

```

5. Acknowledgements

The predecessor of this document ([RFC 1161](#)) was produced by the SNMP Working Group, and subsequently modified by the editor to reflect operational experience gained since the original publication.

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International, and MIT Laboratory for Computer Science, May 1990.

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7. Security Considerations

Security issues are not discussed in this memo.

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RFC 1516Obsoleted by 2108

Network Working Group
 Request for Comments: 1516
 Obsoletes: 1368

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 SynOptics Communications, Inc.
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 Hughes LAN Systems, Inc.
 September 1993

Definitions of Managed Objects
 for IEEE 802.3 Repeater Devices

Status of this Memo

This RFC specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Abstract

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. In particular, it defines objects for managing IEEE 802.3 10 Mb/second baseband repeaters, sometimes referred to as "hubs."

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1. The Network Management Framework

The Internet-standard Network Management Framework consists of three components. They are:

- o STD 16, [RFC 1155](#) which defines the SMI, the mechanisms used for describing and naming objects for the purpose of management. STD 16, [RFC 1212](#) defines a more concise description mechanism, which is wholly consistent with the SMI.
- o STD 17, [RFC 1213](#) defines MIB-II, the core set of managed objects for the Internet suite of protocols.
- o STD 15, [RFC 1157](#) which defines the SNMP, the protocol used for network access to managed objects.

The Framework permits new objects to be defined for the purpose of experimentation and evaluation.

1.1. Object Definitions

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the subset of Abstract Syntax Notation One (ASN.1) defined in the SMI. In particular, each object type is named by an OBJECT IDENTIFIER, an administratively assigned name. The object type together with an object instance serves to uniquely identify a specific instantiation of the object. For human convenience, we often use a textual string, termed the descriptor, to refer to the object type.

2. Overview

Instances of the object types defined in this memo represent attributes of an IEEE 802.3 (Ethernet-like) repeater, as defined by Section 9, "Repeater Unit for 10 Mb/s Baseband Networks" in the IEEE 802.3/ISO 8802-3 CSMA/CD standard [7].

These Repeater MIB objects may be used to manage non-standard repeater-like devices, but defining objects to describe

implementation-specific properties of non-standard repeater-like devices is outside the scope of this memo.

The definitions presented here are based on the IEEE draft standard P802.3K, "Layer Management for 10 Mb/s Baseband Repeaters" [8]. Implementors of these MIB objects should note that [8] explicitly describes when, where, and how various repeater attributes are measured. The IEEE document also describes the effects of repeater actions that may be invoked by manipulating instances of the MIB objects defined here.

The counters in this document are defined to be the same as those counters in the IEEE 802.3 Repeater Management draft, with the intention that the same instrumentation can be used to implement both the IEEE and IETF management standards.

2.1. Terminology

2.1.1. Repeaters, Hubs and Concentrators

In late 1988, the IEEE 802.3 Hub Management task force was chartered to define managed objects for both 802.3 repeaters and the proposed 10BASE-FA synchronous active stars. The term "hub" was used to cover both repeaters and active stars.

In March, 1991, the active star proposal was dropped from the 10BASE-F draft. Subsequently the 802.3 group changed the name of the task force to be the IEEE 802.3 Repeater Management Task Force, and likewise renamed their draft.

The use of the term "hub" has led to some confusion, as the terms "hub," "intelligent hub," and "concentrator" are often used to indicate a modular chassis with plug-in modules that provide generalized LAN/WAN connectivity, often with a mix of 802.3 repeater, token ring, and FDDI connectivity, internetworked by bridges, routers, and terminal servers.

To be clear that this work covers the management of IEEE 802.3 repeaters only, the editors of this MIB definitions document chose to call this a "Repeater MIB" instead of a "Hub MIB."

2.1.2. Repeaters, Ports, and MAUs

The following text roughly defines the terms "repeater," "port," and "MAU" as used in the context of this memo. This text is imprecise and omits many technical details. For a more complete and precise definition of these terms, refer to Section 9 of [7].

An IEEE 802.3 repeater connects "Ethernet-like" media segments together to extend the network length and topology beyond what can be achieved with a single coax segment. It can be pictured as a star structure with two or more input/output ports. The diagram below illustrates a 6-port repeater:

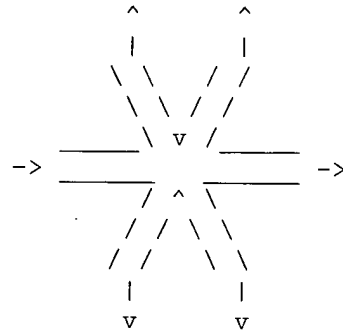


Figure 1. Repeater Unit

All the stations on the media segments connected to a given repeater's ports participate in a single collision domain. A packet transmitted by any of these stations is seen by all of these stations.

Data coming in on any port in the repeater is transmitted out through each of the remaining $n-1$ ports. If data comes in to the repeater on two or more ports simultaneously or the repeater detects a collision on the incoming port, the repeater transmits a jamming signal out on all ports for the duration of the collision.

A repeater is a bit-wise store-and-forward device. It is differentiated from a bridge (a frame store-and-forward device) in that it is primarily concerned with carrier sense and data bits, and does not make data-handling decisions based on the legality or contents of a packet. A repeater retransmits data bits as they are received. Its data FIFO holds only enough bits to make sure that the FIFO does not underflow when the data rate of incoming bits is slightly slower than the repeater's transmission rate.

A repeater is not an end-station on the network, and does not count toward the overall limit of 1024 stations. A repeater has no MAC address associated with it, and therefore packets may not be addressed to the repeater or to its ports. (Packets may be addressed to the MAC address of a management entity that is monitoring a repeater. This management entity may or may not be connected to the network through one of the repeater's ports. How the management entity obtains information about the activity on the repeater is an

implementation issue, and is not discussed in this memo.)

A repeater is connected to the network with Medium Attachment Units (MAUs), and sometimes through Attachment Unit Interfaces (AUIs) as well. ("MAUs" are also known as transceivers, and an "AUI" is the same as a 15-pin Ethernet or DIX connector.)

The 802.3 standard defines a "repeater set" as the "repeater unit" plus its associated MAUs (and AUIs if present). The "repeater unit" is defined as the portion of the repeater set that is inboard of the physical media interfaces. The MAUs may be physically separate from the repeater unit, or they may be integrated into the same physical package.

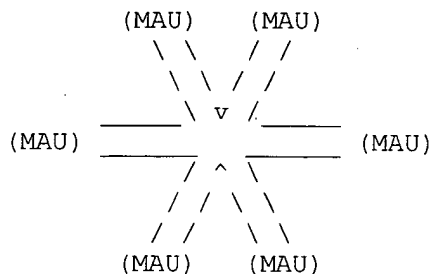


Figure 2. Repeater Set

The most commonly-used MAUs are the 10BASE-5 (AUI to thick "yellow" coax), 10BASE-2 (BNC to thin coax), 10BASE-T (unshielded twisted-pair), and FOIRL (asynchronous fiber optic inter-repeater link, which is being combined into the 10BASE-F standard as 10BASE-FL). The draft 10BASE-F standard also includes the definition for a new synchronous fiber optic attachment, known as 10BASE-FB.

It should be stressed that the repeater MIB being defined by the IEEE covers only the repeater unit management - it does not include management of the MAUs that form the repeater set. The IEEE recognizes that MAU management should be the same for MAUs connected to end-stations (DTEs) as it is for MAUs connected to repeaters. This memo follows the same strategy; the definition of management information for MAUs is being addressed in a separate memo.

2.1.3. Ports and Groups

Repeaters are often implemented in modular "concentrators," where a card cage holds several field-replaceable cards. Several cards may form a single repeater unit, with each card containing one or more of the repeater's ports. Because of this modular architecture, users typically identify these repeater ports with a card number plus the

port number relative to the card, e.g., Card 3, Port 11.

To support this modular numbering scheme, this document follows the example of the IEEE Repeater Management draft [8], allowing an implementor to separate the ports in a repeater into "groups", if desired. For example, an implementor might choose to represent field-replaceable units as groups of ports so that the port numbering would match the modular hardware implementation.

This group mapping is recommended but optional. An implementor may choose to put all of a modular repeater's ports into a single group, or to divide the ports into groups that do not match physical divisions.

The object `rpPtrGroupCapacity`, which has a maximum value of 1024, indicates the maximum number of groups that a given repeater may contain. The value of `rpPtrGroupCapacity` must remain constant from one management restart to the next.

Each group within the repeater is uniquely identified by a group number in the range 1..`rpPtrGroupCapacity`. Groups may come and go without causing a management reset, and may be sparsely numbered within the repeater. For example, in a 12-card cage, cards 3, 5, 6, and 7 may together form a single repeater, and the implementor may choose to number them as groups 3, 5, 6, and 7, respectively.

The object `rpPtrGroupPortCapacity`, which also has a maximum value of 1024, indicates the maximum number of ports that a given group may contain. The value of `rpPtrGroupPortCapacity` must not change for a given group. However, a group may be deleted from the repeater and replaced with a group containing a different number of ports. The value of `rpPtrGroupLastOperStatusChange` will indicate that a change took place.

Each port within the repeater is uniquely identified by a combination of group number and port number, where port number is an integer in the range 1..`rpPtrGroupPortCapacity`. As with groups within a repeater, ports within a group may be sparsely numbered. Likewise, ports may come and go within a group without causing a management reset.

2.1.4. Internal Ports and MAUs

Repeater ports may be thought of as sources of traffic into the repeater. In addition to the externally visible ports mentioned above, such as those with 10BASE-T MAUs, or AUI ports with external transceivers, some implementations may have internal ports that are not obvious to the end-user but are nevertheless sources of traffic

into the repeater. Examples include internal management ports, through which an agent communicates, and ports connecting to a backplane internal to the implementation.

Some implementations may not manage all of a repeater's ports. For managed ports, there must be entries in the port table; unmanaged ports will not show up in the table.

It is the decision of the implementor to select the appropriate group(s) in which to place internal ports. GroupCapacity for a given group always reflects the number of MANAGED ports in that group.

If some ports are unmanaged such that not all packet sources are represented by managed ports, then the sum of the input counters for the repeater will not equal the actual output of the repeater.

2.2. Supporting Functions

The IEEE 802.3 Hub Management draft [8] defines the following seven functions and seven signals used to describe precisely when port counters are incremented. The relationship between the functions and signals is shown in Figure 3.

The CollisionEvent, ActivityDuration, CarrierEvent, FramingError, OctetCount, FCSError, and SourceAddress output signals defined here are not retrievable MIB objects, but rather are concepts used in defining the MIB objects. The inputs are defined in Section 9 of the IEEE 802.3 standard [7].

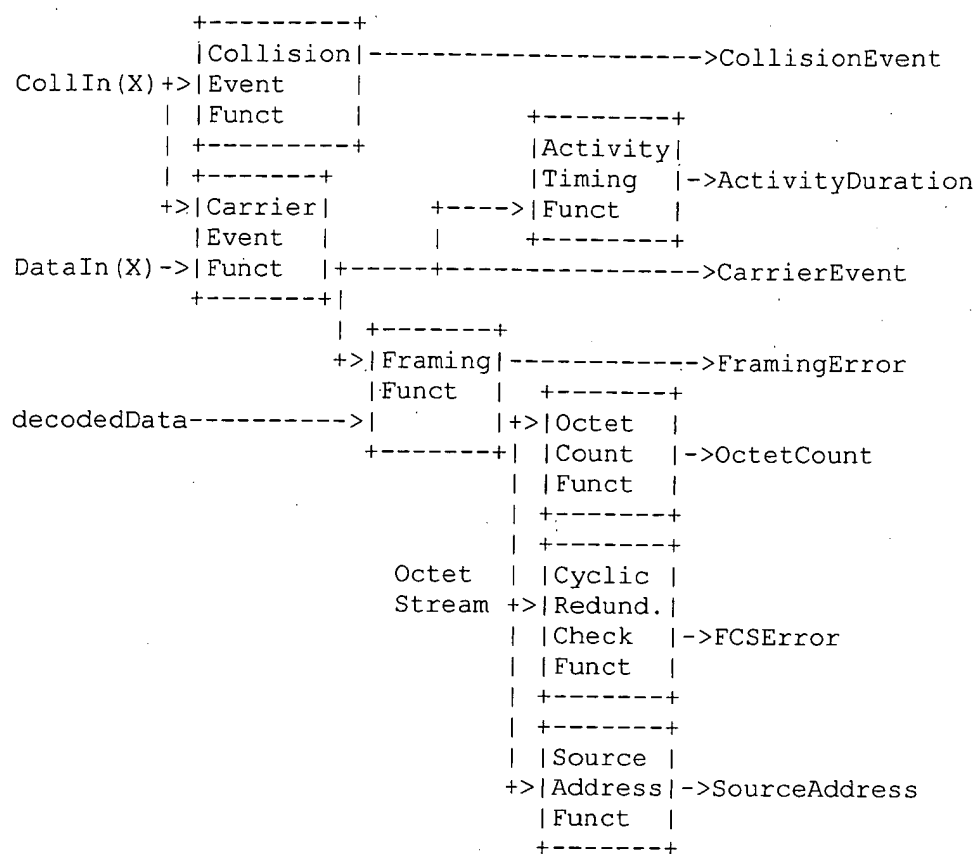


Figure 3. Port Functions Relationship

Collision Event Function: The collision event function asserts the CollisionEvent signal when the CollIn(X) variable has the value SQE. The CollisionEvent signal remains asserted until the assertion of any CarrierEvent signal due to the reception of the following event.

Carrier Event Function: The carrier event function asserts the CarrierEvent signal when the repeater exits the IDLE state, Fig 9-2 [7], and the port has been determined to be port N. It deasserts the CarrierEvent signal when, for a duration of at least Carrier Recovery Time (Ref: 9.5.6.5 [7]), both the DataIn(N) variable has the value II and the CollIn(N) variable has the value -SQE. The value N is the port assigned at the time of transition from the IDLE state.

Framing Function: The framing function recognizes the boundaries of an incoming frame by monitoring the CarrierEvent signal and the

decoded data stream. Data bits are accepted while the CarrierEvent signal is asserted. The framing function strips preamble and start of frame delimiter from the received data stream. The remaining bits are aligned along octet boundaries. If there is not an integral number of octets, then FramingError shall be asserted. The FramingError signal is cleared upon the assertion of the CarrierEvent signal due to the reception of the following event.

Activity Timing Function: The activity timing function measures the duration of the assertion of the CarrierEvent signal. This duration value must be adjusted by removing the value of Carrier Recovery Time (Ref: 9.5.6.5 [7]) to obtain the true duration of activity on the network. The output of the Activity Timing function is the ActivityDuration value, which represents the duration of the CarrierEvent signal as expressed in units of bit times.

Octet Counting Function: The octet counting function counts the number of complete octets received from the output of the framing function. The output of the octet counting function is the OctetCount value. The OctetCount value is reset to zero upon the assertion of the CarrierEvent signal due to the reception of the following event.

Cyclic Redundancy Check Function: The cyclic redundancy check function verifies that the sequence of octets output by the framing function contains a valid frame check sequence field. The frame check sequence field is the last four octets received from the output of the framing function. The algorithm for generating an FCS from the octet stream is specified in 3.2.8 [7]. If the FCS generated according to this algorithm is not the same as the last four octets received from the framing function then the FCSError signal is asserted. The FCSError signal is cleared upon the assertion of the CarrierEvent signal due to the reception of the following event.

Source Address Function: The source address function extracts octets from the stream output by the framing function. The seventh through twelfth octets shall be extracted from the octet stream and output as the SourceAddress variable. The SourceAddress variable is set to an invalid state upon the assertion of the CarrierEvent signal due to the reception of the following event.

2.3. Structure of MIB

Objects in this MIB are arranged into MIB groups. Each MIB group is organized as a set of related objects.

2.3.1. The Basic Group Definitions

This mandatory group contains the objects which are applicable to all repeaters. It contains status, parameter and control objects for the repeater as a whole, the port groups within the repeater, as well as for the individual ports themselves.

2.3.2. The Monitor Group Definitions

This optional group contains monitoring statistics for the repeater as a whole and for individual ports.

2.3.3. The Address Tracking Group Definitions

This optional group contains objects for tracking the MAC addresses of the DTEs attached to the ports of the repeater.

2.4. Relationship to Other MIBs

It is assumed that a repeater implementing this MIB will also implement (at least) the 'system' group defined in MIB-II [3].

2.4.1. Relationship to the 'system' group

In MIB-II, the 'system' group is defined as being mandatory for all systems such that each managed entity contains one instance of each object in the 'system' group. Thus, those objects apply to the entity even if the entity's sole functionality is management of a repeater.

2.4.2. Relationship to the 'interfaces' group

In MIB-II, the 'interfaces' group is defined as being mandatory for all systems and contains information on an entity's interfaces, where each interface is thought of as being attached to a the Internet suite of protocols.)

This Repeater MIB uses the notion of ports on a repeater. The concept of a MIB-II interface has NO specific relationship to a repeater's port. Therefore, the 'interfaces' group applies only to the one (or more) network interfaces on which the entity managing the repeater sends and receives management protocol operations, and does not apply to the repeater's ports.

This is consistent with the physical-layer nature of a repeater. A repeater is a bitwise store-and-forward device. It recognizes activity and bits, but does not process incoming data based on any packet-related information (such as checksum or addresses). A

repeater has no MAC address, no MAC implementation, and does not pass packets up to higher-level protocol entities for processing.

(When a network management entity is observing the repeater, it may appear as though the repeater is passing packets to a higher-level protocol entity. However, this is only a means of implementing management, and this passing of management information is not part of the repeater functionality.)

2.5. Textual Conventions

The datatype `MacAddress` is used as a textual convention in this document. This textual convention has NO effect on either the syntax nor the semantics of any managed object. Objects defined using this convention are always encoded by means of the rules that define their primitive type. Hence, no changes to the SMI or the SNMP are necessary to accommodate this textual convention which is adopted merely for the convenience of readers.

3. Definitions

```
SNMP-REPEATER-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
    Counter, TimeTicks, Gauge
```

```
    DisplayString
```

```
    TRAP-TYPE
```

```
    OBJECT-TYPE
```

```
    FROM RFC1155-SMI
```

```
    FROM RFC1213-MIB
```

```
    FROM RFC-1215
```

```
    FROM RFC-1212;
```

```
snmpDot3RptrMgt OBJECT IDENTIFIER ::= { mib-2 22 }
```

```
-- All representations of MAC addresses in this MIB Module use,
-- as a textual convention (i.e., this convention does not affect
-- their encoding), the data type:
```

```
MacAddress ::= OCTET STRING (SIZE (6))    -- a 6 octet address in
                                           -- the "canonical" order
-- defined by IEEE 802.1a, i.e., as if it were transmitted least
-- significant bit first.
```

```
--                                     References
```

```
-- The following references are used throughout this MIB:
```

```
--
```

```
-- [IEEE 802.3 Std]
--   refers to IEEE 802.3/ISO 8802-3 Information processing
--   systems - Local area networks - Part 3: Carrier sense
--   multiple access with collision detection (CSMA/CD)
--   access method and physical layer specifications
--   (2nd edition, September 21, 1990).
--
-- [IEEE 802.3 Rptr Mgt]
--   refers to IEEE P802.3K, 'Layer Management for 10 Mb/s
--   Baseband Repeaters, Section 19,' Draft Supplement to
--   ANSI/IEEE 802.3, (Draft 8, April 9, 1992)
```

```
--                               MIB Groups
--
-- The rptrBasicPackage group is mandatory.
-- The rptrMonitorPackage and rptrAddrTrackPackage
-- groups are optional.
```

```
rptrBasicPackage
  OBJECT IDENTIFIER ::= { snmpDot3RptrMgt 1 }
```

```
rptrMonitorPackage
  OBJECT IDENTIFIER ::= { snmpDot3RptrMgt 2 }
```

```
rptrAddrTrackPackage
  OBJECT IDENTIFIER ::= { snmpDot3RptrMgt 3 }
```

```
-- object identifiers for organizing the information
-- in the groups by repeater, port-group, and port
```

```
rptrRptrInfo
  OBJECT IDENTIFIER ::= { rptrBasicPackage 1 }
```

```
rptrGroupInfo
  OBJECT IDENTIFIER ::= { rptrBasicPackage 2 }
```

```
rptrPortInfo
  OBJECT IDENTIFIER ::= { rptrBasicPackage 3 }
```

```
rptrMonitorRptrInfo
  OBJECT IDENTIFIER ::= { rptrMonitorPackage 1 }
```

```
rptrMonitorGroupInfo
  OBJECT IDENTIFIER ::= { rptrMonitorPackage 2 }
```

```
rptrMonitorPortInfo
  OBJECT IDENTIFIER ::= { rptrMonitorPackage 3 }
```

```
rptrAddrTrackRptrInfo    -- this subtree is currently unused
```


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```

OBJECT IDENTIFIER ::= { rpPtrAddrTrackPackage 1 }
rpPtrAddrTrackGroupInfo -- this subtree is currently unused
OBJECT IDENTIFIER ::= { rpPtrAddrTrackPackage 2 }
rpPtrAddrTrackPortInfo
OBJECT IDENTIFIER ::= { rpPtrAddrTrackPackage 3 }

```

```

--
--
--           The BASIC GROUP
--
-- Implementation of the Basic Group is mandatory for all
-- managed repeaters.

```

```

--
-- Basic Repeater Information
--
-- Configuration, status, and control objects for the overall
-- repeater
--

```

rpPtrGroupCapacity OBJECT-TYPE

SYNTAX INTEGER (1..1024)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The rpPtrGroupCapacity is the number of groups that can be contained within the repeater. Within each managed repeater, the groups are uniquely numbered in the range from 1 to rpPtrGroupCapacity.

Some groups may not be present in the repeater, in which case the actual number of groups present will be less than rpPtrGroupCapacity. The number of groups present will never be greater than rpPtrGroupCapacity.

Note: In practice, this will generally be the number of field-replaceable units (i.e., modules, cards, or boards) that can fit in the physical repeater enclosure, and the group numbers will correspond to numbers marked on the physical enclosure."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.3.2, aRepeaterGroupCapacity."

```
 ::= { rpPtrRptrInfo 1 }
```

rpPtrOperStatus OBJECT-TYPE

```

SYNTAX  INTEGER {
    other(1),           -- undefined or unknown status
    ok(2),             -- no known failures
    rptrFailure(3),    -- repeater-related failure
    groupFailure(4),   -- group-related failure
    portFailure(5),    -- port-related failure
    generalFailure(6)  -- failure, unspecified type
}

```

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The rptrOperStatus object indicates the operational state of the repeater. The rptrHealthText object may be consulted for more specific information about the state of the repeater's health.

In the case of multiple kinds of failures (e.g., repeater failure and port failure), the value of this attribute shall reflect the highest priority failure in the following order, listed highest priority first:

```

    rptrFailure(3)
    groupFailure(4)
    portFailure(5)
    generalFailure(6)."

```

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.3.2, aRepeaterHealthState."

::= { rptrRptrInfo 2 }

rptrHealthText OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The health text object is a text string that provides information relevant to the operational state of the repeater. Agents may use this string to provide detailed information on current failures, including how they were detected, and/or instructions for problem resolution. The contents are agent-specific."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.3.2, aRepeaterHealthText."

::= { rptrRptrInfo 3 }

rptrReset OBJECT-TYPE

```
SYNTAX      INTEGER {
                noReset(1),
                reset(2)
            }
```

```
ACCESS      read-write
```

```
STATUS      mandatory
```

DESCRIPTION

"Setting this object to reset(2) causes a transition to the START state of Fig 9-2 in section 9 [IEEE 802.3 Std].

Setting this object to noReset(1) has no effect. The agent will always return the value noReset(1) when this object is read.

After receiving a request to set this variable to reset(2), the agent is allowed to delay the reset for a short period. For example, the implementor may choose to delay the reset long enough to allow the SNMP response to be transmitted. In any event, the SNMP response must be transmitted.

This action does not reset the management counters defined in this document nor does it affect the portAdminStatus parameters. Included in this action is the execution of a disruptive Self-Test with the following characteristics: a) The nature of the tests is not specified. b) The test resets the repeater but without affecting management information about the repeater. c) The test does not inject packets onto any segment. d) Packets received during the test may or may not be transferred. e) The test does not interfere with management functions.

After performing this self-test, the agent will update the repeater health information (including rptrOperStatus and rptrHealthText), and send a rptrHealth trap."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.3.3, acResetRepeater."

```
::= { rptrRptrInfo 4 }
```

rptrNonDisruptTest OBJECT-TYPE

```
SYNTAX      INTEGER {
                noSelfTest(1),
            }
```

```

        selfTest(2)
    }
ACCESS    read-write
STATUS    mandatory
DESCRIPTION
    "Setting this object to selfTest(2) causes the
    repeater to perform a agent-specific, non-
    disruptive self-test that has the following
    characteristics: a) The nature of the tests is
    not specified. b) The test does not change the
    state of the repeater or management information
    about the repeater. c) The test does not inject
    packets onto any segment. d) The test does not
    prevent the relay of any packets. e) The test
    does not interfere with management functions.

    After performing this test, the agent will update
    the repeater health information (including
    rptrOperStatus and rptrHealthText) and send a
    rptrHealth trap.

    Note that this definition allows returning an
    'okay' result after doing a trivial test.

    Setting this object to noSelfTest(1) has no
    effect. The agent will always return the value
    noSelfTest(1) when this object is read."
REFERENCE
    "Reference IEEE 802.3 Rptr Mgt, 19.2.3.3,
    acExecuteNonDisruptiveSelfTest."
 ::= { rptrRptrInfo 5 }

```

rptrTotalPartitionedPorts OBJECT-TYPE

```

SYNTAX    Gauge
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "This object returns the total number of ports in
    the repeater whose current state meets all three
    of the following criteria: rptrPortOperStatus
    does not have the value notPresent(3),
    rptrPortAdminStatus is enabled(1), and
    rptrPortAutoPartitionState is autoPartitioned(2)."
 ::= { rptrRptrInfo 6 }

```

```
--
--
--
```

```
The Basic Port Group Table
```

```
rpPtrGroupTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RpPtrGroupEntry
    ACCESS      not-accessible
    STATUS      mandatory
    DESCRIPTION
        "Table of descriptive and status information about
         the groups of ports."
    ::= { rpPtrGroupInfo 1 }
```

```
rpPtrGroupEntry OBJECT-TYPE
    SYNTAX      RpPtrGroupEntry
    ACCESS      not-accessible
    STATUS      mandatory
    DESCRIPTION
        "An entry in the table, containing information
         about a single group of ports."
    INDEX      { rpPtrGroupIndex }
    ::= { rpPtrGroupTable 1 }
```

```
RpPtrGroupEntry ::=
    SEQUENCE {
        rpPtrGroupIndex
            INTEGER,
        rpPtrGroupDescr
            DisplayString,
        rpPtrGroupObjectID
            OBJECT IDENTIFIER,
        rpPtrGroupOperStatus
            INTEGER,
        rpPtrGroupLastOperStatusChange
            TimeTicks,
        rpPtrGroupPortCapacity
            INTEGER
    }
```

```
rpPtrGroupIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..1024)
    ACCESS      read-only
    STATUS      mandatory
    DESCRIPTION
        "This object identifies the group within the
         repeater for which this entry contains
         information. This value is never greater than
         rpPtrGroupCapacity."
```

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.5.2,
aGroupID."

::= { rpPtrGroupEntry 1 }

rpPtrGroupDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A textual description of the group. This value should include the full name and version identification of the group's hardware type and indicate how the group is differentiated from other types of groups in the repeater. Plug-in Module, Rev A' or 'Barney Rubble 10BASE-T 4-port SIMM socket Version 2.1' are examples of valid group descriptions.

It is mandatory that this only contain printable ASCII characters."

::= { rpPtrGroupEntry 2 }

rpPtrGroupObjectID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The vendor's authoritative identification of the group. This value may be allocated within the SMI enterprises subtree (1.3.6.1.4.1) and provides a straight-forward and unambiguous means for determining what kind of group is being managed.

For example, this object could take the value 1.3.6.1.4.1.4242.1.2.14 if vendor 'Flintstones, Inc.' was assigned the subtree 1.3.6.1.4.1.4242, and had assigned the identifier 1.3.6.1.4.1.4242.1.2.14 to its 'Wilma Flintstone 6-Port FOIRL Plug-in Module.'"

::= { rpPtrGroupEntry 3 }

rpPtrGroupOperStatus OBJECT-TYPE

SYNTAX INTEGER {
 other(1),
 operational(2),
 malfunctioning(3),
 notPresent(4),

```

        underTest(5),
        resetInProgress(6)
    }
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "An object that indicates the operational status
    of the group.

    A status of notPresent(4) indicates that the group
    is temporarily or permanently physically and/or
    logically not a part of the repeater. It is an
    implementation-specific matter as to whether the
    agent effectively removes notPresent entries from
    the table.

    A status of operational(2) indicates that the
    group is functioning, and a status of
    malfunctioning(3) indicates that the group is
    malfunctioning in some way."
 ::= { rptrGroupEntry 4 }

```

rptrGroupLastOperStatusChange OBJECT-TYPE

```

SYNTAX    TimeTicks
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "An object that contains the value of sysUpTime at
    the time that the value of the rptrGroupOperStatus
    object for this group last changed.

    A value of zero indicates that the group's
    operational status has not changed since the agent
    last restarted."
 ::= { rptrGroupEntry 5 }

```

rptrGroupPortCapacity OBJECT-TYPE

```

SYNTAX    INTEGER (1..1024)
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "The rptrGroupPortCapacity is the number of ports
    that can be contained within the group. Valid
    range is 1-1024. Within each group, the ports are
    uniquely numbered in the range from 1 to
    rptrGroupPortCapacity.

```

Note: In practice, this will generally be the

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number of ports on a module, card, or board, and the port numbers will correspond to numbers marked on the physical embodiment."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.5.2, aGroupPortCapacity."

::= { rptrGroupEntry 6 }

--

-- The Basic Port Table

--

rpPtrPortTable OBJECT-TYPE

SYNTAX SEQUENCE OF RptrPortEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Table of descriptive and status information about the ports."

::= { rpPtrPortInfo 1 }

rpPtrPortEntry OBJECT-TYPE

SYNTAX RptrPortEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"An entry in the table, containing information about a single port."

INDEX { rpPtrPortGroupIndex, rpPtrPortIndex }

::= { rpPtrPortTable 1 }

RptrPortEntry ::=

SEQUENCE {

rpPtrPortGroupIndex

INTEGER,

rpPtrPortIndex

INTEGER,

rpPtrPortAdminStatus

INTEGER,

rpPtrPortAutoPartitionState

INTEGER,

rpPtrPortOperStatus

INTEGER

}

rpPtrPortGroupIndex OBJECT-TYPE

SYNTAX INTEGER (1..1024)


```

ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "This object identifies the group containing the
    port for which this entry contains information."
 ::= { rpPtrPortEntry 1 }

```

```

rpPtrPortIndex OBJECT-TYPE
SYNTAX    INTEGER (1..1024)
ACCESS    read-only
STATUS    mandatory
DESCRIPTION
    "This object identifies the port within the group
    for which this entry contains information. This
    value can never be greater than
    rpPtrGroupPortCapacity for the associated group."
REFERENCE
    "Reference IEEE 802.3 Rptr Mgt, 19.2.6.2,
    aPortID."
 ::= { rpPtrPortEntry 2 }

```

```

rpPtrPortAdminStatus OBJECT-TYPE
SYNTAX    INTEGER {
                enabled(1),
                disabled(2)
            }
ACCESS    read-write
STATUS    mandatory
DESCRIPTION
    "Setting this object to disabled(2) disables the
    port. A disabled port neither transmits nor
    receives. Once disabled, a port must be
    explicitly enabled to restore operation. A port
    which is disabled when power is lost or when a
    reset is exerted shall remain disabled when normal
    operation resumes.

```

The admin status takes precedence over auto-partition and functionally operates between the auto-partition mechanism and the AUI/PMA.

Setting this object to enabled(1) enables the port and exerts a BEGIN on the port's auto-partition state machine.

(In effect, when a port is disabled, the value of rpPtrPortAutoPartitionState for that port is frozen until the port is next enabled. When the port

becomes enabled, the rpPtrPortAutoPartitionState becomes notAutoPartitioned(1), regardless of its pre-disabling state.)"

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aPortAdminState and 19.2.6.3, acPortAdminControl."

::= { rpPtrPortEntry 3 }

rpPtrPortAutoPartitionState OBJECT-TYPE

```
SYNTAX      INTEGER {
                notAutoPartitioned(1),
                autoPartitioned(2)
            }
```

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The autoPartitionState flag indicates whether the port is currently partitioned by the repeater's auto-partition protection.

The conditions that cause port partitioning are specified in partition state machine in Section 9 [IEEE 802.3 Std]. They are not differentiated here."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aAutoPartitionState."

::= { rpPtrPortEntry 4 }

rpPtrPortOperStatus OBJECT-TYPE

```
SYNTAX      INTEGER {
                operational(1),
                notOperational(2),
                notPresent(3)
            }
```

ACCESS read-only

STATUS mandatory

DESCRIPTION

"This object indicates the port's operational status. The notPresent(3) status indicates the port is physically removed (note this may or may not be possible depending on the type of port.) The operational(1) status indicates that the port is enabled (see rpPtrPortAdminStatus) and working, even though it might be auto-partitioned (see rpPtrPortAutoPartitionState).

If this object has the value operational(1) and

```

rpPtrPortAdminStatus is set to disabled(2), it is
expected that this object's value will soon change
to notOperational(2).
 ::= { rpPtrPortEntry 5 }

```

```

--
--
--

```

The MONITOR GROUP

```

-- Implementation of this group is optional, but within the
-- group all elements are mandatory. If a managed repeater
-- implements any part of this group, the entire group shall
-- be implemented.

```

```

--
-- Repeater Monitor Information
--
-- Performance monitoring statistics for the repeater
--

```

rpPtrMonitorTransmitCollisions OBJECT-TYPE

```

SYNTAX Counter
ACCESS read-only
STATUS mandatory

```

DESCRIPTION

"This counter is incremented every time the repeater state machine enters the TRANSMIT COLLISION state from any state other than ONE PORT LEFT (Ref: Fig 9-2, IEEE 802.3 Std).

The approximate minimum time for rollover of this counter is 16 hours."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.3.2, aTransmitCollisions."

```

 ::= { rpPtrMonitorRptrInfo 1 }

```

```

--
--
--

```

The Group Monitor Table

rpPtrMonitorGroupTable OBJECT-TYPE

```

SYNTAX SEQUENCE OF RpPtrMonitorGroupEntry
ACCESS not-accessible
STATUS mandatory

```

DESCRIPTION

"Table of performance and error statistics for the

```

        groups."
 ::= { rpPtrMonitorGroupInfo 1 }

```

```

rpPtrMonitorGroupEntry OBJECT-TYPE
    SYNTAX      RpPtrMonitorGroupEntry
    ACCESS      not-accessible
    STATUS      mandatory
    DESCRIPTION

```

"An entry in the table, containing total performance and error statistics for a single group. Regular retrieval of the information in this table provides a means of tracking the performance and health of the networked devices attached to this group's ports.

The counters in this table are redundant in the sense that they are the summations of information already available through other objects. However, these sums provide a considerable optimization of network management traffic over the otherwise necessary retrieval of the individual counters included in each sum."

```

INDEX      { rpPtrMonitorGroupIndex }
 ::= { rpPtrMonitorGroupTable 1 }

```

```

RpPtrMonitorGroupEntry ::=
    SEQUENCE {
        rpPtrMonitorGroupIndex
            INTEGER,
        rpPtrMonitorGroupTotalFrames
            Counter,
        rpPtrMonitorGroupTotalOctets
            Counter,
        rpPtrMonitorGroupTotalErrors
            Counter
    }

```

```

rpPtrMonitorGroupIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..1024)
    ACCESS      read-only
    STATUS      mandatory
    DESCRIPTION
        "This object identifies the group within the
        repeater for which this entry contains
        information."
 ::= { rpPtrMonitorGroupEntry 1 }

```

```

rpPtrMonitorGroupTotalFrames OBJECT-TYPE

```

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SYNTAX Counter
 ACCESS read-only
 STATUS mandatory

DESCRIPTION

"The total number of frames of valid frame length that have been received on the ports in this group and for which the FCSError and CollisionEvent signals were not asserted. This counter is the summation of the values of the rpPtrMonitorPortReadableFrames counters for all of the ports in the group.

This statistic provides one of the parameters necessary for obtaining the packet error rate. The approximate minimum time for rollover of this counter is 80 hours."

::= { rpPtrMonitorGroupEntry 2 }

rpPtrMonitorGroupTotalOctets OBJECT-TYPE

SYNTAX Counter
 ACCESS read-only
 STATUS mandatory

DESCRIPTION

"The total number of octets contained in the valid frames that have been received on the ports in this group. This counter is the summation of the values of the rpPtrMonitorPortReadableOctets counters for all of the ports in the group.

This statistic provides an indicator of the total data transferred. The approximate minimum time for rollover of this counter is 58 minutes."

::= { rpPtrMonitorGroupEntry 3 }

rpPtrMonitorGroupTotalErrors OBJECT-TYPE

SYNTAX Counter
 ACCESS read-only
 STATUS mandatory

DESCRIPTION

"The total number of errors which have occurred on all of the ports in this group. This counter is the summation of the values of the rpPtrMonitorPortTotalErrors counters for all of the ports in the group."

::= { rpPtrMonitorGroupEntry 4 }

--

-- The Port Monitor Table

--

```

rpPtrMonitorPortTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RpPtrMonitorPortEntry
    ACCESS      not-accessible
    STATUS      mandatory
    DESCRIPTION
        "Table of performance and error statistics for the
        ports."
    ::= { rpPtrMonitorPortInfo 1 }

rpPtrMonitorPortEntry OBJECT-TYPE
    SYNTAX      RpPtrMonitorPortEntry
    ACCESS      not-accessible
    STATUS      mandatory
    DESCRIPTION
        "An entry in the table, containing performance and
        error statistics for a single port."
    INDEX      { rpPtrMonitorPortGroupIndex, rpPtrMonitorPortIndex }
    ::= { rpPtrMonitorPortTable 1 }

RpPtrMonitorPortEntry ::=
    SEQUENCE {
        rpPtrMonitorPortGroupIndex
            INTEGER,
        rpPtrMonitorPortIndex
            INTEGER,
        rpPtrMonitorPortReadableFrames
            Counter,
        rpPtrMonitorPortReadableOctets
            Counter,
        rpPtrMonitorPortFCSErrors
            Counter,
        rpPtrMonitorPortAlignmentErrors
            Counter,
        rpPtrMonitorPortFrameTooLongs
            Counter,
        rpPtrMonitorPortShortEvents
            Counter,
        rpPtrMonitorPortRunts
            Counter,
        rpPtrMonitorPortCollisions
            Counter,
        rpPtrMonitorPortLateEvents
            Counter,
        rpPtrMonitorPortVeryLongEvents
            Counter,
        rpPtrMonitorPortDataRateMismatches
    }

```

RFC 1516

802.3 Repeater MIB

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```

        Counter,
    rptrMonitorPortAutoPartitions
        Counter,
    rptrMonitorPortTotalErrors
        Counter
    }

rptrMonitorPortGroupIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..1024)
    ACCESS      read-only
    STATUS      mandatory
    DESCRIPTION
        "This object identifies the group containing the
         port for which this entry contains information."
    ::= { rptrMonitorPortEntry 1 }

rptrMonitorPortIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..1024)
    ACCESS      read-only
    STATUS      mandatory
    DESCRIPTION
        "This object identifies the port within the group
         for which this entry contains information."
    REFERENCE
        "Reference IEEE 802.3 Rptr Mgt, 19.2.6.2,
         aPortID."
    ::= { rptrMonitorPortEntry 2 }

rptrMonitorPortReadableFrames OBJECT-TYPE
    SYNTAX      Counter
    ACCESS      read-only
    STATUS      mandatory
    DESCRIPTION
        "This object is the number of frames of valid
         frame length that have been received on this port.
         This counter is incremented by one for each frame
         received on this port whose OctetCount is greater
         than or equal to minFrameSize and less than or
         equal to maxFrameSize (Ref: IEEE 802.3 Std,
         4.4.2.1) and for which the FCSError and
         CollisionEvent signals are not asserted.

         This statistic provides one of the parameters
         necessary for obtaining the packet error rate.
         The approximate minimum time for rollover of this
         counter is 80 hours."
    REFERENCE
        "Reference IEEE 802.3 Rptr Mgt, 19.2.6.2,

```

aReadableFrames."
 ::= { rpPtrMonitorPortEntry 3 }

rpPtrMonitorPortReadableOctets OBJECT-TYPE

SYNTAX Counter
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION

"This object is the number of octets contained in valid frames that have been received on this port. This counter is incremented by OctetCount for each frame received on this port which has been determined to be a readable frame (i.e., including FCS octets but excluding framing bits and dribble bits).

This statistic provides an indicator of the total data transferred. The approximate minimum time for rollover of this counter is 58 minutes."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aReadableOctets."

::= { rpPtrMonitorPortEntry 4 }

rpPtrMonitorPortFCSErrors OBJECT-TYPE

SYNTAX Counter
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION

"This counter is incremented by one for each frame received on this port with the FCSError signal asserted and the FramingError and CollisionEvent signals deasserted and whose OctetCount is greater than or equal to minFrameSize and less than or equal to maxFrameSize (Ref: 4.4.2.1, IEEE 802.3 Std).

The approximate minimum time for rollover of this counter is 80 hours."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aFrameCheckSequenceErrors."

::= { rpPtrMonitorPortEntry 5 }

rpPtrMonitorPortAlignmentErrors OBJECT-TYPE

SYNTAX Counter
 ACCESS read-only
 STATUS mandatory

DESCRIPTION

"This counter is incremented by one for each frame received on this port with the FCSError and FramingError signals asserted and CollisionEvent signal deasserted and whose OctetCount is greater than or equal to minFrameSize and less than or equal to maxFrameSize (Ref: IEEE 802.3 Std, 4.4.2.1). If rpTrMonitorPortAlignmentErrors is incremented then the rpTrMonitorPortFCSErrors Counter shall not be incremented for the same frame.

The approximate minimum time for rollover of this counter is 80 hours."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aAlignmentErrors."

::= { rpTrMonitorPortEntry 6 }

rpTrMonitorPortFrameTooLongs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory

DESCRIPTION

"This counter is incremented by one for each frame received on this port whose OctetCount is greater than maxFrameSize (Ref: 4.4.2.1, IEEE 802.3 Std). If rpTrMonitorPortFrameTooLongs is incremented then neither the rpTrMonitorPortAlignmentErrors nor the rpTrMonitorPortFCSErrors counter shall be incremented for the frame.

The approximate minimum time for rollover of this counter is 61 days."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aFramesTooLong."

::= { rpTrMonitorPortEntry 7 }

rpTrMonitorPortShortEvents OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory

DESCRIPTION

"This counter is incremented by one for each CarrierEvent on this port with ActivityDuration less than ShortEventMaxTime. ShortEventMaxTime is greater than 74 bit times and less than 82 bit

times. ShortEventMaxTime has tolerances included to provide for circuit losses between a conformance test point at the AUI and the measurement point within the state machine.

Note: shortEvents may indicate externally generated noise hits which will cause the repeater to transmit Runtts to its other ports, or propagate a collision (which may be late) back to the transmitting DTE and damaged frames to the rest of the network.

Implementors may wish to consider selecting the ShortEventMaxTime towards the lower end of the allowed tolerance range to accommodate bit losses suffered through physical channel devices not budgeted for within this standard.

The approximate minimum time for rollover of this counter is 16 hours."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aShortEvents."

::= { rpPtrMonitorPortEntry 8 }

rpPtrMonitorPortRuntts OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION

"This counter is incremented by one for each CarrierEvent on this port that meets one of the following two conditions. Only one test need be made. a) The ActivityDuration is greater than ShortEventMaxTime and less than ValidPacketMinTime and the CollisionEvent signal is deasserted. b) The OctetCount is less than 64, the ActivityDuration is greater than ShortEventMaxTime and the CollisionEvent signal is deasserted. ValidPacketMinTime is greater than or equal to 552 bit times and less than 565 bit times.

An event whose length is greater than 74 bit times but less than 82 bit times shall increment either the shortEvents counter or the runtts counter but not both. A CarrierEvent greater than or equal to 552 bit times but less than 565 bit times may or may not be counted as a runt.

ValidPacketMinTime has tolerances included to provide for circuit losses between a conformance test point at the AUI and the measurement point within the state machine.

Runts usually indicate collision fragments, a normal network event. In certain situations associated with large diameter networks a percentage of collision fragments may exceed ValidPacketMinTime.

The approximate minimum time for rollover of this counter is 16 hours."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aRunts."

```
::= { rptrMonitorPortEntry 9 }
```

rptrMonitorPortCollisions OBJECT-TYPE

```
SYNTAX      Counter
ACCESS      read-only
STATUS      mandatory
```

DESCRIPTION

"This counter is incremented by one for any CarrierEvent signal on any port for which the CollisionEvent signal on this port is also asserted.

The approximate minimum time for rollover of this counter is 16 hours."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aCollisions."

```
::= { rptrMonitorPortEntry 10 }
```

rptrMonitorPortLateEvents OBJECT-TYPE

```
SYNTAX      Counter
ACCESS      read-only
STATUS      mandatory
```

DESCRIPTION

"This counter is incremented by one for each CarrierEvent on this port in which the CollIn(X) variable transitions to the value SQE (Ref: 9.6.6.2, IEEE 802.3 Std) while the ActivityDuration is greater than the LateEventThreshold. Such a CarrierEvent is counted twice, as both a collision and as a lateEvent.

The LateEventThreshold is greater than 480 bit times and less than 565 bit times. LateEventThreshold has tolerances included to permit an implementation to build a single threshold to serve as both the LateEventThreshold and ValidPacketMinTime threshold.

The approximate minimum time for rollover of this counter is 81 hours."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aLateEvents."

::= { rptrMonitorPortEntry 11 }

rptrMonitorPortVeryLongEvents OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION

"This counter is incremented by one for each CarrierEvent on this port whose ActivityDuration is greater than the MAU Jabber Lockup Protection timer TW3 (Ref: 9.6.1 & 9.6.5, IEEE 802.3 Std). Other counters may be incremented as appropriate."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aVeryLongEvents."

::= { rptrMonitorPortEntry 12 }

rptrMonitorPortDataRateMismatches OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION

"This counter is incremented by one for each frame received on this port that meets all of the following conditions: a) The CollisionEvent signal is not asserted. b) The ActivityDuration is greater than ValidPacketMinTime. c) The frequency (data rate) is detectably mismatched from the local transmit frequency. The exact degree of mismatch is vendor specific and is to be defined by the vendor for conformance testing.

When this event occurs, other counters whose increment conditions were satisfied may or may not also be incremented, at the implementor's discretion. Whether or not the repeater was able

to maintain data integrity is beyond the scope of this standard."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aDataRateMismatches."

::= { rpPtrMonitorPortEntry 13 }

rpPtrMonitorPortAutoPartitions OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory

DESCRIPTION

"This counter is incremented by one for each time the repeater has automatically partitioned this port. The conditions that cause port partitioning are specified in the partition state machine in Section 9 [IEEE 802.3 Std]. They are not differentiated here."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aAutoPartitions."

::= { rpPtrMonitorPortEntry 14 }

rpPtrMonitorPortTotalErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory

DESCRIPTION

"The total number of errors which have occurred on this port. This counter is the summation of the values of other error counters (for the same port), namely:

rpPtrMonitorPortFCSErrors,
rpPtrMonitorPortAlignmentErrors,
rpPtrMonitorPortFrameTooLongs,
rpPtrMonitorPortShortEvents,
rpPtrMonitorPortLateEvents,
rpPtrMonitorPortVeryLongEvents, and
rpPtrMonitorPortDataRateMismatches.

This counter is redundant in the sense that it is the summation of information already available through other objects. However, it is included specifically because the regular retrieval of this object as a means of tracking the health of a port provides a considerable optimization of network management traffic over the otherwise necessary

```

    retrieval of the summed counters."
 ::= { rpPtrMonitorPortEntry 15 }

```

```

--
--                               The ADDRESS TRACKING GROUP
--
-- Implementation of this group is optional; it is appropriate
-- for all systems which have the necessary instrumentation.  If a
-- managed repeater implements any part of this group, the entire
-- group shall be implemented.

```

```

--
-- The Port Address Tracking Table
--

```

```

rpPtrAddrTrackTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RptrAddrTrackEntry
    ACCESS      not-accessible
    STATUS      mandatory
    DESCRIPTION
        "Table of address mapping information about the
        ports."
    ::= { rpPtrAddrTrackPortInfo 1 }

```

```

rpPtrAddrTrackEntry OBJECT-TYPE
    SYNTAX      RptrAddrTrackEntry
    ACCESS      not-accessible
    STATUS      mandatory
    DESCRIPTION
        "An entry in the table, containing address mapping
        information about a single port."
    INDEX      { rpPtrAddrTrackGroupIndex, rpPtrAddrTrackPortIndex }
    ::= { rpPtrAddrTrackTable 1 }

```

```

RptrAddrTrackEntry ::=
    SEQUENCE {
        rpPtrAddrTrackGroupIndex
            INTEGER,
        rpPtrAddrTrackPortIndex
            INTEGER,
        rpPtrAddrTrackLastSourceAddress      -- DEPRECATED OBJECT
            MacAddress,
        rpPtrAddrTrackSourceAddrChanges
            Counter,
        rpPtrAddrTrackNewLastSrcAddress
            OCTET STRING
    }

```

rpPtrAddrTrackGroupIndex OBJECT-TYPE

SYNTAX INTEGER (1..1024)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"This object identifies the group containing the port for which this entry contains information."

::= { rpPtrAddrTrackEntry 1 }

rpPtrAddrTrackPortIndex OBJECT-TYPE

SYNTAX INTEGER (1..1024)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"This object identifies the port within the group for which this entry contains information."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aPortID."

::= { rpPtrAddrTrackEntry 2 }

rpPtrAddrTrackLastSourceAddress OBJECT-TYPE

SYNTAX MacAddress

ACCESS read-only

STATUS deprecated

DESCRIPTION

"This object is the SourceAddress of the last readable frame (i.e., counted by rpPtrMonitorPortReadableFrames) received by this port.

This object has been deprecated because its value is undefined when no frames have been observed on this port. The replacement object is rpPtrAddrTrackNewLastSrcAddress."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aLastSourceAddress."

::= { rpPtrAddrTrackEntry 3 }

rpPtrAddrTrackSourceAddrChanges OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"This counter is incremented by one for each time that the rpPtrAddrTrackLastSourceAddress attribute for this port has changed.

This may indicate whether a link is connected to a single DTE or another multi-user segment.

The approximate minimum time for rollover of this counter is 81 hours."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aSourceAddressChanges."

::= { rptrAddrTrackEntry 4 }

rptrAddrTrackNewLastSrcAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0 | 6))

ACCESS read-only

STATUS mandatory

DESCRIPTION

"This object is the SourceAddress of the last readable frame (i.e., counted by rptrMonitorPortReadableFrames) received by this port. If no frames have been received by this port since the agent began monitoring the port activity, the agent shall return a string of length zero."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.6.2, aLastSourceAddress."

::= { rptrAddrTrackEntry 5 }

-- Traps for use by Repeaters .

-- Traps are defined using the conventions in RFC 1215 [6].

rptrHealth TRAP-TYPE

ENTERPRISE snmpDot3RptrMgt

VARIABLES { rptrOperStatus }

DESCRIPTION

"The rptrHealth trap conveys information related to the operational status of the repeater. This trap is sent either when the value of rptrOperStatus changes, or upon completion of a non-disruptive test.

The rptrHealth trap must contain the rptrOperStatus object. The agent may optionally include the rptrHealthText object in the varBind list. See the rptrOperStatus and rptrHealthText objects for descriptions of the information that is sent.

The agent must throttle the generation of consecutive rptrHealth traps so that there is at least a five-second gap between traps of this type. When traps are throttled, they are dropped, not queued for sending at a future time. (Note that 'generating' a trap means sending to all configured recipients.)"

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.3.4, hubHealth notification."

::= 1

rptrGroupChange TRAP-TYPE
 ENTERPRISE snmpDot3RptrMgt
 VARIABLES { rptrGroupIndex }
 DESCRIPTION

"This trap is sent when a change occurs in the group structure of a repeater. This occurs only when a group is logically or physically removed from or added to a repeater. The varBind list contains the identifier of the group that was removed or added.

The agent must throttle the generation of consecutive rptrGroupChange traps for the same group so that there is at least a five-second gap between traps of this type. When traps are throttled, they are dropped, not queued for sending at a future time. (Note that 'generating' a trap means sending to all configured recipients.)"

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.3.4, groupMapChange notification."

::= 2

rptrResetEvent TRAP-TYPE
 ENTERPRISE snmpDot3RptrMgt
 VARIABLES { rptrOperStatus }
 DESCRIPTION

"The rptrResetEvent trap conveys information related to the operational status of the repeater. This trap is sent on completion of a repeater reset action. A repeater reset action is defined as an a transition to the START state of Fig 9-2 in section 9 [IEEE 802.3 Std], when triggered by a management command (e.g., an SNMP Set on the rptrReset object).

The agent must throttle the generation of consecutive rptrResetEvent traps so that there is at least a five-second gap between traps of this type. When traps are throttled, they are dropped, not queued for sending at a future time. (Note that 'generating' a trap means sending to all configured recipients.)

The rptrResetEvent trap is not sent when the agent restarts and sends an SNMP coldStart or warmStart trap. However, it is recommended that a repeater agent send the rptrOperStatus object as an optional object with its coldStart and warmStart trap PDUs.

The rptrOperStatus object must be included in the varbind list sent with this trap. The agent may optionally include the rptrHealthText object as well."

REFERENCE

"Reference IEEE 802.3 Rptr Mgt, 19.2.3.4, hubReset notification."

::= 3

END

4. Changes from RFC 1368

- (1) Added section 2.1.4, "Internal Ports and MAUs," that defines internal ports and clarifies how they may or may not be managed.
- (2) Noted that the failure list for rptrOperStatus is ordered highest priority first.
- (3) Clarified rptrReset description to indicate that the agent may briefly delay the reset action.
- (4) For rptrReset, clarified the actions that the agent should take after performing the reset and self-test.
- (5) For rptrNonDisruptTest, similar change to (3).
- (6) Clarified that the rptrNonDisruptTest description allows returning "ok" after doing only a trivial test.
- (7) Deprecated rptrAddrTrackLastSourceAddress and defined a

replacement object that has a zero-length value until the first frame is seen on the port.

- (8) Clarified that rptrHealth trap is sent after rptrNonDisruptTest even if repeater health information doesn't change as a result of the test.
- (9) Clarified text on throttling traps.

5. Acknowledgments

This document is the work of the IETF Hub MIB Working Group. It is based on drafts of the IEEE 802.3 Repeater Management Task Force.

6. References

- [1] Rose M., and K. McCloghrie, "Structure and Identification of Management Information for TCP/IP-based internets", STD 16, RFC 1155, Performance Systems International, Hughes LAN Systems, May 1990.
- [2] Case, J., Fedor, M., Schoffstall, M., and J. Davin, "Simple Network Management Protocol", STD 15, RFC 1157, SNMP Research, Performance Systems International, Performance Systems International, MIT Laboratory for Computer Science, May 1990.
- [3] McCloghrie K., and M. Rose, Editors, "Management Information Base for Network Management of TCP/IP-based internets", STD 17, RFC 1213, Performance Systems International, March 1991.
- [4] Information processing systems - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1), International Organization for Standardization, International Standard 8824, December 1987.
- [5] Rose, M., and K. McCloghrie, Editors, "Concise MIB Definitions", STD 16, RFC 1212, Performance Systems International, Hughes LAN Systems, March 1991.
- [6] Rose, M., Editor, "A Convention for Defining Traps for use with the SNMP", RFC 1215, Performance Systems International, March 1991.
- [7] IEEE 802.3/ISO 8802-3 - Information processing systems - Local area networks - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications, 2nd edition, 21 September 1990.

- [8] IEEE P802.3K - Layer Management for 10 Mb/s Baseband Repeaters, Section 19, Draft Supplement to ANSI/IEEE 802.3, Draft 8, 9 April 1992.

7. Security Considerations

Security issues are not discussed in this memo.

8. Authors' Addresses

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1 Full

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)	Art Unit:
)	
Lakshmi Arunachalam)	Examiner
)	
Serial No. 11/980,185)	
)	
Filing Date: Oct. 30, 2007)	
)	
Title: METHOD AND APPARATUS)	
FOR ENABLING REAL TIME)	
TRANSACTIONS ON A)	
NETWORK)	
)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Honorable Commissioner:

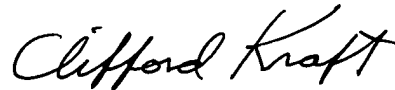
In accordance with 37 C.F.R. §1.97, please accept this Information Disclosure Statement and copies of any non-US patent material. This disclosure contains Appendices A-C supplied in the inter partes reexamination request by Microsoft Corporation of parent patent 7,340,506. The inter partes reexamination control number is 95/001,129. The request for this reexamination was supplied in the present case in a previous information disclosure statement.

This information was not available previously.

COMMENTS

It is believed that this disclosure complies with 37 C.F.R. §1.56 and 1.98 and M.P.E.P. §2000. This disclosure statement should not be construed as a representation that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(a) exists. A copy of each non-US patent reference is being supplied. Some references may contain marks; no significance should be attached to these.

Respectfully submitted



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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 with sufficient postage.

On: JAN. 15, 2009

By: Clifford Kraft

Name: Clifford H. Kraft

Exhibit 5 to the Request for Inter Partes Re-examination of

In re Patent No: 7,340,506

Issued: March 4, 2008

Filed: February 23, 2001

Applicant: Lakshmi Arunachalam

Title: Value-Added Network Switching and Object Routing

21# 30 16/0

488-101A

00/168519

Amr D17



PATENT
ATTORNEY DOCKET NO: 06105/002001

DIGITAL ACTIVE ADVERTISING
BACKGROUND OF THE INVENTION

5 The recent rapid growth of information applications
on international public packet-switched computer networks
such as the Internet suggests that public computer networks
have the potential to establish a new kind of open
marketplace for goods and services. Such a marketplace
10 could be created with a network sales system that comprises
a plurality of buyer and merchant computers, means for the
users of the buyer computers to display digital
advertisements from the merchant computers, and means for
the users to purchase products described by the
15 advertisements.

A network based sales system will need to allow
users to preview products at little or no cost, and will
need to make a large number of product advertisements
available in a convenient manner. In addition, the shopping
20 system will need to include easy-to-use facilities for a
user to purchase desired products using a merchant
independent payment method. In addition the network sales
will need to allow new buyers and merchants to enter the
market.

25 A central requirement for a marketplace is a payment
mechanism, but at present no merchant independent payment

2

mechanism is available for computer networks that permits users to utilize conventional financial instruments such as credit cards, debit cards, and demand deposit account balances. We expect that both retail payment and wholesale
5 payment mechanisms will be required for networks, with consumers using the retail mechanism for modest size purchases, and institutions using the wholesale mechanism for performing settlement between trading partners. For wide acceptance the retail mechanism will need to be a
10 logical evolution of existing credit-card, debit-card, and Automated Clearing House facilities, while for acceptance the wholesale mechanism will need to be an evolved version of corporate electronic funds transfer.

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These problems-~~of~~ have been approached in the past
15 by network based sales systems wherein, for example, each merchant maintains an account for each user. A user must establish an account with each merchant in advance in order to be able to utilize the merchant. The prior art network based sales systems are not designed to allow users to use
20 their existing credit card and demand deposit accounts for payment, nor are they designed to allow for programs to be included in digital advertisements.

a

According^{ly}, therefore, it is a primary objective of this invention to provide a user interactive network sales
25 system in which the user can freely use any merchant of

choice and utilize existing financial instruments for
payment. Other objects include a network sales system which
provides a high-quality user interface, which provides users
with a wide variety and large volume of advertisements,
5 which is easily extensible to new services, and which is
easily expanded to new applications within the existing
infrastructure of the system.

Still other objects of the invention are to provide
a network payment system that will authorize payment orders
10 and remove part of the risk of fraud from merchants.

An unavoidable property of public computer networks
is that they are comprised of switching, transmission, and
host computer components controlled by many individuals and
organizations. Thus it is impossible for a network payment
15 system to depend upon a specified minimum required degree of
software, hardware, and physical security for all of the
components in a public network. For example, secret keys
stored in a given user's personal computer can be
compromised, switches can be tampered with to redirect
20 traffic, and transmission facilities can be intercepted and
manipulated.

The risk of performing retail payment in a public
network is compounded by statutes that make a payment system
operator in part liable for the security lapses of its
25 users. Existing Federal statutes in the United States,

including the Electronic Funds Transfer Act and the Consumer Credit Protection Act, require the operator of a payment mechanism to limit consumer liability in many cases.

Payment system operators may have other fiduciary
5 responsibilities for wholesale transactions. Similar responsibilities exist in other countries for retail and wholesale transactions.

In existing credit card payment systems, a credit card's issuing bank takes on the fraud risk associated with
10 misuse of the card when a merchant follows established card acceptance protocols. Acceptance protocols can include verifying a card holder's signature on the back of their card and obtaining authorization for payments over a certain value. However, in network based commerce a merchant can
15 not physically examine a purchaser's credit card, and thus the fraud risk may revert to the merchant in so-called "card not present" transactions. Many merchants can not qualify
20 to take this risk because of their limited financial resources. Thus the invention is important to allow many merchants to participate in network based commerce.

Other objects of the invention include utilizing existing financial instruments such as credit cards, debit cards, and demand deposit accounts for merchant payments.

Existing network payment systems do not connect to
25 the financial system for authorization and are not

compatible with conventional financial instruments.

Existing network payment systems include the Simple Network
Payment Protocol (Dukach, S., SNPP: A Simple Network Payment
Protocol, MIT Laboratory for Computer Science, Cambridge,
MA, 1993), Sirbu's Internet Billing Server (Sirbu, M. A.,
Internet Billing Service Design and Prototype
Implementation, Information Networking Program, Carnegie-
Mellon University, 1993), and NetCash (Medvinsky, G., and
Newman, B. C., NetCash: A Design for Practical Electronic
10 Currency on the Internet, Proc. 1st ACM Conf. on Comp. and
Comm. Security, November, 1993).

A further object of the invention is to allow users
in an untrusted network environment to use conventional
financial instruments without requiring modification to
15 existing financial system networks.

The following definitions apply to the present
invention. A principal is a person, company, institution,
or other entity that is authorized to transact business as
part of a network payment system. A payment order describes
20 the identity of a sender, a payment amount, a beneficiary,
and a sender unique nonce. A sender is a principal making
a payment. A beneficiary is a principal to be paid by the
payment system. A sender unique nonce is an identifier that
is used only once by a given sender. An example of sender
25 unique nonces are unique timestamps. An external account is

an account that can be used to settle a payment order for either a sender or a beneficiary in the external financial system. Examples of external accounts include demand deposit accounts and credit card accounts. An external
5 device is a physical object that is kept in the possession of a user for the purpose of identifying the user.

A network payment system is a service that authorizes and executes digital payment orders that are backed by external accounts. A payment system authenticates
10 a payment order, checks for sufficient funds or credit, and then originates funds transfer transactions to carry out the payment order. A payment system acknowledges acceptance or rejection of a payment order. More than one payment
15 system may exist on a given network, and a given payment system may operate on more than one host to increase its reliability, availability, and performance. An authenticator is a digital value that is appended to a payment order and becomes part of the payment order that authenticates the payment order as genuine.

20 SUMMARY OF THE INVENTION

The invention relates to a network sales system for enabling users to purchase products using a plurality of buyer computers that communicate over a network with a plurality of merchant computers. Each merchant computer
25 has a database of digital advertisements. Each digital

advertisement includes a price and a product abstract.
Buyer computers request, display, and respond to digital
advertisements from merchant computers. Users can purchase
products with their buyer computers after they have
5 specified an account to pay for the purchase. A network
payment service is used to authorize the purchase before
merchant fulfillment is performed.

In a particular aspect of the invention, the merchant
computer can request account information when it is not
10 provided by the buyer computer. In another aspect of the
invention, the buyer computer can present to a merchant a
pre-authorized payment order that is obtained from a network
payment system.

In another aspect of the invention, an electronic
15 sales system contains digital advertisements that include
programs. The programs are executed on behalf of a user by
a buyer computer, and can lead to a purchase request
directed to a merchant computer that performs product
fulfillment.

20 In another aspect of the invention a network payment
system executes payment orders. A payment order includes a
sender, a beneficiary, a payment amount, and a nonce
identifier. A payment order is signed by a client computer
with an authenticator that is checked by the payment system.
25 Payment orders are backed by accounts in the banking

system, and are authorized by the network payment system, by
sending messages into a financial authorization network that
knows the status of these accounts. The payment system
accomplishes settlement by sending messages into an existing
5 financial system network.

In another aspect, payment orders are authenticated
based on the delivery address they specify. In another
aspect, the payment system will specify in its authorization
legal delivery addresses. In another aspect, authenticators
10 for payment orders are based on one-time transaction
identifiers that are known only to the user and the payment
system. In another aspect, payment orders for a given
sender are only accepted from certain client computer
network addresses. In another aspect, the network payment
15 system sends messages into a financial authorization system
in real-time before the network payment system will
authorize a payment order.

BRIEF DESCRIPTION OF THE DRAWINGS

Other objects, features, and advantages of the
20 invention will appear from the following description taken
together with the drawings in which:

Figure 1 is a block diagram of a typical network
sales system in accordance with the invention;

Figure 2 is a screen snapshot of a buyer computer
25 display of an overview page from a merchant computer;

Figure 3 is a screen snapshot of a buyer computer display of a page of digital advertisements from a merchant computer;

Figure 4 is a screen snapshot of a buyer computer display of an account query page;

Figure 5 is a screen snapshot of a buyer computer display of a fulfillment page;

Figure 6 is a flow chart illustrating the processing of a sale between a buyer computer and a merchant computer;

Figure 7 is a flow chart illustrating the alternate processing of payment order means for obtaining missing payment information;

Figure 8 is a screen snapshot of a buyer computer display of an overview page from a merchant computer that contains a query input by the user;

Figure 9 is a screen snapshot of a buyer computer display of digital advertisements in response to a user's query;

Figure 10 is a screen snapshot of a buyer computer screen of a purchase confirmation;

Figure 11 is a screen snapshot of a buyer display of a fulfillment page like Figure 5;

Figure 12 is a flow chart illustrating an alternate processing of a sale between a buyer computer and a merchant computer where a payment order is pre-authorized;

Figure 13 is a block diagram of a typical network payment system in accordance with the invention;

Figure 14 is a flow chart illustrating the authentication, authorization, and settlement of a payment order;

Figure 15 is a flow chart illustrating an alternate processing of the authentication and verification of a payment order where transaction identifiers are used; and

Figure 16 is a flow chart illustrating an alternate processing of the authorization of a payment order where real-time approval from the financial authorization network may not be obtained.

DESCRIPTION OF A PARTICULAR PREFERRED EMBODIMENT

A network sales system 200 as shown in Figure 1 employs a network 67 to interconnect a plurality of buyer computers 61 and 62, merchant computers 63 and 64, each merchant computer with respective digital advertisement databases 65 and 66, and a payment computer 68. A user of the system employs a buyer computer to retrieve advertisements from the merchant computers, and to purchase goods of interest. A payment computer is used to authorize a purchase transaction.

A digital advertisement includes a product description and a price. In digital advertisement database

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65 prices and descriptions may be stored separately, and one price may apply to many product descriptions.

In an alternate embodiment, the network sales system further includes external devices that are kept in the
5 possession of users so that the users can authenticate themselves when they use a buyer computer.

The software architecture underlying the particular preferred embodiment is based upon the hypertext conventions of the World Wide Web. Appendix A describes the Hypertext
10 Markup Language (HTML) document format used to represent digital advertisements, Appendix B describes the HTML forms fill out support in Mosaic 2.0, Appendix C is a description of the Hypertext Transfer Protocol (HTTP) between buyer and merchant computers, and Appendix D describes how documents
15 are named with Uniform Resource Locators (URLs) in the network of computers. A document is defined to be any type of digital data broadly construed, such as multimedia documents that include text, audio, and video, and documents that contain programs.

20 Figure 2 shows an overview screen that has been retrieved from a merchant computer by a buyer computer and displayed by the buyer computer. It includes links 1, 2, and 3 that when activated by a user cause the buyer's computer to take specified actions. In the case of link 1,
25 the document shown in Figure 3 is retrieved from a merchant

11

computer and displayed. In the case of link 2, a short audio segment is retrieved from a merchant computer and played. In the case of link 3, the query that can be entered into the query dialog box 4 is sent to a merchant computer, and a document is retrieved from the merchant computer and displayed.

Figure 3 shows a document that contains three digital advertisements. The digital advertisements have been retrieved from the merchant computer after the activation of link 3. The merchant computer may set the prices contained in the advertisements based on the on the identity of the user as determined, for example, by the network address of the requesting buyer computer. The document includes links 5, 6, and 7 that are used to purchase the products described by the advertisements. For example, if link 5 is activated the missing payment information document shown in Figure 4 is retrieved from the merchant computer and displayed.

Figure 4 is a missing payment information document that is used to gather user account information for the requested purchase in an HTML form. Radio buttons 8, 9, 10, 11, 12 are used to select a means of payment, dialog box 13 is used to enter an account number, dialog box 14 is used to enter an optional authenticator for the account, purchase button 15 is used to send the account information to the

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merchant computer and proceed with the purchase, link 16 is used to abort the purchase and return to the document shown in Figure 2, and dialog box 17 is used to enter optional user information that is associated with the purchase and ultimately used by a financial institution as part of a textual billing identifier for the purchase transaction. If provided, this additional information is included in the payment order for the purchase.

Figure 5 is a fulfillment document 18 that is produced once valid account information is provided to the missing payment information document in Figure 4 and purchase button 15 is activated.

Figure 6 is a flowchart that more fully describes the information flow in the purchase transaction shown in Figures 2 to 5. An initial user inquiry 19 from activating link 1 results in the HTTP request 20 for a specific document with a specified URL. The URL specifies the name of the merchant computer. The merchant computer retrieves the document given the URL at 21, and returns it to the buyer computer at 22. The buyer computer displays the resulting HTML document at 23. When the user activates link 5, an HTTP request 25 is sent to the merchant computer requesting the document.

In an alternate embodiment, document 22 is executed at 23 as a program. A program is defined as a set of

instructions that can exhibit conditional behavior based upon user actions or the environment of the buyer computer. As is known to those skilled in the art, there are many techniques for representing programs as data. The program
5 can be interpreted or it can be directly executed by the buyer computer. The program when executed will cause the buyer computer to interact with the user leading to the user purchase request 24, and the purchase message 25.

The merchant computer then attempts to construct a
10 payment order at 26 using the information it has gathered about the user. The buyer computer may have previously supplied certain credentials using fill out forms or other account identification means such as providing the network address of the buyer computer in the normal course of
15 communication. If the ^{merchant} ~~buyer~~ computer is able to construct a complete payment order at 26 the payment order is sent to a payment computer for authorization at 27. If a payment order can be constructed, processing continues at 28.

Alternatively, the buyer computer may construct the
20 payment order at 24 and send it to the merchant computer at 25. In this case, the payment order assembly steps at 26, at the merchant computer, may only need to forward the payment order from the buyer computer.

A payment order includes user account information,
25 merchant account information, an amount, and a nonce

identifier that has not been previously used for the same
user account. Variations of payment orders can be
constructed, including payment orders that specify user or
merchant identifiers in place of account information,
5 payment orders that specify a valid time period, payment
orders that specify foreign currencies, and payment orders
that include comment strings. Part of the process of
constructing a payment order is creating a corresponding
authenticator using one of the authenticator methods
10 described below.

In the illustrated embodiment of Figures 3 and 4,
the merchant computer does not have sufficient information
to construct a payment order at 26 and thus at 33 (Figure 7)
constructs and returns a missing payment information
15 document in response to request 25. Operation 33 includes
in the constructed document appropriate form fields based on
what information the merchant computer has already collected
from the user. The document is returned to the buyer
computer at 34 and is displayed at 35. When the user
20 presses the purchase button 15, the contents of the form are
transmitted to the merchant computer, at 36, to a specific
URL name, using an HTTP request. Based on the supplied form
fields, the merchant computer constructs a complete payment
order. Alternatively, the buyer computer may construct the
25 payment order at 35 and send it to the merchant computer as

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part of step 36. In this case, the payment order assembly steps 37 at the merchant computer simply passes on the payment order from the buyer computer. The payment order is sent to the payment computer in a message at 38.

5 In either case, the flowchart continues in Figure 6 where the payment computer checks the authorization of the payment order at 28. If the payment system authorizes the request, an authorization message at 29 is returned to the buyer computer, and the merchant computer checks at 30 that
10 the authorization message came from the payment computer using the authenticator mechanism described below. Assuming that the authorization message is valid, the merchant computer performs fulfillment at 30, returning the purchased product in response at 31. In our example in Figure 5 the
15 response at 31 is document 18 that was the logical target of link 5. If the payment system does not authorize the payment order then response 31 is a rejection of the user's purchase request.

20 In an alternate embodiment, step 30 can encrypt the document using a key that is known to the buyer computer. As is known to those skilled in the art, the key can be communicated to the merchant computer using convention^{a1} key distribution protocols. In this manner the document will be protected from disclosure to other users.

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The fulfillment step at 30 can alternatively schedule a physical product to be shipped via ordinary mail or other means. This can be accomplished by updating a fulfillment request database or by sending a message to a shipping system. In this case the response at 31 is a confirmation that the product has been scheduled to ship. In this way the network sales system can implement an electronic mail order system.

Figures 8, 9, 10, and 11 show a second example that uses query based access to digital advertisements. It is assumed that the previous example was used by the user immediately before at the same buyer computer.

Figure 8 shows the overview screen where the query "movie review" has been entered into dialog box 39. When the user activates process button 40, the merchant searches databases as described by the URL attached to button 40, and creates a response document as shown in Figure 9.

Figure 9 shows digital advertisements 39, 40, 41, 42, 43, and 44 that were found in response to the query initiated by button 40. A scroll bar 45 shows that there are additional digital advertisements that are not shown. When link 46 is activated, the missing account information document shown in Figure 10 is returned by the merchant computer.

Figure 10 shows that the merchant computer has partial information on the buyer's account. Message 47 shows that the merchant computer already knows the buyer's account number. Purchase button 48 will send the optional user reference string in dialog box 50 to the merchant computer described by the URL behind button 48 and purchase the product corresponding to digital advertisement 39. Cancel link 49 will return the user to the document shown in Figure 2.

10 When purchase button 48 is activated, a document 51 is sent by the merchant computer and displayed by the buyer computer as shown in Figure 11.

 Figure 12 shows an alternative method of processing a sales transaction. In this method when the user requests a purchase at 52, the buyer computer constructs a payment order at 53 and sends it for approval to the payment computer at 54. The payment computer authorizes the payment order at 55; and when the payment order is authorized, returns an unforgeable certificate at 56 that the payment order is valid. Means of creating such unforgeable certificates are described in authenticator method number one below. If at step 55 the payment order is not authorized, a rejection message is sent at 56 and the sales transaction is terminated.

The buyer computer then proceeds at 57 to send a pre-authorized purchase request to the merchant computer. The unforgeable certificate 56 is included in a purchase message at 57 that is sent at 58 to the merchant computer.

5 Based upon the pre-authorized payment order the merchant computer performs fulfillment at 59 and returns the product at 60. In a variation, the merchant computer at 59 checks to ensure the payment order has not been previously used. This can be accomplished by checking with a payment computer
10 or maintaining a merchant computer database of previously accepted payment orders. The unforgeable certificate created at step 56 does not need to include the user account information. This variation is useful if the user wishes to make purchases and remain anonymous to the merchant.

15 A Network Payment System

A network payment system 300 as shown in Figure 13, employs a public packet-switched network 69 to interconnect a plurality of client computers 70 and 71, and a plurality of payment computers such as 72, each payment computer
20 having an account database 73, a settlement database 74, an authorized address database 75, a sender credential database 76, a financial system interface 77, and a real-time authorization interface 78. The interfaces 77 and 78 may be implemented by a single communications line.

20

In an alternate embodiment, the network payment system further includes external devices that are kept in the possession of users so that the users can authenticate themselves when they use a buyer computer.

5 Account database 73 maintains temporal spending amounts, such as the amount spent in the current day, and also maintains temporal spending limits. The account database may also maintain a translation between principal identifiers and external account identifiers. Settlement
10 database 74 records committed payment orders along with any authorization information for the orders that was obtained from interface 78. Address database 75 maintains for each sender a list of authorized buyer computer and delivery addresses. Credential database 76 maintains a list of
15 credentials for principals and information that can be used to authenticate principals.

Figure 14 is a flowchart that describes the operation of the payment system. A client computer 71 constructs a payment order at 79, and computes and adds an
20 authenticator to the payment order at 80. The payment order is sent at 81 to a payment computer, where the authenticator is verified at 82 to ensure that the payment order was originated by the sender it describes. Below we present different means of implementing 80 and 82.

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If the payment order is authentic and address restrictions are desired, at 83, either or both of the client computer address or the specified delivery address can be checked against address database 75. If address
5 restrictions are desired and if the addresses in the payment order are not in the database, the payment computer sends a rejection message to the client computer. Address database 75 specifies, for each principal, acceptable client computer addresses and delivery addresses. A delivery
10 address can be a network address, or a street address for packaged goods. As is known in the art, database 75 can include wild-card specifications and similar techniques to reduce its size. For example, database 75 could contain an entry for principal identifier "*@acme.com" restricting
15 legal delivery addresses to "computer: *.com", "computer: cmu.edu", and "surface: *, 34 Main Street, Anytown, USA", indicating that any user at the company Acme can order products to be delivered to the network address at Acme or the university CMU, or to anyone at 34 Main Street, Anytown,
20 USA.

If payment order address restrictions are not desired or have been checked, processing continues at 84 where the payment order is checked for replay and temporal spending limits. Replay is checked for by making sure that
25 the sender did not previously present a payment order with

the same nonce by checking an index of committed payment orders by nonce in settlement database 74. If nonces are based on time, then a payment order that is older than an administratively determined value can be rejected out of
5 hand. Time based nonces or sequential nonces permit old nonces to be removed from the settlement database 74. If a payment order has been previously processed or its nonce is too old, the payment order computer sends a rejection message to the client.

10 After the payment order passes the replay check, temporal spending limits are checked in account database 73. These spending limits can be applied on a per sender, per group of senders, and per payment system basis to limit fraud risk. The limits can be applied to any duration of
15 time, for example a maximum spending amount per hour or per day. If the payment order would violate a spending limit, the payment computer sends a rejection message to the client.

Once the payment order passes the temporal spending
20 check at 84, a message is constructed at 85 to check that the external account that backs the sender's payment system account has adequate funds or credit. If the sender identifier in the payment order is not already an account number in the external financial system, it is translated
25 into a corresponding account number in the external

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financial system using account database 73. A real-time
authorization request message is sent at 86 to the external
financial system over interface 78. If the external
financial system approves authorization request 86, an
5 authorization message is returned at 87. If request 86 is
not approved, the ^{external financial system} ~~payment computer~~ sends a rejection message
to ^{payment computer} ~~the client~~ at 87.

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In a variation of the above described approach,
processing continues at 95 after 84. At 95 real-time
10 authorization is only obtained when the total of a sender's
payments since the last real-time authorization reaches a
preset value, or the payment order is over a preset amount.
These preset values can be optionally recorded on a per
principal basis in database 73. or can be administratively
15 determined for all principals. In this manner, the number
of messages to the external financial system can be reduced.
In addition, the payment system can avoid making real-time
authorization requests for small payments when the risk is
acceptable to the payment system operator. If real-time
20 authorization is necessary, processing continues at 85 after
95. If real-time authorization is not necessary for a
request, at 100 the payment order amount is added to the
sender's total of payments since the last real-time
authorization in database 73, and processing continues at
25 88.

24

In another variation after 100 a check is made at
101 in database 73 to see if a background authorization
process should be scheduled. A background authorization
process permits the payment computer to continue its normal
5 processing while it checks with the financial authorization
network on the sender's account. This mechanism can be used
to limit payment system risk. If the background
authorization fails, the account is suspended by so updating
database 73. If the sender's total of payments since last
10 authorization is over a preset value stored in 73 then a
background authorization process is scheduled at 102.
Otherwise processing continues at 88.

In another variation, at 95 and 101 authorizations
are obtained based on the amount spent since last
15 authorization and time since last authorization.

At 88 the payment order is committed to execution
and is recorded in settlement database 74. Recorded with
the payment order in database 74 are portions of
C ~~authentication~~ ^{authorizations} message 87 that show that the payment
20 computer contacted the remote financial system. The amount
of the payment order is added to running temporal spending
records in database 73, and an authorization message is sent
to the client computer at 90. The authorization message
includes the payment order. In an alternate embodiment, at
25 90 the authorization message contains a truncated payment

order that includes at least the payment order's sender and the payment order's unique nonce.

In an alternate embodiment, the authorization message sent to the client at 90 includes at least one legal
5 delivery addresses for the sender as determined from database 75.

Authorization message 90 must be transmitted in such a way that the client computer can be sure that it came from the payment computer. At 89 a payment system specific
10 authenticator is added payment order. At 91 this authenticator is checked by the client computer. The steps at 89 are a dual of step 80; and the steps at 91 are a dual of step 82. The authentication means for steps 89 and 91 are described below.

15 Finally, settlement is performed at 92 in the external financial system 77 between external accounts that correspond to the sender and the beneficiary. If settlement is accomplished as part of real-time authorization at steps
20 86 and 87, as may occur in a real-time debit network, then no other steps need to be taken. If settlement is not accomplished as part of the authorization process, then financial system messages are sent to interface 77 to effect settlement. Depending on the external accounts involved, these messages may include electronic funds transfer
25 messages or automated clearinghouse messages.

26

In an alternate embodiment, at 92 settlement messages are sent to reconcile net transfer balances between principles on a temporal basis, for example once a day. In this embodiment the number of settlement messages can be less than the number of payment orders.

Authenticators may be created and checked using one of the following methods. The payment computer can use any of the first four methods, and the client computer can use any of the methods described.

In a first method for authenticators, at steps 80 or 89, a digest of the payment order is signed by the sending computer using a public-key cryptographic system such as RSA. This signature is used as the authenticator. As is well known in the art, the signing can be accomplished using a private key created from a public-key pair, where the signing key is only known by the signer, and the other public key is known to the receiving computer. At the payment computer the public key corresponding to each sender is kept in credential database 76. The private key for the payment service is also kept in database 76. At steps 82 or 91, the signature of the received message is checked using the public key known to the receiving computer.

In a second method for authenticators, at steps 80 or 89, a digest of the payment order is signed by the sending computer with a private key cryptosystem such as

DES. This signature is used as the authenticator. At the payment computer, the private key corresponding to each sender is kept in credential database 76. At step 80, a digest of the payment order is signed by the client
5 computer, and at step 89 a digest of the payment order with an added approval code is signed by the payment computer using the same private key. At steps 82 or 91, the signature of the received message is checked using the shared private key.

10 In a third method for authenticators, at step 80 the authenticator is computed by a protected device external to the system such as a Smart-Card. A protected device is specifically designed to be extremely difficult both to replicate and to compromise. In this method, the payment
15 order is communicated at 80 to a Smart-Card. The Smart-Card computes and signs a digest of the payment order, and then communicates the signature back at 80 to be used as an authenticator. A Smart-Card produced authenticator uniquely associates a payment order with its creating Smart-Card.
20 This is accomplished by having the Smart-Card contain a secret key "K" that is used to create a digital signature of the payment order. "K" is never released outside of the Smart-card. The Smart-Card is designed to make it computationally infeasible to compute "K" even with
25 possession of the device. In this method, at step 82, a

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signature checking key from database 76 is used to check the authenticator. In an alternate embodiment, a user must manually signal their acceptance of each payment order on an input device that is part of the external device before the authenticator is created by the external device.

In a fourth method for authenticators, at steps 80 or 89, a network address is used as an authenticator. At steps 82 or 91, a digest of the payment order is sent back to the specified network address along with a random password. The computer at the specified network address must then return the payment order digest along with the password. If the network guarantees to deliver messages to the proper network address, this method will guarantee that the user or computer at the specified network address approves of the payment order. Assuming that network delivery is trusted, this method can be used to authenticate a sender computer's network address in a payment order. Alternatively, electronic mail can be used to send such confirmation messages between a user and the payment system.

In a fifth method for authenticators, at step 80, the authenticator is produced by an external device that produces a sequence of non-predicable transaction identifiers that are device specific. The authenticator is entered by the user into the client computer by reading its

display. One such device is described in U.S. Patent
4,856,062. According to this method, at step 91, the
authenticator can be checked using the sender specific fixed
code of the device which is kept in database 76. This
5 sequence of steps is also shown in Figure 15 at steps 93 and
94.

In a sixth method for authenticators, at step 80,
the authenticator is obtained by querying the user for a
transaction identifier that is the next string from a
10 physical list of one-time authorization strings. Such as
list could be produced on a card, and the user can cross off
authorization strings as they are used. According to this
method, at step 91, the authenticator is checked against the
next expected string from the sender using database 76.
15 Database 76 can hold for each sender a list of random
authorization strings, or can hold a sender specific secret
key that was used to generate the list of authentication
strings along with how many strings have been used so far.
This sequence of steps is also shown in Figure 15 at 93 and
20 94.

In a seventh method for authenticators, at step 80
the authenticator is a previously obtained personal
identification number (PIN) for the user. In this method in
91 the authenticator is checked against the expected PIN for
25 the sender using database 76.

As will be obvious to one skilled in the art, any of the methods for creating authenticators can be used together to increase system security. For example, authenticator method six can be used to create an authenticator based on a transaction identifier, and then a payment order including a transaction identifier can be given a further authenticator using authenticator method one. In this example the resulting authenticators would be checked with their respective methods.

10 A digest of a payment order can be created with an
a algorithm such as MD5 (R. Rivest, The MD5 Message-Digest
a Algorithm, MIT Laboratory for Computer Science, Network
Working Group Request for Comments 1321). Alternatively, a
15 digest can be the entire payment order or other functions of
the payment order's component parts.

In addition in both the sales and payment systems alternate authenticator techniques can be used such as those described by Voydock and Kent in "Security Mechanisms in High-level Network Protocols", Computing Surveys Vol. 15, No. 2, June 1983. As will be appreciated by those skilled in the art, two-way authenticated byte-stream or remote procedure call interface connections that protect against replay can replace our message based authenticators.

25 Additions, subtractions, deletions, and other
modifications of the described embodiment will be apparent.

to those practiced in the art and are within the scope of
the following claims.

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What is claimed is:

add 21
add B1-21
add C1-21
add 27

1. A network sales system comprising
a plurality of buyer computers and at least one
merchant computer interconnected by a communications
network,
means at each merchant computer for maintaining and
providing a database of digital advertisements comprising
means for storing said digital advertisements, each
digital advertisement including a product abstract,
means for communicating a digital advertisement to a
buyer computer over said network in response to a network
request from said buyer computer,
means at each buyer computer for requesting,
displaying, and responding to digital advertisements
comprising
means responsive to a user inquiry for selecting a
merchant computer and obtaining a digital advertisement for
a product from said database of advertisements at said
merchant computer,
display means for displaying said advertisement,
purchase means responsive to a user request for
communicating a purchase message to said merchant computer,
account identification means for transmitting the
user's account information to said merchant computer,

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24 means, at said merchant computer, comprising
25 authorization means to authorize said purchase
26 message by sending messages into a financial system network,
27 fulfillment means to send said product to user
28 conditional on approval of said authorization means.

1 2. The network sales system of claim 1 further
2 wherein said authorization means at said merchant computer
3 comprises
4 means for communicating a missing payment
5 information request message to said buyer computer to obtain
6 missing payment information,
7 means for receiving said missing payment information
8 from said buyer computer,
9 means for authorizing said purchase message by
10 sending messages into a financial system network,
11 and said account identification means at said buyer
12 computer comprises
13 means responsive to said missing payment information
14 request message to query the user for additional payment
15 information,
16 means to send said additional payment information to
17 said merchant computer.

1 3. The network sales system of claim 1 further
2 wherein said account identification means comprises
3 means for assembling a payment order,
4 means for sending said payment order to a network
5 payment system for authorization,
6 and wherein said authorization means comprises
7 means for verifying that said payment order has been
8 previously authorized by said payment system.

1 4. An electronic sales system comprising
2 means for storing a database of digital
3 advertisements, each digital advertisement for a product
4 including a program,
5 means for communicating a digital advertisement to a
6 buyer computer,
7 means at said buyer computer for displaying and
8 responding to said digital advertisement comprising
9 display means for displaying said digital
10 advertisement by executing a portion of said advertisement
11 as a program and performing actions as specified by said
12 program,
13 purchase means responsive to a user request for
14 communicating a purchase message to a merchant computer,
15 means, at said merchant computer, comprising
16 fulfillment means to send said product to user.

1 5. A network payment system comprising
2 a plurality of client computers and at least one
3 payment computer interconnected by a public packet switched
4 communications network,
5 means at a client computer for performing payment
6 comprising
7 payment specification means for constructing
8 a payment order from a sender to a beneficiary,
9 signing means for authenticating said payment
10 order as originating from said sender,
11 means for sending said payment order to a payment
12 computer,
13 means for receiving a payment order authorization
14 message from said payment computer,
15 means responsive to a payment order message at said
16 payment computer comprising
17 verification means for verifying that said sender
18 originated said payment order,
19 authorization means for sending a message into a financial
20 authorization network to verify that said sender has
21 adequate funds or credit and receiving an authorization in
22 response,
23 means for recording said payment order and
24 authorization in a settlement database,

25 response means for sending an authorization
26 message to said client computer,

27 means for sending at least one message into a
28 financial system network to transfer funds from said sender
29 to said beneficiary.

1 6. The network payment system of claim 5 further
2 wherein said payment specification means comprises
3 means for constructing a payment order, said payment
4 order including a delivery address,
5 and said verification means comprises
6 means for verifying that said sender originated said
7 payment order and checking said delivery address against a
8 database of allowed delivery addresses for said sender.

1 7. The network payment system of claim 5 further
2 wherein said response means comprises
3 means for determining allowed delivery addresses for
4 said sender,
5 means for sending an authorization message to said
6 client computer that includes allowed delivery addresses.

1 8. The network payment system of claim 5 further
2 wherein said signing means comprises

3 means for generating the next expected transaction
4 identifier for said sender and using it to create an
5 authenticator,
6 and wherein said verification means comprises
7 means for generating the next expected transaction
8 identifier for said sender, and
9 means for verifying that said authenticator was
10 created using said transaction identifier.

1 9. The network payment system of claim 5 further
2 wherein said signing means comprises
3 means for generating an authenticator using an
4 external device,
5 and wherein said verification means comprises
6 means for verifying that said authenticator was
7 created using said external device.

1 10. The network payment system of claim 5 further
2 wherein said payment specification means comprises
3 means for constructing a payment order from a
4 sender, said payment order including a client computer's
5 network address,
6 and said verification means comprises
7 means for verifying said payment order was
8 constructed at said client computer's network address and

9 checking said client address against a database of allowed
10 client addresses for said sender.

1 11. The network payment system of claim 5 further
2 wherein said authorization means comprises
3 determination means for determining the necessity
4 for real-time authorization,
5 means for performing real-time authorization
6 conditioned on said determination means.

1 12. A method for effecting sales over a network
2 sales system having a plurality of buyer computers and at
3 least one merchant computer interconnected by a
4 communications network, encompassing the steps of
5 maintaining and providing a database of digital
6 advertisements at each merchant computer
7 storing said digital advertisements, each digital
8 advertisement including a product abstract,
9 communicating a digital advertisement to a buyer
10 computer over said network in response to a network request
11 from said buyer computer,
12 requesting, displaying, and responding at each buyer
13 computer to digital advertisements comprising the steps of
14 selecting in response to a user inquiry a merchant
15 computer and obtaining a digital advertisement for a product

16 from said database of advertisements at said merchant
17 computer,
18 displaying said advertisement,
19 communicating in response to a user request a
20 purchase message to said merchant computer,
21 transmitting the user's account information to said
22 merchant computer,
23 authorizing at said merchant computer said purchase
24 message by sending messages into a financial system network,
25 and
26 sending said product to said user conditional on
27 approval from said authorizing step.

1 13. The network sales method of claim 12 further
2 wherein said authorizing step, at said merchant computer,
3 comprises the steps of
4 communicating a missing payment information request
5 message to said buyer computer to obtain missing payment
6 information,
7 receiving said missing payment information from said
8 buyer computer,
9 authorizing said purchase message by sending
10 messages into a financial system network,
11 and said account identification step at said buyer
12 computer comprising the steps of

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13 querying the user for additional payment information
14 responsive to said missing payment information request
15 message,
16 and sending said additional payment information to
17 said merchant computer.

1 14. The network sales method of claim 12 further
2 wherein said account identification step comprises the steps
3 of
4 assembling a payment order, and
5 sending said payment order to a network payment
6 system for authorization,
7 and wherein said authorization step comprises the
8 step of
9 verifying that said payment order has been
10 previously authorized by said payment system.

1 15. An electronic sales method comprising the steps
2 of
3 storing a database of digital advertisements, each
4 digital advertisement for a product including a program,
5 communicating a digital advertisement to a buyer
6 computer,
7 displaying and responding to said digital
8 advertisement at said buyer computer comprising the steps of

9 displaying said digital advertisement by executing a
10 portion of said advertisement as a program and performing
11 actions as specified by said program,
12 communicating a purchase message in response to a user
13 request to a merchant computer,
14 sending at said merchant computer said product to
15 user.

1 16. A network payment method comprising the steps
2 of interconnecting a plurality of client computers and at
3 least one payment computer by a public packet switched
4 communications network,
5 performing payment at a client computer comprising
6 the steps of
7 constructing a payment order from a sender to a
8 beneficiary,
9 authenticating said payment order as originating
10 from said sender,
11 sending said payment order to a payment computer,
12 and receiving a payment order authorization message
13 from said payment computer,
14 responding to a payment order message at said
15 payment computer comprising the steps of
16 verifying that said sender originated said payment
17 order,

18 sending a message into a financial authorization
19 network to verify that said sender has adequate funds or
20 credit and receiving an authorization in response,
21 recording said payment order and authorization in a
22 settlement database,
23 sending an authorization message to said client
24 computer,
25 and sending at least one message into a financial
26 system network to transfer funds from said sender to said
27 beneficiary.

1 17. The network payment system of claim 16 further
2 wherein said constructing step means comprises the steps of
3 constructing a payment order, said payment order
4 including a delivery address,
5 and said verifying step comprises the steps of
6 verifying that said sender originated said payment
7 order, and
8 checking said delivery address against a database of
9 allowed delivery addresses for said sender.

1 18. The network payment method of claim 16 further
2 wherein said second sending step comprises the steps of
3 determining allowed delivery addresses for said
4 sender,

5 and sending an authorization message to said client
6 computer that includes allowed delivery addresses.

1 19. The network payment method of claim 16 further
2 wherein said authenticating step comprises the steps of
3 generating the next expected transaction identifier
4 for said sender and using it to create an authenticator,
5 and wherein said verifying step comprises the steps
6 of
7 generating the next expected transaction identifier
8 for said sender,
9 and verifying that said authenticator was created
10 using said transaction identifier.

1 20. The network payment method of claim 16 further
2 wherein said authentication step comprises the step of
3 generating an authenticator using an external
4 device,
5 and wherein said verifying step comprises the steps
6 of
7 verifying that said authenticator was created using
8 said external device.

1 21. The network payment method of claim 16 further
2 wherein said constructing step comprises the step of

3 constructing a payment order from a sender, said
4 payment order including a client computer's network address,
5 and said verifying step means comprises the steps of
6 verifying said payment order was constructed at said
7 client computer's network address,
8 and checking said client address against a database
9 of allowed client addresses for said sender.

1 22. The network payment method of claim 16 further
2 wherein said second sending step comprises the steps of
3 determining the necessity for real-time
4 authorization,
5 and performing real-time authorization conditioned
6 on its determined necessity.

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APPENDIX A - PAYNE AND RELATED REFERENCES

El. #	Claim	U.S. Patent No. 5,715,314 to Payne <i>et al.</i> , and related references ¹
1	1. A method for providing a service over a digital network, the method comprising:	<p>PAYNE: Payne discloses a method for providing a service over a digital network:</p> <p>“Network sales system” (Payne, Title)²</p> <p>“A network-based sales system includes at least one buyer computer for operation by a user desiring to buy a product, at least one merchant computer, and at least one payment computer. The buyer computer, the merchant computer, and the payment computer are interconnected by a computer network. . . .”</p> <p>(<i>Id.</i>, Abstract)</p> <p>“This invention relates to user-interactive network sales systems for implementing an open marketplace for goods or services over computer networks such as the Internet.”</p> <p>(<i>Id.</i>, Col. 1, lines 14-16)</p> <p>“The software architecture underlying the particular preferred embodiment is based upon the hypertext conventions of the World Wide Web. Appendix A describes the Hypertext Markup Language (HTML) document format used to represent digital advertisements, Appendix B describes the HTML forms fill out support in Mosaic 2.0, Appendix C is a description of the Hypertext Transfer Protocol (HTTP) between buyer and merchant computers, Appendix D describes how documents are named with Uniform Resource Locators (URLs”) in the network of computers, and Appendix E describes</p>

¹ Payne specifically incorporates “the entire disclosure” of United States Patent Application No. 08/168,519, filed Dec. 16, 1993 by David K. Gifford (the “’519 Application”), into its specification, and thus the ‘519 Application is considered part of the Payne reference for § 102 purposes. For material cited in the ‘519 Application, this chart includes parallel cites both to the ‘519 Application, and to United States Patent No. 5,724,424 to David K. Gifford (“Gifford”), which is a continuation of the ‘519 Application. While Payne (including the material incorporated from the ‘519 Application) anticipates each of the claims of the ‘506 Patent, the claims are also obvious over Payne in view of Gifford. It would have been obvious to one of ordinary skill in the art to combine Payne with Gifford because Payne specifically incorporates the application to which Gifford claims priority as part of its own specification, and the teachings in the two patents are thus closely related.

² Emphases added throughout.

APPENDIX A - PAYNE AND RELATED REFERENCES

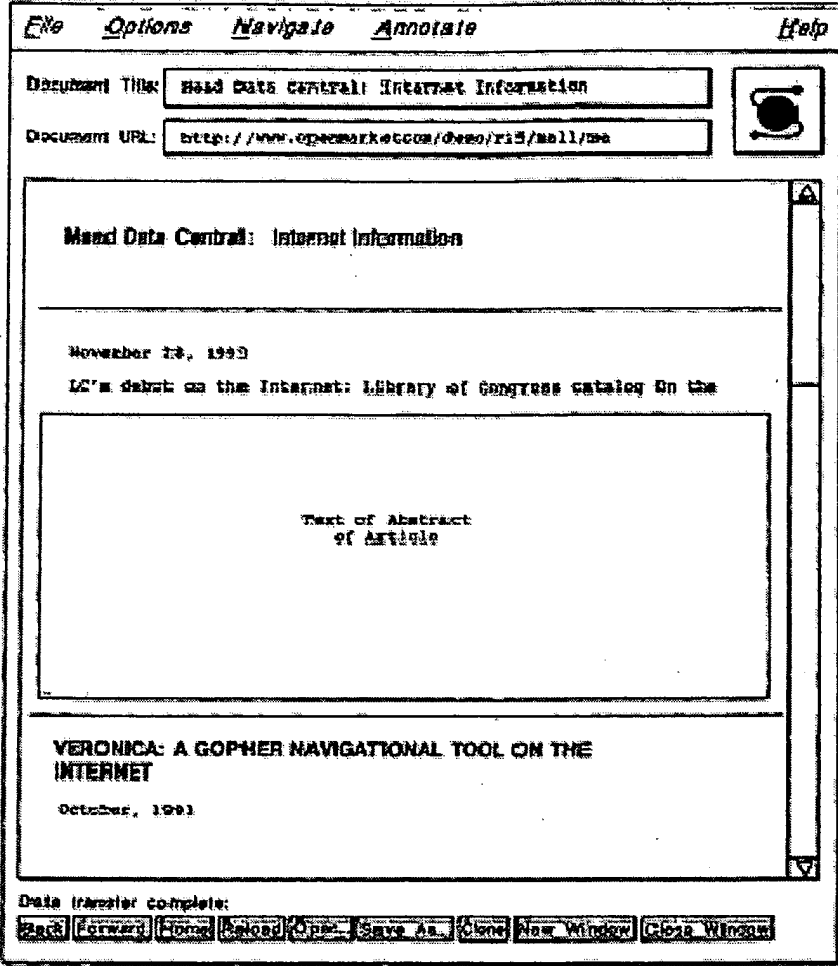
El. #	Claim	U.S. Patent No. 5,715,314 to Payne <i>et al.</i> , and related references ¹
		<p align="center">the authentication of URLs using digital signatures.”</p> <p><i>(Id.</i>, Col. 10, lines 9-20)</p> <p><u>Payne/'519 Application/Gifford</u></p> <p>“The software architecture underlying the particular preferred embodiment is based upon the hypertext conventions of the World Wide Web. Appendix A describes the Hypertext Markup Language (HTML) document format used to represent digital advertisements, Appendix B describes the HTML forms fill out support in Mosaic 2.0, Appendix C is a description of the Hypertext Transfer Protocol (HTTP) between buyer and merchant computers, and Appendix D describes how documents are named with Uniform Resource Locators (URLs) in the network of computers. A document is defined to be any type of digital data broadly construed, such as multimedia documents that include text, audio, and video, and documents that contain programs.”</p> <p>(’519 Application, Pg. 11, lines 7-19, incorporated into Payne by reference at Payne, Col. 1, lines 18-24) (similarly, see Gifford, Col. 4, line 61 – Col. 5, line 6)</p>
2	sending first display information from a first computer system to a user device,	<p><i><u>Claim Construction Note (Broadly Construed):</u> This claim does not prohibit the user device from being part of the first computer system. This claim does not require that the display information be sent directly from the first computer system to the user device; i.e., it may be sent indirectly via some other system or device. The claim does not require that the “display information” be displayed by the user device.³</i></p> <p><u>PAYNE:</u> Payne discloses sending display information from a first computer system that is a merchant computer to a user device, namely a buyer computer, or client computer:</p>

³ Where appropriate, Requester has included in this Appendix notes on claim construction that Requester believes are consistent with the broadest reasonable interpretation standard afforded claims during reexamination. The cited prior art either anticipates or renders obvious each claim (see specific SNQs in Section IV of the Request), even if the claims are read more narrowly than Requester has proposed. Requester does not admit that any interpretations of any of the claims or constructions of claim terms that may be set forth herein would also be proper in the Litigations or in other court proceedings that do not apply the “broadest reasonable interpretation” standard applied during reexamination. See MPEP § 2258.I.G.

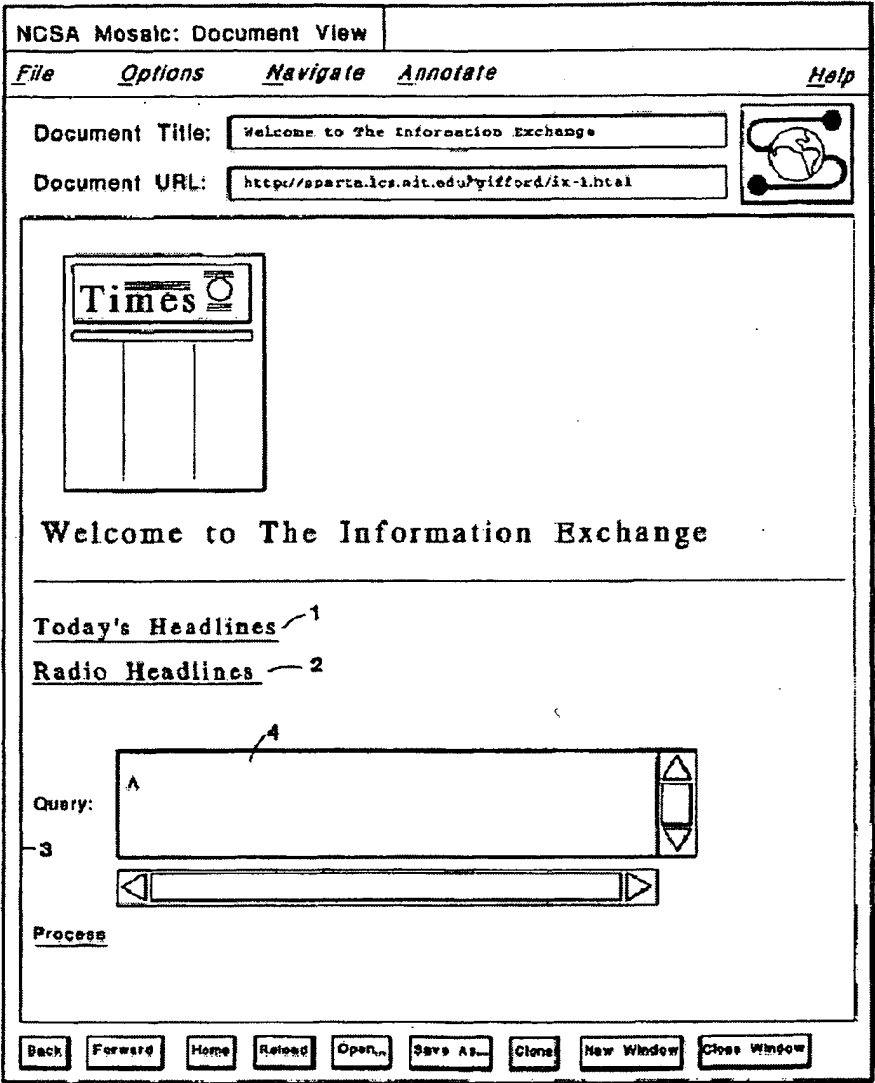
APPENDIX A - PAYNE AND RELATED REFERENCES

El. #	Claim	U.S. Patent No. 5,715,314 to Payne <i>et al.</i>, and related references¹
		<p>“A user at a buyer computer asks to have advertisements displayed, and the buyer computer requests advertisements from a merchant computer, which sends the advertisements to the buyer computer.”</p> <p>(Payne, Col. 1, lines 24-27)</p> <p>“The client computer is programmed to display the product descriptions, to receive a request from the client user to display a product corresponding to a product description displayed by the client computer, and to cause a product hypertext link derived from a purchase transaction record to be activated.”</p> <p>(<i>Id.</i>, Col. 3, lines 29-34)</p> <p>“With reference to FIG. 2, a purchase transaction begins when a user at buyer computer 12 requests advertisements (step 24) and buyer computer 12 accordingly sends an advertising document URL (universal resource locator) to merchant computer 14 (step 26). The merchant computer fetches an advertising document from the advertising document database (step 28) and sends it to the buyer computer (step 30). An example of an advertising document is shown in FIG. 5. Details of URLs and how they are used are found in the microfiche Appendix G.”</p> <p>(<i>Id.</i>, Col. 5, lines 16-25)</p>

APPENDIX A - PAYNE AND RELATED REFERENCES

EI. #	Claim	U.S. Patent No. 5,715,314 to Payne <i>et al.</i> , and related references
		 <p align="center">FIG. 5</p> <p>(<i>Id.</i>, Fig. 5)</p> <p><u>Payne/'519 Application/Gifford</u></p> <p>“Figure 2 shows an overview screen that has been retrieved from a merchant computer by a buyer computer and displayed by the buyer computer.”</p> <p>(‘519 Application, Pg. 11, lines 20-22) (<i>similarly, see Gifford, Col. 5, lines 7-9</i>)</p>

APPENDIX A - PAYNE AND RELATED REFERENCES

El. #	Claim	U.S. Patent No. 5,715,314 to Payne <i>et al.</i> , and related references ¹
		 <p>The screenshot shows the NCSA Mosaic browser interface. At the top, it says 'NCSA Mosaic: Document View'. Below that is a menu bar with 'File', 'Options', 'Navigate', 'Annotate', and 'Help'. The 'Document Title' is 'Welcome to The Information Exchange' and the 'Document URL' is 'http://sparta.lcs.mit.edu/~yifford/ix-1.html'. The main content area displays a 'Times' logo, the text 'Welcome to The Information Exchange', and links for 'Today's Headlines' (labeled 1) and 'Radio Headlines' (labeled 2). A search field labeled 'Query:' contains the letter 'A' (labeled 3) and has a vertical scrollbar on its right side. Below the search field is a 'Process' button. At the bottom of the browser window are buttons for 'Back', 'Forward', 'Home', 'Reload', 'Open...', 'Save As...', 'Clone', 'New Window', and 'Close Window'.</p> <p>(‘519 Application/Gifford, Fig. 2)⁴</p>
3	wherein the first display information includes a control associated with a commercial	<p><i>Claim Construction Note (Broadly Construed):</i> The claim does not require that the control itself be displayed. The control may be associated with more than one commercial service. The “commercial service” recited in this claim element need not be a commercial service listed in a later step (element 11) of this claim.</p> <p>PAYNE: Payne discloses that the display information includes a control allowing the user to purchase a product (control associated with a</p>

⁴ Throughout this request, the final figures from Gifford are used in lieu of the draft figures included with the original ‘519 Application. No new matter was added to the final figures.

APPENDIX A - PAYNE AND RELATED REFERENCES

El. #	Claim	U.S. Patent No. 5,715,314 to Payne <i>et al.</i> , and related references ¹
	service;	<p>commercial service), which may be a hypertext link:</p> <p>“The user browses through the advertising document and eventually requests a product (step 32). This results in the buyer computer sending payment URL A to the payment computer (step 34).”</p> <p>(Payne, Col. 5, lines 27-30)</p> <p>“The client computer is programmed to display the product descriptions, to receive a request from the client user to display a product corresponding to a product description displayed by the client computer, and to cause a product hypertext link derived from a purchase transaction record to be activated.”</p> <p>(Id., Col. 3, lines 29-34)</p> <p><u>Payne/’519 Application/Gifford</u></p> <p>“Figure 2 shows an overview screen that has been retrieved from a merchant computer by a buyer computer and displayed by the buyer computer. It includes links 1; 2, and 3 that when activated by a user cause the buyer's computer to take specified actions.”</p> <p>(’519 Application, Pg. 11, lines 20-24) (similarly, see Gifford, Col. 5, lines 7-11)</p>
4	accepting a first signal in response to a user input to activate the control;	<p><i><u>Claim Construction Note (Broadly Construed):</u> This claim does not require that the user input be to the user device.</i></p> <p><u>PAYNE:</u> Payne, discloses, upon user selecting a product, sending a signal, which is accepted either by the merchant computer (first computer), or by the payment computer (second computer):</p> <p>“The user browses through the advertising document and eventually requests a product (step 32). This results in the buyer computer sending payment URL A to the payment computer (step 34).”</p> <p>(Payne, Col. 5, lines 27-30)</p> <p>“In an alternative embodiment, step 34 consists of the buyer computer sending a purchase product message to the merchant computer, and the merchant computer provides</p>

APPENDIX A - PAYNE AND RELATED REFERENCES

El. #	Claim	U.S. Patent No. 5,715,314 to Payne <i>et al.</i> , and related references ¹
		<p>payment VRL A to the buyer computer in response to the purchase product message.”</p> <p>(<i>Id.</i>, Col. 5, lines 48-52)</p> <p><u>Payne/'519 Application/Gifford</u></p> <p>“Figure 2 shows an overview screen that has been retrieved from a merchant computer by a buyer computer and displayed by the buyer computer. It includes links 1, 2, and 3 that when activated by a user cause the buyer's computer to take specified actions.”</p> <p>(‘519 Application, Pg. 11, lines 20-24) (<i>similarly, see Gifford, Col. 5, lines 7-11</i>)</p>
5	<p>associating an object identity with information entries and attributes,</p>	<p><i>Claim Construction Note (Broadly Construed): This claim does not require any relationship between any of its “associating,” “storing” and “assigning” steps, on the one hand, and the remaining steps in the claim, on the other hand.</i></p> <p><u>PAYNE:</u></p> <p>Payne teaches a system for associating payment object identities with information entries and attributes. For example, Payne teaches sending a payment URL to a payment computer, containing associated information entries and attributes. This payment URL includes a unique digital signature, which is associated with the information entries and attributes, because it is a hash of the information entries and attributes in the payment URL:</p> <p>“The user browses through the advertising document and eventually requests a product (step 32). This results in the buyer computer sending payment URL A to the payment computer (step 34). Payment URL A includes a product identifier that represents the product the user wishes to buy, a domain identifier that represents a domain of products to which the desired product belongs, a payment amount that represents the price of the product, a merchant computer identifier that represents merchant computer 14, a merchant account identifier that represents the particular merchant account to be credited with the payment amount, a duration time that represents the length of time for which access to the product is to be granted to the user after completion of the purchase transaction, an expiration time that represents a deadline beyond which this particular payment URL cannot be used, a buyer network address, and a payment URL authenticator that is a digital signature based on a cryptographic key.</p>