

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4643331

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LEVEL 3 COMMUNICATIONS, INC.	03/12/2007
RECEIVING PARTY DATA		
Name:	LEVEL 3 COMMUNICATIONS, LLC	
Street Address:	1025 ELDORADO BLVD.	
City:	BROOMFIELD	
State/Country:	COLORADO	
Postal Code:	80021	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15728142
CORRESPONDENCE DATA		
Fax Number:	(720)888-5619	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Email:	kathleen.mcinnish@level3.com	
Correspondent Name:	JONATHAN C. SIEKMANN	
Address Line 1:	1025 ELDORADO BLVD.	
Address Line 4:	BROOMFIELD, COLORADO 80021	
ATTORNEY DOCKET NUMBER:	0052-US-C3	
NAME OF SUBMITTER:	JONATHAN C. SIEKMANN	
SIGNATURE:	/Jonathan C. Siekmann/	
DATE SIGNED:	10/17/2017	
Total Attachments: 12		
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PATENT ASSIGNMENT AND LICENSE AGREEMENT

This Assignment and License Agreement (this "Agreement") is made and entered into on March 12, 2007 (the "Effective Date") by and between Level 3 Communications, Inc., a Delaware corporation with its principal place of business at 1025 Eldorado Blvd, Broomfield, CO 80021 ("Assignor"), and Level 3 Communications, LLC, a limited liability company organized and existing under the laws of the state of Delaware, also having its principal place of business at 1025 Eldorado Blvd, Broomfield, CO 80021 ("Assignee") (collectively, "the parties").

WHEREAS, Assignor is the owner of the United States patents and pending patent applications listed on the attached Schedule A and foreign counterparts thereof, any inventions described therein, all continuing applications, reissues, divisions, continuations, continuations in part, extensions, renewals and reexaminations thereof and any other form of industrial property protection relating to the foregoing in the United States and throughout the world to the full end of the term or terms for which any letters patents based on any of the foregoing issue (collectively, "Solely-Owned Patents");

WHEREAS, Assignor has a joint ownership interest with one or more third parties in the United States patents and pending patent applications listed on the attached Schedule B and foreign counterparts thereof, any inventions described therein, all continuing applications, reissues, divisions, continuations, continuations in part, extensions, renewals and reexaminations thereof and any other form of industrial property protection relating to the foregoing in the United States and throughout the world to the full end of the term or terms for which any letters patents based on any of the foregoing issue (collectively, "Jointly-Owned Patents");

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged:

(1) Assignment. Assignor hereby sells, assigns, conveys, transfers and sets over unto Assignee, its successors and assigns, all of Assignor's right, title and interest in, to and under any and all United States and foreign patents and patent applications owned, in either sole or joint capacity, by Assignor as of the Effective Date including, but not limited to, the Solely-Owned Patents and the Jointly-Owned Patents (collectively, "the Patents"), and the right to sue for and obtain past, present, and future damages (including, without limitation, lost profits, reasonable royalties and any available statutory remedies) and unjust enrichment and/or restitution, for past, present and future claims, suits and actions, known and unknown, against third parties arising in connection with infringement of any of the Patents prior to the date of this Agreement (collectively, "the Patent Rights"), the Patent Rights to be held and enjoyed by Assignee for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives, fully and entirely as if the Patent Rights would have been held and enjoyed by Assignor if this Agreement had not been made.

Assignor hereby covenants and agrees with Assignee, its successors and assigns, that Assignor will not execute any writing or do any act whatsoever conflicting with this

Agreement, and that Assignor or its successors and assigns will, at any time upon request, without further or additional consideration, execute such additional writings and do such additional acts as Assignee, its successors and assigns, may deem necessary or desirable to perfect Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on the Patents, and will give testimony in any proceedings or transactions involving the Patents.

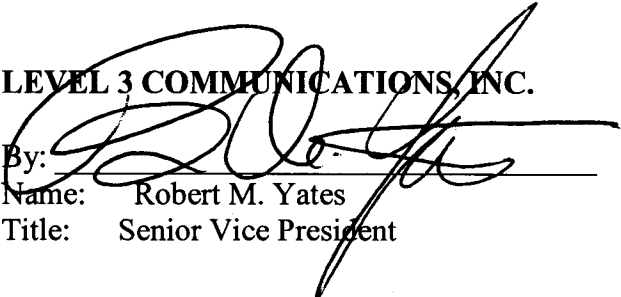
Assignee hereby accepts and assumes the Patent Rights and any obligations arising thereunder. Assignee shall be solely responsible for all actions and all costs whatsoever, including attorneys' fees, arising after the Effective Date and associated with the continuous prosecution and the maintenance and enforcement of any of the Patent Rights for which Assignor would have been responsible if this Agreement had not been made.

(2) License. Assignee hereby grants Assignor and all of its present and future affiliates a royalty-free, non-exclusive, fully paid-up, non-sublicensable, worldwide right and license to exercise and otherwise exploit the Patents, the term of such license to continue until revoked by Assignee at Assignee's sole discretion and by written notification to Assignor. As used herein, the term "affiliate" of Assignor shall mean a business entity that directly, or indirectly through one or more intermediaries, controls, or is controlled by, or is under common control with, Assignor as of the Effective Date or any time thereafter.

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned have executed this Patent Assignment as of the date first above written.

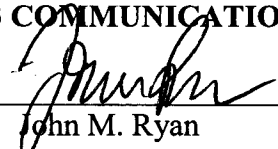
LEVEL 3 COMMUNICATIONS, INC.

By: 

Name: Robert M. Yates

Title: Senior Vice President

LEVEL 3 COMMUNICATIONS, LLC

By: 

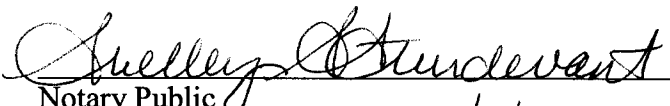
Name: John M. Ryan

Title: Senior Vice President

STATE OF COLORADO
COUNTY OF Broomfield

Subscribed and sworn to before me this 12th day of March, 2007, by
Robert M. Yates, Sr. Vice President,
of Level 3 Communications, Inc.

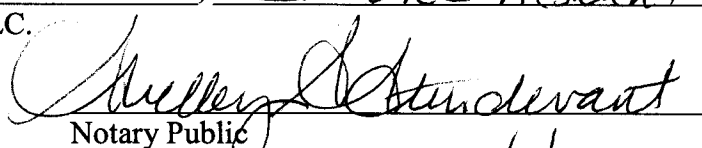



Notary Public
My Commission Expires: 9/1/10

STATE OF COLORADO
COUNTY OF Broomfield

Subscribed and sworn to before me this 12th day of March, 2007, by
John M. Ryan, Sr. Vice President,
of Level 3 Communications, LLC.




Notary Public
My Commission Expires: 9/1/10

Schedule A

Current Status	USPTO Identification	Title
U.S. Patent	6,442,169	System and method for bypassing data from egress facilities
U.S. Patent	6,614,781	Voice over data telecommunications network architecture
U.S. Patent	6,725,263	Systems and methods for analyzing network traffic
U.S. Patent	6,779,031	Network architecture with event logging
U.S. Patent	6,817,515	Verifiable voting
U.S. Patent	6,831,932	Transfer of SONET traffic over a packet-switched network
U.S. Patent	6,850,525	Voice over internet protocol (VoIP) network performance monitor
U.S. Patent	6,938,081	Methods and systems for managing network infrastructure change including obtaining approval for the network infrastructure changes
U.S. Patent	6,940,849	System and method for IP telephony ping
U.S. Patent	7,051,099	ISDN Disconnect alarm Generation Tool for Use in Voice Over IP (VoIP) Networks
U.S. Patent	7,075,922	Screening Inbound Calls in a Packet-Based Communications Network
U.S. Patent	7,080,031	System and Method for Determining an Evolving Combination of Network Components to Maximize the Net Present Value of a Provider's Cash Flow
U.S. Patent	7,099,306	System and Method for Internet Protocol Telephony Advertisement Protocol
U.S. Patent	7,106,747	Systems and Methods for Implementing Second-Link Routing in Packet Switched Networks
U.S. Patent	7,130,273	QOS Testing of a Hardware Device or a Software Client
U.S. Patent	7,146,000	Routing Engine for Telecommunications Network
U.S. Patent	7,173,910	Service Level Agreements Based On Objective Voice Quality Testing for Voice Over IP (VoIP) Networks
U.S. Patent Application	08/990,096	Secure Network Architecture with Quality of Service
U.S. Patent Application	09/827,352	Alternate Routing of Voice Communications in a Packet-Based Network
U.S. Patent Application	09/855,156	Embedding Sample Voice Files in Voice Over IP (VoIP) Gateways for Voice Quality Measurements
U.S. Patent Application	09/878,572	Voice Over Internet Protocol (VoIP) Real Time Protocol Routing
U.S. Patent Application	09/969,437	Automated Server Replication
U.S. Patent Application	09/978,768	Distribution of Traffic Across a Computer Network
U.S. Patent Application	09/982,721	Content Request Routing and Load Balancing for Content Distribution Networks
U.S. Patent Application	09/988,821	Cable Installation

U.S. Patent Application	10/057,041	Automated Installation of Network Service in a Telecommunications Network
U.S. Patent Application	10/179,613	System and method for bypassing data from egress facilities
U.S. Patent Application	10/209,527	Order Entry System for Telecommunications Network Service
U.S. Patent Application	10/339,082	Routing Calls Through a Network
U.S. Patent Application	10/366,061	Voice Over Data Telecommunications Network Architecture
U.S. Patent Application	10/629,517	System and Method for Providing Alternate Routing in a Network
U.S. Patent Application	10/629,518	System and Method for Generating Reports in a Network
U.S. Patent Application	10/629,521	System and Method for Monitoring Communications in a Network
U.S. Patent Application	10/653,561	System and Method for Evaluating the Quality of Service in an IP Telephony Network Using Call Forwarding
U.S. Patent Application	10/671,826	Architecture for Providing Internet Protocol (IP) Telephony Services
U.S. Patent Application	11/001,887	Systems and Methods for Accessing IP Transmissions
U.S. Patent Application	11/009,204	Systems and Methods for Dynamically Registering Endpoints in a Network
U.S. Patent Application	11/009,212	Systems and Methods for Third Party Emergency Call Termination
U.S. Patent Application	11/009,216	Systems and Methods for Locating Endpoints in a Communication Network
U.S. Patent Application	11/027,561	Systems and Methods for Applying a Variable Encoding/Decoding Scheme in a Communication Network
U.S. Patent Application	11/027,564	Registration Redirect Server
U.S. Patent Application	11/064,391	Voice Call Coordinator
U.S. Patent Application	11/064,415	VoIP Call Through Tester
U.S. Patent Application	11/086,471	Systems and Methods for Accessing IP Transmissions
U.S. Patent Application	11/146,752	Internet Packet Quality Monitor
U.S. Patent Application	11/259,448	Systems and Methods for Discovering Network Topology
U.S. Patent Application	11/271,941	Geo-Locating Load Balancing
U.S. Patent Application	11/311,829	Providing SIP Signaling Data for Third Party Surveillance
U.S. Patent Application	11/312,012	System and Method for Monitoring Data in a Telecomm Network
U.S. Patent Application	11/312,949	System and Method for Routing Signaling Messages in a Comm Network
U.S. Patent Application	11/314,103	Method and System for Terminating SONET/SDH Circuits in an IP Network
U.S. Patent Application	11/315,644	Registration of Multiple VoIP Devices

U.S. Patent Application	11/319,918	Customer Owned Telephone Numbers (COTN)
U.S. Patent Application	11/322,168	Traffic Distribution in a Communications Network
U.S. Patent Application	11/323,442	System and Method for Generating a Lock-Free Dual Queue
U.S. Patent Application	11/347,810	Ethernet-Based Systems and Methods for Improved Network Routing
U.S. Patent Application	11/384,460	System and Method for Determining an Evolving Combination of Network Components to Maximize the Net Present Value of a Provider's Cash Flow
U.S. Patent Application	11/438,507	ISDN Disconnect alarm Generation Tool for Use in Voice Over IP (VoIP) Networks
U.S. Patent Application	11/463,835	Systems and Methods for Flow Signature Formation and Use
U.S. Patent Application	11/484,316	Screening Inbound Calls in a Packet-Based Communications Network
U.S. Patent Application	11/530,811	Systems and Methods for Implementing Second-Link Routing in Packet Switched Networks
U.S. Patent Application	11/535,882	Using RegEvent Package to detect IP Movement
U.S. Patent Application	11/565,563	Systems and Methods for Network Routing in a Multiple Backbone Network Architecture
U.S. Patent Application	11/566,649	Routing Engine for Telecommunications Network
U.S. Patent Application	11/590,291	Automatic Termination Path Configuration (Nucleus)
U.S. Patent Application	11/591,818	Broadcast Transmission Relay Circuit
U.S. Patent Application	11/591,819	Broadcast Method and System
U.S. Patent Application	11/618,811	Hybrid Fiber, wireless rail broadband commuter connectivity
U.S. Patent Application	11/618,814	Lock Free Dual Queue with Condition Synchronization and Time-Outs
U.S. Patent Application	11/627,875	System and method for bypassing data from egress facilities
U.S. Patent Application	11/671,274	Network Configuration Optimization
U.S. Patent Application	11/671,454	Service Level Agreements Based On Objective Voice Quality Testing for Voice Over IP (VoIP) Networks
U.S. Patent Application	60/823,935	IP Trunk Groups
U.S. Patent Application	60/827,626	Improved MSAG Validation Approach
U.S. Patent Application	60/855,485	VoIP Enhanced Local Service Active Day of Port Trigger
U.S. Patent Application	60/889,132	Network Check Using Routing Database
U.S. Patent Application	60/894,223	Scalable Network Node Configurations

Schedule B

Current Status	USPTO Identification	Title
U.S. Patent	4,866,711	METHOD OF MULTIPLEX/DEMULTIPLEX PROCESSING OF INFORMATION AND EQUIPMENT FOR PERFORMING THE METHOD
U.S. Patent	4,919,545	DISTRIBUTED SECURITY PROCEDURE FOR INTELLIGENT NETWORKS
U.S. Patent	5,041,971	MEMORY ACCESSING SWITCH NETWORK
U.S. Patent	5,268,931	DATA COMMUNICATION SYSTEM
U.S. Patent	5,319,735	EMBEDDED SIGNALING
U.S. Patent	5,682,328	CENTRALIZED COMPUTER EVENT DATA LOGGING SYSTEM
U.S. Patent	5,848,403	SYSTEM AND METHOD FOR GENETIC ALGORITHM SCHEDULING SYSTEMS
U.S. Patent	6,023,697	SYSTEMS AND METHODS FOR PROVIDING USER ASSISTANCE IN RETRIEVING DATA FROM A RELATIONAL DATABASE
U.S. Patent	6,049,831	SYSTEM FOR TRANSMITTING NETWORK-RELATED INFORMATION WHERE REQUESTED NETWORK INFORMATION IS SEPARATELY TRANSMITTED AS DEFINITIONS AND DISPLAY INFORMATION
U.S. Patent	6,061,331	METHOD AND APPARATUS FOR ESTIMATING SOURCE-DESTINATION TRAFFIC IN A PACKET-SWITCHED COMMUNICATIONS NETWORK
U.S. Patent	6,097,699	METHOD AND SYSTEM FOR MONITORING BROADBAND QUALITY OF SERVICES
U.S. Patent	6,144,638	MULTI-TENANT UNIT
U.S. Patent	6,147,970	QUALITY OF SERVICE MANAGEMENT FOR AGGREGATED FLOWS IN A NETWORK SYSTEM
U.S. Patent	6,160,811	DATA PACKET ROUTER
U.S. Patent	6,160,819	METHOD AND APPARATUS FOR MULTIPLEXING BYTES OVER PARALLEL COMMUNICATION LINKS USING DATA SLICES
U.S. Patent	6,185,210	VIRTUAL CIRCUIT MANAGEMENT FOR MULTI-POINT DELIVERY IN A NETWORK
U.S. Patent	6,185,619	METHOD AND APPARATUS FOR BALANCING THE PROCESS LOAD ON NETWORK SERVERS ACCORDING TO NETWORK AND SERVER BASED POLICIES (AKA HOPSCOTCH)
U.S. Patent	6,292,539	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION
U.S. Patent	6,311,182	VOICE ACTIVATED WEB BROWSER
U.S. Patent	6,324,648	SECURE GATEWAY HAVING USER IDENTIFICATION AND PASSWORD AUTHENTICATION
U.S. Patent	6,347,366	SYSTEM AND METHOD FOR AUTOMATICALLY OPTIMIZING SOFTWARE PERFORMANCE

U.S. Patent	6,370,579	METHOD AND APPARATUS FOR STRIPPING PACKETS OVER PARALLEL COMMUNICATION LINKS
U.S. Patent	6,405,188	INFORMATION RETRIEVAL SYSTEM
U.S. Patent	6,405,257	METHOD AND SYSTEM FOR BURST CONGESTION CONTROL IN AN INTERNET PROTOCOL NETWORK
U.S. Patent	6,442,250	SYSTEMS AND METHODS FOR TRANSMITTING MESSAGES TO PREDEFINED GROUPS (AKA IPT MESSENGERBOT)
U.S. Patent	6,442,856	EXTENDABLE TOOL FOR USE MARKING ANGULAR LINES
U.S. Patent	6,445,712	BROADBAND ARCHITECTURE USING EXISTING TWISTED PAIR
U.S. Patent	6,456,838	GENERIC APPROACH TO GENERATING PERMUTATIONS FOR ALL-TO-ALL PERSONALIZED EXCHANGE FOR SELF-ROUTING MULTISTAGE INTERCONNECTION NETWORKS
U.S. Patent	6,457,043	SPEAKER IDENTIFIER FOR MULTI-PARTY CONFERENCE
U.S. Patent	6,480,879	FRAMEWORK FOR PROVIDING QUALITY OF SERVICE REQUIREMENTS IN A DISTRIBUTED OBJECT-ORIENTED COMPUTER SYSTEM
U.S. Patent	6,490,580	HYPERVIDEO INFORMATION RETRIEVAL USING MULTIMEDIA
U.S. Patent	6,490,629	SYSTEM AND METHOD FOR SCHEDULING THE TRANSMISSION OF PACKET OBJECTS HAVING QUALITY OF SERVICE REQUIREMENTS
U.S. Patent	6,493,425	METHOD AND SYSTEM FOR TESTING A NETWORK ELEMENT WITHIN A TELECOMMUNICATIONS NETWORK
U.S. Patent	6,493,431	METHOD AND SYSTEM FOR CAPTURING TELEPHONE CALLS
U.S. Patent	6,493,437	ADVERTIZING-SUBSIDIZED PC-TELEPHONY
U.S. Patent	6,493,707	HYPERVIDEO: INFORMATION RETRIEVAL USING REALTIME BUFFERS
U.S. Patent	6,496,704	SYSTEMS AND METHODS FOR INTERNETWORKING DATA NETWORKS HAVING MOBILITY MANAGEMENT FUNCTIONS
U.S. Patent	6,505,248	METHOD AND SYSTEM FOR MONITORING AND DYNAMICALLY REPORTING A STATUS OF A REMOTE SERVER
U.S. Patent	6,509,830	SYSTEMS AND METHODS FOR PROVIDING CUSTOMIZABLE GEO-LOCATION TRACKING SERVICES
U.S. Patent	6,510,464	SECURE GATEWAY HAVING ROUTING FEATURE
U.S. Patent	6,526,062	SYSTEM AND METHOD FOR SCHEDULING AND RESCHEDULING THE TRANSMISSION OF CELL OBJECTS OF DIFFERENT TRAFFIC TYPES

U.S. Patent	6,539,542	SYSTEM AND METHOD FOR AUTOMATICALLY OPTIMIZING HETEROGENEOUS MULTIPROCESSOR SOFTWARE PERFORMANCE
U.S. Patent	6,567,378	CELL DISCARD SCHEME FOR IP TRAFFIC OVER A CELL RELAY INFRASTRUCTURE
U.S. Patent	6,567,854	INTERNET SERVICE DELIVERY VIA SERVER PUSHED PERSONALIZED ADVERTIZING DASHBOARD
U.S. Patent	6,567,858	OPTIMAL ALL-TO-ALL PERSONALIZED EXCHANGE IN OPTICAL MULTISTAGE NETWORKS
U.S. Patent	6,577,595	SYSTEMS AND METHODS FOR TRANSPORTING ASSOCIATED DATA SIGNALS OVER A NETWORK
U.S. Patent	6,590,889	DATA COMMUNICATIONS SYSTEM AND HYBRID TIME-CODE MULTIPLEXING METHOD
U.S. Patent	6,600,733	SYSTEM FOR INTERCONNECTING PACKET-SWITCHED AND CIRCUIT-SWITCHED VOICE COMMUNICATIONS
U.S. Patent	6,603,848	TECHNIQUES FOR PROVIDING CALLER NAME ANNOUNCEMENT
U.S. Patent	6,609,087	FACT RECOGNITION SYSTEM
U.S. Patent	6,618,726	VOICE ACTIVATED WEB BROWSER
U.S. Patent	6,629,126	FRAMEWORK FOR PROVIDING QUALITY OF SERVICE REQUIREMENTS IN A DISTRIBUTED OBJECT-ORIENTED COMPUTER SYSTEM
U.S. Patent	6,633,854	SYSTEM AND METHOD FOR ANALYZING GENERIC ALGORITHMS
U.S. Patent	6,650,742	SYSTEMS AND METHODS FOR REDUCING THE OCCURRENCE OF ANNOYING VOICE CALLS
U.S. Patent	6,651,057	METHOD AND APPARATUS FOR SCORE NORMALIZATION FOR INFORMATION RETRIEVAL APPLICATIONS
U.S. Patent	6,671,804	METHOD AND APPARATUS FOR SUPPORTING AUTHORITIES IN PUBLIC KEY INFRASTRUCTURE
U.S. Patent	6,690,262	SYSTEMS AND METHODS FOR TWO-WAY MESSAGING USING A PAGER
U.S. Patent	6,691,148	FRAMEWORK FOR PROVIDING QUALITY OF SERVICE REQUIREMENTS IN A DISTRIBUTED OBJECT-ORIENTED COMPUTER SYSTEM
U.S. Patent	6,693,899	SYSTEM AND METHOD FOR FACILITATING COMMUNICATION BETWEEN DISSIMILAR RADIO VOICE DEVICES (aka DRVC)
U.S. Patent	6,700,972	SYSTEM AND METHOD FOR PROCESSING AND COLLECTING DATA FROM A CALL DIRECTED TO A CALL CENTER
U.S. Patent	6,707,797	MULTI-LINE TELEPHONY VIA NETWORK GATEWAYS
U.S. Patent	6,718,363	PAGE AGGREGATION FOR WEB SITES
U.S. Patent	6,735,617	ROUTING T-37 EMAIL OVER AN H323 (VOIP)

		NETWORK
U.S. Patent	6,745,242	CONNECTIVITY SERVICE-LEVEL GUARANTEE MONITORING AND CLAIM VALIDATION SYSTEMS AND METHODS
U.S. Patent	6,754,177	METHOD AND SYSTEM FOR BURST CONGESTION CONTROL IN AN ATM NETWORK
U.S. Patent	6,760,761	SYSTEMS AND METHODS FOR STANDARDIZING NETWORK DEVICES
U.S. Patent	6,768,777	METHOD AND APPARATUS FOR CALCULATING THE NUMBER OF VERY HIGH SPEED DIGITAL SUBSCRIBER LINE NODES
U.S. Patent	6,769,112	DOMAIN-INDEPENDENT RECONFIGURABLE SCHEDULER
U.S. Patent	6,775,709	MESSAGE ROUTING COORDINATION IN COMMUNICATION SYSTEMS
U.S. Patent	6,795,400	PACKET LOSS SERVICE-LEVEL GUARANTEE MONITORING AND CLAIM VALIDATION SYSTEMS AND METHODS
U.S. Patent	6,799,177	SYSTEMS AND METHODS FOR SECURING EXTRANET TRANSACTIONS
U.S. Patent	6,804,316	METHOD AND SYSTEM FOR PERFORMING FRAME RECOVERY IN A NETWORK (AKA SONET)
U.S. Patent	6,831,945	METHOD AND APPARATUS FOR REMOTE IDENTIFICATION OF TRANSMISSION CHANNEL INTERFERENCE
U.S. Patent	6,850,524	SYSTEMS AND METHODS FOR PREDICTIVE ROUTING
U.S. Patent	6,874,032	METHOD AND SYSTEM FOR BURST CONGESTION CONTROL IN AN INTERNET PROTOCOL NETWORK
U.S. Patent	6,901,397	METHOD AND APPARATUS FOR PROVIDING WEB-BASED ASSISTANCE TO CUSTOMERS AND SERVICE REPRESENTATIVES
U.S. Patent	6,907,401	PORTAL SWITCH FOR ELECTRONIC COMMERCE
U.S. Patent	6,909,696	SYSTEMS AND METHODS FOR VISUALIZING A COMMUNICATION NETWORK (AKA VIZTOOLS)
U.S. Patent	6,910,135	METHOD AND APPARATUS FOR AN INTRUDER DETECTION REPORTING AND RESPONSE SYSTEM
U.S. Patent	6,925,399	METHODS AND SYSTEMS FOR THE ESTIMATION OF THE INJECTION POINT OF FOREIGN SIGNALS IN A NETWORK
U.S. Patent	6,931,001	SYSTEM FOR INTERCONNECTING PACKET-SWITCHED AND CIRCUIT-SWITCHED VOICE COMMUNICATIONS
U.S. Patent	6,944,127	SYSTEM FOR DETECTING SPURIOUS NETWORK TRAFFIC
U.S. Patent	6,965,890	HYPER VIDEO: INFORMATION RETRIEVAL USING REALTIME BUFFERS
U.S. Patent	6,980,659	METHODS AND SYSTEMS FOR SUPPLYING ENCRYPTION KEYS

U.S. Patent	7,002,950	SYSTEMS AND METHODS IMPLEMENTING INTERNET SCREEN DIALING FOR CIRCUIT SWITCHED TELEPHONES
U.S. Patent	7,027,997	FLEXIBLE WEB-BASED INTERFACE FOR WORKFLOW MANAGEMENT SYSTEMS
U.S. Patent	7,035,223	METHOD AND APPARATUS FOR DETECTING UNRELIABLE OR COMPROMISED ROUTER/SWITCHES IN LINK STATE ROUTING
U.S. Patent	7,035,934	SYSTEM AND METHOD FOR IMPROVING TRAFFIC ANALYSIS AND NETWORK MODELING
U.S. Patent	7,039,633	HYPER VIDEO: INFORMATION RETRIEVAL USING MULTIMEDIA
U.S. Patent	7,054,308	METHOD AND APPARATUS FOR ESTIMATING THE CALL GRADE OF SERVICE AND OFFERED TRAFFIC FOR VOICE OVER INTERNET PROTOCOL CALLS AT A PSTN-IP NETWORK GATEWAY (AKA GOS)
U.S. Patent	7,062,485	METHOD AND APPARATUS FOR SCORE NORMALIZATION FOR INFORMATION RETRIEVAL APPLICATIONS
U.S. Patent	7,099,281	A PASSIVE SYSTEM AND METHOD FOR MEASURING THE SUBJECTIVE QUALITY OF REAL-TIME MEDIA STREAMS IN A PACKET-SWITCHING NETWORK
U.S. Patent	7,116,640	ARCHITECTURE AND MECHANISM FOR FORWARDING LAYER INTERFACING FOR NETWORKS
U.S. Patent	7,116,656	MULTI-LINE TELEPHONY VIA A COMPUTER NETWORK
U.S. Patent	7,130,298	SYSTEMS AND METHODS IMPLEMENTING INTERNET SCREEN DIALING FOR CIRCUIT SWITCHED TELEPHONES
U.S. Patent	7,143,152	GRAPHICAL USER INTERFACE AND METHOD FOR CUSTOMER CENTRIC NETWORK MANAGEMENT
U.S. Patent Application	09/282,764	TARGETED BANNER ADVERTISEMENTS
U.S. Patent Application	09/426,442	SYSTEMS AND METHODS FOR SECURING EXTRANET TRANSACTIONS (AKA THE VAULT)
U.S. Patent Application	09/430,883	VERIFICATION OF CONTENT STORED ON A NETWORK
U.S. Patent Application	09/452,915	MULTISERVICE NETWORK
U.S. Patent Application	09/460,455	METHODS AND APPARATUS FOR INTEGRATING SERVICES FOR ACCESSING THE WORLD WIDE WEB
U.S. Patent Application	09/532,255	SYSTEMS AND METHODS THAT PROTECT AGAINST DENIAL OF SERVICE ATTACKS
U.S. Patent Application	09/548,547	INTRUSION AND MISUSE DETERRENCE SYSTEM (AKA NETFACADE, IMDS)
U.S. Patent Application	09/560,006	METHODS AND SYSTEMS FOR SELECTION OF MULTIMEDIA PRESENTATIONS (AKA SYNCHRONIZED SPATIAL-TEMPORAL BROWSING OF IMAGES FOR SELECTION ON INDEXED TEMPORAL MULTIMEDIA TITLES)

U.S. Patent Application	09/594,100	METHOD AND APPARATUS FOR DYNAMIC MAPPING (AKA DYNAT)
U.S. Patent Application	09/597,492	SYSTEM AND METHOD FOR PERFORMING A SECURE CREDIT TRANSACTION
U.S. Patent Application	09/626,303	SYSTEMS AND METHODS FOR IMPEDING TRAFFIC ANALYSIS NETWORKS
U.S. Patent Application	09/634,416	METHOD AND APPARATUS FOR THE GENERATION AND DISTRIBUTION OF RANDOM BITS
U.S. Patent Application	09/697,095	METHOD AND APPARATUS FOR FILTERING ELECTRONIC COMMUNICATIONS RECEIVED OVER A NETWORK (aka SPAMinator)
U.S. Patent Application	09/714,150	DISTRIBUTED COMPUTING SYSTEM AND METHOD FOR DISTRIBUTING USER REQUESTS TO REPLICATED NETWORK SERVERS (AKA HOPSCOTCH)
U.S. Patent Application	09/726,056	SYSTEMS AND METHODS FOR IMPLEMENTING SECOND-LINK ROUTING IN PACKET SWITCHED NETWORKS
U.S. Patent Application	10/095,821	AN IMPROVED INFORMATION RETRIEVAL SYSTEM
U.S. Patent Application	10/096,193	METHOD AND APPARATUS FOR STRIPPING PACKETS OVER PARALLEL COMMUNICATION LINKS
U.S. Patent Application	10/158,771	ALLOCATION OF CHANNEL CAPACITY IN MULTISERVICE NETWORKS
U.S. Patent Application	10/279,680	CONNECTIVITY SERVICE-LEVEL GUARANTEE MONITORING AND CLAIM VALIDATION SYSTEMS AND METHODS
U.S. Patent Application	10/407,765	FACT RECOGNITION SYSTEM
U.S. Patent Application	10/639,395	PASSIVE SYSTEM AND METHOD FOR MEASURING AND MONITORING THE QUALITY OF SERVICE IN A COMMUNICATIONS NETWORK
U.S. Patent Application	10/748,859	ROUTING T-37 EMAIL OVER AN H323 (VOIP) NETWORK
U.S. Patent Application	10/785,729	PAGE AGGREGATION FOR WEB SITES
U.S. Patent Application	10/978,765	INTRUSION AND MISUSE DETERRENCE SYSTEM EMPLOYING A VIRTUAL NETWORK (AKA NETFACADE, IMDS)
U.S. Patent Application	11/126,881	SYSTEMS AND METHODS FOR VISUALIZING A COMMUNICATION NETWORK (AKA VIZTOOLS)
U.S. Patent Application	11/446,212	MULTI-LINE TELEPHONY VIA A COMPUTER NETWORK
U.S. Patent Application	11/588,392	GRAPHICAL USER INTERFACE AND METHOD FOR CUSTOMER CENTRIC NETWORK MANAGEMENT