

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Amended and Restated Intellectual Property Security Agreement

CONVEYING PARTY DATA

Name	Execution Date
GENBEND US LLC (a Delaware LLC)	07/29/2011

RECEIVING PARTY DATA

Name:	Comerica Bank (a Texas Banking Association), as Agent; Attn: National Documentation Services
Street Address:	39200 Six Mile Road
Internal Address:	Mail Code 7578
City:	Livonia
State/Country:	MICHIGAN
Postal Code:	48152

PROPERTY NUMBERS Total: 49

Property Type	Number
Patent Number:	7912062
Patent Number:	7961849
Patent Number:	7940772
Patent Number:	7835346
Patent Number:	7881188
Patent Number:	7948985
Patent Number:	7965627
Patent Number:	7961739
Patent Number:	7941537
Patent Number:	7940660
Patent Number:	7969890
Patent Number:	7911940
Patent Number:	7861003
Patent Number:	7865612

PATENT

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REEL: 027315 FRAME: 0293

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Patent Number:	7860990
Patent Number:	7626929
Patent Number:	7515583
Patent Number:	7907708
Patent Number:	7974268
Patent Number:	7920551
Patent Number:	7916686
Patent Number:	7890657
Patent Number:	6728783
Patent Number:	7945663
Patent Number:	7733783
Patent Number:	7260741
Patent Number:	7505456
Patent Number:	7035289
Patent Number:	7545801
Patent Number:	7587523
Patent Number:	7466924
Patent Number:	7450614
Application Number:	13204078
Application Number:	13214641
Application Number:	11283428
Application Number:	12004214
Application Number:	12330899
Application Number:	61414272
Application Number:	61053782
Application Number:	61420272
Application Number:	61449068
Application Number:	13180577
Application Number:	12220844
Application Number:	13077723
Application Number:	11888396
Application Number:	12367253
Application Number:	12267743
Application Number:	12477507
Application Number:	60459548

PATENT

Fax Number: (949)760-0182
Phone: 9492246428
Email: Patent@Buchalter.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: Sandra P. Thompson
Address Line 1: 18400 Von Karman Ave., Suite 800
Address Line 4: Irvine, CALIFORNIA 92612

ATTORNEY DOCKET NUMBER:

10113-0123

NAME OF SUBMITTER:

Sandra P. Thompson

Total Attachments: 31

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AMENDED AND RESTATED
INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Amended and Restated Intellectual Property Security Agreement (the "Agreement") is made as of July 29, 2011, by and between **GENBAND US LLC**, a Delaware limited liability company ("Grantor"), and **COMERICA BANK**, a banking corporation, as Agent under the Loan Agreement ("Secured Party").

RECITALS

A. Secured Party and the other Lenders under the Amended and Restated Loan and Security Agreement dated as of even date herewith (the "Loan Agreement") have agreed to lend to Grantor, certain funds (the "Loan") and Grantor desires to borrow such funds from Lenders pursuant to the terms of an Amended and Restated Loan and Security Agreement, dated of even date herewith (together with any other documents, instruments or agreements executed in connection therewith the "Loan Documents"). All capitalized terms used herein without definition shall have the meanings ascribed to them in the Loan Documents.

B. In order to induce Lenders to make the Loan, Grantor has agreed to grant a security interest in certain intangible property to Secured Party, as Agent for the Lenders, for purposes of securing the obligations of Grantor to Secured Party and the Lenders under the Loan Documents.

NOW, THEREFORE, THE PARTIES HERETO AGREE AS FOLLOWS:

1. **Grant of Security Interest.** As collateral security for the prompt and complete payment and performance of all of Grantor's present or future indebtedness, obligations and liabilities to Secured Party and Lenders under the Loan Documents, Grantor hereby grants a security interest to Secured Party, for the benefit of Lenders, as security, in and to Grantor's entire right, title and interest in, to and under the following (all of which shall collectively be called the "Collateral"):

(a) Any and all copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the "Copyrights");

(b) Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

(c) Any and all design rights which may be available to Grantor now or hereafter existing, created, acquired or held;

(d) All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");

(e) Any trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the "Trademarks");

(f) Any and all claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(g) All licenses or other rights to use any of the Copyrights, Patents or Trademarks, and all license fees and royalties arising from such use to the extent permitted by such license or rights; and

(h) All amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks or Patents; and

(i) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

2. **Authorization and Request.** Grantor authorizes and requests that the Register of Copyrights and the Commissioner of Patents and Trademarks record this security agreement.

3. **[Reserved].**

4. **Secured Party's Rights.** Secured Party shall have the right, but not the obligation, to take, at Grantor's sole expense, any actions that Grantor is required under this Agreement or any other Loan Document to take with respect to the Collateral but which Grantor fails to take, after fifteen (15) days' notice to Grantor. Grantor shall reimburse and indemnify Secured Party for all reasonable costs and expenses incurred in the reasonable exercise of its rights under this Section 4.

5. **Inspection Rights.** Grantor hereby grants to Secured Party and its employees, representatives and agents the right to visit, during reasonable hours upon prior reasonable written notice to Grantor, any of Grantor's plants and facilities that manufacture, install or store products (or that have done so during the prior six-month period) that are sold utilizing any of the Collateral, and to inspect the products and quality control records relating thereto upon reasonable notice to Grantor and as often as may be reasonably requested.

6. **Further Assurances; Attorney in Fact.**

(a) On a continuing basis, Grantor will make, execute, acknowledge and deliver, and file and record in the proper filing and recording places in the United States, all such instruments, including, appropriate financing and continuation statements and collateral agreements and filings with the United States Patent and Trademark Office and the Register of Copyrights, and take all such action as may reasonably be deemed necessary or advisable, or as requested by Secured Party, to perfect Secured Party's security interest in all Copyrights, Patents and Trademarks and otherwise to carry out the intent and purposes of this Agreement, or for assuring and confirming to Secured Party the grant or perfection of a security interest in all Collateral.

(b) Grantor hereby irrevocably appoints Secured Party as Grantor's attorney-in-fact, with full authority in the place and stead of Grantor and in the name of Grantor, from time to time in Secured Party's discretion, to take any action and to execute any instrument which Secured Party may deem necessary or advisable to accomplish the purposes of this Agreement, including:

(i) To modify, in its sole discretion, this Agreement without first obtaining Grantor's approval of or signature to such modification by amending Exhibit A, Exhibit B and Exhibit C, hereof, as appropriate, to include reference to any right, title or interest in any Copyrights, Patents or Trademarks acquired by Grantor after the execution hereof or to delete any reference to any right, title or interest in any Copyrights, Patents or Trademarks in which Grantor no longer has or claims any right, title or interest;

(ii) To file, in its sole discretion, one or more financing or continuation statements and amendments thereto, relative to any of the Collateral without the signature of Grantor where permitted by law; and

(iii) After the occurrence of an Event of Default, to transfer the Collateral into the name of Secured Party or a third party to the extent permitted under the California Uniform Commercial Code.

7. **Events of Default.** The occurrence of an "Event of Default" under any Loan Document shall constitute an Event of Default under this Agreement.

8. **Remedies.** Upon the occurrence of an Event of Default, Secured Party shall have the right to exercise all the remedies of a secured party under the California Uniform Commercial Code, including without limitation the right to require Grantor to assemble the Collateral and any tangible property in which Secured Party has a security interest and to make it available to Secured Party at a place designated by Secured Party. Secured Party shall have a nonexclusive, royalty free license to use the Copyrights, Patents and Trademarks to the extent reasonably necessary to permit Secured Party to exercise its rights and remedies upon the occurrence of an Event of Default. Grantor will pay any expenses (including attorneys' fees) incurred by Secured Party in connection with the exercise of any of Secured Party's rights hereunder, including without limitation any expense incurred in disposing of the Collateral. All of Secured Party's rights and remedies with respect to the Collateral shall be cumulative.

9. **Indemnity.** Grantor agrees to defend, indemnify and hold harmless Secured Party and its officers, employees, and agents against: (a) all obligations, demands, claims, and liabilities claimed or asserted by any other party in connection with the transactions contemplated by this Agreement, and (b) all losses or expenses in any way suffered, incurred, or paid by Secured Party as a result of or in any way arising out of, following or consequential to transactions between Secured Party and Grantor, whether under this Agreement or otherwise (including without limitation attorneys fees and expenses), except for losses arising from or out of Secured Party's gross negligence or willful misconduct.

10. **Course of Dealing.** No course of dealing, nor any failure to exercise, nor any delay in exercising any right, power or privilege hereunder shall operate as a waiver thereof.

11. **Attorneys Fees.** If any action relating to this Agreement is brought by either party hereto against the other party, the prevailing party shall be entitled to recover reasonable attorneys fees, costs and disbursements.

12. **Amendments.** Subject to Section 6(b)(i) hereof, this Agreement may be amended only by a written instrument signed by both parties hereto.

13. **Counterparts.** This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

14. **Choice of Law and Venue; Jury Trial Waiver; Judicial Reference.**

(a) *Choice of Law.* THE VALIDITY OF THIS AGREEMENT AND THE OTHER LOAN DOCUMENTS (UNLESS EXPRESSLY PROVIDED TO THE CONTRARY IN ANOTHER LOAN DOCUMENT IN RESPECT OF SUCH OTHER LOAN DOCUMENT), THE CONSTRUCTION, INTERPRETATION, AND ENFORCEMENT HEREOF AND THEREOF, AND THE RIGHTS OF THE PARTIES HERETO AND THERETO WITH RESPECT TO ALL MATTERS ARISING HEREUNDER OR THEREUNDER OR RELATED HERETO OR THERETO SHALL BE DETERMINED UNDER, GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH THE INTERNAL LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD FOR PRINCIPLES OF CONFLICTS OF LAWS.

(b) *Choice of Venue.* THE PARTIES AGREE THAT ALL ACTIONS OR PROCEEDINGS ARISING IN CONNECTION WITH THIS AGREEMENT AND THE OTHER LOAN DOCUMENTS SHALL BE TRIED AND LITIGATED ONLY IN THE STATE AND FEDERAL COURTS LOCATED IN THE COUNTY OF SANTA CLARA, STATE OF CALIFORNIA, *PROVIDED, HOWEVER,* THAT ANY SUIT SEEKING ENFORCEMENT AGAINST ANY COLLATERAL OR OTHER PROPERTY MAY BE BROUGHT, AT SECURED PARTY'S OPTION, IN THE COURTS OF ANY JURISDICTION WHERE SECURED PARTY ELECTS TO BRING SUCH ACTION OR WHERE SUCH COLLATERAL OR OTHER PROPERTY MAY BE FOUND. GRANTOR AND SECURED PARTY WAIVE, TO THE EXTENT PERMITTED UNDER APPLICABLE LAW, ANY RIGHT EACH MAY HAVE TO ASSERT THE DOCTRINE OF *FORUM NON CONVENIENS*

OR TO OBJECT TO VENUE TO THE EXTENT ANY PROCEEDING IS BROUGHT IN ACCORDANCE WITH THIS SECTION 14.

(c) *Jury Trial Waiver.* GRANTOR AND SECURED PARTY HEREBY WAIVE THEIR RESPECTIVE RIGHTS TO A JURY TRIAL OF ANY CLAIM OR CAUSE OF ACTION BASED UPON OR ARISING OUT OF THIS AGREEMENT OR ANY OF THE LOAN DOCUMENTS OR ANY OF THE TRANSACTIONS CONTEMPLATED HEREIN OR THEREIN, INCLUDING CONTRACT CLAIMS, TORT CLAIMS, BREACH OF DUTY CLAIMS, AND ALL OTHER COMMON LAW OR STATUTORY CLAIMS. GRANTOR AND SECURED PARTY REPRESENT THAT EACH HAS REVIEWED THIS WAIVER AND EACH KNOWINGLY AND VOLUNTARILY WAIVES ITS JURY TRIAL RIGHTS FOLLOWING CONSULTATION WITH LEGAL COUNSEL. IN THE EVENT OF LITIGATION, A COPY OF THIS AGREEMENT MAY BE FILED AS A WRITTEN CONSENT TO A TRIAL BY THE COURT.

(d) *Judicial Reference.*

(i) The parties prefer that any dispute between them be resolved in litigation subject to a jury trial waiver as set forth in subsection (c) above, but the California Supreme Court has held that pre-dispute waivers of the right to jury trial that are not authorized by statute are unenforceable. The provisions contained in this Section 14(d) will be applicable until (1) the California Supreme Court holds that a pre-dispute jury trial waiver provision similar to that contained in Section 14(c) is valid and enforceable; or (2) the California legislature enacts a statute which becomes law, authorizing pre-dispute jury trial waivers similar to that contained in Section 14(c) and, as a result, such waivers become enforceable.

(ii) Other than (1) nonjudicial foreclosure of security interests in real or personal property, (2) the appointment of a receiver or (3) the exercise of other provisional remedies (any of which may be initiated pursuant to applicable law), any controversy, dispute or claim (each, a "*Claim*") between the parties arising out of or relating to this Agreement, will be resolved by a reference proceeding in California in accordance with the provisions of Section 638 *et seq.* of the California Code of Civil Procedure ("*CCP*"), or their successor sections, which shall constitute the exclusive remedy for the resolution of any Claim, including whether the Claim is subject to the reference proceeding. Except as otherwise provided in this Agreement, venue for the reference proceeding will be in the Superior Court or Federal District Court in the County or District where venue is otherwise appropriate under applicable law (the "*Court*").

(iii) The referee shall be a retired Judge or Justice selected by mutual written agreement of the parties. If the parties do not agree, the referee shall be selected by the Presiding Judge of the Court (or his or her representative). A request for appointment of a referee may be heard on an ex parte or expedited basis, and the parties agree that irreparable harm would result if ex parte relief is not granted. The referee shall be appointed to sit with all the powers provided by law. Each party shall have one preemptory challenge pursuant to CCP §170.6. Pending appointment of the referee, the Court has power to issue temporary or provisional remedies.

(iv) The parties agree that time is of the essence in conducting the reference proceedings. Accordingly, the referee shall be requested to (1) set the matter for a status and trial-setting conference within fifteen (15) days after the date of selection of the referee, (2) if practicable, try all issues of law or fact within ninety (90) days after the date of the conference and (3) report a statement of decision within twenty (20) days after the matter has been submitted for decision. Any decision rendered by the referee will be final, binding and conclusive, and judgment shall be entered pursuant to CCP §644.

(v) The referee will have power to expand or limit the amount and duration of discovery. The referee may set or extend discovery deadlines or cutoffs for good cause, including a party's failure to provide requested discovery for any reason whatsoever. Unless otherwise ordered, no party shall be entitled to "priority" in conducting discovery, depositions may be taken by either party upon seven (7) days written notice, and all other discovery shall be responded to within fifteen (15) days after service. All disputes relating to discovery which cannot be resolved by the parties shall be submitted to the referee whose decision shall be final and binding.

(vi) Except as expressly set forth in this Agreement, the referee shall determine the manner in which the reference proceeding is conducted including the time and place of hearings, the order of presentation of evidence, and all other questions that arise with respect to the course of the reference proceeding. All proceedings and hearings conducted before the referee, except for trial, shall be conducted without a court reporter, except that when any party so requests, a court reporter will be used at any hearing conducted before the referee, and the referee will be provided a courtesy copy of the transcript. The party making such a request shall have the obligation to arrange for and pay the court reporter. Subject to the referee's power to award costs to the prevailing party, the parties will equally share the cost of the referee and the court reporter at trial.

(vii) The referee shall be required to determine all issues in accordance with existing case law and the statutory laws of the State of California. The rules of evidence applicable to proceedings at law in the State of California will be applicable to the reference proceeding. The referee shall be empowered to enter equitable as well as legal relief, provide all temporary or provisional remedies, enter equitable orders that will be binding on the parties and rule on any motion which would be authorized in a trial, including without limitation motions for summary judgment or summary adjudication. The referee shall issue a decision at the close of the reference proceeding which disposes of all claims of the parties that are the subject of the reference. The referee's decision shall be entered by the Court as a judgment or an order in the same manner as if the action had been tried by the Court. The parties reserve the right to appeal from the final judgment or order or from any appealable decision or order entered by the referee. The parties reserve the right to findings of fact, conclusions of laws, a written statement of decision, and the right to move for a new trial or a different judgment, which new trial, if granted, is also to be a reference proceeding under this provision.

(viii) If the enabling legislation which provides for appointment of a referee is repealed (and no successor statute is enacted), any dispute between the parties that would otherwise be determined by reference procedure will be resolved and determined by arbitration. The arbitration will be conducted by a retired judge or Justice, in accordance with the California Arbitration Act §1280 through §1294.2 of the CCP as amended from time to time. The limitations with respect to discovery set forth above shall apply to any such arbitration proceeding.

(ix) THE PARTIES RECOGNIZE AND AGREE THAT ALL DISPUTES RESOLVED UNDER THIS REFERENCE PROVISION WILL BE DECIDED BY A REFEREE AND NOT BY A JURY, AND THAT THEY ARE IN EFFECT WAIVING THEIR RIGHT TO TRIAL BY JURY IN AGREEING TO THIS REFERENCE PROVISION. AFTER CONSULTING (OR HAVING HAD THE OPPORTUNITY TO CONSULT) WITH COUNSEL OF THEIR OWN CHOICE, EACH PARTY KNOWINGLY AND VOLUNTARILY AND FOR THEIR MUTUAL BENEFIT AGREES THAT THIS REFERENCE PROVISION WILL APPLY TO ANY DISPUTE BETWEEN THEM WHICH ARISES OUT OF OR IS RELATED TO THIS AGREEMENT AND THE LOAN DOCUMENTS.

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[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

Address of Grantor:

2801 Network Blvd., Suite 300
Frisco, TX 75034
Attn: CFO

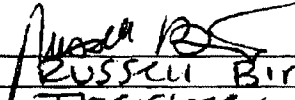
GRANTOR:

GENBAND US LLC,
a Delaware limited liability company

By: _____

Name: _____

Its: _____


RUSSELL BIRK
TREASURER

AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT

PATENT
REEL: 027315 FRAME: 0303

Address of Secured Party:

Livonia Operations Center
Mail Code 7512
39200 Six Mile Road
Livonia, MI 48152
Attn: Credit Manager

With a copy to:

1201 East Beltline Road, Suite 150
Richardson, TX 75081
Attn: Stu Bell

SECURED PARTY:

COMERICA BANK

By: *Stu Bell*
Name: *Stu Bell*
Its: *Vice President*

AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT

PATENT
REEL: 027315 FRAME: 0304

EXHIBIT A

List of Copyrights

Copyright Registrations:

REGISTRATION NUMBER	TITLE	COUNTRY	REGISTRATION DATE*
TX 6-022-716	DCO: release 17.3 source code.	US	2004-08-24
TX 6-001-903	DCO: Release 19 source code.	US	2004-08-31
TXu 1-148-476	DCO Release 2.2.	US	2003-09-29
TX 5-979-406	EGSNO – TMS3205 firmware assembly code.	US	2003-09-29
TX 5-964-504	DCO Release 21 software.	US	2003-10-07
TX 5-902-154	RTIF prom source code.	US	2003-09-29
TX 5-880-407	DCO.	US	2003-09-29
TX 5-867-378	DCO Release 24 software.	US	2003-09-29
TX 6-029-787	Rtcrom151.txt: RTC EPROM startup routine / author, Roger M. Sullivan.	US	2002-11-05

*According to Public Records

Copyright Applications:

None

EXHIBIT B

List of Patents

Patents:

Patent Number	Date Issued	Title
7774481	08/10/2010	Methods And Apparatus For Implementing A Pluggable Policy Module Within A Session Over Internet Protocol Network
7912062	03/22/2011	Methods And Apparatus For Managing Addresses Related To Virtual Partitions Of A Session Exchange Device
6512764	01/28/2003	Method and Apparatus for Providing Voice Signals to and from a Telecommunications Switch
7099310	08/29/2006	Method and Apparatus for Providing Voice Signals to and from a Telecommunications Switch
7738449	06/15/2010	Method and Apparatus for Providing Voice Signals to and from a Telecommunications Switch
6483029	11/19/2002	Convertible Telecommunications Chassis and Method for Converting Same
6582241	06/24/2003	Insertion/Extraction Apparatus for Circuit Cards
6297958	10/02/2001	System and Method for Housing Telecommunications Equipment
7385963	06/10/2008	System and Method for Communicating Telecommunication Information from a Telecommunication Network to a Broadband Network
7184427	02/27/2007	System and Method for Communicating Telecommunication Information from a Broadband Network to a Telecommunication Network
6526046	02/25/2003	System and Method for Communicating Telecommunication Information Using Asynchronous Transfer Mode
6879667	04/12/2005	System and Method for Interfacing Telephony Voice Signals with a Broadband Access Network
6512762	01/28/2003	System and Method for Communicating Telecommunication Information Between Customer Premises Equipment and Network Equipment
6466573	10/15/2002	System and Method for Communicating Telecommunication Information Between a Telecommunication Switch and Customer Premises Equipment

Patent Number	Date Issued	Title
6404763	06/11/2002	System and Method for Communicating Telecommunication Information Between Network Equipment and a Plurality of Local Loop Circuits
6996134	02/07/2006	System and Method for Reliably Communicating Telecommunication Information
7149182	12/12/2006	System and Method for Providing Lifeline Telecommunication Service
7245583	07/17/2007	System and Method for Providing Lifeline Telecommunication Service to Line-powered Customer Premises Equipment
7239628	07/03/2007	Line-powered Network Interface Device
7706290	04/27/2010	Object-Based Operation and Maintenance (OAM) Systems and Related Methods and Computer Program Products
6754221	06/22/2004	System and Method for Selecting a Compression Algorithm According to an Available Bandwidth
7675900	03/09/2010	System and Method for Interfacing Between Signaling Protocols
6839342	01/04/2005	System and Method for Interfacing Signaling Information and Voice Traffic
6862644	03/01/2005	Backplane Architecture for a Telecommunications System Chassis
7170854	01/30/2007	System and Method Using Switch Fabric to Support Redundant Network Ports
7016340	03/21/2006	System and Method for Testing a Voice Gateway
7120153	10/10/2006	System and Method for Cross Connecting an ATM Network and a Telecommunication Switch
7864665	01/04/2011	Methods and Systems for Detecting IP Route Failure and for Dynamically Re-Routing VoIP Sessions in Response to Failure
7447220	11/04/2008	Methods and Systems for Packet Classification with Improved Memory Utilization in a Media Gateway
7809128	10/05/2010	Methods and Systems for Per-Session Traffic Rate Policing in a Media Gateway
7764605	07/27/2010	Methods and Systems for Measurement-Based Call Admission Control in a Media Gateway
7725708	05/25/2010	Methods and Systems for Automatic Denial of Service Protection in an IP Device
7167473	01/23/2007	Method for Device Addressing Using SNMP Community String-based Routing
7155511	12/26/2006	Method for Encoding an Interface Index in a SNMP Format
7266122	09/04/2007	System and Method for Allocating Bandwidth in a Communications Environment

Patent Number	Date Issued	Title
7349344	03/25/2008	System and Method for Performing Subscriber Loop Testing in an Optical Network
7760657	07/20/2010	System and Method for Performing Subscriber Loop Testing in an Optical Network
7961849	06/14/2011	Implementing an Emergency Services Solution
7477623	01/13/2009	Methods, Systems, and Computer Program Products for Caching and Re-Using Bearer Channels for Voice-Over-Packet (VoP) Sessions Involving Wireless Entity
6594704	07/15/2003	Method of Managing and Using Multiple Virtual Private Networks in a Router with a Single Routing Table
7613111	11/03/2009	Methods, Systems, and Computer Program Products for Dynamic Blocking and Unblocking of Media Over Packet Resources
7792150	09/07/2010	Methods, Systems, and Computer Program Products for Supporting Transcoder-Free Operation in Media Gateway
7254109	08/07/2007	Fault Tolerant Correlation Engine Method and System for Telecommunications Networks
7424025	09/09/2008	Methods and Systems for Per-Session Dynamic Management of Media Gateway Resources
7940772	05/10/2011	Methods, Systems, and Computer Program Products for Transporting ATM Cells in a Device Having an Ethernet Switching Fabric
7792096	09/07/2010	Methods, Systems, and Computer Program Products for Distributed Resource Allocation Among Clustered Media Gateways in a Communications Network
7616752	11/10/2009	Methods, Systems and Computer Program Products for Providing Call Waiting and Caller ID and for Toggling Between Active and Waiting Calls Using Session Initiation Protocol (SIP)
7835346	11/16/2010	Methods, Systems, and Computer Program Products for Providing Transcoder Free Operation (TrFO) and Interworking Between Unlicensed Mobile Access (UMA) and Universal Mobile Telecommunications Systems (UMTS) Call Legs Using a Media Gateway
7881188	02/01/2011	Methods, Systems, And Computer Program Products For Implementing Link Redundancy In A Media Gateway
7380011	05/27/2008	Methods and Systems for Per-Session Network Address Translation (NAT) Learning and Firewall Filtering in Media Gateway
7492767	02/17/2009	Methods, Systems, and Computer Program Products for Throttling Network Address Translation (NAT) Learning Traffic In A Voice Over IP Device
7042859	05/09/2006	Methods and Systems for Performing Call Handover in a Media Gateway

Patent Number	Date Issued	Title
7948985	05/24/2011	Methods, Systems, And Computer Program Products for Source-Aware IP Routing At A Media Gateway
7092493	08/15/2006	Methods and Systems for Providing Lawful Intercept of a Media Stream in a Media Gateway
7830864	11/09/2010	Apparatus and Methods for Per-Session Switching for Multiple Wireline and Wireless Data Types
7453893	11/18/2008	Methods and Apparatus for Generating Session Detail Records
7965627	06/21/2011	QoS Measurement with Split-Path Zero-Latency Virtual Jitter Buffer
7729346	06/01/2010	UMTS Call Handling Methods and Apparatus
7110368	09/19/2006	System and Method for Distributed Multi-Party Call Control
6944191	09/13/2005	Method of Optimizing Equipment Utilization in Telecommunication Access Network
7006489	02/28/2006	Voice Packet Switching System and Method
7593415	09/22/2009	Voice Packet Switching System and Methods
7961739	06/14/2011	Systems and Methods for Voice Over Multiprotocol Label Switching
7616740	11/10/2009	Method, System, and Computer-Readable Medium for Simulating a Converged Network with a Single Media Gateway and Media Gateway Controller
7941537	05/10/2011	System, Method, and Computer-Readable Medium for Resource Migration in a Distributed Telecommunication System
7701857	04/20/2010	Method, System, and Computer-Readable Medium for Resource-Based Route Selection
7940660	05/10/2011	Methods, Systems, and Computer Program Products for Voice Over IP (VOIP) Traffic Engineering and Path Resilience Using Media Gateway and Associated Next-Hop Routers
7715403	05/11/2010	Methods, Systems, and Computer Program Products for Load Balanced and Symmetric Path Computations for VoIP Traffic Engineering
7570594	08/04/2009	Methods, Systems, and Computer Program Products for Multi-path Shortest-path-first Computations and Distance-based Interface Selection for VoIP Traffic
7969890	06/28/2011	Methods, Systems, and Computer Program Products for Load Balanced and Symmetric Path Computations for VoIP Traffic Engineering
6956820	10/18/2005	Methods, Systems, and Computer Program Products for Voice Over IP (VOIP) Traffic Engineering and Path Resilience Using Network-Aware Media Gateway
7911940	03/22/2011	Adaptive Redundancy Protection Scheme

Patent Number	Date Issued	Title
6674850	01/06/2004	Call Processing Digit Translation and Characterization
6829351	12/07/2004	Apparatus and Method of Replacing Telephony Cards Without Down Time
6980511	12/27/2005	Method of Active Dynamic Resource Assignment in a Telecommunications Network
7162024	01/09/2007	System and Method for Telephony Call Control
7016685	03/21/2006	System and Methods of Dynamic Load Balancing Across Processor Nodes
6977933	12/20/2005	Methods and Systems for Providing Session Initiation Protocol (SIP) Trunk Groups
7861003	12/28/2010	Adaptive Feedback For Session Over Internet Protocol
7865612	01/04/2011	Method and Apparatus for Partitioning Resources Within a Session-Over-Internet-Protocol (SOIP) Session Controller
7860990	12/28/2010	Session Data Records And Related Alarming Within A Session Over Internet Protocol (Soip) Network
7716729	05/11/2010	Method For Responding To Denial Of Service Attacks At The Session Layer Or Above
7729344	06/01/2010	Methods And Apparatus For Controlling Signaling Associated With A Private Branch Exchange Within A Session Over Internet Protocol Network
7626929	12/01/2009	Methods And Apparatus For Predictive Call Admission Control Within A Media Over Internet Protocol Network
7995557	08/09/2011	System and Method for Determining Network Quality for VoIP Calls
7990984	08/02/2011	System and Method for Communicating Telecommunications Information from a Broadband Network to a Telecommunication Network
6233223	05/15/2001	Control of Distributed Allocation of Channels
5913187	06/15/1999	Nonlinear Filter for Noise Suppression in Linear Prediction Speech Processing Devices
6011846	01/04/2000	Methods and Apparatus for Echo Suppression
6665402	12/16/2003	Method And Apparatus For Performing Echo Cancellation
6269100	07/31/2001	Channel Transfer with Retrieve
6144671	11/07/2000	Call Redirection Methods in a Packet Based Communication Network
6636522	10/21/2003	Call Redirection Methods in a Packet Based Communication Network
6337858	01/08/2002	Method and Apparatus for Originating Voice Calls from a Data Network
6141342	10/31/2000	Apparatus and Method for Completing Inter-Switch Calls Using Large Trunk Groups
7269167	09/11/2007	Direct End-Office Trunking

Patent Number	Date Issued	Title
6167126	12/26/2000	Method For Flexibly Provisioning Switching Devices And A Switching Device Incorporating The Same
6088328	07/11/2000	System and Method for Restoring Failed Communication Services
6785840	08/31/2004	Call Processor System and Methods
6359979	03/19/2002	Enhanced Call Routing In Competitive Local Telephone Networks
6611533	08/26/2003	Public Telephone Network, Intelligent Network, and Internet Protocol Network Services Interworking
6529524	03/04/2003	Computer Program Products, Methods, and Protocol for Interworking Services Between a Public Telephone Network, Intelligent Network, and Internet Protocol Network
6445695	09/03/2002	System and Method for Supporting Communications Services on Behalf of a Communications Device Which Cannot Provide Those Services Itself
6654452	11/25/2003	Method and Apparatus in a Communications System for Dynamic Call Rejection
6452922	09/17/2002	Method and Apparatus for Fallback Routing of Voice Over Internet Protocol Call
7515583	04/07/2009	Method and Apparatus for Providing a Configurable Quality of Service Threshold for Voice Over Internet Protocol
6243449	06/05/2001	Mass Calling Event Detection and Control
6832254	12/14/2004	Method and Apparatus for Associating an End-to-End Call Identifier with a Connection in a Multimedia Packet Network
6266395	07/24/2001	Single-Ended Subscriber Loop Qualification for XDSL Service
6611585	08/26/2003	Method and Apparatus for Intelligent Release Link Trunk
7233980	06/19/2007	System and Method for Dynamic Queuing in an Automatic Call Distributor
6757732	06/29/2004	Text-Based Communications Over a Data Network
6694153	02/17/2004	Service Control Point Location Register Function
6742042	05/25/2004	Method and Apparatus of Presenting Ticker Information
7047561	05/16/2006	Firewall for Real-Time Internet Applications
6754180	06/22/2004	System, Method, and Computer Program Product for Support of Bearer Path Services in a Distributed Control Network
6772210	08/03/2004	Method and Apparatus for Exchanging Communications Between Telephone Number Based Devices in an Internet Protocol Environment
6934279	08/23/2005	Controlling Voice Communications Over a Data Network
7023860	04/04/2006	Communications Network

Patent Number	Date Issued	Title
7058068	06/06/2006	Session Initiation Protocol Based Advanced Intelligent Network /Intelligent Network Messaging
6882721	04/19/2005	Method and Apparatus Enabling Local Number Portability in Telephone Networks
6421674	07/16/2002	Methods and Systems for Implementing a Real-Time, Distributed, Hierarchical Database Using a Proxiable Protocol
7274783	09/25/2007	Methods and Systems for Implementing a Real-Time, Distributed, Hierarchical Database Using a Proxiable Protocol
7146410	12/05/2006	System and Method for Executing Control Protocols Among Nodes in Separate IP Networks
6888839	05/03/2005	Method And Apparatus For Tunneling Operating Codes To And From A Call Server In A Packet Network
7046669	05/16/2006	Communications Network
6886043	04/26/2005	Communications Network
6683877	01/27/2004	Carrying Voice Traffic Over Broad Band Networks
6876646	04/05/2005	Collecting Information Before or During a Call
7272136	09/18/2007	Dualtone Multi Frequency Signal Detection
7068655	06/27/2006	Network Address and/or Port Translation
6987765	01/17/2006	Changing Media Sessions
7684317	03/23/2010	Protecting a Network From Unauthorized Access
7940654	05/10/2011	Protecting a Network From Unauthorized Access
7535823	05/19/2009	Method and System for Providing a Sparing Mechanism in a Circuit-Switched-to-Packet-Switched Interworking Peripheral
7408928	08/05/2008	Method and Apparatus for Setting Up Telephony Connections Between Two Address Domains Having Overlapping Address Ranges
7349533	03/25/2008	Telephony Transitioning System
6993595	01/31/2006	Address Translation Change Identification
7257109	08/14/2007	Dynamic Call Control
6791971	09/14/2004	Method and Apparatus for Providing a Communications Service for Communication and for Extending Packet Network Functionality
7907708	03/15/2011	Voice and Fax Over IP Call Establishment in a Communications Network
7480283	01/20/2009	Virtual Trunking Over Packet Networks
7224696	05/29/2007	Access Nodes in Packet-Based Communications Networks
7391780	06/24/2008	Method and Apparatus for Statistical Prediction of Access Bandwidth on an xDSL Network

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7301905	11/27/2007	Overload Control System and Method for a Telecommunications System
7107061	09/12/2006	Adaptive Call Gapping Overload Control System and Method for a Telecommunications System
7447150	11/04/2008	Automated Path Restoration for Packet Telephony
7283542	10/16/2007	Network Address Translator and Secure Transfer Device for Interfacing Networks
7213143	05/01/2007	Security Over a Network
7313131	12/25/2007	Processing of Communication Session Request Messages
6687251	02/03/2004	Method and Apparatus for Distributed MTP Level 2 Architecture
6978003	12/20/2005	Adaptive Call Routing For Multiple Telephony Terminals
7386604	06/10/2008	Signalling Method for Communications Networks
7640319	12/29/2009	Gateway Shared by Multiple Virtual Private Networks
7313145	12/25/2007	Method and System for Establishing Paths Between End Points in Packet Data Networks
7974268	07/05/2011	Internet Trunking Protocol
7619994	11/17/2009	Adapter for Use with a Tandem-Free Conference Bridge
7715537	05/11/2010	Metering in Packet-based Telephony Networks
6614896	09/02/2003	Advertising System for Callers to Busy Numbers
7580994	08/25/2009	Method and Apparatus for Enabling Dynamic Self-Healing of Multi-Media Services
7920551	04/05/2011	Multiple Access Service Convergence
7512118	03/31/2009	CODEC Negotiation Considering Quality and Costs
6678264	01/13/2004	Establishing Connections with a Pre-Specified Quality of Service Across a Communication Network
7916686	03/29/2011	Method and Communication Network Components for Managing Media Signal Quality
7649881	01/19/2010	Pinning the Route of IP Bearer Flows in a Next Generation Network
6885658	04/26/2005	Method and Apparatus for Interworking Between Internet Protocol (IP) Telephony Protocols
7817678	10/19/2010	Method and Apparatus for Time Alignment Along a Multi-Node Communication Link
7890657	02/15/2011	System and Method for Correct Routing and Enforcement Policy in a Network Having Address or Port Translation
7254832	08/07/2007	Firewall Control for Secure Private Networks with Public VOIP Access
6643297	11/04/2003	Network Service Provider Architecture in Communications Network
7649883	01/19/2010	Network Service Provider Architecture in Communications Network
6778503	08/17/2004	Automated Line Signal Processing

Patent Number	Date Issued	Title
6778494	08/17/2004	Label Switched Media Gateway and Network
6728783	04/27/2004	Intelligent Network
6424635	07/23/2002	Adaptive Nonlinear Processor for Echo Cancellation
5295183	03/15/1994	Congestion Control System for Telecommunications
6026356	02/15/2000	Method and Devices for Noise Conditioning Signals Representative of Audio Information in Compressed and Digitized Form
7995589	08/09/2011	Controlling Voice Communications Over a Data Network
7945663	05/17/2011	Systems, Methods and Computer Program Products for Adaptively Adjusting a Registration Interval of an Endpoint
6931211	08/16/2005	Reconfigurable Data Communications System With A Removable Optical Backplane Connector
7733783	06/08/2010	Ethernet Network Availability
7260741	08/21/2007	Method And System To Detect Software Faults
7505456	03/17/2009	Switching Architecture With Packet Encapsulation
7035289	04/25/2006	Communications Switching Architecture
7545801	06/09/2009	In-Band Control Mechanism For Switching Architecture
7587523	09/08/2009	Distributed Systems For Determining Card Status
7466924	12/16/2008	Reconfigurable Data Communications System With A Removable Optical Backplane Connector
7450614	11/11/2008	Communications Switching Architecture

Patent Applications:

Application Number	Filing Date	Title
11/864,069	09/28/2007	Methods And Apparatus For Bandwidth Management Within A Media Over Internet Protocol Network Based On A Session Description
12/129,766	05/30/2008	Methods And Apparatus For Network Traffic Distribution Based On Random Number Values
11/609,657	12/12/2006	System and Method for Providing Lifeline Telecommunication Service
10/364,010	02/10/2003	Method and System for Converged Service Delivery in a Telecommunications Network
12/475,450	05/29/2009	Methods, Systems, and Computer Readable Media for Performing Flow Compilation Packet Processing
12/700,444	02/04/2010	Systems, Methods, and Computer Readable Media for Providing Instantaneous Failover of Packet Processing Elements in a Network

Application Number	Filing Date	Title
12/467,242	05/15/2009	Methods, Systems, and Computer Readable Media for Maintaining Flow Affinity to Internet Protocol Security (IPSEC) Sessions in a Load-Sharing Security Gateway
12/506,234	07/20/2009	Methods, Systems, and Computer Readable Media for a Validation Framework for Validating Commands for Configuring Entities in a Telecommunications Network
12/482,217	06/10/2009	Methods, Systems, and Computer Readable Media for Providing Adaptive Jitter Buffer Management Based on Packet Statistics for Media Gateway
12/535,655	08/04/2009	Methods, Systems, and Computer Readable Media for Intelligent Optimization of Digital Signal Processor (DSP) Resource Utilization in a Media Gateway
12/554,841	09/04/2009	Methods, Systems, and Computer Readable Media for Verifying the Availability of an Internet Protocol (IP) Media Router During a Call Setup
12/489,264	06/22/2009	Methods, Systems, and Computer Readable Media for Providing Virtual 1:N Automatic Protection Switching (APS) and Dynamic, in Service Configuration Change for Optical Network Interface Equipment
12/860,605	08/20/2010	Systems, Methods, and Computer Readable Media for Selecting an Optimal Media Adaptation Resource for Latency-Sensitive Applications
12/725,437	03/16/2010	Methods, Systems, and Computer Readable Media for Providing Non-Access Stratum (NAS) Node Selection Function (NNSF) with Core Network (CN) Node Bearer Circuit Availability Monitoring and Availability-Based Load Sharing
12/720,647	03/09/2010	Methods, Systems and Computer Readable Media for Utilizing a Standard Spanning Tree Protocol to Indicate an Active Switching Fabric in a Network Node
12/721,516	03/10/2010	Card Guide Misalignment Prevention Apparatuses and Methods
12/775,454	05/06/2010	Methods, Systems, and Computer Readable Media for Providing Application Layer Firewall and Integrated Deep Packet Inspection Functions for Providing Early Intrusion Detection and Intrusion Prevention at an Edge Networking Device
12/757,780	04/09/2010	Systems, Methods, and Computer Readable Media for Loose Coupling of Multimedia Resource Function Controllers and Multimedia Resource Function Processors

Application Number	Filing Date	Title
13/026,967	02/14/2011	Methods, Systems, and Computer Readable Media for Automatic, Peer Node Transparent Rehomings of Time Division Multiplexed (TDM)-Based Signaling Channels in an X User Adaptation (XUA) Signaling Gateway
12/958,270	12/01/2010	Methods, Systems and Computer Readable Media for Supporting a Plurality of Real-Time Transport Protocol (RTP) Multiplexing Enablement Methods in a Media Gateway
61/385,833	09/23/2010	Methods, Systems and Computer Readable Media for Supporting a Plurality of Real-Time Transport Protocol (RTP) Multiplexing Methods in a Media Gateway
13/152,874	06/03/2011	Methods, Systems, and Computer Readable Media for Content Delivery Using Deep Packet Inspection
61/358,364	06/24/2010	DPI-Enabled Content Delivery
13/032,613	02/22/2011	Systems, Methods, and Computer Readable Media for Maintaining Packet Data Protocol (PDP) Context While Performing Data Offload
12/950,641	11/19/2010	Methods, Systems, and Computer Readable Media for Unifying Fixed and Mobile Devices via Third Party Call Control
11/047,264	01/31/2005	Methods and Systems for Dynamic Load Balancing Between Call Processors
61/389,600	10/04/2010	Optimization of Bearer Resources for IMS Roaming
12/974,986	12/21/2010	Dynamic Insertion of a Quality Enhancement Gateway
12/977,799	12/23/2010	Location Sharing Session
61/414,259	11/16/2010	Dynamic Method to Deny Users/Devices with Repeated Authentication Failures
61/412,783	11/11/2010	Dynamic Method to Deny Users/Devices with Repeated Authentication Failures
13/149,278	05/31/2011	Notification Services to One or More Subscriber Devices
13/045,479	03/10/2011	SIP Device-Level Call/Session/Service Management
13/039,290	03/02/2011	Local Advertisement Insertion Through Web Request Redirection
61/430,926	01/07/2011	DPI-Enabled Traffic Management for xDSL Networks
11/358,944	02/21/2006	Methods, Systems, and Computer Program Products for Providing Time Division Multiplexed (TDM) Terminating Service in a Packet Network
13/204,078	08/02/2011	Methods, Systems, and Computer Readable Media for Managing Social Interaction Histories
13/214,641	08/22/2011	Estimation of Speech Energy Based On Code Excited Linear Prediction (CELP) Parameters Extracted From a Partially-Decoded
13/165,425	06/21/2011	Methods, Systems, and Computer Readable Media for Fricatives and High Frequencies Detection

Application Number	Filing Date	Title
11/711,505	02/27/2007	Methods, Systems, And Computer Program Products For Oversubscription Of Wireless Media Gateway Resources
11/639,445	12/14/2006	Methods, Systems, and Computer Program Products For Performing Range-based Directory Number (DN) Screening
11/544,467	10/06/2006	Methods, Systems, and Computer Program Products for Hairpin Condition Elimination in a Telecommunications Network
11/580,224	10/12/2006	Methods, Systems, And Computer Program Products For Storing Communication Session Data At A Network Interface Module
11/965,892	12/28/2007	Methods, Systems, And Computer Program Products For Providing A Dynamic And Flexible Media Gateway Termination Identifier
11/965,994	12/28/2007	Methods, Systems, And Computer Program Products For Silence Insertion Descriptor (SID) Conversion
12/021,982	01/29/2008	Methods, Systems, and Computer Program Products For Synchronizing Subscriber Feature Data Across Multiple Domains
11/334,513	01/18/2006	Dynamic Loading for Signaling Variants
11/112,585	04/22/2005	System and Method for Load Sharing Among a Plurality of Resources
11/255,467	10/21/2005	Mobility Management Apparatus and Methods
11/538,384	10/03/2006	Method, System, and Computer-Readable Medium for Calculating an Echo Path Delay
11/132,893	05/19/2005	Methods and Apparatus for Interconnection of Media Gateways
11/443,774	05/31/2006	Methods and Systems for Unlicensed Mobile Access Realization in a Media Gateway
11/458,262	07/18/2006	Network Security Policy Mediation
10/666,217	09/18/2003	Methods and Systems for Locating Redundant Telephony Call Processing Hosts in Geographically Separate Locations
11/537,316	09/29/2006	Prioritization Within A Session Over Internet Protocol (SOIP) Network
11/537,329	09/29/2006	Multistage Prioritization Of Packets Within A Session Over Internet Protocol (SOIP) Network
11/537,345	09/29/2006	Quality Of Service Prioritization Of Internet Protocol Packets Using Session-Aware Components
11/314,119	12/21/2005	Media Stream Management
11/026,746	12/31/2004	Voice Over Ip (Voip) Network Infrastructure Components And Method
11/427,234	06/28/2006	Methods And Apparatus For Routing Ip Media Data Based On Cost (As Amended)

Application Number	Filing Date	Title
11/427,220	06/28/2006	Methods And Apparatus For Controlling Call Admission to a Network Based on Network Resources
11/427,171	06/28/2006	Methods And Apparatus For Forwarding Ip Calls Through A Proxy Interface
10/596,904	03/23/2007	Methods And Apparatus For Multistage Routing Of Packets Using Call Templates
12/748,321	03/26/2010	Methods and Apparatus for Multistage Routing of Packets Using Call Templates
12/860,588	08/20/2010	Method for Augmenting a Voice Call
12/860,594	08/20/2010	A Method for Performing Configurable Actions Based Upon Mobile Device Detection
12/938,077	11/02/2010	Methods, Systems, and Computer Readable Media for Offloading Internet Protocol Security (IPSEC) Processing Using an IPSEC Proxy Mechanism
13/115,948	05/25/2011	Methods, Systems, And Computer Readable Media For Adaptive Assignment Of An Active Security Association Instance In A Redundant Gateway Configuration
12/916,461	10/29/2010	Automated URL Transmission to Enable Multimedia Services
12/729,567	03/23/2010	Protecting a Network From Unauthorized Access
10/782,754	02/23/2004	Data Communication Apparatus and Method
12/772,702	05/03/2010	Metering in Packet-based Telephony Networks
10/723,835	11/26/2003	Messaging Service Interworking
11/452,743	06/14/2006	Selective Call Anchoring in a Multimedia Subsystem
11/466,115	08/22/2006	Multimedia Subsystem Service Control for Circuit-Switched Subsystem Calls
11/522,732	09/18/2006	Enhanced Security for Multimedia Domain (MMD) Network with Home and Visited Network Service Control
12/950,735	11/19/2010	Providing Security Between Network Elements in a Network
11/554,930	10/31/2006	Network Domain Selection
11/651,427	01/09/2007	Providing a Schedule for Active Events to be Processed by a Processor
11/563,306	11/27/2006	Multimedia Subsystem Control for Internet Protocol Based Television Services
11/425,436	06/21/2006	Methods and Apparatus for Identifying and Monitoring VOIP Media Plane Security Keys for Service Provider Lawful Intercept Use
11/616,679	12/27/2006	Voice Continuity Among User Terminals
12/151,683	05/08/2008	Media Gateway
11/961,933	12/20/2007	Controlling Services in a Circuit-Switched Network from a Packet Network

Application Number	Filing Date	Title
12/209,829	09/12/2008	Adding a Service Control Channel After Session Establishment
12/316,550	12/12/2008	Dynamically Binding a Logic Component to a Processing Point in a Software Execution Flow
12/333,678	12/12/2008	Content Overlays In On-Demand Streaming Applications
12/989,168	05/04/2011	Session Transfer Between Different Access Network Types
13/131,590	05/26/2011	Loop Condition Prevention at Internetwork Interface Boundary
60/882,713	12/29/2006	Methods And Apparatus For Implementing A Pluggable Policy Module Of A Session Border Controller Within A Session Over Internet Protocol Network
60/289,303	05/07/2001	System and Method for Interfacing Telephony Voice Signals with a Broadband Access Network
60/289,421	05/07/2001	System and Method for Communicating Telecommunication Information Between Customer Premises Equipment and Network Equipment with Greater Reliability
60/609,637	09/14/2004	Object-Based Operation and Maintenance (OAM) Systems and Related Methods
60/289,304	05/07/2001	Backplane Architecture for a Telecommunications System Chassis
60/289,605	05/07/2001	System and Method Using Switch Fabric to Support Redundant Network Ports
60/289,420	05/07/2001	System and Method for Cross Connecting an ATM Network and a Telecommunication Switch
60/616,651	10/07/2004	Methods And Systems For Dynamically Adjusting Load Sharing Distributions In Response To Changes In Network Conditions
60/507,923	10/01/2003	System and Method for Performing Subscriber Loop Testing in an Optical Network
60/637,431	12/17/2004	Methods and Systems for Caching and Re-Using Bearer Channels for Voice-Over-Packet (VoP) Sessions Involving Wireless Entities
61/170,454	04/17/2009	Methods, Systems, and Computer Readable Media for Performing Flow Compilation Packet Processing
61/171,306	04/21/2009	Methods, Systems, and Computer Readable Media for Maintaining Flow Affinity to Internet Protocol Security (IPSEC) Sessions in a Load-Sharing Security Gateway
61/165,845	04/01/2009	Methods, Systems, and Computer Readable Media for a Distributed Component Model Architecture (DCMA) in a Session over Internet Protocol (SoIP) Network

Application Number	Filing Date	Title
61/236,055	08/21/2009	Systems, Methods, and Computer Readable Media for Selecting an Optimal Media Adaptation Resource for Latency-Sensitive Applications
61/243,996	09/18/2009	Card Guide Misalignment Prevention Apparatuses and Methods
61/314,568	03/16/2010	Application Layer Firewall Function: SBC with Integrated DPI Technology for IPS/IDS
61/345,062	05/14/2010	Automatic Re-Homing of TDM-Based Signaling Channels in an XUA Signaling Gateway
60/654,548	02/18/2005	Methods, Systems, and Computer Program Products for Providing Time Division Multiplexed (TDM) Terminating Service in a Packet Network
60/759,596	01/17/2006	Methods, Systems, and Computer Program Products for Providing Transcoder Free Operation (TrFO) and Interworking Between Unlicensed Mobile Access (UMA) and Universal Mobile Telecommunications Systems (UMTS) Call Legs Using a Media Gateway
60/765,066	02/03/2006	Interface Based Multi-Port Routing Method
60/777,132	02/27/2006	Method of Optimizing Resource Utilization in Telecommunication 3G Wireless Network
60/809,447	05/30/2006	Range Based DN Screening
60/837,597	08/11/2006	Methods, Systems, and Computer Program Products for Associating Independent Legs of A Call In A Telecommunications Network
60/837,595	08/11/2006	Methods, Systems, and Computer Program Products for Hairpin Condition Elimination in a Telecommunications Network
60/877,438	12/28/2006	Method and Apparatus of Dynamic/Flexible Termination ID in Gateway Control Protocols
60/877,439	12/28/2006	SID Conversion
60/876,497	12/20/2006	Methods, Systems, And Computer Program Products for Source-Aware IP Routing At A Media Gateway
60/898,079	01/29/2007	Methods, Systems, and Computer Program Products For Synchronizing Subscriber Feature Data Across Multiple Domains
60/670,954	04/12/2005	Dynamic Loading for Signaling Variants
60/621,071	10/22/2004	Mobility Manager
60/611,221	09/18/2004	System Level / Wireless Media Gateway
60/234,852	09/22/2000	System and Method for Distributed Multi-Party Call Control
60/701,808	07/21/2005	Voice Over Multiprotocol Label Switching (VoMPLS)
60/685,863	05/31/2005	Methods and Systems for Unlicensed Mobile Access (UMA) Realization in a Media Gateway

Application Number	Filing Date	Title
60/748,800	12/09/2005	Method and System for Load Balanced and Symmetric Path Computations for VoIP Traffic Engineering
60/748,749	12/09/2005	Method and System for Distance-Based Interface-Selection for VoIP Call Setup and for Multi-Path Shortest-Path First Computations for VoIP Traffic...
60/551,814	03/10/2004	Methods and Systems for Multi-Path Adaptive Load Balancing and Network Awareness in Network-Wide VoIP Traffic Engineering
60/526,126	12/01/2003	Multi-Path, Adaptive Load Balancing in Network-Wide Traffic Engineering
60/234,861	09/22/2000	System and Method for Telephony Call Control
60/412,513	09/20/2002	Methods and Systems for Locating Redundant Telephony Call Processing Hosts in Geographically Separate Locations
60/777,242	02/28/2006	User-Selectable Prioritization Of Calls Within A Session Over Internet Protocol (SOIP) Network
60/882,717	12/29/2006	Methods And Apparatus For Controlling Signaling Associated With An Enterprise Private Branch Exchange Within A Session Over Internet Protocol Network
60/882,253	12/28/2006	Methods And Apparatus For Predictive Global Call Admission Control Within A Session Over Internet Protocol Network
60/152,140	08/31/1999	Call Processor System and Methods
60/115,678	01/13/1999	Method and Systems for SS7-TCAP Interworking
60/089,831	06/19/1998	Apparatus and Method for Routing Aural Information Over a Packet Network
60/104,908	10/20/1998	Dynamically Configurable QOS, Threshold for VOIP
60/090,075	06/19/1998	Apparatus and Method for Routing Aural Information Over a Packet Network
61/257,266	11/02/2009	IPSEC Tunnel and Transport Mode Proxy Mechanism
60/150,271	08/23/1999	Improved Packet Media Gateway
60/174,119	12/31/1999	System and Method for Dynamic Queuing in an Automatic Call Distributor
60/120,174	02/16/1999	Carrying ATM Attributes for Voice-Over-ATM Networks Within Session Descriptors
60/123,731	03/10/1999	Unified Toll-Free Services
60/367,676	03/26/2002	Ensuring Quality of Service Levels Over a Packet Network
60/389,007	06/14/2002	Self Improving Speed Prediction Method
60/448,459	02/21/2003	Data Communication Apparatus and Method
60/537,923	01/21/2004	Method for Dynamic Self-Healing of Telecom Services
60/554,605	03/19/2004	Communication Signal Processing Capabilities in a Communications Path

Application Number	Filing Date	Title
60/551,458	03/09/2004	Legacy Proxy-CSCF Call Session Control Function
60/622,139	10/26/2004	Application Control at a Policy Server
60/659,452	03/08/2005	Mult-access Convergence Services
60/710,056	08/22/2005	IMS service control for CS calls
60/717,966	09/16/2005	Enhanced Security for Multimedia Domain (MMD) Network with Home and Visited Network Service Control
60/731,358	10/28/2005	Capability List Design for SNPE Coordination
60/731,676	10/31/2005	Network Domain Selection In The HSS
60/757,449	01/09/2006	Dynamic Events Scheduling in a Resource Limited Environment
60/137,867	06/07/1999	Method and Apparatus for Internetworking Between IP Telephony Protocols
61/007,545	12/31/2007	Media Gateway
61/000,566	10/26/2007	Media Gateway
60/984,817	11/02/2007	Network Recovery Procedures for the Home Subscriber Server
60/971,621	09/12/2007	Mechanism for Optimization of Transparent Signaling with IMS Centralized Services
61/013,144	12/12/2007	Mechanism to Provide Configurable Message Handling and Routing Behavior in Multi-Purpose Network Applications
61/046,928	04/22/2008	Multi-Media Session Transfers Using GN Reference Point of ICS
61/052,782	05/16/2008	System and Method Suitable for Providing Communication Capabilities to a Multimedia Device
61/119,959	12/04/2008	Method of ISUP and SIP Interworking with Loop Prevention and Service Transparency
60/971,621	09/12/2007	Mechanism for Optimization of Transparent Signaling with IMS Centralized Services
10/991,686	11/18/2004	Methods and Systems for Providing Redundancy Protection in a Y-Cable-Based Signal Transmitter Arrangement
09/632,554	08/04/2000	Statistics Updating System
10/068,147	02/06/2002	Efficient Counter Retrieval
10/102,169	03/20/2002	Synchronization Scheme
09/470,312	12/22/1999	Method and Apparatus of Prioritized Weighted Fair Queuing
60/637,427	12/17/2004	Using SIP Event Package for Hookflash Notification to Support Legacy Class 5 Feature
12/748,327	03/26/2010	Methods, Systems, and Computer Readable Media for a Distributed Component Model Architecture (DCMA) in a Session over Internet Protocol (SoIP) Network

Application Number	Filing Date	Title
11/544,455	10/06/2006	Methods, Systems, and Computer Program Products for Associating Independent Legs of A Call In A Telecommunications Network
10/809,963	03/26/2004	Data Communication Via Translation Map Exchange
10/714,106	11/14/2003	Methods and Systems for Providing Transport of Media Gateway Control Commands Using High-Level Datalink Control (HDLC) Protocol
60/751,132	12/16/2005	Hair Pin Elimination
60/825,125	09/09/2006	System, Method, and Computer-Readable Medium for Converging the Representation of Presence States of Multiple Devices of a Single User
09/220,020	12/23/1998	Direct End-Office ATM Trunking
09/219,682	12/23/1998	Method and Apparatus for Providing a Configurable Quality of Service Threshold for Voice Over Internet Protocol
61/247,113	09/30/2009	Heatsink with Living Hinge for Thermal and Mechanical Partitioning and Unique Spring Loading Mechanism
11/482,236	06/30/2006	SMS Delivery Over a Multimedia Subsystem
11/462,182	08/03/2006	Location Change Detection for Emergency Services
12/006,290	12/31/2007	Media Gateway
11/771,270	06/29/2007	Methods And Apparatus For Dual-Tone Multi-Frequency Signal Conversion Within A Media Over Internet Protocol Network
11/965,272	12/27/2007	Methods And Apparatus For Dual-Tone Multi-Frequency Signal Analysis Within A Media Over Internet Protocol Network
11/364,018	02/27/2006	Synchronization Scheme
11/139,019	05/26/2005	Methods, Systems, and Computer Program Products for Implementing Automatic Protection Switching for Media Packets Transmitted Over an Ethernet Switching Fabric
11/282,970	11/18/2005	Methods, Systems, and Computer Program Products for Session Initiation Protocol (SIP) Fast Switchover
11/078,531	03/11/2005	System and Method for Routing VoIP Calls
11/427,200	06/28/2006	Methods And Apparatus For Controlling Call Admission To A Network Based On Call Peers
10/675,645	09/30/2003	Media Proxy Having Interface to Multiple Virtual Private Networks
11/589,435	10/30/2006	Providing a Capability List of a Predefined Foprmate in a Communications Network
11/536,921	09/29/2006	Enterprise Mobility
12/172,562	07/14/2008	Method for Improving Subscriber Data Integrity in an IMS Network
61/141,008	12/29/2008	Adaptive Intelligent Optimal Registration Interval Determination Algorithm Ensuring High Availability

Application Number	Filing Date	Title
10/983,498	11/8/2004	Legacy Proxy-CSCF Call Session Control Function
11/283,428	11/18/2005	Application Control at a Policy Server
12/004,214	12/20/2007	Topology Hiding of a Network for an Administrative Interface Between Networks
12/330,899	12/09/2008	Integrating Telephony Applications and Television Broadcasts on a Multimedia Device
61/414,272	11/16/2010	Systems and Methods for Enabling Personalization of Data Service Plans
61/053,782	05/16/2008	System and Method Suitable for Providing Communication Capabilities to a Multimedia Device
61/420,272	12/06/2010	Systems and Methods for Dynamic Congestion Management in Communications Networks
61/449,068	03/03/2011	Systems and Methods for Intelligent Network Edge Traffic and Signaling Management
13/180,577	07/12/2011	Methods, Systems, and Computer Readable Media for Deriving User Availability from User Context and User Responses to
60962290	07/27/2007	Switch Having Notification System
12220844	07/28/2008	Switch Having Notification System
61319708	03/31/2010	Systems And Methods For Fused Services Including An Integrated Management System
13077723	03/31/2011	Systems And Methods For Fused Services Including An Integrated Management System
10430052	05/05/2003	Service Description And Development Processes
10816223	04/01/2004	Methods And Systems For Determining Network Integrity And Providing Improved Network Availability
11888396	07/31/2007	Method And System To Detect Software Faults
12367253	02/06/2009	Switching Architecture With Packet Encapsulation
12267743	11/10/2008	Communications Switching Architecture
12477507	06/03/2009	Communications Switching Architecture
60430494	12/02/2002	Communications Switching Architecture
60459548	04/01/2003	Method To Improve Ethernet Network Availability
60377680	05/03/2002	Communications Switching Architecture
60430720	12/03/2002	Communications Switching Architecture

EXHIBIT C

Trademark and Service Mark Registrations





Mark	Registration No.	Registration Date
CEDAR POINT COMMUNICATIONS	2,772,142	10/07/2003
DCO	1,187,459	01/26/1982
DMS & Design DMS	1,109,917	12/26/1978
DRIVING THE NETWORK EVOLUTION	3,874,023	11/09/2010
G6	2,450,844	05/15/2001
G6 & Design 	2,449,024	05/08/2001
G9	3,653,287	07/14/2009
G9 & Design 	3,653,286	07/14/2009
GENBAND	3,446,876	06/10/2008
GENBAND G2	3,742,792	01/26/2010
INTELLICONNECT (goods)	3,374,331	01/22/2008
Misc. Design - Circles 	2,449,025	05/08/2001
NETSCAN	2,972,592	07/19/2005
NETWORK WITHOUT LIMITS (goods)	3,367,161	01/08/2008
NETWORK WITHOUT LIMITS (services)	3,386,856	02/19/2008
NEXTONE (Goods)	3,171,497	11/14/2006
NEXTONE (Services)	3,171,496	11/14/2006
SANTERAONE	2,559,814	04/09/2002
TOPS	1,037,809	04/13/1976

EXHIBIT C

Trademark and Service Mark Applications

Mark	Application No.	Filing Date
C SERIES	77/627,162	12/05/2008
C3	77/627,091	12/05/2008
G SERIES	77/627,155	12/05/2008
GENBAND GENIUS	85130010	15-Sep-2010
GENBAND GENIUS & Design		
	85130045	15-Sep-2010
GENVIEW (services)	77/981,032	12/05/2008
P SERIES	85/129,998	09/15/2010
S2	85/150,701	10/12/2010
S3	77/627,100	12/05/2008
S9	77/627,106	12/05/2008