

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VERIZON BUSINESS NETWORK SERVICES INC.	08/01/2009
<b>RECEIVING PARTY DATA</b>	
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<b>Property Type</b>	<b>Number</b>
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<b>ATTORNEY DOCKET NUMBER:</b>	20070438C1
<b>NAME OF SUBMITTER:</b>	JOSEPH R. PALMIERI
<b>SIGNATURE:</b>	/Joseph R. Palmieri, Reg. No. 40,760/
<b>DATE SIGNED:</b>	06/17/2021
<b>Total Attachments: 6</b>	
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ASSIGNMENT

This ASSIGNMENT is effective as of August 1, 2009 between Verizon Business Network Services Inc., a corporation existing under the laws of Delaware and having an office located at 22001 Loudoun County Parkway, Ashburn, Virginia 20147 (hereinafter "ASSIGNOR"), and Verizon Patent and Licensing Inc., a corporation existing under the laws of Delaware and having an office located at One Verizon Way, Basking Ridge, New Jersey 07920 (hereinafter "ASSIGNEE").


WHEREAS, ASSIGNEE is desirous of acquiring ownership of the United States and/or foreign Letters Patent and Applications for Letters Patent identified in Schedule A, as well as any legal equivalents and counterparts thereof in all countries or jurisdictions worldwide (whether listed on Schedule A or not), and the inventions disclosed therein (all hereinafter referred to as the "Patent Assets").

WHEREAS, ASSIGNOR is desirous of granting to ASSIGNEE its ownership of the aforesaid Patent Assets.

NOW, THEREFORE, in consideration of the premises and the mutual covenants set forth herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by ASSIGNOR and ASSIGNEE, and subject to any rights and licenses under the Patent Assets granted to third parties on or before the effective date hereof, ASSIGNOR does hereby assign unto ASSIGNEE (a) all worldwide right, title and interest of ASSIGNOR in and to the Patent Assets (subject, however, to applicable patent laws in the respective countries or jurisdictions issuing such Patent Assets), the right to claim priority therefrom, and in and to all additional Letters Patent worldwide to be obtained from such Patent Assets and from any future applications, continuations, divisions, renewals, extensions, substitutes, reissues or re-examinations which claim priority therefrom, each and all to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the terms for which any such Letters Patent are granted, plus any extensions, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment not been made; and (b) all claims for past and future infringements of said Patent Assets, with the right to sue for and obtain all remedies for such infringements (including past and future damages and equitable relief) for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives.

ASSIGNOR authorizes and requests the United States Commissioner of Patents and Trademarks (or similar official) to issue any and all United States Letters Patent resulting from the Patent Assets or any divisions, reissues, continuations, renewals, extensions, substitutes or re-examinations thereof to ASSIGNEE as assignee of ASSIGNOR's interest therein.

Verizon Business Network Services Inc.

By:   
Name: SUSAN MARIE  
Title: ASST SECRETARY

**SCHEDULE A**

Docket Number	Ctry	Appl. Num.	File Date	Application Title
20070017	US	11694441	30-Mar-2007	MANAGING MULTIPLE MEDIA CONTENT SOURCES
20070044	US	11693283	29-Mar-2007	INTERCONNECTING MULTIPLE MPLS NETWORKS
20070070	US	11694035	30-Mar-2007	SECURITY DEVICE WITH DISPLAY
20070071	US	11694037	30-Mar-2007	Security Device Reader
20070086	US	11873827	17-Oct-2007	System, Method and Computer-Readable Storage Medium for Calculating Addressing and Bandwidth Requirements of a Network
20070087	US	11873877	17-Oct-2007	Apparatus, Method and Computer-Readable Storage Medium for Calculating Throughput Requirements of a Network
20070094	US	11849034	31-Aug-2007	INSTANT MESSENGER LOCATION BUDDY
20070122	US	11769836	28-Jun-2007	Methods and Computer Program Products For Route Determination
20070123	US	11769816	28-Jun-2007	Methods and Computer Program Products For Route Determination
20070124	US	11943067	20-Nov-2007	Display of End-to-End Physical Layer Signal Flow
20070126	US	11772403	02-Jul-2007	METHOD AND SYSTEM FOR PROVIDING AUTOMATIC DISABLING OF NETWORK DEBUGGING
20070129	US	11765112	19-Jun-2007	NETWORK CONFIGURATION AND ROUTING
20070134	US	11772053	29-Jun-2007	INTELLIGENT NETWORK RESTORATION
20070136	US	11769975	28-Jun-2007	Systems and Methods For Verification of IP Device Location
20070146	US	11769295	27-Jun-2007	Methods and Systems For Secure Voice-Authenticated Electronic Payment
20070147	US	11766383	21-Jun-2007	FLEXIBLE LIFESTYLE PORTABLE COMMUNICATIONS DEVICE
20070177	US	11770561	28-Jun-2007	METHOD AND SYSTEM FOR MONITORING AND ANALYZING OF ROUTING IN IP NETWORKS
20070186	US	11848925	31-Aug-2007	METHOD AND SYSTEM FOR PROVIDING USER CONFIGURABLE DIFFERENTIATED SERVICE

Recordable Patent Assignment  
(VBNS to VPLI)

20070198	US	11760395	08-Jun-2007	METHOD AND SYSTEM FOR PROVIDING INTELLIGENT CALL REJECTION AND CALL ROLLOVER IN A TELEPHONY NETWORK
20070202	US	11760419	08-Jun-2007	METHOD AND SYSTEM FOR PROVIDING INTELLIGENT CALL REJECTION AND CALL ROLLOVER IN A DATA NETWORK
20070207	US	12016260	18-Jan-2008	Method and System for SMS/MMS Messaging to a Connected Device
20070208	HK	09105292.5	23-Jun-2008	Path Testing and Switching
20070208	CN	200810128689.0	23-Jun-2008	Path Testing and Switching
20070208	US	11862418	27-Sep-2007	Path Testing and Switching
20070209	WO	US08081304	27-Oct-2008	Methods and Systems for Providing Efficient Provisioning of Data Flows
20070209	US	11925246	26-Oct-2007	Methods and Systems for Providing Efficient Provisioning of Data Flows
20070210	US	11960240	19-Dec-2007	Dynamic Radius
20070211	US	11959025	18-Dec-2007	Dynamic Authentication Gateway
20070227	US	12055410	26-Mar-2008	Outage Analysis System
20070251	US	11935066	05-Nov-2007	Data Structure Versioning for Data Management Systems and Methods
20070295	US	11862659	27-Sep-2007	Systems and Methods for Providing Multiple Simultaneous Calls From the Same Prepaid Account
20070301	US	11957692	17-Dec-2007	Grammar Weighting Voice Recognition Information
20070310	WO	US08084716	25-Nov-2008	System and Method for Dual-Mode Handoff
20070310	US	11960358	19-Dec-2007	System and Method for Dual-Mode Handoff
20070328	US	11965173	27-Dec-2007	Method and System for Keying and Securely Storing Data

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20070329	US	11965373	27-Dec-2007	Method and System for Providing Centralized Data Field Encryption, and Distributed Storage and Retrieval
20070336	US	11933700	01-Nov-2007	Data Migration
20070337	US	11965449	27-Dec-2007	Method and System for Providing Data Field Encryption and Storage
20070380	US	11964616	26-Dec-2007	Method and System for Monitoring and Analyzing of IP Networks Elements
20070390	US	11961243	20-Dec-2007	Vendor Facility Customer Assignment
20070409	US	12126571	23-May-2008	Malware Detection Device
20070410	US	12190072	12-Aug-2008	Unauthorized Data Transfer Detection and Prevention
20070412	US	11957738	17-Dec-2007	Piracy Prevention, Detection, and Content Management
20070423	US	11955844	13-Dec-2007	MULTIMODAL RESOURCE MANAGEMENT SYSTEM
20070435	US	11961339	20-Dec-2007	Multimedia Personal Assistant
20070436	US	11961194	20-Dec-2007	Multimedia Portal
20070438	US	11936479	07-Nov-2007	Multifactor Multimedia Biometric Authentication
20070441	US	11961397	20-Dec-2007	Automated Multimedia Call Center Agent
20070443	US	11957851	17-Dec-2007	Method and Apparatus for Providing an Interface for Managing Network Switches
20070444	US	11960911	20-Dec-2007	Method and System for Managing Telephone Number Allocation
20070480	US	11957002	14-Dec-2007	Default Route Advertisement Protection
20070480	WO	US08084793	26-Nov-2008	Method and System for Providing Default Route Advertisement Protection
20070488	US	11961419	20-Dec-2007	Multimedia Outbound Notification
20070489	US	12015242	16-Jan-2008	Data Imaging System and Methods
20070490	US	11945017	26-Nov-2007	Hierarchical Segmented Label Switched Paths

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20070490	WO	US08084155	20-Nov-2008	Hierarchical Segmented Label Switched Paths
20070498	US	11961028	20-Dec-2007	Purchase Trending Manager
20070498	WO	US08084274	21-Nov-2008	Purchase Trending Manager
20070501	US	11961003	20-Dec-2007	Personal Inventory Manager
20070509	US	12182746	30-Jul-2008	Method and System for Providing Assisted Communications
20070537	US	12164616	30-Jun-2008	Automated Response System Tuning
20070538	US	12051474	19-Mar-2008	Compliance Policy Management Systems and Methods
20070544	US	12099408	08-Apr-2008	Session Initiation Protocol (SIP) Overload Protection