

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6529456

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	VERIZON DATA SERVICES LLC	08/01/2009
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<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	<b>Patent Number:</b>	8285844
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<b>ATTORNEY DOCKET NUMBER:</b>	20070156C1	
<b>NAME OF SUBMITTER:</b>	JOSEPH R. PALMIERI	
<b>SIGNATURE:</b>	/Joseph R. Palmieri, Reg. No. 40,760/	
<b>DATE SIGNED:</b>	02/02/2021	
<b>Total Attachments: 7</b>		
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ASSIGNMENT

This ASSIGNMENT is effective as of August 1, 2009 between Verizon Data Services LLC, a limited liability company existing under the laws of Delaware and having an office located at 7701 E. Telecom Parkway, Temple Terrace, Florida 33637 (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, NJ 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").

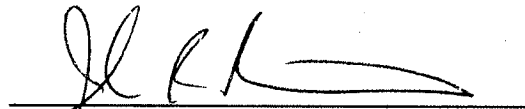
WHEREAS, ASSIGNOR is desirous of granting to ASSIGNEE its ownership of the aforesaid Patent Assets.

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 Data Services LLC**

By:



Name:

Joseph R. Palmieri

Title:

Assistant Secretary

**SCHEDULE A**

Docket Number	Ctry	Appl. Num.	File Date	Application Title
20070001	US	11752695	23-May-2007	EXPANDABLE HISTORY TAB IN INTERACTIVE GRAPHICAL USER INTERFACE SYSTEMS AND METHODS
20070002	US	11764998	19-Jun-2007	PROGRAM GUIDE 3D ZOOM
20070003	WO	US08085007	26-Nov-2008	Program Guide Image Objects for Media Content Access Systems and Methods
20070003	US	11960008	19-Dec-2007	Program Guide Image Objects for Media Content Access Systems and Methods
20070007	US	11959939	19-Dec-2007	Vertically Oriented Program Guide for Media Content Access Systems and Methods
20070008	US	11769857	28-Jun-2007	COMMERICAL FREE STATUS FOR MEDIA CONTENT RECORDING SYSTEMS AND METHODS
20070009	US	11769863	28-Jun-2007	MEDIA CONTENT RECORDING AND HEALING STATUSES
20070010	US	11859356	21-Sep-2007	Highlights Management for Fantasy Games
20070011	US	11859316	21-Sep-2007	Content Scheduling for Fantasy Gaming
20070015	US	11779448	18-Jul-2007	CONTENT CUSTOMIZATION PORTAL FOR MEDIA CONTENT DISTRIBUTION SYSTEMS AND METHODS
20070035	US	11740136	25-Apr-2007	CROSS PLATFORM GAMING
20070036	US	11693204	29-Mar-2007	Telecom Business-Oriented Taxonomy for Reusable Services
20070042	US	11694041	30-Mar-2007	Encryption Algorithm With Randomized Buffer
20070054	US	11771665	29-Jun-2007	Haptic Computer Interface
20070055	US	11691729	27-Mar-2007	RING TONE REMINDERS
20070057	US	11690644	23-Mar-2007	PROGRAM VIEWING HISTORY
20070059	US	11768216	26-Jun-2007	Method And System For Filtering Advertisements In A Media Stream
20070077	EP	07845055.8	12-Nov-2007	Hybrid Buffer Management
20070077	WO	US07084443	12-Nov-2007	Hybrid Buffer Management
20070077	US	11691730	27-Mar-2007	HYBRID BUFFER MANAGEMENT
20070082	US	11768683	26-Jun-2007	SYSTEMS AND METHODS FOR A HYBRID TELEPHONY SERVICE
20070097	US	11852021	07-Sep-2007	Method and System for Managing Configuration Information
20070098	US	11860968	25-Sep-2007	Channel Path Display of a Video Network
20070099	US	11860995	25-Sep-2007	Searching Channel Path Display of a Video Network
20070105	US	12057793	28-Mar-2008	Method and System for Providin Holistic, Iterative, Rule-Based Traffic Management
20070107	US	11848894	31-Aug-2007	REMOTE CONNECTION TO A TELEPHONE LINE VIA INTERNET
20070108	US	11747635	11-May-2007	CONTROL PRODUCTION SUPPORT ACCESS
20070114	US	11771330	29-Jun-2007	AUTOMATIC ANALYSIS OF VOICE MAIL CONTENT
20070153	US	11765219	19-Jun-2007	SNAPSHOT RECOGNITION FOR TV

20070154	US	11775643	10-Jul-2007	SYSTEM AND METHOD FOR PROVIDING PERSONAL CONTENT RECOMMENDATIONS
20070156	US	12240726	29-Sep-2008	Server Scanning System and Method
20070158	US	11966221	28-Dec-2007	Method and Apparatus for Providing Displayable Applications
20070159	US	11935145	05-Nov-2007	Method, Computer Program Product, and Apparatus for Delivering Information and Commands Regarding a Media Program
20070161	US	11966588	28-Dec-2007	Method and Apparatus for Providing Virtual Channels
20070163	US	11967477	31-Dec-2007	Methods and System for Targeted Advertisement Management Interface
20070165	US	11950928	05-Dec-2007	Methods and Systems for Providing One or More Topic Specific Portals
20070205	US	11872393	15-Oct-2007	Method and System of Providing Navigation Service With Directory Assistance
20070206	US	11959089	18-Dec-2007	Managing Unused Media Streams
20070207	US	12016260	18-Jan-2008	Method and System for SMS/MMS Messaging to a Connected Device
20070212	US	11851567	07-Sep-2007	NETWORK-BASED ACCESS AND CONTROL OF HOME AUTOMATION SYSTEMS
20070213	US	12013793	14-Jan-2008	Interactive Learning
20070214	US	11861533	26-Sep-2007	System and Method for Message Processing in a Broadband Gateway
20070215	US	11862123	26-Sep-2007	System and Method for Message Sequencing in a Broadband Gateway
20070217	US	11862126	26-Sep-2007	System and Method for Message Rentry in a Broadband Gateway
20070240	US	12339240	19-Dec-2008	METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR REMOTE DVR INTERFACE PROVISIONING
20070241	US	12339008	18-Dec-2008	METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR LOCAL DVR SCHEDULING CONFLICT MANAGEMENT
20070242	WO	US08084511	24-Nov-2008	Multiple Visual Voicemail Mailboxes
20070242	US	12236766	24-Sep-2008	Multiple Visual Voicemail Mail Boxes
20070243	US	12254260	20-Oct-2008	NETWORKED ADDRESS BOOK
20070245	US	11942511	19-Nov-2007	Method and System for Providing Content Management for a Set-Top Box
20070246	US	11942445	19-Nov-2007	Method and System for Performance Tracking to Modify Content Presented by a Set-Top Box
20070261	US	12013849	14-Jan-2008	Interactive Learning
20070262	US	12013871	14-Jan-2008	Interactive Learning
20070263	US	12013887	14-Jan-2008	Interactive Learning
20070264	US	11959651	19-Dec-2007	Methods and Systems for Automated Processing of Fallout Orders

Recordable Patent Assignment  
(VDS to VPLI)

20070265	US	11861764	26-Sep-2007	Method, Computer Program Product & Apparatus for Providing Non-Intrusive Voice Over Internet Protocol (VoIP) Monitoring & Recording
20070268	US	11864117	28-Sep-2007	Voice Over Internet Protocol Marker Insertion
20070269	US	11857240	18-Sep-2007	Method, Computer Program Product, and Apparatus for Providing Automatic Gain Control Via Signal Sampling and Categorization
20070271	US	11863927	28-Sep-2007	Real Time Measurement of Network Delay
20070272	US	11959110	18-Dec-2007	Predictive Monitoring Dashboard
20070273	US	11959086	18-Dec-2007	Configuration Management Center
20070274	US	11959131	18-Dec-2007	Marketing Campaign Management
20070276	US	11959156	18-Dec-2007	Intelligent Customer Retention and Offer/Customer Matching
20070282	US	11852617	10-Sep-2007	COORDINATED MULTI-MEDIA PLAYBACK
20070283	US	11949587	03-Dec-2007	Method and System for Accessing Content for Presentation Via a Set-Top Box
20070288	US	11861761	26-Sep-2007	Apparatus, Method, and Computer Program Product for Locating a Mobile Device
20070302	US	11935216	05-Nov-2007	Method and Apparatus for Providing Auto-Completion of Information
20070303	US	11935261	05-Nov-2007	Method and Apparatus for Providing Auto-Completion of Information Using Strings
20070306	US	11935141	05-Nov-2007	Access Management for Messaging Systems and Methods
20070308	US	11866798	03-Oct-2007	Method and System for Retrieving Log Messages From Customer Premise Equipment
20070309	US	11960219	19-Dec-2007	Method, Apparatus and Computer Program Product for Providing Emergency Service Validation
20070317	US	11935183	05-Nov-2007	Interactive Group Content Systems and Methods
20070319	US	11959980	19-Dec-2007	Condensed Program Guide for Media Content Access Systems and Methods
20070319	WO	US08085023	26-Nov-2008	Condensed Program Guide for Media Content Access Systems and Methods
20070320	US	29299100	19-Dec-2007	Computer Generated Image for a Display Panel or Screen
20070321	US	11959811	19-Dec-2007	Input Based Function Preview Apparatuses, Systems, and Methods
20070321	WO	US08085011	26-Nov-2008	Input Based Function Preview Apparatuses, Systems, and Methods
20070322	US	11956605	14-Dec-2007	CONTENT LEVEL NAVIGATION SYSTEMS AND METHODS
20070326	US	11931674	31-Oct-2007	Feature Set Based Content Communications Systems and Methods
20070327	US	12241980	30-Sep-2008	Multi-View Content Casting Systems and Methods
20070343	US	11860181	24-Sep-2007	Methods and Systems for Providing Demand Based Services
20070346	US	11860177	24-Sep-2007	Network Usage Collection System

20070356	US	12347795	31-Dec-2008	APPLICATION LAUNCHER SYSTEMS, METHODS, AND APPARATUSES
20070375	US	11864647	28-Sep-2007	Generic XML Screen Scraping
20070381	US	11863590	28-Sep-2007	Methods and Systems for Providing Synchronized Display of Content
20070386	US	12139120	13-Jun-2008	System and Method for Migrating a Large Scale Batch of Customer Accounts from One VOIP System to Another VOIP System
20070393	US	11862277	27-Sep-2007	Video on Demand Sneak Peek and "Snippet" Billing
20070395	US	11960374	19-Dec-2007	Scalable and Flexible Processing of Digit Maps and Dial Strings
20070396	US	12414102	30-Mar-2009	METHOD AND SYSTEM FOR COMPENSATING AUDIO SIGNALS DURING A COMMUNICATION SESSION
20070398	US	12062248	03-Apr-2008	Least Cost Routing
20070402	US	12113622	01-May-2008	Configurable Communications Device
20070403	US	12045504	10-Mar-2008	Apparatus, System, and Method for Tagging Media Content
20070405	US	11958454	18-Dec-2007	System and Method for Remotely Controlling a Camera
20070415	US	11960336	19-Dec-2007	System and Method for Testing a Software Engine
20070416	US	11956149	13-Dec-2007	Endurance Testing of a Content Processing Device
20070422	WO	US08083874	18-Nov-2008	Indicating Program Popularity
20070422	US	11956818	14-Dec-2007	Indicating Program Popularity
20070431	US	11964111	26-Dec-2007	Defining an End-to-End Path for a Network Service
20070437	US	12347704	31-Dec-2008	SYSTEMS, METHODS, AND APPARATUSES FOR RESOLVING MEDIA CONTENT RECORDING CONFLICTS
20070479	US	12171748	11-Jul-2008	Phone Dialer With Advanced Search Feature and Associated Method of Searching a Directory
20070489	US	12015242	16-Jan-2008	Data Imaging System and Methods
20070492	US	12054726	25-Mar-2008	System and Method of Forecasting Usage of Network Links
20070493	US	12164813	30-Jun-2008	Method and System for Providing Role Based Group Instant Messaging Chat
20070502	US	12054761	25-Mar-2008	Enhanced Voice-Rich Input for Interactive Programming
20070507	US	12021678	29-Jan-2008	Telephone Feature Selection Based on Features Received From a Service Provider
20070520	US	12054787	25-Mar-2008	TV Screen Capture
20070521	US	12058915	31-Mar-2008	System and Method for Providing Quality of Service Mapping
20070530	US	12059585	31-Mar-2008	Related Content Storage and Retrieval Systems and Methods
20070530P1	US	12165489	30-Jun-2008	Systems and Methods for Prioritizing Content Based on User Profile Relevance
20070531	US	12059742	31-Mar-2008	Location Based Content Aggregation and Distribution Systems and Methods
20070532	US	12115173	05-May-2008	Systems and Methods for Facilitating Access to Content Instances Using Graphical Object Representations



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20070533	US	12120045	13-May-2008	Methods and Systems for Managing an Inventory of Telephone Numbers
20070539	US	12164364	30-Jun-2008	Key-Based Content Management and Access Systems and Methods
20070540	US	12038944	28-Feb-2008	Router Analysis System
20070543	US	12347015	31-Dec-2008	METHOD AND SYSTEM FOR SECURING PACKETIZED VOICE TRANSMISSIONS