PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4135688

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	FIRST LIEN PATENT SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
DELL SOFTWARE INC.	10/31/2016

RECEIVING PARTY DATA

Name:	CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT
Street Address:	ELEVEN MADISON AVENUE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10010

PROPERTY NUMBERS Total: 666

Property Type	Number
Application Number:	09361678
Application Number:	09489759
Application Number:	09712890
Application Number:	09713479
Application Number:	09720277
Application Number:	09723855
Application Number:	09782586
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Application Number:	10422359
Application Number:	10459111
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Property Type	Number
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Application Number:	14996608
Application Number:	15017079
Application Number:	15018809
Application Number:	15067976
Application Number:	15075526

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	030786-0747
NAME OF SUBMITTER:	KRISTIN J AZCONA
SIGNATURE:	/kja/
DATE SIGNED:	11/09/2016

Total Attachments: 48

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FIRST LIEN PATENT SECURITY AGREEMENT

WHEREAS, Dell Software Inc., a Delaware corporation and Aventail LLC, a Delaware limited liability company (collectively, the "**Grantors**" and each a "**Grantor**"), own and use in their businesses, and will in the future adopt and so use, various intangible assets, including the Patent Collateral (as defined below);

WHEREAS, the Grantors are party to a First Lien Security Agreement dated as of October 31, 2016 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "**Security Agreement**"), by and among the Grantors, the other grantors party thereto and Credit Suisse AG, Cayman Islands Branch, as the Collateral Agent for the Secured Parties (in such capacity, the "**Collateral Agent**") pursuant to which the Grantors granted a security interest to the Collateral Agent (for the benefit of the Secured Parties) in the Patent Collateral (as defined below) and are required to execute and deliver this First Lien Patent Security Agreement (the "**Agreement**").

Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement.

NOW, THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, subject to the terms and conditions of the Security Agreement, to evidence further the security interest granted by Grantors to the Collateral Agent pursuant to the Security Agreement, each Grantor hereby grants to the Collateral Agent (for the benefit of the Secured Parties) a security interest in all of such Grantor's right, title and interest in and to the following, in each case whether now owned or existing or hereafter acquired, developed, created or arising and wherever located (collectively, the "**Patent Collateral**"), other than Excluded Property:

(i)   all patents and patent applications and rights and interests in patents and patent applications under any domestic or foreign law that are presently, or in the future may be, owned or held by such Grantor and all patents and patent applications and all re-issues, divisions, continuations, renewals, extensions and continuations in-part thereof and rights, title and interests in patents and patent applications under any domestic law that are presently, or in the future may be, owned by such Grantor in whole or in part (including, without limitation, the patents and patent applications set forth on Schedule A annexed hereto);

(ii)   all proceeds, products, rents and profits of or from any and all of the foregoing Patent Collateral and, to the extent not otherwise included, all payments under insurance (whether or not the Collateral Agent is the loss payee thereof), or any indemnity, warranty or guaranty, payable by reason of loss or damage to or otherwise with respect to any of the foregoing Patent Collateral; and

(iii)   the right to sue or otherwise recover for any past, present and future infringement, dilution, misappropriation, or other violation or impairment of any of the foregoing.

Grantors do hereby further acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral granted hereby are more fully set forth in the Security Agreement. Section 1 of the Security Agreement is hereby incorporated by reference. In the event that any provision of this Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

THIS AGREEMENT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAW OF THE STATE OF NEW YORK, WITHOUT REGARD TO CONFLICT OF LAWS PRINCIPLES THEREOF TO THE EXTENT SUCH PRINCIPLES WOULD CAUSE THE APPLICATION OF THE LAW OF ANOTHER STATE, EXCEPT TO THE EXTENT THAT THE UCC PROVIDES THAT THE PERFECTION OF THE SECURITY INTEREST HEREUNDER, OR REMEDIES HEREUNDER, IN RESPECT OF ANY PARTICULAR COLLATERAL ARE GOVERNED BY THE LAWS OF A JURISDICTION OTHER THAN THE STATE OF NEW YORK, IN WHICH CASE THE LAWS OF SUCH JURISDICTION SHALL GOVERN WITH RESPECT TO THE PERFECTION OF THE SECURITY INTEREST IN, OR THE REMEDIES WITH RESPECT TO, SUCH PARTICULAR COLLATERAL.

This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument; signature pages may be detached from multiple separate counterparts and attached to a single counterpart so that all signature pages are physically attached to the same document. Delivery of an executed signature page to this Agreement by facsimile transmission or other electronic communication shall be as effective as delivery of a manually signed counterpart of this Agreement.

IN WITNESS WHEREOF, each Grantor has caused this Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

AVENTAIL LLC,
a Delaware limited liability company

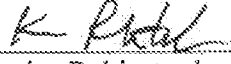DELL SOFTWARE INC.,
a Delaware corporation

By: _____
Name: Evan Daar
Title: Secretary

[Signature Page to First Lien Patent Security Agreement]

Accepted and Agreed:

CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH
as the Collateral Agent

By: _____
Name: Mikhail Faybusovich
Title: Authorized Signatory

By: _____
Name: Karim Rahimtoola
Title: Authorized Signatory

[Signature Page to First Lien Patent Security Agreement]

SCHEDULE A
TO
GRANT OF PATENT SECURITY AGREEMENT

Patents Issued:

Application Number	Patent Number	Filing Date	Title	Owner
09361678	7158986	07/27/1999	METHOD AND SYSTEM PROVIDING USER WITH PERSONALIZED RECOMMENDATIONS BY ELECTRONIC-MAIL BASED UPON THE DETERMINED INTERESTS OF THE USER PERTAIN TO THE THEME AND CONCEPTS OF THE CATEGORIZED DOCUMENT	Dell Software Inc.
09489759	6871221	01/21/2000	METHOD AND APPARATUS TO MANAGE NETWORK CLIENT LOGON SCRIPTS USING A GRAPHICAL MANAGEMENT AND ADMINISTRATION TOOL	Dell Software Inc.
09712890	6834290	11/15/2000	SYSTEM AND METHOD FOR DEVELOPING A COST-EFFECTIVE REORGANIZATION PLAN FOR DATA REORGANIZATION	Dell Software Inc.
09713479	7805423	11/15/2000	SYSTEM AND METHOD FOR QUIESCING SELECT DATA MODIFICATION OPERATIONS AGAINST AN OBJECT OF A DATABASE DURING ONE OR MORE STRUCTURAL OPERATIONS	Dell Software Inc.
09720277	7272625	3/12/2001	GENERALIZED POLICY SERVER	Dell Software Inc.
09723855	6845374	11/27/2000	SYSTEM AND METHOD FOR ADAPTIVE TEXT RECOMMENDATION	Dell Software Inc.
09782586	7065538	02/12/2001	SYSTEM AND METHOD FOR RECONCILING TRANSACTIONS BETWEEN A REPLICATION SYSTEM AND A RECOVERED DATABASE	Dell Software Inc.
09782593	7353380	02/12/2001	METHOD AND APPARATUS FOR PROVIDING SECURE STREAMING DATA TRANSMISSION FACILITIES USING UNRELIABLE	Aventail LLC

Exhibit II-5

Application Number	Patent Number	Filing Date	Title	Owner
			PROTOCOLS	
09783146	7360075	02/13/2001	METHOD AND APPARATUS FOR PROVIDING SECURE STREAMING DATA TRANSMISSION FACILITIES USING UNRELIABLE PROTOCOLS	Aventail LLC
09835054	7010807	04/13/2001	SYSTEM AND METHOD FOR NETWORK VIRUS PROTECTION	Dell Software Inc.
09850877	6928471	05/07/2001	METHOD AND APPARATUS FOR MEASUREMENT, ANALYSIS, AND OPTIMIZATION OF CONTENT DELIVERY	Dell Software Inc.
09853371	6944798	05/11/2001	GRACEFUL DEGRADATION SYSTEM	Dell Software Inc.
10019101	7580919	12/20/2001	QUERY INTERFACE TO POLICY SERVER	Dell Software Inc.
10105575	9426178	03/25/2002	METHOD AND APPARATUS FOR CENTRALIZED POLICY PROGRAMMING AND DISTRIBUTIVE POLICY ENFORCEMENT	Dell Software Inc.
10167229	7657616	06/10/2002	AUTOMATIC DISCOVERY OF USERS ASSOCIATED WITH SCREEN NAMES	Dell Software Inc.
10197393	8924484	07/16/2002	ACTIVE E-MAIL FILTER WITH CHALLENGE-RESPONSE	Dell Software Inc.
10331806	7412539	12/30/2002	METHOD AND APPARATUS FOR RESOURCE LOCATOR IDENTIFIER REWRITE	Dell Software Inc.
10371977	7299261	02/20/2003	MESSAGE CLASSIFICATION USING A SUMMARY	Dell Software Inc.
10371987	8266215	02/20/2003	USING DISTINGUISHING PROPERTIES TO CLASSIFY MESSAGES	Dell Software Inc.
10387352	8396926	03/11/2003	MESSAGE CHALLENGE RESPONSE	Dell Software Inc.
10422359	7539726	04/23/2003	MESSAGE TESTING	Dell Software Inc.
10459111	7818565	06/10/2003	SYSTEMS AND METHODS FOR IMPLEMENTING PROTOCOL ENFORCEMENT RULES	Dell Software Inc.
10459408	7707401	06/10/2003	SYSTEMS AND METHODS FOR A PROTOCOL GATEWAY	Dell Software Inc.
10459421	7664822	06/10/2003	SYSTEMS AND METHODS FOR AUTHENTICATION OF TARGET PROTOCOL SCREEN NAMES	Dell Software Inc.
10459725	7428590	06/10/2003	SYSTEMS AND METHODS FOR REFLECTING MESSAGES	Dell Software Inc.

Exhibit II-6

Application Number	Patent Number	Filing Date	Title	Owner
			ASSOCIATED WITH A TARGET PROTOCOL WITHIN A NETWORK	
10616703	7406502	07/09/2003	METHOD AND SYSTEM FOR CLASSIFYING A MESSAGE BASED ON CANONICAL EQUIVALENT OF ACCEPTABLE ITEMS INCLUDED IN THE MESSAGE	Dell Software Inc.
10661412	7231391	09/11/2003	LOOSELY COUPLED DATABASE CLUSTERS WITH CLIENT CONNECTION FAIL-OVER	Dell Software Inc.
10678965	7451487	10/02/2003	FRAUDULENT MESSAGE DETECTION	Dell Software Inc.
10697846	7310815	10/29/2003	METHOD AND APPARATUS FOR DATASTREAM ANALYSIS AND BLOCKING	Dell Software Inc.
10700615	7469278	11/04/2003	VALIDATION OF PORTABLE COMPUTER TYPE PRIOR TO CONFIGURATION OF A LOCAL RUN-TIME ENVIRONMENT	Dell Software Inc.
10700616	7293087	11/04/2003	EVENT-BASED APPLICATION FOR PERFORMING CONFIGURATION CHANGES IN A NETWORKED ENVIRONMENT	Dell Software Inc.
10700617	7353262	11/04/2003	VALIDATION OF CONFIGURATION SETTINGS PRIOR TO CONFIGURATION OF LOCAL RUN-TIME ENVIRONMENT	Dell Software Inc.
10733808	8572249	12/10/2003	NETWORK APPLIANCE FOR BALANCING LOAD AND PLATFORM SERVICES	Aventail LLC
10776677	8856239	02/10/2004	MESSAGE CLASSIFICATION BASED ON LIKELIHOOD OF SPOOFING	Dell Software Inc.
10830410	7546348	04/21/2004	MESSAGE HANDLING WITH SELECTIVE USER PARTICIPATION	Dell Software Inc.
10841398	7096392	05/07/2004	METHOD AND SYSTEM FOR AUTOMATED, NO DOWNTIME, REAL-TIME, CONTINUOUS DATA PROTECTION	Dell Software Inc.
10842286	7565661	05/10/2004	METHOD AND SYSTEM FOR REAL-TIME EVENT JOURNALING TO PROVIDE ENTERPRISE DATA SERVICES	Dell Software Inc.
10846609	7913043	05/14/2004	METHOD FOR BACKUP STORAGE DEVICE SELECTION	Dell Software Inc.

Exhibit II-7

Application Number	Patent Number	Filing Date	Title	Owner
10853447	7769766	05/24/2004	METHOD AND AN APPARATUS TO STORE CONTENT RATING INFORMATION	Dell Software Inc.
10853557	8015169	05/24/2004	METHOD AND AN APPARATUS TO REQUEST WEB PAGES AND CONTENT RATING INFORMATION THEREOF	Dell Software Inc.
10862971	7680834	06/08/2004	METHOD AND SYSTEM FOR NO DOWNTIME RESYCHRONIZATION FOR REAL-TIME, CONTINUOUS DATA PROTECTION	Dell Software Inc.
10863117	7519870	06/08/2004	METHOD AND SYSTEM FOR NO DOWNTIME, INITIAL DATA UPLOAD FOR REAL-TIME, CONTINUOUS DATA PROTECTION	Dell Software Inc.
10888845	7617501	07/09/2004	APPARATUS, SYSTEM, AND METHOD FOR MANAGING POLICIES ON A COMPUTER HAVING A FOREIGN OPERATING SYSTEM	Dell Software Inc.
10942292	8150875	09/15/2004	METHOD AND AN APPARATUS TO STORE INFORMATION REGARDING WEB PAGES	Dell Software Inc.
10943541	7979404	09/17/2004	EXTRACTING DATA CHANGES AND STORING DATA HISTORY TO ALLOW FOR INSTANTANEOUS ACCESS TO AND RECONSTRUCTION OF ANY POINT-IN-TIME DATA	Dell Software Inc.
10950355	7769004	09/24/2004	NETWORK ABSTRACTION AND ISOLATION LAYER FOR MASQUERADING MACHINE IDENTITY OF A COMPUTER	Dell Software Inc.
10964871	7600257	10/13/2004	METHOD AND APPARATUS TO PERFORM MULTIPLE PACKET PAYLOADS ANALYSIS	Dell Software Inc.
10980375	7570765	11/02/2004	METHOD AND AN APPARATUS TO PERFORM SECURE REAL-TIME TRANSPORT PROTOCOL-ON-THE-FLY	Dell Software Inc.
10980875	7836014	11/03/2004	HYBRID REAL-TIME DATA REPLICATION	Dell Software Inc.
11003920	8645389	12/03/2004	SYSTEM AND METHOD FOR ADAPTIVE TEXT RECOMMENDATION	Dell Software Inc.
11009692	8255973	12/10/2004	PROVISIONING REMOTE	Aventail LLC

Exhibit II-8

Application Number	Patent Number	Filing Date	Title	Owner
			COMPUTERS FOR ACCESSING RESOURCES	
11036603	8886727	01/14/2005	MESSAGE DISTRIBUTION CONTROL	Dell Software Inc.
11051321	7823196	02/03/2005	METHOD AND AN APPARATUS TO PERFORM DYNAMIC SECURE RE-ROUTING OF DATA FLOWS FOR PUBLIC SERVICES	Dell Software Inc.
11053770	7643484	02/09/2005	NETWORK ABSTRACTION AND ISOLATION LAYER RULES-BASED FEDERATION AND MASQUERADING	Dell Software Inc.
11056525	7480264	02/10/2005	CENTRALIZED WIRELESS LAN LOAD BALANCING	Dell Software Inc.
11058828	7996894	02/15/2005	MAC ADDRESS MODIFICATION OF OTHERWISE LOCALLY BRIDGED CLIENT DEVICES TO PROVIDE SECURITY	Dell Software Inc.
11076540	7814260	03/09/2005	TAPE IMAGE ON NON-TAPE STORAGE DEVICE	Dell Software Inc.
11112252	7835361	04/21/2005	METHOD AND APPARATUS FOR IDENTIFYING DATA PATTERNS IN A FILE	Dell Software Inc.
11112505	7739253	04/21/2005	LINK-BASED CONTENT RATINGS OF PAGES	Dell Software Inc.
11118506	8074259	04/28/2005	AUTHENTICATION MARK-UP DATA OF MULTIPLE LOCAL AREA NETWORKS	Dell Software Inc.
11123994	8108429	05/06/2005	SYSTEM FOR MOVING REAL-TIME DATA EVENTS ACROSS A PLURALITY OF DEVICES IN A NETWORK FOR SIMULTANEOUS DATA PROTECTION, REPLICATION, AND ACCESS SERVICES	Dell Software Inc.
11152351	7979650	06/13/2005	DISCOVERING DATA STORAGE FOR BACKUP	Dell Software Inc.
11156372	9154511	06/16/2015	TIME ZERO DETECTION OF INFECTIOUS MESSAGES	Dell Software Inc.
11156373	7343624	06/16/2005	MANAGING INFECTIOUS MESSAGES AS IDENTIFIED BY AN ATTACHMENT	Dell Software Inc.
11185168	7689602	07/20/2005	METHOD OF CREATING HIERARCHICAL INDICES FOR A DISTRIBUTED OBJECT SYSTEM	Dell Software Inc.
11185313	7788521	07/20/2005	METHOD AND SYSTEM FOR VIRTUAL ON-DEMAND RECOVERY FOR REAL-TIME,	Dell Software Inc.

Exhibit II-9

Application Number	Patent Number	Filing Date	Title	Owner
			CONTINUOUS DATA PROTECTION	
11190382	7984495	07/26/2005	METHOD AND AN APPARATUS TO IDENTIFY SECURITY ASSOCIATION OF VIRTUAL PRIVATE NETWORK TUNNELS	Dell Software Inc.
11198019	7565336	08/04/2005	METHOD AND APPARATUS FOR MEASUREMENT, ANALYSIS, AND OPTIMIZATION OF CONTENT DELIVERY	Dell Software Inc.
11198061	7681104	08/05/2005	METHOD FOR ERASURE CODING DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK	Dell Software Inc.
11198062	7681105	08/05/2005	METHOD FOR LOCK-FREE CLUSTERED ERASURE CODING AND RECOVERY OF DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK	Dell Software Inc.
11198912	7539655	08/04/2005	METHOD AND APPARATUS FOR MEASUREMENT, ANALYSIS, AND OPTIMIZATION OF CONTENT DELIVERY	Dell Software Inc.
11217513	7185237	09/01/2005	SYSTEMS AND METHODS FOR PROVIDING FOR DEGRADATION OF A COMPUTER APPLICATION	Dell Software Inc.
11236280	9275047	9/26/2005	METHOD AND APPARATUS FOR MULTIMEDIA CONTENT FILTERING	Dell Software Inc.
11251087	7827590	10/14/2005	CONTROLLING ACCESS TO A SET OF RESOURCES IN A NETWORK	Aventail LLC
11251592	8590032	10/14/2005	RULE-BASED ROUTING TO RESOURCES THROUGH A NETWORK	Aventail LLC
11264110	7904913	11/01/2005	MANAGEMENT INTERFACE FOR A SYSTEM THAT PROVIDES AUTOMATED, REAL-TIME, CONTINUOUS DATA PROTECTION	Dell Software Inc.
11294739	7774832	12/06/2005	SYSTEMS AND METHODS FOR IMPLEMENTING PROTOCOL ENFORCEMENT RULES	Dell Software Inc.
11300097	7760640	12/13/2005	ELECTRONIC MESSAGE DELIVERY SYSTEM INCLUDING A NETWORK DEVICE	Dell Software Inc.
11311215	7904949	12/19/2005	APPARATUS, SYSTEMS AND METHODS TO PROVIDE AUTHENTICATION SERVICES TO A LEGACY APPLICATION	Dell Software Inc.

Exhibit II-10

Application Number	Patent Number	Filing Date	Title	Owner
11352693	8087075	02/13/2006	DISCONNECTED CREDENTIAL VALIDATION USING PRE-FETCHED SERVICE TICKETS	Dell Software Inc.
11370722	7509520	03/07/2006	NETWORK INTERFACE DEVICE HAVING BYPASS CAPABILITY	Dell Software Inc.
11371348	8661158	03/07/2006	SMART TUNNELING TO RESOURCES IN A NETWORK	Aventail LLC
11419958	7870354	05/23/2006	DATA REPLICATION FROM ONE-TO-ONE OR ONE-TO-MANY HETEROGENEOUS DEVICES	Dell Software Inc.
11424874	8429712	06/18/2006	CENTRALIZED USER AUTHENTICATION SYSTEM APPARATUS AND METHOD	Dell Software Inc.
11439073	7461103	05/23/2006	SYSTEM AND METHOD FOR RECONCILING TRANSACTIONS BETWEEN A REPLICATION SYSTEM AND A RECOVERED DATABASE	Dell Software Inc.
11455037	8271603	06/16/2006	DIMINISHING FALSE POSITIVE CLASSIFICATIONS OF UNSOLICITED ELECTRONIC-MAIL	Dell Software Inc.
11457228	7814460	07/13/2006	HIERARCHICAL MODULAR SOFTWARE PACKAGES AND ASSOCIATED DEVELOPMENT TOOL	Dell Software Inc.
11471313	7512682	06/20/2006	DATABASE CLUSTER SYSTEMS AND METHODS FOR MAINTAINING CLIENT CONNECTIONS	Dell Software Inc.
11507257	7363549	08/21/2006	METHOD AND SYSTEM FOR AUTOMATED, NO DOWNTIME, REAL-TIME, CONTINUOUS DATA PROTECTION	Dell Software Inc.
11535317	7818801	09/26/2006	FILE SYSTEM EVENT TRACKING	Dell Software Inc.
11556470	7756981	11/03/2006	SYSTEMS AND METHODS FOR REMOTE ROGUE PROTOCOL ENFORCEMENT	Dell Software Inc.
11589007	9069845	10/27/2006	PERSONALIZED ELECTRONIC-MAIL DELIVERY	Dell Software Inc.
11619396	7801975	01/03/2007	MANAGING CLIENT CONFIGURATION SETTINGS IN A NETWORK ENVIRONMENT	Dell Software Inc.
11690254	8078728	03/23/2007	CAPACITY POOLING FOR APPLICATION RESERVATION AND DELIVERY	Dell Software Inc.
11749559	7979245	05/16/2007	MODEL-BASED SYSTEMS AND METHODS FOR MONITORING	Dell Software Inc.

Exhibit II-11

Application Number	Patent Number	Filing Date	Title	Owner
			COMPUTING RESOURCE PERFORMANCE	
11754891	7606839	05/29/2007	SYSTEMS AND METHODS FOR PROVIDING CLIENT CONNECTION FAIL-OVER	Dell Software Inc.
11772723	7738380	07/02/2007	REASSEMBLY-FREE REWRITING OF OUT-OF-ORDER DATA PAYLOAD	Dell Software Inc.
11778546	7991723	07/16/2007	DATA PATTERN ANALYSIS USING OPTIMIZED DETERMINISTIC FINITE AUTOMATION	Dell Software Inc.
11823108	7783510	06/25/2007	COMPUTER STORAGE CAPACITY FORECASTING SYSTEM USING CLUSTER-BASED SEASONALITY ANALYSIS	Dell Software Inc.
11823111	7788127	06/25/2007	FORECAST MODEL QUALITY INDEX FOR COMPUTER STORAGE CAPACITY PLANNING	Dell Software Inc.
11837779	8863286	08/13/2007	NOTIFICATION FOR REASSEMBLY-FREE FILE SCANNING	Dell Software Inc.
11850561	8601539	09/05/2007	SYSTEMS AND METHODS FOR MANAGING USER PERMISSIONS	Dell Software Inc.
11869575	7882265	10/09/2007	SYSTEMS AND METHODS FOR MANAGING MESSAGES IN AN ENTERPRISE NETWORK	Dell Software Inc.
11881530	7792850	07/27/2007	ON-THE-FLY PATTERN RECOGNITION WITH CONFIGURABLE BOUNDS	Dell Software Inc.
11881556	8086441	07/27/2007	EFFICIENT STRING SEARCH	Dell Software Inc.
11881770	7792846	07/27/2007	TRAINING PROCEDURE FOR N-GRAM-BASED STATISTICAL CONTENT CLASSIFICATION	Dell Software Inc.
11895519	8955106	08/24/2007	MANAGING INFECTIOUS FORWARDED MESSAGES	Dell Software Inc.
11897626	7821926	08/31/2007	GENERALIZED POLICY SERVER	Dell Software Inc.
11903219	8700775	09/21/2007	ROUTING OF COMMUNICATIONS TO A PLATFORM SERVICE	Aventail LLC
11903413	8112486	09/20/2007	SIGNATURE GENERATION USING MESSAGE SUMMARIES	Dell Software Inc.
11926512	7895332	10/29/2007	IDENTITY MIGRATION SYSTEM APPARATUS AND METHOD	Dell Software Inc.
11926819	7882189	10/29/2007	USING DISTINGUISHING PROPERTIES TO CLASSIFY MESSAGES	Dell Software Inc.
11927214	7912856	10/29/2007	ADAPTIVE ENCRYPTION	Dell Software Inc.

Exhibit II-12

Application Number	Patent Number	Filing Date	Title	Owner
11927250	7698388	10/29/2007	SECURE ACCESS TO REMOTE RESOURCES OVER A NETWORK	Aventail LLC
11927272	8005983	10/29/2007	RULE-BASED ROUTING TO RESOURCES THROUGH A NETWORK	Aventail LLC
11927286	7770222	10/29/2007	CREATING AN INTERROGATION MANIFEST REQUEST	Aventail LLC
11927310	7779469	10/29/2007	PROVISIONING AN OPERATING ENVIRONMENT OF A REMOTE COMPUTER	Aventail LLC
11927321	8438254	10/29/2007	PROVIDING DISTRIBUTED CACHE SERVICES	Aventail LLC
11927362	7870380	10/29/2007	PROVIDING SECURE CONNECTIONS FOR DATA TRANSMISSION	Aventail LLC
11927371	8984268	04/17/2013 4/29/2007	ENCRYPTED RECORD TRANSMISSION	Aventail LLC
11927414	8990312	10/29/2007	ACTIVE E-MAIL FILTER WITH CHALLENGE-RESPONSE	Dell Software Inc.
11927424	8122508	10/29/2007	ANALYZING TRAFFIC PATTERNS TO DETECT INFECTIOUS MESSAGES	Dell Software Inc.
11927438	8850566	10/29/2007	TIME ZERO DETECTION OF INFECTIOUS MESSAGES	Dell Software Inc.
11927450	9245013	10/29/2007	MESSAGE RECOMMENDATION USING WORD ISOLATION AND CLUSTERING	Dell Software Inc.
11927466	8713110	10/29/2007	IDENTIFICATION OF PROTECTED CONTENT IN E-MAIL MESSAGES	Dell Software Inc.
11927477	8612560	10/29/2007	MESSAGE CLASSIFICATION USING DOMAIN NAME AND IP ADDRESS EXTRACTION	Dell Software Inc.
11927493	7814545	10/29/2007	MESSAGE CLASSIFICATION USING CLASSIFIERS	Dell Software Inc.
11927497	7562122	10/29/2007	MESSAGE CLASSIFICATION USING ALLOWED ITEMS	Dell Software Inc.
11927514	7925707	10/29/2007	DECLASSIFYING OF SUSPICIOUS MESSAGES	Dell Software Inc.
11927516	7921204	10/29/2007	MESSAGE TESTING BASED ON A DETERMINATE MESSAGE CLASSIFICATION AND MINIMIZED RESOURCE CONSUMPTION	Dell Software Inc.
11927523	7908330	10/29/2007	MESSAGE AUDITING	Dell Software Inc.
11928887	8086710	10/30/2007	IDENTITY MIGRATION APPARATUS AND METHOD	Dell Software Inc.
11934610	7979494	11/02/2007	SYSTEMS AND METHODS FOR	Dell Software Inc.

Exhibit II-13

Application Number	Patent Number	Filing Date	Title	Owner
			MONITORING MESSAGING SYSTEMS	
11947695	8127316	11/29/2007	SYSTEM AND METHOD FOR INTERCEPTING PROCESS CREATION EVENTS	Dell Software Inc.
11951008	8234253	12/05/2007	SYSTEMS AND METHODS FOR PERFORMING RECOVERY OF DIRECTORY DATA	Dell Software Inc.
12023920	8001074	01/31/2008	FUZZY-LEARNING-BASED EXTRACTION OF TIME-SERIES BEHAVIOR	Dell Software Inc.
12059505	8131723	03/31/2008	RECOVERING A FILE SYSTEM TO ANY POINT-IN-TIME IN THE PAST WITH GUARANTEED STRUCTURE, CONTENT CONSISTENCY AND INTEGRITY	Dell Software Inc.
12070164	9100335	2/15/2008	PROCESSING A MESSAGE BASED ON A BOUNDARY IP ADDRESS AND DECAY VARIABLE	Dell Software Inc.
12099837	8364648	04/09/2008	RECOVERING A DATABASE TO ANY POINT-IN-TIME IN THE PAST WITH GUARANTEED DATA CONSISTENCY	Dell Software Inc.
12143210	7752336	06/20/2008	METHOD AND APPARATUS FOR RESOURCE LOCATOR IDENTIFIER REWRITE	Dell Software Inc.
12182364	8046550	07/30/2008	SYSTEMS AND METHODS FOR PERFORMING BACKUP OPERATIONS OF VIRTUAL MACHINE FILES	Dell Software Inc.
12238205	8813221	09/25/2008	REASSEMBLY-FREE DEEP PACKET INSPECTION ON MULTI-CORE HARDWARE	Dell Software Inc.
12240784	8191134	09/29/2008	LOCKLESS DISTRIBUTED IPSEC PROCESSING	Dell Software Inc.
12240892	7990974	09/29/2008	PACKET PROCESSING ON A MULTI-CORE PROCESSOR	Dell Software Inc.
12333132	9071993	12/11/2008	CENTRALIZED WIRELESS LAN LOAD BALANCING	Dell Software Inc.
12339053	8194674	12/19/2008	SYSTEM AND METHOD FOR AGGREGATING COMMUNICATIONS AND FOR TRANSLATING BETWEEN OVERLAPPING INTERNAL NETWORK ADDRESSES AND UNIQUE EXTERNAL NETWORK ADDRESSES	Dell Software Inc.
12370399	8175863	02/12/2009	SYSTEMS AND METHODS FOR	Dell Software Inc.

Exhibit II-14

Application Number	Patent Number	Filing Date	Title	Owner
			ANALYZING PERFORMANCE OF VIRTUAL ENVIRONMENTS	
12395524	8903983	02/27/2009	METHOD, SYSTEM AND APPARATUS FOR MANAGING, MODELING, PREDICTING, ALLOCATING AND UTILIZING RESOURCES AND BOTTLENECKS IN A COMPUTER NETWORK	Dell Software Inc.
12400559	8935701	03/09/2009	UNIFIED MANAGEMENT PLATFORM IN A COMPUTER NETWORK	Dell Software Inc.
12474688	8015454	05/29/2009	COMPUTER SYSTEMS AND METHODS FOR PREDICTIVE PERFORMANCE MANAGEMENT OF DATA TRANSACTIONS	Dell Software Inc.
12475729	8108476	06/01/2009	HIGH PERFORMANCE ELECTRONIC MESSAGE DELIVERY ENGINE	Dell Software Inc.
12488657	8060889	06/22/2009	METHOD AND SYSTEM FOR REAL-TIME EVENT JOURNALING TO PROVIDE ENTERPRISE DATA SERVICES	Dell Software Inc.
12500109	7941385	07/09/2009	METHOD AND APPARATUS FOR MEASUREMENT, ANALYSIS, AND OPTIMIZATION OF CONTENT DELIVERY	Dell Software Inc.
12502035	8135930	07/13/2009	REPLICATION SYSTEMS AND METHODS FOR A VIRTUAL COMPUTING ENVIRONMENT	Dell Software Inc.
12502052	8060476	07/13/2009	BACKUP SYSTEMS AND METHODS FOR A VIRTUAL COMPUTING ENVIRONMENT	Dell Software Inc.
12502189	8108477	07/13/2009	MESSAGE CLASSIFICATION USING LEGITIMATE CONTACT POINTS	Dell Software Inc.
12509955	8276202	07/27/2009	CLOUD-BASED GATEWAY SECURITY SCANNING	Dell Software Inc.
12511436	7970843	07/29/2009	E-MAIL MESSAGING SYSTEM AND METHOD FOR ENHANCED RICH MEDIA DELIVERY	Dell Software Inc.
12512884	8615796	07/30/2009	MANAGING RESOURCE ALLOCATIONS	Aventail LLC
12512891	8613041	07/30/2009	CREATING RULES FOR ROUTING RESOURCE ACCESS REQUESTS	Aventail LLC
12547860	8321939	08/26/2009	METHOD AND APPARATUS TO PERFORM MULTIPLE PACKET PAYLOADS ANALYSIS	Dell Software Inc.
12559156	8311985	09/14/2009	REMOTE BACKUP AND RESTORE	Dell Software Inc.

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Application Number	Patent Number	Filing Date	Title	Owner
			SYSTEM AND METHOD	
12566231	8429649	09/24/2009	SYSTEMS AND METHODS FOR DATA MANAGEMENT IN A VIRTUAL COMPUTING ENVIRONMENT	Dell Software Inc.
12567069	8452731	09/25/2009	REMOTE BACKUP AND RESTORE	Dell Software Inc.
12571250	8676759	09/30/2009	CONTINUOUS DATA BACKUP USING REAL TIME DELTA STORAGE	Dell Software Inc.
12575342	8171201	10/07/2009	SYSTEMS AND METHODS FOR IMPROVING VIRTUAL MACHINE PERFORMANCE	Dell Software Inc.
12612569	8245242	11/04/2009	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER	Dell Software Inc.
12651299	8718318	12/31/2009	FINGERPRINT DEVELOPMENT IN IMAGE BASED SPAM BLOCKING	Dell Software Inc.
12651327	8578484	12/31/2009	IDENTIFICATION OF CONTENT	Dell Software Inc.
12661470	8522347	03/16/2010	REAL-TIME NETWORK UPDATES FOR MALICIOUS CONTENT	Dell Software Inc.
12690018	8090827	01/19/2010	SECURE ACCESS TO REMOTE RESOURCES OVER 01/19/2010A NETWORK	Aventail LLC
12691616	7979441	01/21/2010	METHOD OF CREATING HIERARCHICAL INDICES FOR A DISTRIBUTED OBJECT SYSTEM	Dell Software Inc.
12695385	8086937	01/28/2010	METHOD FOR ERASURE CODING DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK	Dell Software Inc.
12695407	8051361	01/28/2010	METHOD FOR LOCK-FREE CLUSTERED ERASURE CODING AND RECOVERY OF DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK	Dell Software Inc.
12715335	8693782	03/01/2010	IMAGE BASED SPAM BLOCKING	Dell Software Inc.
12715337	8578485	03/01/2010	IDENTIFICATION OF CONTENT BY METADATA	Dell Software Inc.
12724363	8189608	03/15/2010	WIRELESS EXTENDER SECURE DISCOVERY AND PROVISIONING	Dell Software Inc.
12725191	8260750	03/16/2010	INTELLIGENT BACKUP ESCALATION SYSTEM	Dell Software Inc.
12762162	8996468	4/16/2010	BLOCK STATUS MAPPING SYSTEM FOR REDUCING VIRTUAL MACHINE BACKUP STORAGE	Dell Software Inc.
12770354	7912929	04/29/2010	MANAGING CLIENT CONFIGURATION SETTINGS IN A	Dell Software Inc.

Exhibit II-16

Application Number	Patent Number	Filing Date	Title	Owner
			NETWORK ENVIRONMENT	
12785364	8429301	05/21/2010	METHOD AND APPARATUS FOR RESOURCE LOCATOR IDENTIFIER REWRITE	Dell Software Inc.
12816460	8687490	06/16/2010	ELECTRONIC MESSAGE DELIVERY SYSTEM INCLUDING A NETWORK DEVICE	Dell Software Inc.
12821060	8301769	06/22/2010	CLASSIFYING AN OPERATING ENVIRONMENT OF A REMOTE COMPUTER	Aventail LLC
12822439	7917522	06/24/2010	TRAINING PROCEDURE FOR N-GRAM-BASED STATISTICAL CONTENT CLASSIFICATOIN	Dell Software Inc.
12838009	8331391	07/16/2010	NETWORK ABSTRACTION AND ISOLATION LAYER FOR MASQUERADING MACHINE IDENTITY OF A COMPUTER	Dell Software Inc.
12844297	8086782	07/27/2010	TAPE IMAGE ON NON-TAPE STORAGE DEVICE	Dell Software Inc.
12845215	8151140	07/28/2010	METHOD AND SYSTEM FOR VIRTUAL ON-DEMAND RECOVERY FOR REAL-TIME, CONTINUOUS DATA PROTECTION	Dell Software Inc.
12846102	7996415	07/29/2010	ON-THE-FLY PATTERN RECOGNITION WITH CONFIGURABLE BOUNDS	Dell Software Inc.
12850587	8136143	08/04/2010	GENERALIZED POLICY SERVER	Dell Software Inc.
12869138	7970748	08/26/2010	SYSTEMS AND METHODS FOR REORGANIZING A DATABASE OBJECT	Dell Software Inc.
12878609	8332942	09/09/2010	FILE SYSTEM EVENT TRACKING	Dell Software Inc.
12901824	8195628	10/11/2010	METHOD AND SYSTEM FOR DATA REDUCTION	Dell Software Inc.
12901888	8544023	10/11/2010	MANAGEMENT INTERFACE FOR A SYSTEM THAT PROVIDES AUTOMATED, REAL-TIME, CONTINUOUS DATA PROTECTION	Dell Software Inc.
12901925	8938419	10/11/2010	HYBRID REAL-TIME DATA REPLICATION	Dell Software Inc.
12906653	8229962	10/18/2010	LOCATION-AWARE TASK MANAGEMENT SYSTEMS AND METHODS	Dell Software Inc.
12913668	8272057	10/27/2010	METHOD AND APPARATUS FOR IDENTIFYING DATA PATTERNS IN A FILE	Dell Software Inc.

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Application Number	Patent Number	Filing Date	Title	Owner
12938330	8601550	11/02/2010	REMOTE ACCESS TO RESOURCES OVER A NETWORK	Aventail LLC
12939637	8499001	11/04/2010	SYSTEMS AND METHODS FOR INDEX SELECTION IN COLLECTIONS OF DATA	Dell Software Inc.
12959913	8438352	12/03/2010	DATA REPLICATION FROM ONE-TO-ONE OR ONE-TO-MANY HETEROGENEOUS DEVICES	Dell Software Inc.
13004812	8533457	01/11/2011	METHOD AND APPARATUS FOR PROVIDING SECURE STREAMING DATA TRANSMISSION FACILITIES USING UNRELIABLE PROTOCOLS	Aventail LLC
13015526	8484301	01/27/2011	USING DISTINGUISHING PROPERTIES TO CLASSIFY MESSAGES	Dell Software Inc.
13016899	8195833	01/28/2011	SYSTEMS AND METHODS FOR MANAGING MESSAGES IN AN ENTERPRISE NETWORK	Dell Software Inc.
13022858	8171247	02/08/2011	METHOD FOR BACKUP STORAGE DEVICE SELECTION	Dell Software Inc.
13038340	9407456	03/01/2011	SECURE ACCESS TO REMOTE RESOURCES OVER A NETWORK	Aventail LLC
13080638	8296382	04/05/2011	EFFICIENT USE OF RESOURCES IN MESSAGE CLASSIFICATION	Dell Software Inc.
13085421	8285804	04/12/2011	DECLASSIFYING OF SUSPICIOUS MESSAGES	Dell Software Inc.
13092051	8639827	04/21/2011	SELF-SERVICE SYSTEMS AND METHODS FOR GRANTING ACCESS TO RESOURCES	Dell Software Inc.
13101863	8453145	05/05/2011	SYSTEMS AND METHODS FOR INSTANT PROVISIONING OF VIRTUAL MACHINE FILES	Dell Software Inc.
13114282	8156192	05/24/2011	E-MAIL MESSAGING SYSTEM AND METHOD FOR ENHANCED RICH MEDIA DELIVERY	Dell Software, Inc.
13155819	8671447	06/08/2011	NET-BASED EMAIL FILTERING	Dell Software Inc.
13158204	9047574	11/6/2013	STORAGE CAPACITY PLANNING	Dell Software Inc.
13179356	8185598	07/08/2011	SYSTEMS AND METHODS FOR MONITORING MESSAGING SYSTEMS	Dell Software Inc.
13179405	8175862	07/08/2011	MODEL-BASED SYSTEMS AND METHODS FOR MONITORING RESOURCES	Dell Software Inc.
13179813	8145864	07/11/2011	DISCOVERING DATA STORAGE FOR BACKUP	Dell Software Inc.
13179904	8200706	07/11/2011	METHOD OF CREATING	Dell Software Inc.

Exhibit II-18

Application Number	Patent Number	Filing Date	Title	Owner
			HIERARCHICAL INDICES FOR A DISTRIBUTED OBJECT SYSTEM	
13196454	8594131	08/02/2011	PACKET PROCESSING ON A MULTI-CORE PROCESSOR	Dell Software Inc.
13196480	8370374	08/02/2011	ON-THE-FLY PATTERN RECOGNITION WITH CONFIGURABLE BOUNDS	Dell Software Inc.
13196484	8626689	08/02/2011	DATA PATTERN ANALYSIS USING OPTIMIZED DETERMINISTIC FINITE AUTOMATION	Dell Software Inc.
13209018	8332346	08/12/2011	FUZZY-LEARNING-BASED EXTRACTION OF TIME-SERIES BEHAVIOR	Dell Software Inc.
13210324	8910279	08/15/2011	REPUTATION BASED THREAT PROTECTION	Dell Software Inc.
13218362	8898114	08/25/2011	MULTITIER DEDUPLICATION SYSTEMS AND METHODS	Dell Software Inc.
13225258	8347148	09/02/2011	COMPUTER SYSTEMS AND METHODS FOR PREDICTIVE PERFORMANCE MANAGEMENT OF DATA TRANSACTIONS	Dell Software Inc.
13226376	9015199	9/6/2011	METHOD AND AN APPARATUS TO REQUEST WEB PAGES AND CONTENT RATING INFORMATION THEREOF	Dell Software Inc.
13228351	9141442	9/8/2011	AUTOMATED CONNECTOR CREATION FOR PROVISIONING SYSTEMS	Dell Software Inc.
13235254	8527543	09/16/2011	SYSTEM FOR CATEGORIZING DATABASE STATEMENTS FOR PERFORMANCE TUNING	Dell Software Inc.
13241004	8205139	09/22/2011	METHOD FOR LOCK-FREE CLUSTERED ERASURE CODING AND RECOVERY OF DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK	Dell Software Inc.
13242916	8352523	09/23/2011	RECOVERING A FILE SYSTEM TO ANY POINT-IN-TIME IN THE PAST WITH GUARANTEED STRUCTURE, CONTENT CONSISTENCY AND INTEGRITY	Dell Software Inc.
13244167	8166265	09/23/2011	SYSTEMS AND METHODS FOR PERFORMING BACKUP OPERATIONS OF VIRTUAL MACHINE FILES	Dell Software Inc.
13244187	8375003	09/23/2011	BACKUP SYSTEMS AND METHODS FOR A VIRTUAL	Dell Software Inc.

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Application Number	Patent Number	Filing Date	Title	Owner
			COMPUTING ENVIRONMENT	
13316134	9119109	12/9/2011	METHOD AND APPARATUS TO PERFORM MULTI-CONNECTION TRAFFIC ANALYSIS AND MANAGEMENT	Dell Software Inc.
13324874	8346908	12/13/2011	IDENTITY MIGRATION APPARATUS AND METHOD	Quest Software, Inc.
13333650	8584218	12/21/2011	DISCONNECTED CREDENTIAL VALIDATION USING PRE-FETCHED SERVICE TICKETS	Dell Software Inc.
13335743	8577669	12/22/2011	EFFICIENT STRING SEARCH	Dell Software Inc.
13340509	8776210	12/29/2011	STATISTICAL MESSAGE CLASSIFIER	Dell Software Inc.
13360971	8688794	01/30/2012	SIGNATURE GENERATION USING MESSAGE SUMMARIES	Dell Software Inc.
13361659	8463861	01/30/2012	MESSAGE CLASSIFICATION USING LEGITIMATE CONTACT POINTS	Dell Software Inc.
13364214	8935311	02/01/2012	GENERALIZED POLICY SERVER	Dell Software Inc.
13366166	8738972	02/03/2012	SYSTEMS AND METHODS FOR REAL-TIME MONITORING OF VIRTUALIZED ENVIRONMENTS	Dell Software Inc.
13368240	9311375	02/07/2012	SYSTEMS AND METHODS FOR COMPACTING A VIRTUAL MACHINE FILE	Dell Software Inc.
13398616	8826388	02/16/2012	MOBILE DEVICE IDENTIFY FACTOR FOR ACCESS CONTROL POLICIES	Aventail LLC
13400548	8955136	02/20/2012	ANALYZING TRAFFIC PATTERNS TO DETECT INFECTIOUS MESSAGES	Dell Software Inc.
13406305	8650578	02/27/2012	SYSTEM AND METHOD FOR INTERCEPTING PROCESS CREATION EVENTS	Dell Software Inc.
13416283	8312093	03/09/2012	E-MAIL MESSAGING SYSTEM AND METHOD FOR ENHANCED RICH MEDIA DELIVERY	Dell Software Inc.
13425166	8271755	03/20/2012	DISCOVERING DATA STORAGE FOR BACKUP	Dell Software Inc.
13436624	8375248	03/30/2012	METHOD AND SYSTEM FOR VIRTUAL ON-DEMAND RECOVERY	Dell Software Inc.
13445130	8255654	04/12/2012	METHOD FOR BACKUP STORAGE DEVICE SELECTION	Dell Software Inc.
13448010	8335902	04/16/2012	SYSTEMS AND METHODS FOR PERFORMING BACKUP OPERATIONS OF VIRTUAL	Dell Software Inc.

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Application Number	Patent Number	Filing Date	Title	Owner
			MACHINE FILES	
13448220	8332571	04/16/2012	SYSTEMS AND METHODS FOR IMPROVING VIRTUAL MACHINE PERFORMANCE	Dell Software Inc.
13451274	9215142	4/29/2012	COMMUNITY ANALYSIS OF COMPUTING PERFORMANCE	Dell Software Inc.
13455583	8266231	04/25/2012	SYSTEMS AND METHODS FOR MONITORING MESSAGING SYSTEMS	Dell Software Inc.
13464042	8364460	05/04/2012	SYSTEMS AND METHODS FOR ANALYZING PERFORMANCE OF VIRTUAL ENVIRONMENTS	Dell Software Inc.
13465708	8892415	05/07/2012	MODEL-BASED SYSTEMS AND METHODS FOR MONITORING RESOURCES	Dell Software Inc.
13478003	8594109	05/22/2012	WIRELESS EXTENDER SECURE DISCOVERY AND PROVISIONING	Dell Software Inc.
13486989	8650167	06/01/2012	METHOD AND SYSTEM FOR DATA REDUCTION	Dell Software Inc.
13489751	8429198	06/06/2012	METHOD OF CREATING HIERARCHICAL INDICES FOR A DISTRIBUTED OBJECT SYSTEM	Dell Software Inc.
13491484	8578489	06/07/2012	METHOD AND APPARATUS TO PERFORM MULTIPLE PACKET PAYLOADS ANALYSIS	Dell Software Inc.
13492330	9122627	6/8/2012	METHOD FOR LOCK-FREE CLUSTERED ERASURE CODING AND RECOVERY OF DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK	Dell Software Inc.
13534435	8365017	06/27/2012	METHOD AND SYSTEM FOR VIRTUAL ON-DEMAND RECOVERY	Dell Software Inc.
13535031	8688644	06/27/2012	SYSTEMS AND METHODS FOR PERFORMING RECOVERY OF DIRECTORY DATA	Dell Software Inc.
13546194	8700667	07/11/2012	LOCATION-AWARE TASK MANAGEMENT SYSTEMS AND METHODS	Dell Software Inc.
13563490	8533744	07/31/2012	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER	Dell Software Inc.
13587748	8584238	08/16/2012	METHOD AND APPARATUS FOR IDENTIFYING DATA PATTERNS IN A FILE	Dell Software Inc.
13626777	8769678	09/25/2012	CLOUD-BASED GATEWAY SECURITY SCANNING	Dell Software Inc.

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Application Number	Patent Number	Filing Date	Title	Owner
13648259	8977696	10/9/2012	DECLASSIFYING OF SUSPICIOUS MESSAGES	Dell Software Inc.
13658732	8838654	10/23/2012	DATA MODELING SYSTEM FOR RUNTIME SCHEMA EXTENSIBILITY	Dell Software Inc.
13658777	9215198	10/23/2012	EFFICIENT USE OF RESOURCES IN MESSAGE CLASSIFICATION	Dell Software Inc.
13670282	8640232	11/06/2012	FILE SYSTEM EVENT TRACKING	Dell Software Inc.
13686700	8966045	11/27/2012	IDENTITY MIGRATION APPARATUS AND METHOD	Dell Software, Inc.
13713424	9098624	12/13/2012	DEEP TYPE PARSING	Dell Software Inc.
13714829	8972347	12/14/2012	RECOVERING A FILE SYSTEM TO ANY POINT-IN-TIME IN THE PAST WITH GUARANTEED STRUCTURE, CONTENT CONSISTENCY AND INTEGRITY	Dell Software Inc.
13721588	8639974	12/20/2012	METHOD AND SYSTEM FOR VIRTUAL ON-DEMAND RECOVERY	Dell Software Inc.
13721769	9122718	12/20/2012	DYNAMIC DIRECTORY CONTROL EXECUTION	Dell Software Inc.
13721811	9165027	12/20/2012	DYNAMIC DIRECTORY CONTROL REGISTRATION	Dell Software Inc.
13725008	8887009	12/21/2012	COMPUTER SYSTEMS AND METHODS FOR PREDICTIVE PERFORMANCE MANAGEMENT OF DATA TRANSACTIONS	Dell Software Inc.
13745677	9275172	1/18/2013	SYSTEMS AND METHODS FOR ANALYZING PERFORMANCE OF VIRTUAL ENVIRONMENTS	Dell Software Inc.
13752020	8712970	01/28/2013	RECOVERING A DATABASE TO ANY POINT-IN-TIME IN THE PAST WITH GUARANTEED DATA CONSISTENCY	Dell Software Inc.
13760024	8892587	02/05/2013	ON-THE-FLY PATTERN RECOGNITION WITH CONFIGURABLE BOUNDS	Dell Software Inc.
13764011	9311318	2/11/2013	BACKUP SYSTEMS AND METHODS FOR A VIRTUAL COMPUTING ENVIRONMENT	Dell Software Inc.
13787693	8732256	03/06/2013	MESSAGE CHALLENGE RESPONSE	Dell Software Inc.
13789529	RE45327 Reissue of 7,904,949	03/07/2013	APPARATUS, SYSTEMS AND METHODS TO PROVIDE AUTHENTICATION SERVICES TO A LEGACY APPLICATION	Dell Software Inc.
13826733	9338255	3/14/2013	SYSTEM AND METHOD FOR	Dell Software Inc.

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Application Number	Patent Number	Filing Date	Title	Owner
			CORRELATING END-USER EXPERIENCE DATA AND BACKEND-PERFORMANCE DATA	
13836840	9372942	3/15/2013	SYSTEM AND METHOD FOR FACILITATING DATA VISUALIZATION VIA A MAP-REDUCE FRAMEWORK	Dell Software Inc.
13837740	8966503	3/15/2013	SYSTEM AND METHOD FOR CORRELATING ANOMALOUS EVENTS	Dell Software Inc.
13850002	9094365	3/25/2013	METHOD AND APPARATUS FOR RESOURCE LOCATOR IDENTIFIER REWRITE	Dell Software Inc.
13850164	8856790	03/25/2013	SYSTEMS AND METHODS FOR DATA MANAGEMENT IN A VIRTUAL COMPUTING ENVIRONMENT	Dell Software Inc.
13864866	8978098	4/17/2013	CENTRALIZED USER AUTHENTICATION SYSTEM APPARATUS AND METHOD	Dell Software Inc.
13869071	9405776	4/2/2013	REMOTE BACKUP AND RESTORE	Dell Software Inc.
13869188	9032403	04/24/2013	SYSTEMS AND METHODS FOR INSTANT PROVISIONING OF VIRTUAL MACHINE FILES	Dell Software Inc.
13906255	9390240	06/23/2014	SYSTEM AND METHOD FOR QUERYING DATA	Dell Software Inc.
13906262	9164820	5/30/2013	SYSTEM AND METHOD FOR CORRECTING SCRAMBLED MESSAGES	Dell Software Inc.
13912055	9189516	06/06/2013	USING DISTINGUISHING PROPERTIES TO CLASSIFY MESSAGES	Dell Software Inc.
13913413	8935348	06/08/2013	MESSAGE CLASSIFICATION USING LEGITIMATE CONTACT POINTS	Dell Software Inc.
13934912	9047272	07/03/2013	SYSTEMS AND METHODS FOR INDEX SELECTION IN COLLECTIONS OF DATA	Dell Software Inc.
13967202	9438577	08/14/2013	QUERY INTERFACE TO POLICY SERVER	Dell Software Inc.
13967205	9276920	08/14/2013	TUNNELING USING ENCRYPTION	Dell Software Inc.
13967207	9154489	8/1/2013	QUERY INTERFACE TO POLICY SERVER	Dell Software Inc.
13967208	9331992	8/14/2013	ACCESS CONTROL	Dell Software Inc.
13967210	9077671	8/14/2013	REAL-TIME NETWORK UPDATES FOR MALICIOUS CONTENT	Dell Software Inc.
13973859	8775164	08/22/2013	EFFICIENT STRING SEARCH	Dell Software Inc.

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Application Number	Patent Number	Filing Date	Title	Owner
14010314	8898136	08/26/2013	SYSTEM FOR CATEGORIZING DATABASE STATEMENTS FOR PERFORMANCE TUNING	Dell Software Inc.
14014707	9245248	8/30/2013	DATA METRIC RESOLUTION PREDICTION SYSTEM AND METHOD	Dell Software Inc.
14021852	8713583	09/09/2013	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER	Dell Software Inc.
14034314	9077674	9/23/2013	IDENTIFICATION OF CONTENT	Dell Software Inc.
14047162	9317574	10/7/2013	SYSTEM AND METHOD FOR MANAGING AND IDENTIFYING SUBJECT MATTER EXPERTS	Dell Software Inc.
14058215	9300670	10/19/2013	REMOTE ACCESS TO RESOURCES OVER A NETWORK	Aventail LLC
14061988	9197538	10/24/2013	RULE-BASED ROUTING TO RESOURCES THROUGH A NETWORK	Aventail LLC
14064597	9065848	10/28/2013	METHOD AND APPARATUS TO PERFORM MULTIPLE PACKET PAYLOADS ANALYSIS	Dell Software Inc.
14071146	9100427	11/4/2013	METHOD AND APPARATUS TO PERFORM MULTIPLE PACKET PAYLOADS ANALYSIS	Dell Software Inc.
14071192	8918870	11/04/2013	IDENTIFICATION OF CONTENT BY METADATA	Dell Software Inc.
14073822	9183272	12/20/2012	SYSTEM AND METHOD FOR ACCESSING DIMENSIONAL DATABASES	Dell Software Inc.
14073823	9288060	11/6/2013	SYSTEM AND METHOD FOR DECENTRALIZED AUTHENTICATION OF SUPPLICANT DEVICES	Dell Software Inc.
14076913	9288201	11/11/2013	DISCONNECTED CREDENTIAL VALIDATION USING PRE-FETCHED SERVICE TICKETS	Dell Software Inc.
14079308	9098330	11/13/2013	PACKET PROCESSING ON A MULTI-CORE PROCESSOR	Dell Software Inc.
14082397	8938781	11/18/2013	SYSTEMS AND METHODS FOR MANAGING USER PERMISSIONS	Dell Software Inc.
14089593	8908706	11/25/2013	WIRELESS EXTENDER SECURE DISCOVERY AND PROVISIONING	Dell Software Inc.
14149658	9202043	01/30/2014	SELF-SERVICE SYSTEMS AND METHODS FOR GRANTING ACCESS TO RESOURCES	Dell Software Inc.
14150537	9294461	01/08/2014	VIRTUAL PRIVATE NETWORK DEAD PEER DETECTION	Dell Software Inc.

Exhibit II-24

Application Number	Patent Number	Filing Date	Title	Owner
14152812	9325649	1/10/2014	SIGNATURE GENERATION USING MESSAGE SUMMARIES	Dell Software Inc.
14153607	9195823	1/13/2014	SYSTEM AND METHOD FOR INTERCEPTING PROCESS CREATION EVENTS	Dell Software Inc.
14159593	9442818	01/21/2014	SYSTEM AND METHOD FOR DYNAMIC DATA COLLECTION	Dell Software Inc.
14166641	9203785	01/07/2014	NET-BASED EMAIL FILTERING	Dell Software Inc.
14169130	9197644	1/30/2014	SYSTEM AND METHOD FOR MULTITENANT MANAGEMENT OF DOMAINS	Dell Software Inc.
14169136	9444808	1/30/2014	SYSTEM AND METHOD FOR PROVIDING MULTITENANT ACCESS TO SHARED RESOURCES	Dell Software Inc.
14172731	9152704	2/4/2014	SYSTEM AND METHOD FOR ADAPTIVE TEXT RECOMMENDATION	Dell Software Inc.
14185178	8959384	02/20/2014	ROUTING OF COMMUNICATIONS TO ONE OR MORE PROCESSORS PERFORMING ONE OR MORE SERVICES ACCORDING TO A LOAD BALANCING FUNCTION	Aventail LLC
14226598	9021039	3/26/2014	MESSAGE CHALLENGE RESPONSE	Dell Software Inc.
14263699	9130847	04/28/2014	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER	Dell Software Inc.
14276984	9237129	5/13/2014	A METHOD TO ENABLE DEEP PACKET INSPECTION (DPI) IN OPENFLOW-BASED SOFTWARE DEFINED NETWORK (SDN)	Dell Software Inc.
14298095	9349016	6/6/2014	SYSTEM AND METHOD FOR USER-CONTEXT-BASED DATA LOSS PREVENTION	Dell Software Inc.
14312645	9386046	6/23/2014	STATISTICAL MESSAGE CLASSIFIER	Dell Software Inc.
14318334	9203853	6/27/2014	CLOUD-BASED GATEWAY SECURITY SCANNING	Dell Software Inc.
14472026	9325724	08/28/2014	TIME ZERO CLASSIFICATION OF MESSAGES	Dell Software Inc.
14472234	9215241	1/7/2014	REPUTATION BASED THREAT PROTECTION	Dell Software Inc.
14472329	9405699	08/28/2014	SYSTEMS AND METHODS FOR OPTIMIZING COMPUTER PERFORMANCE	Dell Software Inc.
14477767	9397927	09/4/2014	RULE-BASED ROUTING TO RESOURCES THROUGH A	Aventail LLC

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Application Number	Patent Number	Filing Date	Title	Owner
			NETWORK	
14491829	9454672	09/19/2014	MESSAGE DISTRIBUTION CONTROL	Dell Software Inc.
14543829	9075804	11/17/2014	ON-THE-FLY PATTERN RECOGNITION WITH CONFIGURABLE BOUNDS	Dell Software Inc.
14578065	9237163	12/19/2014	MANAGING INFECTIOUS FORWARDED MESSAGES	Dell Software Inc.
14581717	9231767	12/23/2014	IDENTIFICATION OF CONTENT BY METADATA	Dell Software Inc.
14607776	9274758	1/28/2015	SYSTEM AND METHOD FOR CREATING CUSTOMIZED PERFORMANCE-MONITORING APPLICATIONS	Dell Software Inc.
14624533	9268656	2/17/2015	ROUTING OF COMMUNICATIONS TO ONE OR MORE PROCESSORS PERFORMING ONE OR MORE SERVICES ACCORDING TO A LOAD BALANCING FUNCTION	Aventail LLC
14638298	9405839	03/04/2015	REQUESTING WEB PAGES AND CONTENT RATING INFORMATION	Dell Software Inc.
14696839	9313158	4/27/2015	MESSAGE CHALLENGE RESPONSE	Dell Software Inc.
95001458	Reexamination Certificate issued 7617501	9/20/2010	APPARATUS, SYSTEM, AND METHOD FOR MANAGING POLICIES ON A COMPUTER HAVING A FOREIGN OPERATING SYSTEM	Dell Software Inc.
95001872	Reexamination Certificate issued 7904949	1/12/2012	APPARATUS, SYSTEMS AND METHODS TO PROVIDE AUTHENTICATION SERVICES TO A LEGACY APPLICATION	Dell Software Inc.
11774267	7961959	7/6/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	Dell Software Inc.
11774272	7961960	7/6/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	Dell Software Inc.
11774278	7881544	7/6/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	Dell Software Inc.
11774297	7936932	7/6/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	Dell Software Inc.
11774310	7970216	7/6/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	Dell Software Inc.
11774319	7974478	7/6/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	Dell Software Inc.
11774333	7885988	7/6/2007	METHODS AND APPARATUS FOR	Dell Software Inc.

Exhibit II-26

Application Number	Patent Number	Filing Date	Title	Owner
			REDUCING STORAGE SIZE	
12038219	8224831	2/27/2008	VIRTUALIZATION OF METADATA FOR FILE OPTIMIZATION	Dell Software Inc.
12038223	8219534	2/27/2008	MULTIPLE FILE COMPACTION FOR NETWORK ATTACHED STORAGE	Dell Software Inc.
12573690	8386443	10/5/2009	REPRESENTING AND STORING AN OPTIMIZED FILE SYSTEM USING A SYSTEM OF SYMLINKS, HARDLINKS AND FILE ARCHIVES	Dell Software Inc.
12574580	8862559	10/6/2009	SCALABLE MECHANISM FOR DETECTION OF COMMONALITY IN A DEDUPLICATED DATA SET	Dell Software Inc.
12574990	8694466	10/7/2009	OBJECT DEDUPLICATION AND APPLICATION AWARE SNAPSHOTS	Dell Software Inc.
12624354	8423520	11/23/2009	METHODS AND APPARATUS FOR EFFICIENT COMPRESSION AND DEDUPLICATION	Dell Software Inc.
12954348	8965852	11/24/2010	METHODS AND APPARATUS FOR NETWORK EFFICIENT DEDUPLICATION	Dell Software Inc.
13041282	8849773	3/4/2011	METHODS AND APPARATUS FOR ACTIVE OPTIMIZATION OF DATA	Dell Software Inc.
13081335	9323778	4/6/2011	VIRTUAL DISK UTILITY	Dell Software Inc.
13158289	9400799	6/10/2011	DATA BLOCK MIGRATION	Dell Software Inc.
13158292	9201890	6/10/2011	STORAGE OPTIMIZATION MANAGER	Dell Software Inc.
13182145	9430622	7/13/2011	MINI APPLIANCE	Dell Software Inc.
13182230	9396311	7/13/2011	MINI APPLIANCE ENSURING SOFTWARE LICENSE COMPLIANCE	Dell Software Inc.
13243965	9442951	9/23/2011	MAINTAINING DEDUPLICATION DATA IN NATIVE FILE FORMATS	Dell Software Inc.
13243985	9449013	9/23/2011	APPLICATION TRANSPARENT DEDUPLICATION DATA	Dell Software Inc.
13306878	9449014	11/29/2011	RESYNCHRONIZATION OF REPLICATED DATA	Dell Software Inc.
13415324	9256609	3/8/2012	FIXED SIZE EXTENTS FOR VARIABLE SIZE DEDUPLICATION SEGMENTS	Dell Software Inc.
13491679	8655898	6/8/2012	VIRTUALIZATION OF METADATA FOR FILE OPTIMIZATION	Dell Software Inc.
13560762	9210044	7/27/2012	AUTOMATED REMEDIATION WITH AN APPLIANCE	Dell Software Inc.
13678881	8965850	11/16/2012	METHOD OF AND SYSTEM FOR MERGING, STORING AND RETRIEVING INCREMENTAL BACKUP DATA	Dell Software Inc.
13739731	9389879	1/11/2013	SYSTEM AND METHOD FOR MANIPULATING USER-INTERFACE DISPLAY ITEMS FOR WEB WIDGETS	Dell Software Inc.
13748743	9448948	1/24/2013	EFFICIENT REPLICA CLEANUP DURING RESYNCHRONIZATION	Dell Software Inc.
13784575	9250819	3/4/2013	A LEARNING MACHINE TO OPTIMIZE RANDOM ACCESS IN A	Dell Software Inc.

Exhibit II-27

Application Number	Patent Number	Filing Date	Title	Owner
			STORAGE SYSTEM	
13862911	9367558	4/15/2013	METHODS AND APPARATUS FOR EFFICIENT COMPRESSION AND DEDUPLICATION	Dell Software Inc.
14010495	8892528	8/26/2013	ACCELERATED DEDUPLICATION	Dell Software Inc.
14021852	8713583	9/9/2013	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER	Dell Software Inc.
14154961	9460178	1/14/2014	SYNCHRONIZED STORAGE SYSTEM OPERATION	Dell Software Inc.
14245084	9251161	4/4/2014	OBJECT DEDUPLICATION AND APPLICATION AWARE SNAPSHOTS	Dell Software Inc.
14498597	9311322	9/26/2014	HEAT INDICES FOR FILE SYSTEMS AND BLOCK STORAGE	Dell Software Inc.
14507731	9262432	10/6/2014	SCALABLE MECHANISM FOR DETECTION OF COMMONALITY IN A DEDUPLICATED DATA SET	Dell Software Inc.
13970550	201303467 39	08/19/2013	METHOD AND APPARATUS FOR PROVIDING SECURE STREAMING DATA TRANSMISSION FACILITIES USING UNRELIABLE PROTOCOLS	Aventail LLC

Patents Pending:

Application Number	Publication Number	Filing Date	Title	Owner
11738952	20080263644	04/23/2007	FEDERATED AUTHORIZATION FOR DISTRIBUTED COMPUTING	Dell Software Inc.
11927458	20080104062	10/29/2007	APPROXIMATE MATCHING OF STRINGS FOR MESSAGE FILTERING	Dell Software Inc.
12036167	20080221974	02/22/2008	LAZY EVALUATION OF BULK FORECASTS	Dell Software Inc.
12497328			PROXY-LESS SECURE SOCKETS LAYER (SSL) DATA INSPECTION	Dell Software Inc.
12537831	20110035358	08/07/2009	OPTIMIZED COPY OF VIRTUAL MACHINE STORAGE FILES	Dell Software Inc.
12605193			INSTRUMENTATION OF PROGRAM CODE FOR DYNAMIC ANALYSIS	Dell Software Inc.
12902930			BOOT RESTORE SYSTEM FOR RAPIDLY RESTORING VIRTUAL MACHINE BACKUPS	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
12914767			SYSTEMS AND METHODS FOR CONTROLLING ACCESS TO COMPUTER APPLICATIONS OR DATA	Dell Software Inc.
13053196	8914410	03/21/2011	QUERY INTERFACE TO POLICY SERVER	Dell Software Inc.
13098298			SYSTEM FOR PROVIDING STRUCTURED QUERY LANGUAGE ACCESS TO NON-RELATIONAL DATA STORES	Dell Software Inc.
13156199			CATALOGING SYSTEM FOR IMAGE-BASED BACKUP	Dell Software Inc.
13460774	20120215868	04/30/2012	PERSONALIZED ELECTRONIC-MAIL DELIVERY	Dell Software Inc.
13474339			SYSTEMS AND METHODS FOR RESERVING CAPACITY FOR FUTURE VIRTUAL MACHINE DEPLOYMENTS	Dell Software Inc.
13489276	20120246646	06/05/2012	METHOD, SYSTEM AND APPARATUS FOR CALCULATING CHARGEBACK FOR VIRTUALIZED COMPUTING RESOURCES	Dell Software Inc.
13594431			SYSTEMS AND METHODS FOR PERFORMANCE INDEXING	Dell Software Inc.
13658709			SYSTEM FOR INFERRING DEPENDENCIES AMONG COMPUTING SYSTEMS	Dell Software Inc.
13658724			SYSTEM FOR INFERRING DEPENDENCIES AMONG COMPUTING SYSTEMS	Dell Software Inc.
13658747			DATA MODELING SYSTEM FOR ENABLING RUNTIME SCHEMA EXTENSIBILITY	Dell Software Inc.
13773475	20130219486	02/21/2013	VPN DEEP PACKET INSPECTION	Aventail LLC
13804064			SYSTEM AND METHOD FOR ENFORCING ACCESS CONTROLS TO PUBLICLY-ACCESSIBLE WEB APPLICATIONS	Dell Software Inc.
13804476			SYSTEM AND METHOD FOR INTERACTIVE TUTORIALS	Dell Software Inc.
13853946 Reissue of		03/29/2013	TRAINING PROCEDURE FOR N-GRAM-BASED	Dell Software Inc.

Exhibit II-29

Application Number	Publication Number	Filing Date	Title	Owner
7917522			STATISTICAL CONTENT CLASSIFICATION	
13906241		05/30/2013	SYSTEM AND METHOD FOR DATA AGGREGATION AND ANALYSIS	Dell Software Inc.
13906246		05/30/2013	SYSTEM AND METHOD FOR CLASSIFYING DATA	Dell Software Inc.
13935075			SYSTEM AND METHOD FOR INFERRING AND ADAPTING A NETWORK TOPOLOGY	Dell Software Inc.
13957319	20150040142	08/01/2013	EFFICIENT DFA GENERATION FOR NON-MATCHING CHARACTERS AND CHARACTER CLASSES IN REGULAR EXPRESSIONS	Dell Software Inc.
13957322	20150039550	08/01/2013	CONSTRUCTION ABORTION OF DFA BASED ON EXPRESSION	Dell Software Inc.
14014637	20140095243	08/30/2013	DATA METRIC RESOLUTION RANKING SYSTEM AND METHOD	Dell Software Inc.
14089427		11/25/2013	SYSTEM AND METHOD FOR DATA LOSS PREVENTION ACROSS HETEROGENEOUS COMMUNICATIONS PLATFORMS	Dell Software Inc.
14096866	20140089249	12/04/2013	DATA PATTERN ANALYSIS USING OPTIMIZED DETERMINISTIC FINITE AUTOMATON	Dell Software Inc.
14153218			SYSTEM AND METHOD FOR PROACTIVE SCALING	Dell Software Inc.
14167985	20140150070	01/29/2014	MOBILE DEVICE IDENTITY AND ACCESS CONTROL POLICIES	Aventail LLC
14177434	20140156678	02/11/2014	IMAGE BASED SPAM BLOCKING	Dell Software Inc.
14178158			SYSTEM AND METHOD FOR MANAGING A CLUSTERED RADIO NETWORK	Dell Software Inc.
14178165			SYSTEM AND METHOD FOR COLLECTING DATA FROM LOW-AVAILABILITY DEVICES	Dell Software Inc.
14191648			SYSTEM AND METHOD FOR CONTENT-INDEPENDENT DETERMINATION OF FILE-SYSTEM-OBJECT RISK OF	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
			EXPOSURE	
14193194			DISCOVERING SITE OWNERS AND ENABLING COLLABORATION BETWEEN THEM IN A SHAREPOINT (OR SIMILAR) CORPORATE NETWORK	Dell Software Inc.
14214013	20140201486	03/14/2014	CONTINUOUS DATA BACKUP USING REAL TIME DELTA STORAGE	Dell Software Inc.
14248215			SYSTEM AND METHOD TO STORE SHARED SESSIONS WITH ENCRYPTION	Dell Software Inc.
14248234			RICH FORM GENERATOR FOR RESTFUL SERVICE	Dell Software Inc.
14249147			INTUITIVE REPRESENTATION OF END-TO-END PERFORMANCE DIAGNOSTIC MONITORING BASED ON DIFFERENTIAL ANALYSIS	Dell Software Inc.
14264889			A METHOD FOR IDENTIFYING GROUPINGS OF USER ACTIVITY USING THE K-MEANS CLUSTERING ALGORITHM APPLIED TO TEMPORAL ACTIVITY DATA	Dell Software Inc.
14265973			ENTERPRISE MEETING / CONFERENCE RESOURCE ANALYTICS	Dell Software Inc.
14292135			CORRELATING PERFORMANCE ISSUES AND ERRORS TO FIND CORRELATION ACROSS FACTORS	Dell Software Inc.
14297944			METHOD FOR VARIABLE SECURITY / POLICY SETTINGS BASED ON USER CONTEXT	Dell Software Inc.
14305249			WEB SITE CERTIFICATE BYPASS ANALYSIS AND REPORTING	Dell Software Inc.
14319136	20150281281	06/30/2014	IDENTIFICATION OF UNAUTHORIZED APPLICATION DATA IN A CORPORATE NETWORK	Dell Software Inc.
14319145	20150281282	06/30/2014	APPLICATION SIGNATURE AUTHORIZATION	Dell Software Inc.
14319166	20150281003	06/30/2014	MOBILE APPLICATION	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
			CONTROL	
14325074			SYSTEM AND METHOD TO INJECT ADDITIONAL PRIVILEGES WITHOUT CHANGING USER IDENTITY TO ENABLE USER WORKSPACE MANAGEMENT	Dell Software Inc.
14326230	20140324415	07/08/2014	EFFICIENT STRING SEARCH	Dell Software Inc.
14335205			TRACKING, CLASSIFYING AND REPORTING OF COMMUNICATION AND CONTENT EVENTS TO EMPLOYEES' PERFORMANCE OBJECTIVES AND GOALS	Dell Software Inc.
14456884	20140359764	08/11/2014	REASSEMBLY-FREE DEEP PACKET INSPECTION ON MULTI-CORE HARDWARE	Dell Software Inc.
14473190	20160065551	01/30/2014	SINGLE LOGIN AUTHENTICATION FOR USERS WITH MULTIPLE IPV4/IPV6 ADDRESSES	Dell Software Inc.
14475408	20140373110	09/02/2014	MOBILE DEVICE IDENTIFY FACTOR FOR ACCESS CONTROL POLICIES	Aventail LLC
14475441	20140373156	09/02/2014	NOTIFICATION FOR REASSEMBLY-FREE FILE SCANNING	Dell Software Inc.
14530668	20150055501	10/31/2014	WIRELESS EXTENDER SECURE DISCOVERY AND PROVISIONING	Dell Software Inc.
14536062	20160134571	11/07/2014	AUTOMATED LARGE ATTACHMENT PROCESSING DURING MIGRATION	Dell Software Inc.
14541791			METHOD FOR SECURELY DESCRIBING AND NEGOTIATING SECURITY REQUIREMENTS FOR WORKLOADS	Dell Software Inc.
14556157	20160156696	11/30/2014	TRANSPARENT DEFERRED SPOOLING STORE AND FORWARD BASED ON STANDARD NETWORK SYSTEM AND CLIENT INTERFACE	Dell Software Inc.
14562453			THIS BINARY PACKING PROTOCOL MINIMIZES BYTES ACROSS THE NETWORK.	Dell Software Inc.

Exhibit II-32

Application Number	Publication Number	Filing Date	Title	Owner
14562474			COMBINING RESPONSE TIME ANALYTICS, TOPOLOGY, AND MACHINE LEARNING BASED ON DIFFERENTIAL DIAGNOSTICS	Dell Software Inc.
14562502			TRANSIENT STORAGE OF TRACE DATA IN TIME-BOXED ARCHIVERS TO HANDLE PEAK LOAD	Dell Software Inc.
14568386			IDENTIFICATION AND RESOLUTION OF DUPLICATE INDEXES IN RELATIONAL DATABASE MANAGEMENT SYSTEMS	Dell Software Inc.
14587947	20160191543	12/31/2014	SECURE NEIGHBOR DISCOVERY (SEND) USING PRE-SHARED KEY	Dell Software Inc.
14588181	20160188614	12/31/2014	EMAIL AND IDENTITY MIGRATION BASED ON RELATIONSHIP INFORMATION	Dell Software Inc.
14589760	20160196149	01/05/2015	MILESTONE BASED DYNAMIC MULTIPLE WATCHDOG TIMEOUTS AND EARLY FAILURE DETECTION	Dell Software Inc.
14591781	20160198020	01/07/2015	OPTIMIZING TRANSFER OF FRAGMENTED PACKETIZED DATA	Dell Software Inc.
14603197	20160219022	01/22/2015	SECURE SHELL PUBLIC KEY AUDIT SYSTEM	Dell Software Inc.
14603208	20160219050	01/22/2015	DYNAMICALLY GENERATED SSID	Dell Software Inc.
14605229	20160219008	01/26/2015	DYNAMICALLY PARTITIONING A MAILING LIST BASED ON A-PRIORI CATEGORIES AND CONTEXTUAL ANALYSIS	Dell Software Inc.
14605731	20160219052	01/26/2015	PROXY AUTHENTICATION FOR MULTIPLE CORE NETWORK DEVICE	Dell Software Inc.
14606451	20160219018	01/27/2015	DYNAMIC BYPASS OF TLS CONNECTIONS MATCHING EXCLUSION LIST IN DPI-SSL IN A NAT DEPLOYMENT	Dell Software Inc.
14607907			SYSTEM TO GENERATE DEPENDENCY TOPOLOGY MAP FOR CLOUD INFRASTRUCTURE	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
14610259	20160224556	01/30/2015	LOGICAL LEVEL PREDICTIVE CACHING FOR RELATIONAL DATABASES	Dell Software Inc.
14613917			HYBRID APPROACH TO STORAGE OF IT PERFORMANCE DATA IN AND INTEGRATED SOLUTION ENVIRONMENT	Dell Software Inc.
14619853	20160234108	02/11/2015	SELECTIVE DATA COLLECTION USING A MANAGEMENT SYSTEM	Dell Software Inc.
14619897			VISUAL FILTERING OF CODE CALL TREE DATA	Dell Software Inc.
14628889	20150169202	02/23/2015	DECLASSIFYING OF SUSPICIOUS MESSAGES	Dell Software Inc.
14629583	20160246808	02/24/2015	FILE AND MOVE DATA TO SHRINK DATAFILES	Dell Software Inc.
14631826			SYSTEMS AND METHODS FOR EVENT-BASED AUTHENTICATION	Dell Software Inc.
14633826			VISUAL TRANSFORM AND CLEANSE BASED ITERATIVE QUERY BUILDER	Dell Software Inc.
14637315	20150180812	03/03/2015	ACTIVE E-MAIL FILTER WITH CHALLENGE-RESPONSE	Dell Software Inc.
14640706	20160259825	03/06/2015	DISCOVERY OF POTENTIAL PROBLEMATIC EXECUTION PLANS IN A BIND-SENSITIVE SQL STATEMENT	Dell Software Inc.
14645129	20160269329	03/11/2015	AUTOMATED LARGE FILE PROCESSING WITH EMBEDDED VISUAL CUES	Dell Software Inc.
14645383	20160269314	03/11/2015	UNIFIED BANDWIDTH MANAGEMENT ON DISTRIBUTED NETWORK ENVIRONMENT	Dell Software Inc.
14645393	20160267284	03/11/2015	METHOD AND SYSTEM FOR DESTROYING SENSITIVE ENTERPRISE DATA ON PORTABLE DEVICES	Dell Software Inc.
14657904	20160267612	03/13/2015	CENTRALLY MANAGED LICENSING IN A GLOBAL VPN INFRASTRUCTURE	Dell Software Inc.
14660697			SYSTEMS AND METHODS OF PATTERNIZING LOGGED USER-INITIATED EVENTS FOR SCHEDULING FUNCTIONS	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
14665292	20160283254	03/23/2015	AUTOMATIC OPTIMIZATION OF CONTINUOUS PROCESSES	Dell Software Inc.
14665315	20160285824	03/23/2015	FIREWALL MULTI LEVEL SECURITY DYNAMIC HOST BASED SANDBOX GENERATION FOR EMBEDDED URL LINKS	Dell Software Inc.
14666180	20160285912	03/23/2015	NON RFC COMPLIANT PROTOCOL CLASSIFICATION BASED ON REAL USE	Dell Software Inc.
14666410			SYSTEMS AND METHODS FOR FACILITATING PORTABLE USER SESSIONS	Dell Software Inc.
14666918	20160283524	03/24/2015	ADAPTIVE SAMPLING VIA ADAPTIVE OPTIMAL EXPERIMENTAL DESIGNS TO EXTRACT MAXIMUM INFORMATION FROM LARGE DATA REPOSITORIES	Dell Software Inc.
14672675			HOST SOFTWARE BASED OPTIMIZED INSTANT CLONES	Dell Software Inc.
14672715			SYSTEM AND METHODS OF SECURING NETWORK-ACCESSIBLE PERIPHERAL DEVICES	Dell Software Inc.
14672791			METHOD AND SYSTEM TO IMPROVE THE LOOKUP OF ESTIMATES OF INFORMATION USING PATTERN BASED HEURISTICS	Dell Software Inc.
14674270			SYSTEMS AND METHODS OF AUTOMATIC TRAINING INITIATION BASED ON AN ANALYSIS OF USER-INITIATED COMMUNICATION EVENTS	Dell Software Inc.
14683416			USAGE AND SYMPTOM ORIENTED SQL OPTIMIZATION	Dell Software Inc.
14683441			SYSTEMS AND METHODS OF SECURE SELF-SERVICE ACCESS TO CONTENT	Dell Software Inc.
14683453			SYSTEMS AND METHODS OF SECURE SELF-SERVICE ACCESS TO CONTENT	Dell Software Inc.
14683462			SYSTEMS AND METHODS OF SECURE SELF-SERVICE ACCESS TO CONTENT	Dell Software Inc.

Exhibit II-35

Application Number	Publication Number	Filing Date	Title	Owner
14683465			SYSTEMS AND METHODS OF TRACKING CONTENT-EXPOSURE EVENTS	Dell Software Inc.
14683513			SYSTEMS AND METHODS OF REPORTING CONTENT-EXPOSURE EVENTS	Dell Software Inc.
14687732			ENHANCED MANAGEMENT OF MIGRATION AND ARCHIVING OPERATIONS	Dell Software Inc.
14690600			GRAPH THEORY AND NETWORK ANALYTICS AND DIAGNOSTICS FOR PROCESS OPTIMIZATION IN MANUFACTURING	Dell Software Inc.
14692169			SQL JOIN PLAN REPRESENTATION	Dell Software Inc.
14694634			DETECTING UNAUTHORIZED, RISKY, OR INEFFICIENT USAGE OF PRIVILEGED CREDENTIALS THROUGH ANALYSIS OF REMOTE SHELL PROTOCOL BANDWIDTH	Dell Software Inc.
14694647			DETECTING SHARED OR COMPROMISED CREDENTIALS THROUGH ANALYSIS OF SIMULTANEOUS ACTIONS	Dell Software Inc.
14695681			PARTITIONING TARGET DATA TO IMPROVE DATA REPLICATION PERFORMANCE	Dell Software Inc.
14700444			ACCESS TO DISPARATE CLOUD SERVICES	Dell Software Inc.
14700502			DETECTING UNAUTHORIZED RISKY OR INEFFICIENT USAGE OF PRIVILEGED CREDENTIALS THROUGH ANALYSIS OF TASK COMPLETION TIMING	Dell Software Inc.
14702858			METHOD OF OPTIMIZING COMPLEX SQL STATEMENTS USING A REGION DIVIDED PREFERENTIAL SQL REWRITE OPERATION	Dell Software Inc.
14705878			DEVICE ASSET TRACKING AND SERVICE DESK USING AN EXTERNAL	Dell Software Inc.

Exhibit II-36

Application Number	Publication Number	Filing Date	Title	Owner
			MANAGEMENT SYSTEM AS A DATA SOURCE	
14706060			SELECTING A CLOUD FROM A PLURALITY OF CLOUDS FOR A WORKLOAD	Dell Software Inc.
14708110			TWO STAGE MEMORY ALLOCATION USING A CACHE	Dell Software Inc.
14718804			SYSTEM AND METHOD FOR AGGLOMERATIVE CLUSTERING	Dell Software Inc.
14719121			METHOD FOR DETERMINING PREDICTIVE RESPONSE TIME ACROSS ENTERPRISE COMMUNICATION SYSTEMS	Dell Software Inc.
14719121			PROCESSING UNKNOWN OR UNEXPECTED PROPERTIES ENCOUNTERED DURING MIGRATION OR ARCHIVING OPERATIONS	Dell Software Inc.
14722055			REDUCING TRANSMISSION PATHWAY LENGTHS WITHIN A DISTRIBUTED NETWORK	Dell Software Inc.
14722125			SYSTEM AND METHOD FOR ADAPTIVE PATHS LOCATOR FOR VIRTUAL NETWORK FUNCTION LINKS	Dell Software Inc.
14722854			CONTENT-BASED ENCRYPTION KEYS	Dell Software Inc.
14722914			DATA FINGERPRINT STRENGTHENING	Dell Software Inc.
14725778			MODEL BASED SYSTEM AND METHODS TO GENERATE END-TO-END DEPENDENCY GRAPH IN MULTI-LAYER NETWORK FUNCTION VIRTUALIZATION MONITORING SYSTEMS	Dell Software Inc.
14726971			METHOD AND APPARATUS TO EXTRAPOLATE SARCASM AND IRONY USING MULTI-DIMENSIONAL MACHINE LEARNING BASED LINGUISTIC ANALYSIS	Dell Software Inc.
14731252			SELECTIVELY SUPPRESS OR THROTTLE MIGRATION OF DATA ACROSS WAN CONNECTIONS	Dell Software Inc.

Exhibit II-37

Application Number	Publication Number	Filing Date	Title	Owner
14731271			MIGRATION ENHANCED BY PRESENCE, INSTANT MESSAGING, AND LAST LOG-ON TIME	Dell Software Inc.
14731278			MIGRATE NICKNAME CACHE FOR EMAIL SYSTEMS AND DEVICES	Dell Software Inc.
14731283			DETERMINE CONFIDENCE OF MAIL ARCHIVE OWNERSHIP FROM SENDERS IN "SENT ITEMS" FOLDER	Dell Software Inc.
14738087			DYNAMICALLY OPTIMIZING DATA ACCESS PATTERNS USING PREDICTIVE CROWDSOURCING	Dell Software Inc.
14741021			A SYSTEM FOR ENABLING INDIVIDUAL TENANTS IN A MULTI-TENANT SAAS ENVIRONMENT TO CONTROL THEIR OWN UPGRADE TIMELINES ON AN ACCOUNT-BY-ACCOUNT BASIS.	Dell Software Inc.
14747860	20150295894	06/23/2015	METHOD AND APPARATUS TO PERFORM MULTIPLE PACKET PAYLOADS ANALYSIS	Dell Software Inc.
14755592	20150334598	06/30/2015	CENTRALIZED WIRELESS LAN LOAD BALANCING	Dell Software Inc.
14793640	20150358286	07/07/2015	ON-THE-FLY PATTERN RECOGNITION WITH CONFIGURABLE BOUNDS	Dell Software Inc.
14793683	20160026797	07/07/2015	REAL-TIME NETWORK UPDATES FOR MALICIOUS CONTENT	Dell Software Inc.
14797010			SYSTEM AND METHOD FOR IMPROVING SECURITY INTELLIGENCE THROUGH INVENTORY DISCOVERY	Dell Software Inc.
14811794	20150372983	07/28/2015	METHOD AND APPARATUS FOR RESOURCE LOCATOR IDENTIFIER REWRITE	Dell Software Inc.
14812823			MANAGING ALERT PROFILES	Dell Software Inc.
14815221			AUTOMATIC DETERMINATION OF OPTIMAL TIME WINDOW FOR MIGRATION, BACKUP OR OTHER PROCESSES	Dell Software Inc.
14815866			SOCIAL MEDIA LOGIN AND	Dell Software Inc.

Exhibit II-38

Application Number	Publication Number	Filing Date	Title	Owner
			INTERACTION MANAGEMENT	
14816900	20150341264	08/03/2015	PROCESSING A MESSAGE BASED ON A BOUNDARY IP ADDRESS AND DECAY VARIABLE	Dell Software Inc.
14818215	20150350231	08/04/2015	METHOD AND APPARATUS TO PERFORM MULTIPLE PACKET PAYLOADS ANALYSIS	Dell Software Inc.
14818218	20160026516	08/04/2015	PACKET PROCESSING ON A MULTI-CORE PROCESSOR	Dell Software Inc.
14819104			UNIFIED SOURCE USER CHECKING OF TCP DATA PACKETS FOR NETWORK DATA LEAKAGE PREVENTION	Dell Software Inc.
14819233			SYSTEMS AND METHODS FOR TUNING CROSS-PLATFORM DATA COLLECTION	Dell Software Inc.
14819403			ADAPTIVE CORE GROUPING	Dell Software Inc.
14821635			READ-AHEAD ON SIGNED CONNECTIONS WITH UNSIGNING INLINE TRANSPARENT PROXIES	Dell Software Inc.
14826770			METHOD FOR PERFORMING IN-DATABASE DISTRIBUTED ADVANCED PREDICTIVE ANALYTICS MODELING VIA COMMON QUERIES	Dell Software Inc.
14834319	20150365429	08/24/2015	METHOD AND APPARATUS TO PERFORM MULTI-CONNECTION TRAFFIC ANALYSIS AND MANAGEMENT	Dell Software Inc.
14835530			DURING AN EMAIL MIGRATION, CONVERTING DISTRIBUTION LIST MESSAGES INTO SINGLE-INSTANCED CONTENT WITHIN A COLLABORATION PLATFORM GROUP	Dell Software Inc.
14840739			CORRELATING EVENT LOGS TO IDENTIFY A POTENTIAL SECURITY BREACH	Dell Software Inc.
14842693			OPTIMIZED AND CONSISTENT REPLICATION	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
			OF FILE OVERWRITES	
14844951			AUTOMATICALLY APPLYING DATA LOSS PREVENTION RULES DURING MIGRATION	Dell Software Inc.
14845050			PROVIDING CONTROLLED ACCESS TO ADMIN CREDENTIALS DURING A MIGRATION	Dell Software Inc.
14845467			IDENTIFYING ISSUES PRIOR TO DEPLOYING SOFTWARE	Dell Software Inc.
14845756			GOVERNANCE POLICY FRAMEWORK FOR CLOUD RESOURCES	Dell Software Inc.
14858299			RISK ANALYSIS AND EFFICIENT UPDATE FOR LARGE SCALE SHAREPOINT CONTENT CHANGES	Dell Software Inc.
14858341			MODEL-BASED VDI MONITORING AND REMOTE DISPLAY SESSION LATENCY DIAGNOSTIC	Dell Software Inc.
14861608			SYSTEM AND METHOD FOR DUPLICATING CUSTOMER DEPLOYMENTS USING SANITIZED TOPOLOGIES	Dell Software Inc.
14867615			ELECTRONIC-MESSAGING SYSTEM INTERCEPTOR FORWARDING CLIENT NOTIFICATIONS	Dell Software Inc.
14869072			SYSTEM AND METHOD FOR ACCESSING DIMENSIONAL DATABASES	Dell Software Inc.
14869758			SIZING OF ONE OR MORE JOBS WITHIN ONE OR MORE TIME WINDOWS	Dell Software Inc.
14870470			COMBINING A SET OF RISK FACTORS TO PRODUCE A TOTAL RISK SCORE WITHIN A RISK ENGINE	Dell Software Inc.
14872525			COLLECTING AND TRANSMITTING DIAGNOSTICS INFORMATION FROM PROBLEMATIC DEVICES	Dell Software Inc.
14874587			FOLDERS THAT EMPLOY DYNAMIC USER TRAINING RULES TO ORGANIZE CONTENT	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
14875120			PREDICTING QUALITY OF EXPERIENCE FOR VOIP CONFERENCES BASED ON CORRELATES OF SCHEDULING AND NATIVE QOE DATA	Dell Software Inc.
14875136			COMPRESSED METRIC FORMAT FOR MULTI-CORE CPU UTILIZATION	Dell Software Inc.
14877391			IDENTITY AUTHENTICATION USING MULTIPLE DEVICES	Dell Software Inc.
14879657			IDENTIFYING A POTENTIAL MENTOR FOR A COMPUTER-ADMINISTERED TEST	Dell Software Inc.
14886884			DYNAMIC PROFILE-BASED TIME SERIES COMPRESSION METHOD	Dell Software Inc.
14919930			EMAIL AND IDENTITY MIGRATION BASED ON MULTIFACTOR RELATIONSHIP DATA PROVIDED BY USERS AND SYSTEMS	Dell Software Inc.
14926566	20160050216	10/29/2015	CLOUD-BASED GATEWAY SECURITY SCANNING	Dell Software Inc.
14929460			AUGMENTED CONTENT-BASED CLASSIFICATION THROUGH COMMUNICATION USAGE TEXT ENRICHMENT TECHNIQUE	Dell Software Inc.
14929482			CONTEXT BASED LOG DIMENSIONS ANALYSIS (RE-SUBMISSION FOR 104091 - LOG EVENT AND PERFORMANCE METRICS CORRELATION)	Dell Software Inc.
14931454			AGENT MANAGED CONTAINER	Dell Software Inc.
14934720			PLATFORM FOR ADMINISTRATION OF PERSONAL HEALTH INFORMATION	Dell Software Inc.
14937776			FIREWALL INFORMED BY WEB SERVER SECURITY POLICY IDENTIFYING AUTHORIZED RESOURCES AND HOSTS	Dell Software Inc.
14938573	20160078124	11/11/2015	USING DISTINGUISHING	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
			PROPERTIES TO CLASSIFY MESSAGES	
14938580			DOCUMENT LINK MIGRATION	Dell Software Inc.
14942776			METHOD TO AUTOMATICALLY CREATE OFFICE 365 GROUPS USING MULTIFACTOR RELATIONSHIP DATA PROVIDED BY USERS AND SYSTEMS.	Dell Software Inc.
14948133			RESOURCE AWARE CLASSIFICATION SYSTEM	Dell Software Inc.
14949731	20160080300	08/29/2014	NET- BASED EMAIL FILTERING	Dell Software Inc.
14956298			INTERNET OF THINGS DYNAMIC DATA LOSS PREVENTION	Dell Software Inc.
14956464			DETERMINING A RISK INDICATOR BASED ON CLASSIFYING DOCUMENTS USING A CLASSIFIER	Dell Software Inc.
14960043			DISTRIBUTED DATABASE DRIVER MIDDLEWARE	Dell Software Inc.
14962211			USAGE-BASED MODIFICATION OF USER PRIVILEGES	Dell Software Inc.
14964027			REGISTERING NETWORK DEVICES USING KNOWN HOST DEVICES	Dell Software Inc.
14964502	20160094518	12/09/2015	A METHOD TO ENABLE DEEP PACKET INSPECTION (DPI) IN OPENFLOW-BASED SOFTWARE DEFINED NETWORK (SDN)	Dell Software Inc.
14965859			AUTOMATIC TUNNELS ROUTING LOOP ATTACK DEFENSE	Dell Software Inc.
14965866			REASSEMBLY FREE DEEP PACKET INSPECTION FOR PEER TO PEER NETWORKS	Dell Software Inc.
14968455			PRINTED DOCUMENT CONTROL WITH VERIFIED UNIQUE WATERMARKS	Dell Software Inc.
14968786	20160099959	12/14/2015	REPUTATION BASED THREAT PROTECTION	Dell Software Inc.
14968829	20160099899	12/14/2015	ACTIVE E-MAIL FILTER WITH CHALLENGE-RESPONSE	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
14975625			TCP TRAFFIC PRIORITY CONTROL BASED ON TCP WINDOW ADJUSTMENT IN BANDWIDTH MANAGEMENT	Dell Software Inc.
14976652			A CENTRALIZED LANGUAGE MANAGEMENT SYSTEM TOOL FOR DISTRIBUTED SYSTEM	Dell Software Inc.
14980009			CONTEXT-AWARE DELEGATION ENGINE	Dell Software Inc.
14981299			CONTROLLING CONTENT MODIFICATIONS BY ENFORCING ONE OR MORE CONSTRAINT LINKS	Dell Software Inc.
14987698	20160117404	01/04/2016	FAST IDENTIFICATION OF CONTENT	Dell Software Inc.
14989654			EMAIL RECOVERY VIA EMULATION AND INDEXING	Dell Software Inc.
14989657			SMART EXCHANGE DATABASE INDEX	Dell Software Inc.
14991567			MANAGING PERSISTENT COOKIES ON A CORPORATE WEB PORTAL	Dell Software Inc.
14993059	20160127400	01/11/2016	MANAGING INFECTIOUS MESSAGES AS IDENTIFIED BY AN ATTACHMENT	Dell Software Inc.
14994328			TEMPORARY DISPOSABLE PORTABLE IDENTIFIER	Dell Software Inc.
14996036			USER BASED STATELESS IPV6 RA-GUARD	Dell Software Inc.
14996133			DYNAMIC DNS DESTINATION SELECTION	Dell Software Inc.
15000867			DELAYING ONE OR MORE SEARCHES TO CAUSE MULTIPLE SEARCHES TO LOAD AND EVALUATE SEGMENTS TOGETHER	Dell Software Inc.
15005840			MULTIDIMENSIONAL SYNOPSIS GENERATION	Dell Software Inc.
15005846			OPTIMIZER MODULE IN HIGH LOAD CLIENT/SERVER SYSTEMS	Dell Software Inc.
15006875			PRIVACY ENABLED MOBILE DEVICE IDENTIFICATION FOR BYOD POLICIES.	Dell Software Inc.
15006891			IDENTIFYING COMMON CONFIGURATIONS IN	Dell Software Inc.

Exhibit II-43

Application Number	Publication Number	Filing Date	Title	Owner
			DISTRIBUTED ENVIRONMENTS WITH MEMORABLE HASH NAMES	
15006933	20160224655	01/26/2016	MESSAGE RECOMMENDATION USING WORD ISOLATION AND CLUSTERING	Dell Software Inc.
15007092	20160164956	01/26/2016	ROUTING OF COMMUNICATIONS TO ONE OR MORE PROCESSORS PERFORMING ONE OR MORE SERVICES ACCORDING TO A LOAD BALANCING FUNCTION	Aventail LLC
15008081			RECOVERING A SPECIFIED SET OF DOCUMENTS FROM A DATABASE BACKUP	Dell Software Inc.
15009617			READ-ONLY FILE SYSTEM FOR TESTING DE-DUPLICATION	Dell Software Inc.
15010960			RISK AND VALUE BASED INFORMATION CLASSIFICATION SYSTEM.	Dell Software Inc.
15017107			CONTEXT-AWARE DELEGATION RISK SYSTEM	Dell Software Inc.
15018059			DEPUTIZING AGENTS TO REDUCE A VOLUME OF EVENT LOGS SENT TO A COORDINATOR	Dell Software Inc.
15019756			PROVIDING A SINGLE INTERFACE FOR ACCESSING RESOURCES THAT ARE DISTRIBUTED AMONG MULTIPLE PLATFORMS	Dell Software Inc.
15040793			NETWORK CHANGE AUDITING SYSTEM	Dell Software Inc.
15045545			LEVERAGING CONTINUOUS REPLICATION TO COPY SNAPSHOT BACKUP IMAGE	Dell Software Inc.
15048563			SYSTEM AND METHOD FOR CONTROL OF PRINTED DOCUMENTS BASED ON CLASSIFICATION	Dell Software Inc.
15055210			SYSTEM AND METHOD FOR APPLYING DOCUMENT VERSIONING ACROSS AN ENTIRE ENTERPRISE	Dell Software Inc.
15055901			GENERATING SIMULATION	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
			DATA USING A LINEAR CURVE SIMPLIFICATION AND REVERSE SIMPLIFICATION METHOD	
15057747	20160182597	03/01/2016	METHOD AND APPARATUS FOR MULTIMEDIA CONTENT FILTERING	Dell Software Inc.
15061209			CONTAINER SECURITY ENHANCEMENTS USING SIGNATURES, ENCRYPTION AND ADDITIONAL ACCESS CONTROL/GOVERNANCE	Dell Software Inc.
15061241			DYNAMIC CONTAINER MANIFEST CREATION	Dell Software Inc.
15061260			CONTAINER EXECUTION PROTOCOL	Dell Software Inc.
15062905			MONITORING, ANALYZING, AND MAPPING OF COMPUTING RESOURCES	Dell Software Inc.
15067643			AUTO QUERY CONSTRUCTION FOR IN-DATABASE PREDICTIVE ANALYTICS	Dell Software Inc.
15072715			DETERMINING DATA THAT IS COLLECTED WHEN AN EMPLOYEE USES CORPORATE RESOURCES	Dell Software Inc.
15072987			OBTAINING EMPLOYEE PERMISSION TO COLLECT DATA ASSOCIATED WITH EMPLOYEE USE OF CORPORATE RESOURCES	Dell Software Inc.
15073154			PROVIDING AN EMPLOYEE A PERK TO COLLECT DATA OF EMPLOYEE USAGE OF CORPORATE RESOURCES	Dell Software Inc.
15074788	20160205050	01/26/2016	SIGNATURE GENERATION USING MESSAGE SUMMARIES	Dell Software Inc.
15077891	20160254975	03/22/2016	VIRTUAL PRIVATE NETWORK DEAD PEER DETECTION	Dell Software Inc.
15081014	20160212079	03/25/2016	MESSAGE CHALLENGE RESPONSE	Dell Software Inc.
15081104			SYSTEMS AND METHODS FOR DIAGNOSTIC ANALYSIS OF MEDIA-STREAM COMBINATIONS	Dell Software Inc.
15082485	20160212136	03/28/2016	REMOTE ACCESS TO	Aventail LLC

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Application Number	Publication Number	Filing Date	Title	Owner
			RESOURCES OVER A NETWORK	
15084677			METHOD AND SYSTEM FOR DYNAMIC DISCOVERY OF CONTAINER BASED MICRO SERVICES AND APPLICATIONS	Dell Software Inc.
15085180			NETWORK OPTIMIZATION AND CLIENT STEERING BASED ON WIRELESS DATA RATE CAPABILITIES OF MIXED CLIENT DEVICES	Dell Software Inc.
15094257			SYSTEMS AND METHODS FOR CLOUD-BASED DEVICE CONFIGURATION MANAGEMENT OF HETEROGENEOUS DEVICES	Dell Software Inc.
15132120			PRESERVING DATA PROTECTION AND ENABLING SECURE CONTENT AWARENESS IN QUERY SERVICES	Dell Software Inc.
15133824	20160234233	03/18/2016	TIME ZERO CLASSIFICATION OF MESSAGES	Dell Software Inc.
15136464			APPARATUS FOR EVENT CATEGORIZATION AND PUBLISHING	Dell Software Inc.
15136505			SYSTEMS AND METHODS FOR USING A STRUCTURED QUERY DIALECT TO ACCESS DOCUMENT DATABASES AND MERGING WITH OTHER SOURCES	Dell Software Inc.
15136586			PRIORITIZED MESSAGING SYSTEM	Dell Software Inc.
15138701			SYMBIOTIC DATA INSIGHTS FROM HARMONIZED QUERIES	Dell Software Inc.
15139672			METHOD FOR IN-DATABASE FEATURE SELECTION IN HIGH-DIMENSIONAL INPUTS	Dell Software Inc.
15142351			AUTOMATICALLY GENERATED EMPLOYEE PROFILES	Dell Software Inc.
15149750			SYSTEM AND METHOD FOR CORRELATING END-USER EXPERIENCE DATA AND BACK-END PERFORMANCE	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
			DATA	
15150592			DETERMINING A THREAT SEVERITY ASSOCIATED WITH AN EVENT	Dell Software Inc.
15154062			ELECTRONIC MAIL (EMAIL) MESSAGE LIFECYCLE MANAGEMENT	Dell Software Inc.
15155243			PERFORMANCE TRACKING OF AN APPLICATION DURING A SINGLE USER SESSION	Dell Software Inc.
15158826			DISPATCHER FOR ADAPTIVE DATA COLLECTION	Dell Software Inc.
15170758	20160277365	04/20/2016	MESSAGE DISTRIBUTION CONTROL	Dell Software Inc.
15173236	20160285805	06/01/2016	STATISTICAL MESSAGE CLASSIFIER	Dell Software Inc.
15210259		06/03/2016	REQUESTING WEB PAGES AND CONTENT RATING INFORMATION	Dell Software Inc.
62321655			SINGLE TIER ROUTING	Dell Software Inc.
62321658			GLOBAL TRAFFIC OPTIMIZER OPTIMAL PROVIDER SELECTION	Dell Software Inc.
62321661			REVERSE PROXY USING DNS NAMES DEMULTIPLEXES RESOURCE ACCESS	Dell Software Inc.
13343924	20130179500	1/5/2012	HOME HUB	Dell Software Inc.
13555534	20140025644	7/23/2012	GARBAGE COLLECTION AWARE DEDUPLICATION	Dell Software Inc.
13664658	20140122817	10/31/2012	SYSTEM AND METHOD FOR AN OPTIMIZED DISTRIBUTED STORAGE SYSTEM	Dell Software Inc.
13743191	20130198764	1/16/2013	DEPLOYMENT AND MANAGEMENT OF VIRTUAL CONTAINERS	Dell Software Inc.
13786759	20140258244	3/6/2013	STORAGE SYSTEM DEDUPLICATION WITH SERVICE LEVEL AGREEMENTS	Dell Software Inc.
13786781	20140258237	3/6/2013	HANDLING RESTORES IN AN INCREMENTAL BACKUP STORAGE SYSTEM	Dell Software Inc.
13937150	20130297572	7/8/2013	FILE AWARE BLOCK LEVEL DEDUPLICATION	Dell Software Inc.
13952062	20150032978	7/26/2013	TRANSFERRING DIFFERENCES BETWEEN CHUNKS DURING REPLICATION	Dell Software Inc.
14311485	20140310251	6/23/2014	INTELLIGENT DEDUPLICATION DATA PREFETCHING	Dell Software Inc.
14319136	20150281281	6/30/2014	IDENTIFICATION OF UNAUTHORIZED APPLICATION	Dell Software Inc.

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Application Number	Publication Number	Filing Date	Title	Owner
			DATA IN A CORPORATE NETWORK	
14327006	20160011891	7/9/2014	ENGINE FOR VIRTUAL MACHINE RESOURCES	Dell Software Inc.
14453121	20160044100	8/6/2014	ACCELERATING TRANSFER PROTOCOLS	Dell Software Inc.
14453150	20160044077	8/6/2014	POLICY USE IN A DATA MOVER EMPLOYING DIFFERENT CHANNEL PROTOCOLS	Dell Software Inc.
14453158	20160041777	8/6/2014	CLIENT-SIDE DEDUPLICATION WITH LOCAL CHUNK CACHING	Dell Software Inc.
14453165	20160041970	8/6/2014	CHUNK COMPRESSION IN A DEDUPLICATION AWARE CLIENT ENVIRONMENT	Dell Software Inc.
14453173	20160042008	8/6/2014	TECHNIQUE SELECTION IN A DEDUPLICATION AWARE CLIENT ENVIRONMENT	Dell Software Inc.
14518063	20150039571	10/20/2014	ACCELERATED DEDUPLICATION	Dell Software Inc.
14521035	20160118999	10/22/2014	FAST UPDATE OF DATA PACKET CHECKSUMS	Dell Software Inc.
14596186	20150127622	1/13/2015	METHODS AND APPARATUS FOR NETWORK EFFICIENT DEDUPLICATION	Dell Software Inc.
14806072	20150341296	7/22/2015	PROBABILITY BASED WHITELIST	Dell Software Inc.
14850096	20160259544	910/2015	SYSTEMS AND METHODS FOR VIRTUAL PERIPHERY INTERACTION	Dell Software Inc.
14884583			DYNAMIC ADJUSTMENT OF INSTRUMENTATION SCOPE	Dell Software Inc.
14996608	20160132524	1/15/2016	OBJECT DEDUPLICATION AND APPLICATION AWARE SNAPSHOTS	Dell Software Inc.
15017079	20160154816	2/5/2016	SCALABLE MECHANISM FOR DETECTION OF COMMONALITY IN A DEDUPLICATED DATA SET	Dell Software Inc.
15018809	20160154588	2/8/2016	FIXED SIZE EXTENTS FOR VARIABLE SIZE DEDUPLICATION SEGMENTS	Dell Software Inc.
15067976	20160196275	3/11/2016	HEAT INDICES FOR FILE SYSTEMS AND BLOCK STORAGE	Dell Software Inc.
15075526	20160203162	3/21/2016	VIRTUAL DISK UTILITY	Dell Software Inc.

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