

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6441580

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
SEQUENCE:	1

CONVEYING PARTY DATA

Name	Execution Date
CELLSEC, INC.	12/01/2020
PULSE SECURE, LLC	12/01/2020
IVANTI, INC.	12/01/2020
MOBILEIRON, INC.	12/01/2020
IVANTI US LLC	12/01/2020

RECEIVING PARTY DATA

Name:	MORGAN STANLEY SENIOR FUNDING, INC., AS COLLATERAL AGENT
Street Address:	1300 THAMES STREET, 4TH FLOOR
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21231

PROPERTY NUMBERS Total: 432

Property Type	Number
Patent Number:	8931042
Patent Number:	9171172
Patent Number:	9294508
Patent Number:	9659169
Patent Number:	10185963
Patent Number:	10305937
Patent Number:	10313394
Patent Number:	10511630
Patent Number:	10601875
Patent Number:	10706427
Patent Number:	9646309
Patent Number:	10291615
Patent Number:	10635638
Patent Number:	10764352
Patent Number:	7302687

PATENT

Property Type	Number
Patent Number:	8543696
Patent Number:	8868905
Patent Number:	8880906
Patent Number:	8892872
Patent Number:	8959657
Patent Number:	8984058
Patent Number:	9020808
Patent Number:	9035951
Patent Number:	9104860
Patent Number:	9141613
Patent Number:	9141636
Patent Number:	9167052
Patent Number:	9195643
Patent Number:	9202020
Patent Number:	9215251
Patent Number:	9253170
Patent Number:	9355261
Patent Number:	9367646
Patent Number:	9373003
Patent Number:	9460296
Patent Number:	9465856
Patent Number:	9471549
Patent Number:	9537974
Patent Number:	9542235
Patent Number:	9697218
Patent Number:	9900367
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Patent Number:	10089139
Patent Number:	6965674
Patent Number:	6990660
Patent Number:	7032110
Patent Number:	7133526
Patent Number:	7146531
Patent Number:	7165202
Patent Number:	7225430
Patent Number:	7278158
Patent Number:	7299246
Patent Number:	7356578

Property Type	Number
Patent Number:	7363022
Patent Number:	7376538
Patent Number:	7398389
Patent Number:	7487495
Patent Number:	7522906
Patent Number:	7529809
Patent Number:	7529820
Patent Number:	7555683
Patent Number:	7565544
Patent Number:	7606242
Patent Number:	7624423
Patent Number:	7640334
Patent Number:	7664034
Patent Number:	7672992
Patent Number:	7711952
Patent Number:	7714852
Patent Number:	7757228
Patent Number:	7770168
Patent Number:	7802065
Patent Number:	7818557
Patent Number:	7823147
Patent Number:	7827263
Patent Number:	7836337
Patent Number:	7849514
Patent Number:	7865889
Patent Number:	7870606
Patent Number:	7949641
Patent Number:	7965842
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Patent Number:	8135775
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Patent Number:	8234359
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Property Type	Number
Patent Number:	8295157
Patent Number:	8341622
Patent Number:	8341708
Patent Number:	8407687
Patent Number:	8412797
Patent Number:	8474011
Patent Number:	8478616
Patent Number:	8504579
Patent Number:	8521864
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Patent Number:	8533332
Patent Number:	8561131
Patent Number:	8584194
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Patent Number:	8793782
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Patent Number:	9083541
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Patent Number:	9137780
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Patent Number:	9246947
Patent Number:	9252958
Patent Number:	9374390
Patent Number:	9380300
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Patent Number:	9454647
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Patent Number:	9515877
Patent Number:	9537716
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Patent Number:	9609077
Patent Number:	9648083
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Patent Number:	9665601
Patent Number:	9690746
Patent Number:	9733917
Patent Number:	9800423
Patent Number:	9811353
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Property Type	Number
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Patent Number:	10235216
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Patent Number:	8626147
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Patent Number:	8813242
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Property Type	Number
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Patent Number:	9300476
Patent Number:	9306913
Patent Number:	9348678
Patent Number:	9349018
Patent Number:	9374654
Patent Number:	9386009
Patent Number:	9426120
Patent Number:	9430641
Patent Number:	9445271
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Property Type	Number
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Patent Number:	9923873
Patent Number:	9961554
Patent Number:	9992068
Patent Number:	10003600
Patent Number:	10021101
Patent Number:	10025836
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Patent Number:	10278069
Patent Number:	10284369
Patent Number:	10320801
Patent Number:	10374869
Patent Number:	10397239
Patent Number:	10404684
Patent Number:	10595205
Patent Number:	10673861
Patent Number:	10680905
Patent Number:	10716005
Patent Number:	10339339
Patent Number:	10523660
Patent Number:	10673838
Patent Number:	8060074
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Patent Number:	8359016
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Property Type	Number
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Patent Number:	7774455
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Patent Number:	8352998
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Patent Number:	9608962

Property Type	Number
Patent Number:	9661070
Patent Number:	9723019
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Patent Number:	9923871
Patent Number:	9992263
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Application Number:	15222739
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Application Number:	16229623
Application Number:	15937617
Application Number:	16246239
Application Number:	16688668
Application Number:	16721800
Application Number:	15868644
Application Number:	16795359
Application Number:	16382068
Application Number:	16668785
Application Number:	16718909
Application Number:	16808967
Application Number:	16988022

CORRESPONDENCE DATA**Fax Number:** (202)835-7586***Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*****Phone:** 2028357500**Email:** dcip@milbank.com**Correspondent Name:** JAVIER J. RAMOS**Address Line 1:** 1850 K STREET, NW, SUITE 1100**Address Line 2:** MILBANK, LLP**Address Line 4:** WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	27280.00082
NAME OF SUBMITTER:	JAVIER J. RAMOS
SIGNATURE:	/Javier J. Ramos/
DATE SIGNED:	12/09/2020

Total Attachments: 35

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FIRST LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

This **FIRST LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT** (as amended, amended and restated, supplemented or otherwise modified from time to time, the “IP Security Agreement”) dated December 1, 2020, is among the Persons listed on the signature pages hereof (collectively, the “Grantors”) and Morgan Stanley Senior Funding, Inc., as collateral agent (the “Collateral Agent”) for the Secured Parties (as defined in the Credit Agreement referred to below).

WHEREAS, Ivanti Software, Inc., a Delaware corporation (the “Borrower”) and Ivanti Intermediate Holdings, LLC, a Delaware limited liability company (“Holdings”) have entered into the Credit Agreement dated as of the date hereof (as amended, restated, amended and restated, supplemented, replaced, refinanced or otherwise modified from time to time, the “Credit Agreement”), with the lenders and financial institutions from time to time party thereto and Morgan Stanley Senior Funding, Inc., as Administrative Agent, Collateral Agent and an L/C Issuer. Capitalized terms defined in the Credit Agreement or in the Security Agreement (as defined below) and not otherwise defined herein are used herein as defined in the Credit Agreement or the Security Agreement, as the case may be (and in the event of a conflict, the applicable definition shall be the one given to such term in the Security Agreement).

WHEREAS, as a condition precedent to the making of the Loans by the Lenders from time to time and the issuance of Letters of Credit by the L/C Issuers from time to time, the entry into Secured Hedge Agreements by the Hedge Banks from time to time and the entry into Secured Cash Management Agreements by the Cash Management Banks from time to time, each Grantor has executed and delivered that certain First Lien Security Agreement, dated as of the date hereof (as amended, amended and restated, supplemented or otherwise modified from time to time, the “Security Agreement”), among the Grantors from time to time party thereto and the Collateral Agent.

WHEREAS, under the terms of the Security Agreement, the Grantors have granted to the Collateral Agent, for the benefit of the Secured Parties, a security interest in, among other property, certain intellectual property of the Grantors, and have agreed thereunder to execute this IP Security Agreement for recording with the USPTO and/or the USCO, as applicable.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor agrees as follows:

A. Grant of Security. Each Grantor hereby collaterally assigns and pledges to the Collateral Agent (and its successors and permitted assigns), for the benefit of the Secured Parties, and each Grantor hereby grants to the Collateral Agent (and its successors and permitted assigns), for the benefit of the Secured Parties, a security interest in and to all of such Grantor’s right, title and interest in and to the following, whether now owned or hereafter acquired by the undersigned (the “Collateral”):

a. all patents and patent applications, including, without limitation, those set forth in Schedule A hereto (the “Patents”);

b. all trademark and service mark registrations and applications, including, without limitation, those set forth in Schedule B hereto (provided that no security interest shall be granted in United States intent-to-use trademark applications to the extent that, and so long as, the creation of a security interest therein or the assignment thereof would result in the loss of any material rights therein), together with the goodwill symbolized thereby (the “Trademarks”);

c. all copyrights, whether registered or unregistered, including, without limitation, the copyright registrations and applications and exclusive copyright licenses set forth in Schedule C hereto (the “Copyrights”);

d. all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of such Grantor accruing thereunder or pertaining thereto;

e. any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages; and

f. any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and supporting obligations relating to, any and all of the Collateral of or arising from any of the foregoing; provided that notwithstanding anything to the contrary contained in the foregoing clauses (a) through (f), the security interest created hereby shall not extend to, and the term “Collateral” shall not include, any Excluded Property.

B. Security for Obligations. The grant of a security interest in, the Collateral by each Grantor under this IP Security Agreement secures the payment of all Secured Obligations of such Grantor now or hereafter existing under or in respect of the Secured Documents (as such Secured Documents may be amended, restated, amended and restated, supplemented, replaced, refinanced or otherwise modified from time to time (including any increases of the principal amount outstanding thereunder)). Without limiting the generality of the foregoing, this IP Security Agreement secures, as to each Grantor, the payment of all amounts that constitute part of the Secured Obligations that would be owed by such Grantor to any Secured Party under the Secured Documents but for the fact that they are unenforceable or not allowable due to the existence of a bankruptcy, or reorganization or similar proceeding involving a Loan Party.

C. Recordation. Each Grantor authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks record this IP Security Agreement.

D. Execution in Counterparts. This IP Security Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement.

E. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Security Agreement. Each Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and

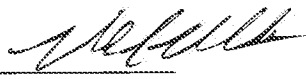
remedies of, the Collateral Agent with respect to the Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this IP Security Agreement and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

F. Governing Law; Jurisdiction; Etc. SECTION 10.15 (*GOVERNING LAW; JURISDICTION*), SECTION 10.16 (*SERVICE OF PROCESS*) AND SECTION 10.17 (*WAIVER OF RIGHT TO TRIAL BY JURY*) OF THE CREDIT AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE, *MUTATIS MUTANDIS*.

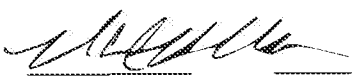
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IN WITNESS WHEREOF, each Grantor and the Collateral Agent have caused this IP Security Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first written above.

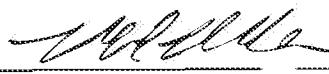
CELLSEC, INC.

By: 
Name: Michael McClellan
Title: Treasurer

PULSE SECURE, LLC

By: 
Name: Michael McClellan
Title: Treasurer

IVANTI, INC.

By: 
Name: Michael McClellan
Title: Chief Financial Officer

MOBILEIRON, INC.

By: 
Name: Michael McClellan
Title: **Treasurer**

IVANTI US LLC

By: 
Name: Michael McClellan
Title: Chief Financial Officer

MORGAN STANLEY SENIOR FUNDING, INC. as
Collateral Agent

By: 

Name: Brian Sanderson

Title: Authorized Signatory

SCHEDULE A

Patents

Registered Patents:

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	DIVIDING A DATA PROCESSING DEVICE INTO SEPARATE SECURITY DOMAINS	13316426	12/9/2011	8931042	1/6/2015	Granted	Cellsec, Inc.
US	AUTOMATED MULTI-LEVEL FEDERATION AND ENFORCEMENT OF INFORMATION MANAGEMENT POLICIES IN A DEVICE NETWORK	13957893	8/2/2013	9171172	10/27/2015	Granted	Cellsec, Inc.
US	AUTOMATED MULTI-LEVEL FEDERATION AND ENFORCEMENT OF INFORMATION MANAGEMENT POLICIES IN A DEVICE NETWORK	14068825	10/31/2013	9294508	3/22/2016	Granted	Cellsec, Inc.
US	DIVIDING A DATA PROCESSING DEVICE INTO SEPARATE SECURITY DOMAINS	14566045	12/10/2014	9659169	5/23/2017	Granted	Cellsec, Inc.
US	METHOD FOR AUTHENTICATION AND ASSURING COMPLIANCE OF DEVICES ACCESSING EXTERNAL SERVICES	15494620	4/24/2017	10185963	1/22/2019	Granted	Cellsec, Inc.
US	DIVIDING A DATA PROCESSING DEVICE INTO SEPARATE SECURITY DOMAINS	15989513	5/25/2018	10305937	5/28/2019	Granted	Cellsec, Inc.
US	AUTOMATED MULTI-LEVEL FEDERATION AND ENFORCEMENT OF INFORMATION MANAGEMENT POLICIES IN A DEVICE NETWORK	15072684	3/17/2016	10313394	6/4/2019	Granted	Cellsec, Inc.
US	DIVIDING A DATA PROCESSING DEVICE INTO SEPARATE SECURITY DOMAINS	13710261	12/10/2012	10511630	12/17/2019	Granted	Cellsec, Inc.
US	AUTOMATED MULTI-LEVEL FEDERATION AND ENFORCEMENT OF INFORMATION MANAGEMENT POLICIES IN A DEVICE NETWORK	16256656	1/24/2019	10601875	3/24/2020	Granted	Cellsec, Inc.

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US	AUTHENTICATING AND ENFORCING COMPLIANCE OF DEVICES USING EXTERNAL SERVICES	16240012	1/4/2019	10706427	7/7/2020	Granted	Cellsec, Inc.
US	Method for authentication and assuring compliance of devices accessing external services.	14679294	2015-04-06	9646309	2017-05-09	Granted	CellSec, Inc.
US	Web event framework	13892678	3/13/2013	10291615	5/14/2019	Granted	Ivanti US LLC
US	Systems, methods and media for deferred synchronization of files in cloud storage client device	13801158	3/13/2013	10635638	4/28/2020	Granted	Ivanti US LLC
US	Context aware browser policy	15910456	3/2/2018	10764352	9/1/2020	Granted	Ivanti US LLC
US	Computer apparatus, terminal server apparatus and performance management methods therefor	10309042	2002-12-04	7302687	2007-11-27	Granted	Ivanti US LLC
US	Network access	13633349	2012-10-02	8543696	2013-09-24	Granted	Ivanti US LLC
US	Adaptive document redaction	13568528	2012-08-07	8868905	2014-10-21	Granted	Ivanti US LLC
US	Storing encrypted contents in digital archives	13830782	2013-03-14	8880906	2014-11-04	Granted	Ivanti US LLC
US	Secure redacted document access	13568520	2012-08-07	8892872	2014-11-18	Granted	Ivanti US LLC
US	Secure data management	13829511	2013-03-14	8959657	2015-02-17	Granted	Ivanti US LLC
US	Pre-fetching remote resources	13838709	2013-03-15	8984058	2015-03-17	Granted	Ivanti US LLC
US	Document summarization using noun and sentence ranking	13763864	2013-02-11	9020808	2015-04-28	Granted	Ivanti US LLC
US	Systems and methods for drawing shapes with minimal user interaction	13922586	2013-06-20	9035951	2015-05-19	Granted	Ivanti US LLC
US	Systems, methods and media for managing process image hijacks	13787103	2013-03-06	9104860	2015-08-11	Granted	Ivanti US LLC
US	Systems and methods for determining an address for a private function	13663958	2012-10-30	9141613	2015-09-22	Granted	Ivanti US LLC
US	Homing data	13830186	2013-03-14	9141636	2015-09-22	Granted	Ivanti US LLC
US	Apparatus, systems, and methods for providing policy in network-based applications	13969208	2013-08-16	9167052	2015-10-20	Granted	Ivanti US LLC
US	Data driven hierarchical pages	13904443	2013-05-29	9195643	2015-11-24	Granted	Ivanti US LLC
US	File protection using session-based digital rights management	13590554	2012-08-21	9202020	2015-12-01	Granted	Ivanti US LLC
US	Apparatus, systems, and methods for managing data security	14023969	2013-09-11	9215251	2015-12-15	Granted	Ivanti US LLC
US	Method and apparatus for securing mobile applications	14480662	2014-09-09	9253170	2016-02-02	Granted	Ivanti US LLC
US	Secure data management	13829018	2013-03-14	9355261	2016-05-31	Granted	Ivanti US LLC
US	Document and user metadata storage	13827504	2013-03-14	9367646	2016-06-14	Granted	Ivanti US LLC
US	Systems and methods for automatically handling multiple levels of encryption and decryption	14317176	2014-06-27	9373003	2016-06-21	Granted	Ivanti US LLC

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US	Systems, methods and media for selective decryption of files containing sensitive data	13946770	2013-07-19	9460296	2016-10-04	Granted	Ivanti US LLC
US	Cloud-based document suggestion service	13829943	2013-03-14	9465856	2016-10-11	Granted	Ivanti US LLC
US	Systems and methods for user modifiable truncation	13683557	2012-11-21	9471549	2016-10-18	Granted	Ivanti US LLC
US	Systems, methods and media for collaborative caching of files in cloud storage	13935031	2013-07-03	9537974	2017-01-03	Granted	Ivanti US LLC
US	Process-safe read/write locks	12967430	2010-12-14	9542235	2017-01-10	Granted	Ivanti US LLC
US	Systems and methods for providing metadata enhanced filenames	13552988	2012-07-19	9697218	2017-07-04	Granted	Ivanti US LLC
US	Context transfer from web page to application	14132307	2013-12-18	9900367	2018-02-20	Granted	Ivanti US LLC
US	Context aware browser policy	14243040	2014-04-02	9912720	2018-03-06	Granted	Ivanti US LLC
US	Systems, methods and media for managing embedded content	13737407	2013-01-09	10089139	2018-10-02	Granted	Ivanti US LLC
US	SYSTEM AND METHOD FOR PROVIDING WLAN SECURITY THROUGH SYNCHRONIZED UPDATE AND ROTATION OF WEP KEYS	10300324	11/20/2002	6965674	11/15/2005	Granted	Ivanti, Inc.
US	NON-INVASIVE AUTOMATIC OFFSITE PATCH FINGERPRINTING AND UPDATING SYSTEM AND METHOD	09957673	9/20/2001	6990660	1/24/2006	Granted	Ivanti, Inc.
US	PKI-BASED CLIENT/SERVER AUTHENTICATION	09608986	6/30/2000	7032110	4/18/2006	Granted	Ivanti, Inc.
US	SYSTEM AND METHOD FOR PROVIDING WLAN SECURITY THROUGH SYNCHRONIZED UPDATE AND ROTATION OF WEP KEYS	11280507	11/15/2005	7133526	11/7/2006	Granted	Ivanti, Inc.
US	REPAIRING APPLICATIONS	09753082	12/28/2000	7146531	12/5/2006	Granted	Ivanti, Inc.
US	METHOD AND APPARATUS TO PERFORM CUSTOMIZED ERROR HANDLING	09815441	3/22/2001	7165202	1/16/2007	Granted	Ivanti, Inc.
US	SOFTWARE CODE MANAGEMENT METHOD AND APPARATUS	09915862	7/26/2001	7225430	5/29/2007	Granted	Ivanti, Inc.
US	METHOD AND SYSTEM FOR SHADOWING ACCESSES TO REMOVABLE MEDIUM STORAGE DEVICES	09884921	6/21/2001	7278158	10/2/2007	Granted	Ivanti, Inc.
US	CLIENT INITIATED MULTICAST DOMAIN DISCOVERY	10759711	1/16/2004	7299246	11/20/2007	Granted	Ivanti, Inc.

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US	A SYSTEM FOR CONSTRUCTING A NETWORK SPANNING TREE USING COMMUNICATION METRICS DISCOVERED BY MULTICAST ALIAS DOMAINS	10446308	5/28/2003	7356578	4/8/2008	Granted	Ivanti, Inc.
US	MOBILE UNIT CONFIGURATION MANAGEMENT FOR WLANS	10252849	9/23/2002	7363022	4/22/2008	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR AUDITING THE ACTIONS PERFORMED BY A REMOTE CONTROL OPERATOR DURING A REMOTE CONTROL SESSION	11132880	5/19/2005	7376538	5/20/2008	Granted	Ivanti, Inc.
US	KERNEL-BASED NETWORK SECURITY INFRASTRUCTURE	10294268	11/14/2002	7398389	7/8/2008	Granted	Ivanti, Inc.
US	GENERIC FRAMEWORK FOR RUNTIME INTERCEPTION AND EXECUTION CONTROL OF INTERPRETED LANGUAGES	11107907	4/18/2005	7487495	2/3/2009	Granted	Ivanti, Inc.
US	MOBILE UNIT CONFIGURATION MANAGEMENT FOR WLANS	10215701	8/9/2002	7522906	4/21/2009	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR EFFICIENTLY USING NETWORK BANDWIDTH TO DOWNLOAD RESOURCES	11294248	12/5/2005	7529809	5/5/2009	Granted	Ivanti, Inc.
US	METHOD AND APPARATUS TO PERFORM AUTOMATED TASK HANDLING	09892296	6/26/2001	7529820	5/5/2009	Granted	Ivanti, Inc.
US	INVENTORY DETERMINATION FOR FACILITATING COMMERCIAL TRANSACTIONS DURING DIAGNOSTIC TESTS	10198031	7/17/2002	7555683	6/30/2009	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR VERIFYING THE TRUSTWORTHINESS OF A FILE COMPRISING COMPUTER INSTRUCTIONS	11098719	4/4/2005	7565544	7/21/2009	Granted	Ivanti, Inc.
US	MANAGED ROAMING FOR WLANS	10211841	8/2/2002	7606242	10/20/2009	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR SOFTWARE DISTRIBUTION USING DISTRIBUTION POLICIES	11039044	1/20/2005	7624423	11/24/2009	Granted	Ivanti, Inc.
US	Network resource location detection probe apparatus and method.	09764543	01/18/2001	7640334	12/29/2009	Granted	Ivanti, Inc.

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US	SYSTEMS AND METHODS FOR COLLECTIVE BANDWIDTH THROTTLING	11257257	10/24/2005	7664034	2/16/2010	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR MONITORING A MODEM IN A NETWORKED ENVIRONMENT	10460079	6/12/2003	7672992	3/2/2010	Granted	Ivanti, Inc.
US	METHOD AND SYSTEM FOR LICENSE MANAGEMENT	11225254	9/13/2005	7711952	5/4/2010	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR BLANKING A DISPLAY SCREEN ON A DISPLAY DEVICE OF A COMPUTER SYSTEM	11271638	11/10/2005	7714852	5/11/2010	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR WRITING AN IMAGE TO A COMPUTER SYSTEM	10787366	2/26/2004	7757228	7/13/2010	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR DISTRIBUTING SOFTWARE USING NODES WITHIN A NETWORK GROUP	11137312	5/25/2005	7770168	8/3/2010	Granted	Ivanti, Inc.
US	PEER TO PEER BASED CACHE MANAGEMENT	10837729	5/3/2004	7802065	9/21/2010	Granted	Ivanti, Inc.
US	METHOD FOR RE-IMAGING A COMPUTER SYSTEM	11439711	5/24/2006	7818557	10/19/2010		Ivanti, Inc.
US	NON-INVASIVE AUTOMATIC OFFSITE PATCH FINGERPRINTING AND UPDATING SYSTEM AND METHOD	11160439	6/23/2005	7823147	10/26/2010		Ivanti, Inc.
US	SYSTEMS AND METHODS FOR MANAGING A COMPUTER OVER A NETWORK	11468584	8/30/2006	7827263	11/2/2010	Granted	Ivanti, Inc.
US	METHOD AND SYSTEM FOR RESTORATION OF A MOBILE DEVICE TO ITS STATE PRIOR TO LOSS OF STANDARD MEMORY	10888289	7/9/2004	7836337	11/16/2010		Ivanti, Inc.
US	TRANSPARENT ENCRYPTION AND ACCESS CONTROL FOR MASS-STORAGE DEVICES	11111930	4/22/2005	7849514	12/7/2010		Ivanti, Inc.
US	SYSTEMS AND METHODS FOR VERIFYING THE COMPATIBILITY OF SOFTWARE WITH A GROUP OF MANAGED NODES	11532033	9/14/2006	7865889	1/4/2011	Granted	Ivanti, Inc.

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US	METHOD AND SYSTEM FOR SHADOWING ACCESSES TO REMOVABLE MEDIUM STORAGE DEVICES	11840516	8/17/2007	7870606	1/11/2011		Ivanti, Inc.
US	SYSTEMS AND METHODS FOR VALIDATING A PORTION OF A FILE THAT IS DOWNLOADED FROM ANOTHER COMPUTER SYSTEM	11354547	2/15/2006	7949641	5/24/2011	Granted	Ivanti, Inc.
US	SYSTEM AND METHOD FOR DETECTING UNAUTHORIZED WIRELESS ACCESS POINTS	10184750	6/28/2002	7965842	6/21/2011	Granted	Ivanti, Inc.
US	GENERIC FRAMEWORK FOR RUNTIME INTERCEPTION AND EXECUTION CONTROL OF INTERPRETED LANGUAGES	12359849	1/26/2009	8001536	8/16/2011		Ivanti, Inc.
US	ON-LINE CENTRALIZED AND LOCAL AUTHORIZATION OF EXECUTABLE FILES	11107900	4/18/2005	8060924	11/15/2011		Ivanti, Inc.
US	SYSTEMS AND METHODS FOR QUARANTINING A NODE FROM OTHER NODES IN A NETWORK	11828846	7/26/2007	8095961	1/10/2012	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR STAGED DEPLOYMENT OF SOFTWARE	12129571	5/29/2008	8135775	3/13/2012	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR UPDATING DISTRIBUTED NETWORK INVENTORY SERVICES	11289130	11/29/2005	8150961	4/3/2012	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR MANAGING REQUESTS FOR CONNECTIONS TO SERVICES ON A COMPUTER SYSTEM	11553921	10/27/2006	8166177	4/24/2012	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR SELECTIVELY REQUESTING CERTIFICATES DURING INITIATION OF SECURE COMMUNICATION SESSIONS	11070475	3/2/2005	8185945	5/22/2012	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR PROTECTING SENSITIVE FILES FROM UNAUTHORIZED ACCESS	10813248	3/30/2004	8225091	7/17/2012	Granted	Ivanti, Inc.
US	SYSTEM AND METHOD FOR REMOTELY RE-IMAGING A COMPUTER SYSTEM	11439712	5/24/2006	8234359	7/31/2012		Ivanti, Inc.

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US	SYSTEMS AND METHODS FOR ESTABLISHING A TRUSTED DYNAMIC HOST CONFIGURATION PROTOCOL CONNECTION	11614873	12/21/2006	8275895	9/25/2012	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR USING OUT-OF-BAND PROTOCOLS FOR REMOTE MANAGEMENT WHILE IN-BAND COMMUNICATION IS NOT AVAILABLE	11401156	4/10/2006	8295157	10/23/2012	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR EFFICIENTLY USING NETWORK BANDWIDTH TO DEPLOY DEPENDENCIES OF A SOFTWARE PACKAGE	11304035	12/15/2005	8341622	12/25/2012	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR AUTHENTICATING CREDENTIALS FOR MANAGEMENT OF A CLIENT	11468255	8/29/2006	8341708	12/25/2012	Granted	Ivanti, Inc.
US	NON-INVASIVE AUTOMATIC OFFSITE PATCH FINGERPRINTING AND UPDATING SYSTEM AND METHOD	12900767	10/8/2010	8407687	3/26/2013		Ivanti, Inc.
US	PLATFORM FOR DEVELOPMENT AND DEPLOYMENT OF SYSTEM ADMINISTRATION SOLUTIONS	12870322	8/27/2010	8412797	4/2/2013		Ivanti, Inc.
US	ON-LINE CENTRALIZED AND LOCAL AUTHORIZATION OF EXECUTABLE FILES	13287475	11/2/2011	8474011	6/25/2013		Ivanti, Inc.
US	BUSINESS APPLICATION DEVELOPMENT AND EXECUTION ENVIRONMENT	11262490	10/29/2005	8478616	7/2/2013		Ivanti, Inc.
US	FILTERING A DATA SET USING TREES ON A COMPUTING DEVICE	12982532	12/30/2010	8504579	8/6/2013	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR MANAGING THE IMPACT OF MONITORING PROCESSES	11328731	1/10/2006	8521864	8/27/2013	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR DISTRIBUTED NODE DETECTION AND MANAGEMENT	11257246	10/24/2005	8533309	9/10/2013	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR OBTAINING EXCLUSIVE ACCESS TO A COMPUTING RESOURCE	11764467	6/18/2007	8533332	9/10/2013	Granted	Ivanti, Inc.

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US	ALLOCATING PRODUCTS TO LICENSES ON A COMPUTING DEVICE	13173947	6/30/2011	8561131	10/15/2013	Granted	Ivanti, Inc.
US	NETWORK ACCESS CONTROL USING A QUARANTINED SERVER	11214467	8/29/2005	8584194	11/12/2013	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS PROVIDING FOR CONFIGURATION FILE DOWNLOADS	12341756	12/22/2008	8601542	12/3/2013	Granted	Ivanti, Inc.
US	RESPONSIVENESS OF A COMPUTING DEVICE IN CONNECTION WITH SOFTWARE DISTRIBUTION	13354205	1/19/2012	8621451	12/31/2013	Granted	Ivanti, Inc.
US	Scripting support for data identifiers, voice recognition and speech in a telnet session	11893676	8/16/2007	8635069	1/21/2014	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR INCREASING THE SCALABILITY IN A CLIENT/SERVER ENVIRONMENT	11673447	2/9/2007	8706849	4/22/2014	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR IMPLEMENTING APPLICATION CONTROL SECURITY	13269040	10/7/2011	8707444	4/22/2014		Ivanti, Inc.
US	Systems and methods for distributing a computer software package using a pre-requisite query	11298809	12/9/2005	8719815	5/6/2014	Granted	Ivanti, Inc.
US	COMPUTING DEVICE CONFIGURED FOR INSTALLING AN APPLICATION	13283298	10/27/2011	8732690	5/20/2014	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR OPERATING A SATURATED HASH TABLE	13230575	9/12/2011	8745064	6/3/2014		Ivanti, Inc.
US	SYSTEMS AND METHODS FOR DETECTION OF UNAUTHORIZED OR UNSECURED ACCESS POINTS	12361354	1/28/2009	8782740	7/15/2014	Granted	Ivanti, Inc.
US	SYSTEM AND METHOD FOR DETECTING UNAUTHORIZED WIRELESS ACCESS POINTS	13164459	6/20/2011	8787576	7/22/2014	Granted	Ivanti, Inc.
US	ASSIGNING A RANDOM STATIC IP ADDRESS IN A QUARANTINE NETWORK	12789293	5/27/2010	8788707	7/22/2014	Granted	Ivanti, Inc.
US	ENFORCING A HEALTH POLICY IN A LOCAL AREA NETWORK	12789283	5/27/2010	8793782	7/29/2014	Granted	Ivanti, Inc.

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US	SYSTEMS AND METHODS FOR FACILITATING THE REUSE OF A CHILD WORKFLOW PROCESS BY MULTIPLE PARENT WORKFLOW PROCESSES	11763904	6/15/2007	8799174	8/5/2014	Granted	Ivanti, Inc.
US	ENFORCING AND COMPLYING WITH A COMPUTING DEVICE POWER POLICY	13101936	5/5/2011	8806246	8/12/2014	Granted	Ivanti, Inc.
US	DETERMINING A GROUP OF RELATED PRODUCTS ON A COMPUTING DEVICE	13173843	6/30/2011	8825651	9/2/2014	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR DETECTING UNMANAGED NODES WITHIN A SYSTEM	11771735	6/29/2007	8838759	9/16/2014	Granted	Ivanti, Inc.
US	CONTROLLING PROCESSOR USAGE ON A COMPUTING DEVICE	12748873	3/29/2010	8869154	10/21/2014	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR MONITORING NETWORK PORTS TO REDIRECT COMPUTING DEVICES TO A PROTECTED NETWORK	11622398	1/11/2007	8898276	11/25/2014	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR DETERMINING WHEN RESULTS FROM A CRITERIA SCAN ARE DELETED FROM A COMPUTING DEVICE	11619534	1/3/2007	8902449	12/2/2014	Granted	Ivanti, Inc.
US	SCRIPTING SUPPORT FOR DATA IDENTIFIERS, VOICE RECOGNITION AND SPEECH IN A TELNET SESSION	13467673	5/9/2012	8930177	1/6/2015	Granted	Ivanti, Inc.
US	SCRIPTING SUPPORT FOR DATA IDENTIFIERS, VOICE RECOGNITION AND VOICE INPUT IN A TELNET SESSION	13467461	5/9/2012	8930193	1/6/2015	Granted	Ivanti, Inc.
US	POLICY-BASED WHITELISTING WITH SYSTEM CHANGE MANAGEMENT BASED ON TRUST FRAMEWORK	12695816	1/28/2010	8950007	2/3/2015	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR COMPUTER DATA RECOVERY AND DESTRUCTION	12103437	4/15/2008	8959182	2/17/2015	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR AUTOMATICALLY RESETTING A PASSWORD	12761114	4/15/2010	8973113	3/3/2015	Granted	Ivanti, Inc.
US	MAPPING GRAPH DATA TO A TREE STRUCTURE ON A COMPUTING DEVICE	12982517	12/30/2010	8982129	3/17/2015	Granted	Ivanti, Inc.

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US	TEMPORALLY CONTROLLING ACCESS TO SOFTWARE ASSETS ON USER DEVICES	13662327	10/26/2012	9009857	4/14/2015	Granted	Ivanti, Inc.
US	DEPLOYING DRIVERS FOR AN OPERATING SYSTEM ON A COMPUTING DEVICE	12970448	12/16/2010	9032394	5/12/2015	Granted	Ivanti, Inc.
US	SYSTEM AND METHOD FOR REMOTELY RE-IMAGING A COMPUTER SYSTEM	13536451	6/28/2012	9081639	7/14/2015	Granted	Ivanti, Inc.
US	RETRANSMITTING LOST PACKETS FOR MULTICAST DATA DISTRIBUTION	12979725	12/28/2010	9083541	7/14/2015	Granted	Ivanti, Inc.
US	PLATFORM FOR DEVELOPMENT AND DEPLOYMENT OF SYSTEM ADMINISTRATION SOLUTIONS	13854286	4/1/2013	9092201	7/28/2015	Granted	Ivanti, Inc.
US	DYNAMIC MESH NETWORKS	13127350	8/23/2011	9107194	8/11/2015	Granted	Ivanti, Inc.
US	SYNCHRONIZING MULTICAST DATA DISTRIBUTION ON A COMPUTING DEVICE	12979987	12/28/2010	9137780	9/15/2015	Granted	Ivanti, Inc.
US	ACTIVELY PROVISIONING A MANAGED NODE	13302171	11/22/2011	9172583	10/27/2015	Granted	Ivanti, Inc.
US	DETERMINING WHEN TO PERFORM A MAINTENANCE OPERATION ON A COMPUTING DEVICE BASED ON STATUS OF A CURRENTLY RUNNING PROCESS OR APPLICATION ON THE COMPUTING DEVICE	12827051	6/30/2010	9229773	1/5/2016	Granted	Ivanti, Inc.
US	DYNAMIC FILTERS FOR POSTED EVENT MESSAGES INITIATED AUTOMATICALLY BY EQUIPMENT	13974748	8/23/2013	9246756	1/26/2016	Granted	Ivanti, Inc.
US	METHOD AND APPARATUS FOR PROTECTING ACCESS TO CORPORATE APPLICATIONS FROM A MOBILE DEVICE	14243119	4/2/2014	9246947	1/26/2016	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR PROVIDING A SELF-MAINTAINING PKI INFRASTRUCTURE AMONG LOOSELY CONNECTED ENTITIES	14206860	3/12/2014	9252958	2/2/2016	Granted	Ivanti, Inc.
US	POLICY-BASED WHITELISTING WITH SYSTEM CHANGE MANAGEMENT BASED ON TRUST FRAMEWORK	14603652	1/23/2015	9374390	6/21/2016	Granted	Ivanti, Inc.

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US	ENCODING LOCATION INFORMATION IN ALPHA CHANNELS FOR HTML REMOTE CONTROL	14068830	10/31/2013	9380300	6/28/2016	Granted	Ivanti, Inc.
US	SELF-CONTAINED EXECUTABLE FOR PREDETERMINED SOFTWARE UPDATING	14274727	5/11/2014	9430216	8/30/2016	Granted	Ivanti, Inc.
US	MANAGING ASSETS ON A COMPUTING DEVICE	12787641	5/26/2010	9454647	9/27/2016	Granted	Ivanti, Inc.
US	OBTAINING AND RUNNING A LOCAL QUERY ON A COMPUTING DEVICE	13484077	5/30/2012	9489652	11/8/2016	Granted	Ivanti, Inc.
US	DEVICE FOR DISPLAYING A REMOTE DISPLAY ACCORDING TO A MONITOR GEOMETRY	13526193	6/18/2012	9495124	11/15/2016	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR ENROLLING AND CONFIGURING AGENTS	14445353	7/29/2014	9515877	12/6/2016	Granted	Ivanti, Inc.
US	ESTABLISHING A DIRECT CONNECTION BETWEEN REMOTE DEVICES	13525790	6/18/2012	9537716	1/3/2017	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR SECURING DATA	12327668	12/3/2008	9552491	1/24/2017	Granted	Ivanti, Inc.
US	FORWARDING CONTENT ON A CLIENT BASED ON A REQUEST	13484094	5/30/2012	9609077	3/28/2017	Granted	Ivanti, Inc.
US	SCRIPTING SUPPORT FOR DATA IDENTIFIERS, VOICE RECOGNITION AND SPEECH IN A TELNET SESSION	14190959	2/26/2014	9648083	5/9/2017	Granted	Ivanti, Inc.
US	Method and Apparatus for Accessing Corporate Data from a Mobile Device	13590339	8/21/2012	9659165	5/23/2017	Granted	Ivanti, Inc.
US	USING A MEMBER ATTRIBUTE TO PERFORM A DATABASE OPERATION ON A COMPUTING DEVICE	12969912	12/16/2010	9665601	5/30/2017	Granted	Ivanti, Inc.
US	COMPUTING DEVICES FOR SENDING AND RECEIVING CONFIGURATION INFORMATION	13790353	3/8/2013	9690746	6/27/2017	Granted	Ivanti, Inc.
US	PREDICTING WHETHER A PARTY WILL PURCHASE A PRODUCT	13771753	2/20/2013	9733917	8/15/2017	Granted	Ivanti, Inc.
US	DETERMINING THE STATUS OF A NODE BASED ON A DISTRIBUTED SYSTEM	13471253	5/14/2012	9800423	10/24/2017	Granted	Ivanti, Inc.
US	REMOTELY INVOKING DYNAMIC CLASSES ON A COMPUTING DEVICE	12980861	12/29/2010	9811353	11/7/2017	Granted	Ivanti, Inc.

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	IDENTIFYING A REMOTE IDENTITY REQUEST VIA A BIOMETRIC DEVICE	13303894	11/23/2011	9846769	12/19/2017	Granted	Ivanti, Inc.
US	PROVIDING AN INFORMATION TECHNOLOGY MANAGEMENT PRESCRIPTION	13592975	8/23/2012	9858164	1/2/2018	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR NETWORK MANAGEMENT	14503664	10/1/2014	9900211	2/20/2018	Granted	Ivanti, Inc.
US	TERMINAL EMULATION OVER HTML	14464369	8/20/2014	10033797	7/24/2018	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR MULTICAST MESSAGE ROUTING	14061015	10/23/2013	10038566	7/31/2018	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR DISCOVERING AND DOWNLOADING CONFIGURATION FILES FROM PEER NODES	14332733	7/16/2014	10075385	9/11/2018	Granted	Ivanti, Inc.
US	COMPUTING DEVICES FOR SENDING AND RECEIVING CONFIGURATION INFORMATION	15631538	6/23/2017	10103948	10/16/2018	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR PROVIDING A SELF-ELECTING SERVICE	15154733	5/13/2016	10116526	10/30/2018	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR CREDENTIALS DISTRIBUTION	15250496	8/29/2016	10142325	11/27/2018	Granted	Ivanti, Inc.
US	UPDATING A RUNNING APPLICATION ON A COMPUTING DEVICE	12967985	12/14/2010	10146520	12/4/2018	Granted	Ivanti, Inc.
US	SCRIPTING SUPPORT FOR DATA IDENTIFIERS, VOICE RECOGNITION AND SPEECH IN A TELNET SESSION	15470123	3/27/2017	10148734	12/4/2018	Granted	Ivanti, Inc.
US	DYNAMIC WEB SERVICES SERVER	15495130	4/24/2017	10164961	12/25/2018	Granted	Ivanti, Inc.
US	SYSTEM AND METHODS FOR NETWORK BOOTING	14992774	1/11/2016	10180845	1/15/2019	Granted	Ivanti, Inc.
US	MODIFYING SYSTEM-DEFINED USER INTERFACE CONTROL FUNCTIONALITY ON A COMPUTING DEVICE	12904882	10/14/2010	10235216	3/19/2019	Granted	Ivanti, Inc.
US	Predicting Whether a Party Will Purchase a Product	15671645	8/8/2017	10416978	9/17/2019	Granted	Ivanti, Inc.
US	SYSTEM AND METHODS FOR PATCH MANAGEMENT	14504169	10/1/2014	10489147	11/26/2019	Granted	Ivanti, Inc.

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US	REMOTELY INVOKING DYNAMIC CLASSES ON A COMPUTING DEVICE	15802909	11/3/2017	10628173	4/21/2020	Granted	Ivanti, Inc.
US	DYNAMIC WEB SERVICES SERVER	16227342	12/20/2018	10630671	4/21/2020	Granted	Ivanti, Inc.
US	FORWARDING CONTENT ON A CLIENT BASED ON A REQUEST	15470425	3/27/2017	10637950	4/28/2020	Granted	Ivanti, Inc.
US	INFORMATION SECURITY TECHNIQUES INCLUDING DETECTION, INTERDICTION AND/OR MITIGATION OF MEMORY INJECTION ATTACKS	15669391	8/4/2017	10642978	5/5/2020	Granted	Ivanti, Inc.
US	DETERMINING THE STATUS OF A NODE BASED ON A DISTRIBUTED SYSTEM	15790489	10/23/2017	10797896	10/6/2020	Granted	Ivanti, Inc.
US	SYSTEMS AND METHODS FOR CONTEXT-BASED MITIGATION OF COMPUTER SECURITY RISKS	15906559	2/27/2018	10805333	10/13/2020	Granted	Ivanti, Inc.
US	SYSTEM AND METHODS FOR SELF-ORGANIZING MULTICAST	14583531	12/26/2014	10834150	11/10/2020	Granted	Ivanti, Inc.
US	Configuration of third party applications in a sandboxed environment.	13861653	2013-04-12	9319270	2016-04-19	Granted	Ivanti, Inc.
US	Dynamic web services server.	14864747	2015-09-24	9635007	2017-04-25	Granted	Ivanti, Inc.
US	Information security techniques including detection, interdiction and/or mitigation of memory injection attacks.	13841245	2013-03-15	9734333	2017-08-15	Granted	Ivanti, Inc.
US	Systems and methods for role-based computer security configurations.	15906573	2018-02-27	10834091	2020-11-10	Granted	Ivanti, Inc.
US	Virtual instance architecture for mobile device management systems	13760996	2/6/2013	8626147	1/7/2014	Granted	Mobile Iron, Inc.
US	Management of mobile applications	13679947	11/16/2012	8731529	5/20/2014	Granted	Mobile Iron, Inc.
US	Virtual instance architecture for mobile device management systems	14094055	12/2/2013	8811970	8/19/2014	Granted	Mobile Iron, Inc.
US	Auto-insertion of information classification	14189773	2/25/2014	8813242	8/19/2014	Granted	Mobile Iron, Inc.
US	Management of mobile applications	14181450	2/14/2014	8862105	10/14/2014	Granted	Mobile Iron, Inc.
US	Secure virtual file management system	13734525	1/4/2013	8863297	10/14/2014	Granted	Mobile Iron, Inc.
US	Secure virtual file management system	13734545	1/4/2013	8863298	10/14/2014	Granted	Mobile Iron, Inc.
US	Secure virtual file management system	13734689	1/4/2013	8863299	10/14/2014	Granted	Mobile Iron, Inc.
US	Messaging gateway	14216482	3/17/2014	8918529	12/23/2014	Granted	Mobile Iron, Inc.
US	Self-removal of enterprise app data	14179216	2/12/2014	8949201	2/3/2015	Granted	Mobile Iron, Inc.
US	Mobile activity intelligence	13679902	11/16/2012	9042862	5/26/2015	Granted	Mobile Iron, Inc.

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	Distributed management with embedded agents in enterprise apps	14195716	3/3/2014	9043460	5/26/2015	Granted	Mobile Iron, Inc.
US	Secure mobile app connection bus	14137745	12/20/2013	9059974	6/16/2015	Granted	Mobile Iron, Inc.
US	User interface for secure virtual document management system	14076451	11/11/2013	9122887	9/1/2015	Granted	Mobile Iron, Inc.
US	Remote verification for configuration updates	14484150	9/11/2014	9203698	12/1/2015	Granted	Mobile Iron, Inc.
US	Secure access to mobile applications	14137848	12/20/2013	9210157	12/8/2015	Granted	Mobile Iron, Inc.
US	Secure access to mobile applications	14137752	12/20/2013	9210170	12/8/2015	Granted	Mobile Iron, Inc.
US	Secure virtual file management system	14477808	9/4/2014	9213858	12/15/2015	Granted	Mobile Iron, Inc.
US	Self-removal of enterprise app data	14580006	12/22/2014	9235584	1/12/2016	Granted	Mobile Iron, Inc.
US	Secure copy and paste of mobile app data	14189810	2/25/2014	9235717	1/12/2016	Granted	Mobile Iron, Inc.
US	Rule based mobile device management delegation	14446229	7/29/2014	9271142	2/23/2016	Granted	Mobile Iron, Inc.
US	Management of certificates for mobile devices	13916507	6/12/2013	9300476	3/29/2016	Granted	Mobile Iron, Inc.
US	Adaptive encryption optimization	14561071	12/4/2014	9306913	4/5/2016	Granted	Mobile Iron, Inc.
US	Partitioned application environment	13922077	6/19/2013	9348678	5/24/2016	Granted	Mobile Iron, Inc.
US	Preventing content data leak on mobile devices	13946218	7/19/2013	9349018	5/24/2016	Granted	Mobile Iron, Inc.
US	Management of mobile applications	14484140	9/11/2014	9374654	6/21/2016	Granted	Mobile Iron, Inc.
US	Secure identification string	13669089	11/5/2012	9386009	7/5/2016	Granted	Mobile Iron, Inc.
US	Location and time based mobile app policies	14137853	12/20/2013	9426120	8/23/2016	Granted	Mobile Iron, Inc.
US	Adapting a mobile application to a partitioned environment	13669082	11/5/2012	9430641	8/30/2016	Granted	Mobile Iron, Inc.
US	Multi-user use of single-user apps	14195704	3/3/2014	9445271	9/13/2016	Granted	Mobile Iron, Inc.
US	Partitioned application environment	15087293	3/31/2016	9465677	10/11/2016	Granted	Mobile Iron, Inc.
US	Secure virtual file management system	14936364	11/9/2015	9465953	10/11/2016	Granted	Mobile Iron, Inc.
US	Secure mobile app connection bus	14690311	4/17/2015	9537835	1/3/2017	Granted	Mobile Iron, Inc.
US	Messaging gateway	14542279	11/14/2014	9544288	1/10/2017	Granted	Mobile Iron, Inc.
US	Mobile activity intelligence	14690310	4/17/2015	9544752	1/10/2017	Granted	Mobile Iron, Inc.
US	Secure controlled access to authentication servers	14555344	11/26/2014	9548982	1/17/2017	Granted	Mobile Iron, Inc.
US	Remote verification for configuration updates	14922523	10/26/2015	9559907	1/31/2017	Granted	Mobile Iron, Inc.
US	Secure copy and paste of mobile app data	14963093	12/8/2015	9607176	3/28/2017	Granted	Mobile Iron, Inc.
US	Self-removal of enterprise app data	14960223	12/4/2015	9633214	4/25/2017	Granted	Mobile Iron, Inc.
US	Mobile device key management	14533008	11/4/2014	9634999	4/25/2017	Granted	Mobile Iron, Inc.

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	Multiple factor authentication in an identity certificate service	14493237	9/22/2014	9641344	5/2/2017	Granted	Mobile Iron, Inc.
US	Adaptive encryption optimization	15059007	3/2/2016	9660963	5/23/2017	Granted	Mobile Iron, Inc.
US	Preventing content data leak on mobile devices	15136608	4/22/2016	9665731	5/30/2017	Granted	Mobile Iron, Inc.
US	Rule based mobile device management delegation	14994782	1/13/2016	9668124	5/30/2017	Granted	Mobile Iron, Inc.
US	Managing applications across multiple management domains	14793022	7/7/2015	9672338	6/6/2017	Granted	Mobile Iron, Inc.
US	Mobile device data encryption	14533006	11/4/2014	9703981	7/11/2017	Granted	Mobile Iron, Inc.
US	Syndicating device and application management	14793026	7/7/2015	9712492	7/18/2017	Granted	Mobile Iron, Inc.
US	Location and time based mobile app policies	14137758	12/20/2013	9727747	8/8/2017	Granted	Mobile Iron, Inc.
US	Virtual mailbox	14550962	11/22/2014	9729551	8/8/2017	Granted	Mobile Iron, Inc.
US	Embedding security posture in network traffic	14517723	10/17/2014	9756047	9/5/2017	Granted	Mobile Iron, Inc.
US	Detecting a configuration profile from a management agent	14563955	12/8/2014	9762444	9/12/2017	Granted	Mobile Iron, Inc.
US	Distributed management with embedded agents in enterprise apps	14690313	4/17/2015	9794351	10/17/2017	Granted	Mobile Iron, Inc.
US	Personal device management	14825904	8/13/2015	9794975	10/17/2017	Granted	Mobile Iron, Inc.
US	User interface for secure virtual document management system	14807791	7/23/2015	9830468	11/28/2017	Granted	Mobile Iron, Inc.
US	Multiple factor authentication in an identity certificate service	15468681	3/24/2017	9847882	12/19/2017	Granted	Mobile Iron, Inc.
US	Secure access to mobile applications	14929103	10/30/2015	9848001	12/19/2017	Granted	Mobile Iron, Inc.
US	Mobile device traffic splitter	14675475	3/31/2015	9854443	12/26/2017	Granted	Mobile Iron, Inc.
US	Enrolling a mobile device with an enterprise mobile device management environment	14633493	2/27/2015	9860187	1/2/2018	Granted	Mobile Iron, Inc.
US	Secure app-to-app communication	14195727	3/3/2014	9866382	1/9/2018	Granted	Mobile Iron, Inc.
US	Management of certificates for mobile devices	15047119	2/18/2016	9917698	3/13/2018	Granted	Mobile Iron, Inc.
US	Syndicating device and application management	15620573	6/12/2017	9923873	3/20/2018	Granted	Mobile Iron, Inc.
US	Managing applications across multiple management domains	15582310	4/28/2017	9961554	5/1/2018	Granted	Mobile Iron, Inc.
US	Rule based mobile device management delegation	15495343	4/24/2017	9992068	6/5/2018	Granted	Mobile Iron, Inc.
US	Identity proxy to provide access control and single sign on	15006906	1/26/2016	10003600	6/19/2018	Granted	Mobile Iron, Inc.
US	Embedding security posture in network traffic	15663445	7/28/2017	10021101	7/10/2018	Granted	Mobile Iron, Inc.
US	Application synchronization	14569547	12/12/2014	10025836	7/17/2018	Granted	Mobile Iron, Inc.

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US	Leveraging and extending mobile operating system MDM protocol	15604091	5/24/2017	10038598	7/31/2018	Granted	Mobile Iron, Inc.
US	Mobile device traffic management	14563952	12/8/2014	10070343	9/4/2018	Granted	Mobile Iron, Inc.
US	Secure access to cloud-based services	15006917	1/26/2016	10079834	9/18/2018	Granted	Mobile Iron, Inc.
US	Enrolling a mobile device with an enterprise mobile device management environment	15815434	11/16/2017	10091127	10/2/2018	Granted	Mobile Iron, Inc.
US	Adapting a mobile application to a partitioned environment	15221066	7/27/2016	10114932	10/30/2018	Granted	Mobile Iron, Inc.
US	Identity proxy to provide access control and single sign on	15962291	4/25/2018	10116663	10/30/2018	Granted	Mobile Iron, Inc.
US	Leveraging and extending mobile operating system MDM protocol	16020783	6/27/2018	10158531	12/18/2018	Granted	Mobile Iron, Inc.
US	Mobile posture-based policy, remediation and access control for enterprise resources	14484159	9/11/2014	10171648	1/1/2019	Granted	Mobile Iron, Inc.
US	Converting mobile traffic between IP VPN and transport level VPN	15073328	3/17/2016	10193865	1/29/2019	Granted	Mobile Iron, Inc.
US	Mobile device management broker	14675469	3/31/2015	10198585	2/5/2019	Granted	Mobile Iron, Inc.
US	Location and time based mobile app policies	15643382	7/6/2017	10275607	4/30/2019	Granted	Mobile Iron, Inc.
US	Remote display using a proxy	14569525	12/12/2014	10277698	4/30/2019	Granted	Mobile Iron, Inc.
US	Device identification in service authorization	14818151	8/4/2015	10278069	4/30/2019	Granted	Mobile Iron, Inc.
US	Secure app-to-app communication	15639012	6/30/2017	10284369	5/7/2019	Granted	Mobile Iron, Inc.
US	Identity proxy to provide access control and single sign on	16141716	9/25/2018	10320801	6/11/2019	Granted	Mobile Iron, Inc.
US	Containerized architecture to manage internet-connected devices	15270948	9/20/2016	10374869	8/6/2019	Granted	Mobile Iron, Inc.
US	Secure access to cloud-based services	16058916	8/8/2018	10397239	8/27/2019	Granted	Mobile Iron, Inc.
US	Mobile device management registration	14966511	12/11/2015	10404684	9/3/2019	Granted	Mobile Iron, Inc.
US	Mobile device traffic splitter	15815451	11/16/2017	10595205	3/17/2020	Granted	Mobile Iron, Inc.
US	Identity proxy to provide access control and single sign on	16396354	4/26/2019	10673861	6/2/2020	Granted	Mobile Iron, Inc.
US	Application help desk	14563483	12/8/2014	10680905	6/9/2020	Granted	Mobile Iron, Inc.
US	Managing applications across multiple management domains	15935860	3/26/2018	10716005	7/14/2020	Granted	Mobile Iron, Inc.
US	SECURELY STORING AND DISTRIBUTING SENSITIVE DATA IN A CLOUD-BASED APPLICATION	15429620	2/10/2017	10339339	7/2/2019	Granted	MobileIron, Inc

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US	ASSERTING A MOBILE IDENTITY TO USERS AND DEVICES IN AN ENTERPRISE AUTHENTICATION SYSTEM	16257654	1/25/2019	10523660	12/31/2019	Granted	MobileIron, Inc
US	UNIFIED VPN AND IDENTITY BASED AUTHENTICATION TO CLOUD-BASED SERVICES	15595648	5/15/2017	10673838	6/2/2020	Granted	MobileIron, Inc
US	Virtual instance architecture for mobile device management systems.	12181124	2008-07-28	8060074	2011-11-15	Granted	Mobile Iron, Inc.
US	Mobile activity intelligence.	12421517	2009-04-09	8340633	2012-12-25	Granted	Mobile Iron, Inc.
US	Management of mobile applications.	12950933	2010-11-19	8359016	2013-01-22	Granted	Mobile Iron, Inc.
US	Virtual instance architecture for mobile device management systems.	13245197	2011-09-26	8396465	2013-03-12	Granted	Mobile Iron, Inc.
US	Management of certificates for mobile devices.	12976402	2010-12-22	8494485	2013-07-23	Granted	Mobile Iron, Inc.
US	Selective management of mobile device data in an enterprise environment.	12469612	2009-05-20	8695058	2014-04-08	Granted	Mobile Iron, Inc.
US	Mobile posture-based policy, remediation and access control for enterprise resources.	12950947	2010-11-19	8869307	2014-10-21	Granted	Mobile Iron, Inc.
US	Remote verification for configuration updates.	12470359	2009-05-21	8898748	2014-11-25	Granted	Mobile Iron, Inc.
US	TOLERATING FAILURE OF TRAFFIC MANAGEMENT SYSTEMS	11124835	5/9/2005	7523178	4/21/2009	Granted	Pulse Secure, LLC
US	FEDERATING TRUST IN A HETEROGENEOUS NETWORK	11061641	2/22/2005	7584503	9/1/2009	Granted	Pulse Secure, LLC
US	NETWORK POLICY EVALUATION	11422109	6/5/2006	7592906	9/22/2009	Granted	Pulse Secure, LLC
US	METHOD AND SYSTEM FOR PERFORMING A SECURITY CHECK	10917338	8/13/2004	7627758	12/1/2009	Granted	Pulse Secure, LLC
US	METHOD AND SYSTEM FOR PROVIDING SECURE ACCESS TO PRIVATE NETWORKS WITH CLIENT REDIRECTION	10410619	4/8/2003	7631084	12/8/2009	Granted	Pulse Secure, LLC
US	LOCAL CACHING OF ONE-TIME USER PASSWORDS	11226520	9/14/2005	7752450	7/6/2010	Granted	Pulse Secure, LLC
US	METHOD AND SYSTEM FOR PROVIDING SECURE ACCESS TO PRIVATE NETWORKS	10060792	1/29/2002	7774455	8/10/2010	Granted	Pulse Secure, LLC
US	REMOTE DIRECTORY BROWSING THROUGH A SECURE GATEWAY OF A VIRTUAL PRIVATE NETWORK	11498684	8/3/2006	7840996	11/23/2010	Granted	Pulse Secure, LLC
US	MANAGEMENT OF SESSION TIMEOUTS IN AN SSL VPN GATEWAY	11166778	6/27/2005	7873994	1/18/2011	Granted	Pulse Secure, LLC

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US	LOCAL CACHING OF ENDPOINT SECURITY INFORMATION	11346062	2/2/2006	7882538	2/1/2011	Granted	Pulse Secure, LLC
US	DELAYING ONE-SHOT SIGNAL OBJECTS	12042558	3/5/2008	7886175	2/8/2011	Granted	Pulse Secure, LLC
US	METHODS AND DEVICES FOR POST PROCESSING RENDERED WEB PAGES AND HANDLING REQUESTS OF POST PROCESSED WEB PAGES	12637476	12/14/2009	7886218	2/8/2011	Granted	Pulse Secure, LLC
US	RECONCILIATION OF MULTIPLE SETS OF NETWORK ACCESS CONTROL POLICIES	11827598	7/12/2007	7886335	2/8/2011	Granted	Pulse Secure, LLC
US	METHOD AND SYSTEM FOR PROVIDING SECURE ACCESS TO PRIVATE NETWORKS WITH CLIENT REDIRECTION	12582151	10/20/2009	7958245	6/7/2011	Granted	Pulse Secure, LLC
US	MULTIPLE VIRTUALIZED OPERATING ENVIRONMENTS WITHIN A VPN APPLIANCE	11369714	3/7/2006	7961722	6/14/2011	Granted	Pulse Secure, LLC
US	NETWORK POLICY EVALUATION	12541775	8/14/2009	7982595	7/19/2011	Granted	Pulse Secure, LLC
US	SERVER-TO-SERVER INTEGRITY CHECKING	12334611	12/15/2008	7996713	8/9/2011	Granted	Pulse Secure, LLC
US	NETWORK DEFENSE SYSTEM UTILIZING ENDPOINT HEALTH INDICATORS AND USER IDENTITY	11236987	9/28/2005	8001610	8/16/2011	Granted	Pulse Secure, LLC
US	FEDERATING TRUST IN A HETEROGENEOUS NETWORK	12507462	7/22/2009	8028326	9/27/2011	Granted	Pulse Secure, LLC
US	MANAGEMENT OF SESSION TIMEOUTS IN AN SSL VPN GATEWAY	12964436	12/9/2010	8082581	12/20/2011	Granted	Pulse Secure, LLC
US	WIRELESS INTRUSION PREVENTION SYSTEM AND METHOD	11946003	11/27/2007	8087085	12/27/2011	Granted	Pulse Secure, LLC
US	UPDATING STORED PASSWORDS	11864598	9/28/2007	8094812	1/10/2012	Granted	Pulse Secure, LLC
US	APPLICATION-SPECIFIC NETWORK-LAYER VIRTUAL PRIVATE NETWORK CONNECTIONS	11558293	11/9/2006	8095786	1/10/2012	Granted	Pulse Secure, LLC
US	EXCHANGE OF NETWORK ACCESS CONTROL INFORMATION USING TIGHTLY-CONSTRAINED NETWORK ACCESS CONTROL PROTOCOLS	11857111	9/18/2007	8104073	1/24/2012	Granted	Pulse Secure, LLC
US	SELECTIVE PERSISTENT STORAGE OF CONTROLLER INFORMATION	11537036	9/29/2006	8108904	1/31/2012	Granted	Pulse Secure, LLC

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US	POLICY-BASED CROSS-DOMAIN ACCESS CONTROL FOR SSL VPN	12111306	4/29/2008	8117325	2/14/2012	Granted	Pulse Secure, LLC
US	MULTI-SERVICE VPN NETWORK CLIENT FOR MOBILE DEVICE	12967977	12/14/2010	8127350	2/28/2012	Granted	Pulse Secure, LLC
US	AUTOMATED AUTHENTICATION OF SOFTWARE APPLICATIONS USING A LIMITED-USE TOKEN	11352621	2/13/2006	8132242	3/6/2012	Granted	Pulse Secure, LLC
US	COMMUNICATION POLICY ENFORCEMENT IN A DATA NETWORK	11281905	11/18/2005	8185642	5/22/2012	Granted	Pulse Secure, LLC
US	LOCAL CACHING OF ENDPOINT SECURITY INFORMATION	13019162	2/1/2011	8185933	5/22/2012	Granted	Pulse Secure, LLC
US	SECURE DELIVERY OF FLASH CONTENT OVER NETWORKS	11383843	5/17/2006	8190752	5/29/2012	Granted	Pulse Secure, LLC
US	REMOTE DIRECTORY BROWSING THROUGH A SECURE GATEWAY OF A VIRTUAL PRIVATE NETWORK	12951840	11/22/2010	8201238	6/12/2012	Granted	Pulse Secure, LLC
US	ATOMIC DELETION OF DATABASE DATA CATEGORIES	12637930	12/15/2009	8214411	7/3/2012	Granted	Pulse Secure, LLC
US	LOCAL CACHING OF ONE-TIME USER PASSWORDS	12825077	6/28/2010	8225102	7/17/2012	Granted	Pulse Secure, LLC
US	ON-DEMAND ADVERTISING OF SOFTWARE PACKAGES	11685374	3/13/2007	8230415	7/24/2012	Granted	Pulse Secure, LLC
US	POLICY-BASED CROSS-DOMAIN ACCESS CONTROL FOR SSL VPN	13347292	1/10/2012	8239556	8/7/2012	Granted	Pulse Secure, LLC
US	PREDICTIVE REAL-TIME PAIRWISE MASTER KEY IDENTIFICATION (PMKID) GENERATION	12350649	1/8/2009	8281133	10/2/2012	Granted	Pulse Secure, LLC
US	AUTHENTICATION AND AUTHORIZATION IN NETWORK LAYER TWO AND NETWORK LAYER THREE	11742370	4/30/2007	8281371	10/2/2012	Granted	Pulse Secure, LLC
US	ATOMIC DELETION OF DATABASE DATA CATEGORIES	12795426	6/7/2010	8290991	10/16/2012	Granted	Pulse Secure, LLC
US	SYNCHRONIZATION OF MUTUALLY SHARED DATA STORED ON NETWORK DEVICES	11297595	12/8/2005	8291101	10/16/2012	Granted	Pulse Secure, LLC
US	TRANSLATING AUTHORIZATION INFORMATION WITHIN COMPUTER NETWORKS	12475230	5/29/2009	8291468	10/16/2012	Granted	Pulse Secure, LLC
US	NON-SIGNATURE MALWARE DETECTION SYSTEM AND METHOD FOR MOBILE PLATFORMS	11697668	4/6/2007	8312545	11/13/2012	Granted	Pulse Secure, LLC

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US	ADAPTIVE TRANSITION BETWEEN LAYER THREE AND LAYER FOUR NETWORK TUNNELS	11226501	9/14/2005	8316226	11/20/2012	Granted	Pulse Secure, LLC
US	MALWARE MODELING DETECTION SYSTEM AND METHOD FOR MOBILE PLATFORMS	11697642	4/6/2007	8321941	11/27/2012	Granted	Pulse Secure, LLC
US	METHOD AND SYSTEM FOR PROVIDING SECURE ACCESS TO PRIVATE NETWORKS	12821928	6/23/2010	8326981	12/4/2012	Granted	Pulse Secure, LLC
US	SYSTEM AND METHOD FOR SERVING WEB PAGES	12425513	4/17/2009	8332515	12/11/2012	Granted	Pulse Secure, LLC
US	POLICY EVALUATION IN CONTROLLED ENVIRONMENT	11465263	8/17/2006	8352998	1/8/2013	Granted	Pulse Secure, LLC
US	COMBINING NETWORK ENDPOINT POLICY RESULTS	11530189	9/8/2006	8369224	2/5/2013	Granted	Pulse Secure, LLC
US	SECURE DESKTOP FOR A NETWORK MEETING	11280511	11/16/2005	8370431	2/5/2013	Granted	Pulse Secure, LLC
US	ENSURING QUALITY OF SERVICE OVER VPN IPSEC TUNNELS	12633353	12/8/2009	8370921	2/5/2013	Granted	Pulse Secure, LLC
US	USING ENDPOINT HOST CHECKING TO CLASSIFY UNMANAGED DEVICES IN A NETWORK AND TO IMPROVE NETWORK LOCATION AWARENESS	12769023	4/28/2010	8375117	2/12/2013	Granted	Pulse Secure, LLC
US	DELAYING ONE-SHOT SIGNAL OBJECTS	12980598	12/29/2010	8402301	3/19/2013	Granted	Pulse Secure, LLC
US	METHOD AND SYSTEM FOR PERFORMING A SECURITY CHECK	12604902	10/23/2009	8429721	4/23/2013	Granted	Pulse Secure, LLC
US	VPN RESOURCE CONNECTIVITY IN LARGE-SCALE ENTERPRISE NETWORKS	12959143	12/2/2010	8443435	5/14/2013	Granted	Pulse Secure, LLC
US	VERIFYING INTEGRITY OF NETWORK DEVICES FOR SECURE MULTICAST COMMUNICATIONS	12271555	11/14/2008	8458462	6/4/2013	Granted	Pulse Secure, LLC
US	VPN NETWORK CLIENT FOR MOBILE DEVICE HAVING DYNAMICALLY TRANSLATED USER HOME PAGE	12968043	12/14/2010	8458787	6/4/2013	Granted	Pulse Secure, LLC
US	VPN NETWORK CLIENT FOR MOBILE DEVICE HAVING FAST RECONNECT	12968048	12/14/2010	8464336	6/11/2013	Granted	Pulse Secure, LLC
US	MULTI-SERVICE VPN NETWORK CLIENT FOR MOBILE DEVICE HAVING DYNAMIC FAILOVER	12968067	12/14/2010	8473734	6/25/2013	Granted	Pulse Secure, LLC

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	VPN NETWORK CLIENT FOR MOBILE DEVICE HAVING DYNAMICALLY CONSTRUCTED DISPLAY FOR NATIVE ACCESS TO WEB MAIL	12968013	12/14/2010	8474035	6/25/2013	Granted	Pulse Secure, LLC
US	ATOMIC DELETION OF DATABASE DATA CATEGORIES	13485482	5/31/2012	8478797	7/2/2013	Granted	Pulse Secure, LLC
US	SECURE DELIVERY OF FLASH CONTENT OVER NETWORKS	13460618	4/30/2012	8484364	7/9/2013	Granted	Pulse Secure, LLC
US	SYSTEM AND METHOD FOR CONTROLLING A MOBILE DEVICE	12756001	4/7/2010	8490176	7/16/2013	Granted	Pulse Secure, LLC
US	VIRTUAL SINGLE SIGN-ON FOR CERTIFICATE-PROTECTED RESOURCES	12711094	2/23/2010	8549300	10/1/2013	Granted	Pulse Secure, LLC
US	MULTI-SERVICE VPN NETWORK CLIENT FOR MOBILE DEVICE HAVING INTEGRATED ACCELERATION	12968015	12/14/2010	8549617	10/1/2013	Granted	Pulse Secure, LLC
US	CREDENTIAL GENERATION FOR AUTOMATIC AUTHENTICATION ON WIRELESS ACCESS NETWORK	13247308	9/28/2011	8594628	11/26/2013	Granted	Pulse Secure, LLC
US	DYNAMIC ACCESS MANAGEMENT FOR NETWORK SECURITY	11421294	5/31/2006	8601102	12/3/2013	Granted	Pulse Secure, LLC
US	SINGLE SIGN-ON FOR NETWORK APPLICATIONS	11970701	1/8/2008	8627493	1/7/2014	Granted	Pulse Secure, LLC
US	COMMUNICATING BETWEEN A SERVER AND CLIENTS	11124807	5/9/2005	8635265	1/21/2014	Granted	Pulse Secure, LLC
US	COMBINING NETWORK ENDPOINT POLICY RESULTS	13740396	1/14/2013	8644167	2/4/2014	Granted	Pulse Secure, LLC
US	POLICY EVALUATION IN CONTROLLED ENVIRONMENT	13728173	12/27/2012	8661505	2/25/2014	Granted	Pulse Secure, LLC
US	INTEGRITY PLUG-IN-PROXY	11678432	2/23/2007	8667555	3/4/2014	Granted	Pulse Secure, LLC
US	PLUG-IN BASED POLICY EVALUATION	11457938	7/17/2006	8776166	7/8/2014	Granted	Pulse Secure, LLC
US	TUNNELING SESSION DETECTION TO PROVIDE SINGLE-SIGN ON (SSO) FUNCTIONALITY FOR A VPN GATEWAY	13416786	3/9/2012	8776209	7/8/2014	Granted	Pulse Secure, LLC
US	REWRITING OF CLIENT-SIDE EXECUTED SCRIPTS IN THE OPERATION OF AN SSL VPN	11166779	6/27/2005	8799515	8/5/2014	Granted	Pulse Secure, LLC
US	AUTHENTICATION AND AUTHORIZATION IN NETWORK LAYER TWO AND NETWORK LAYER THREE	13601546	8/31/2012	8800006	8/5/2014	Granted	Pulse Secure, LLC

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	VPN SESSION MIGRATION ACROSS CLIENTS	13168074	6/24/2011	8800007	8/5/2014	Granted	Pulse Secure, LLC
US	REWRITER FILTER	11291836	12/2/2005	8806036	8/12/2014	Granted	Pulse Secure, LLC
US	USING ENCODED IDENTIFIERS TO PROVIDE RAPID CONFIGURATION FOR NETWORK ACCESS	12969941	12/16/2010	8806567	8/12/2014	Granted	Pulse Secure, LLC
US	MONITORING CONNECTIONS	13218504	8/26/2011	8843620	9/23/2014	Granted	Pulse Secure, LLC
US	IF-MAP PROVISIONING OF RESOURCES AND SERVICES	12358834	1/23/2009	8856909	10/7/2014	Granted	Pulse Secure, LLC
US	SYSTEM AND METHOD OF MALWARE SAMPLE COLLECTION ON MOBILE NETWORKS	11869719	10/9/2007	8881283	11/4/2014	Granted	Pulse Secure, LLC
US	Apparatus for Routing Requests	13115692	5/25/2011	8924481	12/30/2014	Granted	Pulse Secure, LLC
US	MULTI-SERVICE VPN NETWORK CLIENT FOR MOBILE DEVICE	13403436	2/23/2012	8949968	2/3/2015	Granted	Pulse Secure, LLC
US	DISTRIBUTING AND SHARING LICENSES ACROSS NETWORK DEVICES IN A VIRTUAL PRIVATE NETWORK (VPN)	12960243	12/3/2010	8955099	2/10/2015	Granted	Pulse Secure, LLC
US	ACCESSING A POLICY SERVER FROM MULTIPLE LAYER TWO NETWORKS	11772469	7/2/2007	8966075	2/24/2015	Granted	Pulse Secure, LLC
US	PROVISIONING LAYER TWO NETWORK ACCESS FOR MOBILE DEVICES	13166376	6/22/2011	8990891	3/24/2015	Granted	Pulse Secure, LLC
US	MIGRATING VIRTUAL MACHINES BETWEEN COMPUTING DEVICES	13537526	6/29/2012	8997094	3/31/2015	Granted	Pulse Secure, LLC
US	UPDATING STORED PASSWORDS	13312062	12/6/2011	9001999	4/7/2015	Granted	Pulse Secure, LLC
US	Malware Detection System And Method for Compressed Data on Mobile Platforms	11697658	4/6/2007	9009818	4/14/2015	Granted	Pulse Secure, LLC
US	MALWARE DETECTION SYSTEM AND METHOD FOR LIMITED ACCESS MOBILE PLATFORMS	11697664	4/6/2007	9064115	6/23/2015	Granted	Pulse Secure, LLC
US	USING ENDPOINT HOST CHECKING TO CLASSIFY UNMANAGED DEVICES IN A NETWORK AND TO IMPROVE NETWORK LOCATION AWARENESS	13746598	1/22/2013	9071530	6/30/2015	Granted	Pulse Secure, LLC
US	DETERMINING A REDUCED SET OF REMEDIATION ACTIONS FOR ENDPOINT INTEGRITY	12183628	7/31/2008	9088615	7/21/2015	Granted	Pulse Secure, LLC
US	ROUTING NETWORK TRAFFIC	13650354	10/12/2012	9118581	8/25/2015	Granted	Pulse Secure, LLC

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	INFECTED ENDPOINT CONTAINMENT USING AGGREGATED SECURITY STATUS INFORMATION	13730793	12/28/2012	9124636	9/1/2015	Granted	Pulse Secure, LLC
US	METHOD AND SYSTEM FOR PROVIDING SECURE ACCESS TO PRIVATE NETWORKS	12572656	10/2/2009	9130936	9/8/2015	Granted	Pulse Secure, LLC
US	NETWORK ADDRESS PRESERVATION IN MOBILE NETWORKS	13247357	9/28/2011	9148776	9/29/2015	Granted	Pulse Secure, LLC
US	DETECTING MALWARE ON MOBILE DEVICES	13164627	6/20/2011	9202049	12/1/2015	Granted	Pulse Secure, LLC
US	MULTI-SERVICE VPN NETWORK CLIENT FOR MOBILE DEVICE HAVING INTEGRATED ACCELERATION	14041873	9/30/2013	9363235	6/7/2016	Granted	Pulse Secure, LLC
US	PROVISIONING LAYER TWO NETWORK ACCESS FOR MOBILE DEVICES	14666208	3/23/2015	9398010	7/19/2016	Granted	Pulse Secure, LLC
US	UPDATING STORED PASSWORDS	14659618	3/17/2015	9401913	7/26/2016	Granted	Pulse Secure, LLC
US	Method and System for Providing Secure Access to Private Networks	14814417	7/30/2015	9444791	9/13/2016	Granted	Pulse Secure, LLC
US	DISTRIBUTING AND SHARING LICENSES ACROSS NETWORK DEVICES IN A VIRTUAL PRIVATE NETWORK (VPN)	14580694	12/23/2014	9460274	10/4/2016	Granted	Pulse Secure, LLC
US	CONTROLLING THE OPERATION OF SERVER COMPUTERS	13530740	6/22/2012	9473571	10/18/2016	Granted	Pulse Secure, LLC
US	COMBINING NETWORK ENDPOINT POLICY RESULTS	14169795	1/31/2014	9479538	10/25/2016	Granted	Pulse Secure, LLC
US	PLUG-IN BASED POLICY EVALUATION	14318847	6/30/2014	9485278	11/1/2016	Granted	Pulse Secure, LLC
US	VIRTUAL PRIVATE NETWORKING WITH MOBILE COMMUNICATION CONTINUITY	13332163	12/20/2011	9491686	11/8/2016	Granted	Pulse Secure, LLC
US	PROVISIONING LAYER THREE ACCESS FOR AGENTLESS DEVICES	14148094	1/6/2014	9497179	11/15/2016	Granted	Pulse Secure, LLC
US	MALWARE DETECTION SYSTEM AND METHOD FOR COMPRESSED DATA ON MOBILE PLATFORMS	14685391	4/13/2015	9542555	1/10/2017	Granted	Pulse Secure, LLC
US	DETECTING MALWARE ON MOBILE DEVICES	14949705	11/23/2015	9576130	2/21/2017	Granted	Pulse Secure, LLC

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	USING ENDPOINT HOST CHECKING TO CLASSIFY UNMANAGED DEVICES IN A NETWORK AND TO IMPROVE NETWORK LOCATION AWARENESS	14719805	5/22/2015	9602372	3/21/2017	Granted	Pulse Secure, LLC
US	APPLICATION-AWARE CONNECTION FOR NETWORK ACCESS CLIENT	13938194	7/9/2013	9608962	3/28/2017	Granted	Pulse Secure, LLC
US	CONTROLLING THE OPERATION OF SERVER COMPUTERS	14849399	9/9/2015	9661070	5/23/2017	Granted	Pulse Secure, LLC
US	INFECTED ENDPOINT CONTAINMENT USING AGGREGATED SECURITY STATUS INFORMATION	14839183	8/28/2015	9723019	8/1/2017	Granted	Pulse Secure, LLC
US	NETWORK ACCESS SESSION DETECTION TO PROVIDE SINGLE-SIGN ON (SSO) FUNCTIONALITY FOR A NETWORK ACCESS CONTROL DEVICE	14228734	3/28/2014	9729539	8/8/2017	Granted	Pulse Secure, LLC
US	TRANSPARENTLY INTERCEPTING AND OPTIMIZING RESOURCE REQUESTS	14327187	7/9/2014	9825812	11/21/2017	Granted	Pulse Secure, LLC
US	APPLICATION-AWARE CONNECTION FOR NETWORK ACCESS CLIENT	15433727	2/15/2017	9923871	3/20/2018	Granted	Pulse Secure, LLC
US	PREDICTIVE PRIORITIZED SERVER PUSH OF RESOURCES	14511983	10/10/2014	9992263	6/5/2018	Granted	Pulse Secure, LLC
US	SESSION MIGRATION BETWEEN NETWORK POLICY SERVERS	12651081	12/31/2009	10057239	8/21/2018	Granted	Pulse Secure, LLC
US	UPDATING STORED PASSWORDS	15208735	7/13/2016	10075432	9/11/2018	Granted	Pulse Secure, LLC
US	NETWORK ACCESS SESSION DETECTION TO PROVIDE SINGLE-SIGN ON (SSO) FUNCTIONALITY FOR A NETWORK ACCESS CONTROL DEVICE	15666804	8/2/2017	10116644	10/30/2018	Granted	Pulse Secure, LLC
US	DUAL-MODE MULTI-SERVICE VPN NETWORK CLIENT FOR MOBILE DEVICE	12968095	12/14/2010	10142292	11/27/2018	Granted	Pulse Secure, LLC
US	Supplying data files to requesting stations	12554113	9/4/2009	10193770	1/29/2019	Granted	Pulse Secure, LLC
US	DETECTING MALWARE ON MOBILE DEVICES	15435572	2/17/2017	10320835	6/11/2019	Granted	Pulse Secure, LLC
US	SESSION MIGRATION BETWEEN NETWORK POLICY SERVERS	15999513	8/20/2018	10523656	12/31/2019	Granted	Pulse Secure, LLC
US	APPLICATION-AWARE CONNECTION RULES FOR NETWORK ACCESS CLIENT	15896652	2/14/2018	10581803	3/3/2020	Granted	Pulse Secure, LLC

Jurisdiction	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
US	FULLY QUALIFIED DOMAIN NAME-BASED TRAFFIC CONTROL FOR VIRTUAL PRIVATE NETWORK ACCESS CONTROL	16388719	4/18/2019	10742595	8/11/2020	Granted	Pulse Secure, LLC
US	Method and system for providing secure access to private networks	10456354	2003-06-05	7620719	2009-11-17	Granted	Pulse Secure, LLC
US	Network device for providing integrated DNS caching services	11374861	2006-03-14	7970765	2011-06-28	Granted	Pulse Secure, LLC
US	Distributed web application firewall	12280760	2007-03-02	8566919	2013-10-22	Granted	Pulse Secure, LLC
US	Provisioning layer three access for agentless devices	11857084	2007-09-18	8627447	2014-01-07	Granted	Pulse Secure, LLC

2. Patent Applications:

Jurisdiction	Title	App. No.	App. Date	Status	Owner
US	Systems and methods for presentation of a terminal application screen.	15222739	7/28/2016	Pending	Ivanti, Inc.
US	Scripting support for data identifiers, voice recognition and speech in a telnet session.	16207852	12/3/2018	Pending	Ivanti, Inc.
US	Systems and methods for credentials distribution .	16287335	2/27/2019	Pending	Ivanti, Inc.
US	Methods and apparatus for safe and smart distribution of software patches .	16542501	8/16/2019	Pending	Ivanti, Inc.
US	Predicting whether a party will purchase a product .	16571598	9/16/2019	Pending	Ivanti, Inc.
US	System and methods for patch management .	16693123	11/22/2019	Pending	Ivanti, Inc.
US	Mobile device management broker.	16229623	12/21/2018	Pending	Mobile Iron, Inc.
US	Correlating mobile device and app usage with cloud service usage to provide security.	15937617	3/27/2018	Pending	Mobile Iron, Inc.
US	Asserting user, app, and device binding in an unmanaged mobile device.	16246239	1/11/2019	Pending	Mobile Iron, Inc.
US	Asserting a mobile identity to users and devices in an enterprise authentication system.	16688668	11/19/2019	Pending	Mobile Iron, Inc.
US	Unified vpn and identity based authentication to cloud-based services.	16721800	12/19/2019	Pending	Mobile Iron, Inc.
US	Associating layer 2 and layer 3 sessions for access control.	15868644	1/11/2018	Pending	Pulse Secure, LLC
US	Preventing account lockout through request throttling.	16795359	2/19/2020	Pending	Pulse Secure, LLC
US		16382068		unpublished	
US		16668785		unpublished	
US		16718909		unpublished	
US		16808967		unpublished	
US		16988022		unpublished	

SCHEDULE B

Trademarks

Registered Trademarks:

Jurisdiction	Title	Serial No.	App. Date	Registration No.	Reg. Date	Status	Owner
US	WAVELINK	74403022	6/14/1993	1959171	2/27/1996	Registered	Ivanti, Inc.
US	GOLDMINE	74599524	11/16/1994	2041587	3/4/1997	Registered	Ivanti, Inc.
US	GOLDSYNC	75249714	2/28/1997	2178070	8/4/1998	Registered	Ivanti, Inc.
US	HEAT	75367554	10/3/1997	2210801	12/15/1998	Registered	Ivanti, Inc.
US	SHAVLIK	75589086	11/16/1998	2488207	9/11/2001	Registered	Ivanti, Inc.
US	CREATING CUSTOMERS FOR LIFE	75805771	9/21/1999	2559582	4/9/2002	Registered	Ivanti, Inc.
US	WIRELESS COMES TOGETHER	76204299	2/2/2001	2617168	9/10/2002	Registered	Ivanti, Inc.
US	SIMPLY POWERFUL	75708660	5/18/1999	2632197	10/8/2002	Registered	Ivanti, Inc.
US	W	76244164	4/20/2001	2653644	11/26/2002	Registered	Ivanti, Inc.
US	LANDESK	76132799	9/20/2000	2671025	1/7/2003	Registered	Ivanti, Inc.
US	WAVELINK AVALANCHE	76359240	1/15/2002	2749502	8/12/2003	Registered	Ivanti, Inc.
US	FRONTRANGE SOLUTIONS	76107643	8/11/2000	2753613	8/19/2003	Registered	Ivanti, Inc.
US	FRONTRANGE SOLUTIONS	76107726	8/11/2000	2753614	8/19/2003	Registered	Ivanti, Inc.
US	WAVELINK STUDIO	76143864	10/9/2000	2931071	3/8/2005	Registered	Ivanti, Inc.
US	LANDESK	78866226	4/20/2006	3255563	6/26/2007	Registered	Ivanti, Inc.
US	LANDESK	77822488	9/9/2009	3783944	5/4/2010	Registered	Ivanti, Inc.
US	SCUPDATES	77892565	12/14/2009	3854950	9/28/2010	Registered	Ivanti, Inc.
US	AVALANCHE	85087427	12/14/2009	3930950	9/28/2010	Registered	Ivanti, Inc.
US	Design only	85142427	9/30/2010	3980901	6/21/2011	Registered	Ivanti, Inc.
US	LANDESK	86145225	12/16/2013	4571828	7/22/2014	Registered	Ivanti, Inc.
US	Design only	86148585	12/19/2013	4572053	7/22/2014	Registered	Ivanti, Inc.
US	HEAT SOFTWARE	86824824	11/18/2015	5030437	8/30/2016	Registered	Ivanti, Inc.
US	HEAT SOFTWARE	86824827	11/18/2015	5030438	8/30/2016	Registered	Ivanti, Inc.
US	HEAT SOFTWARE	86824834	11/18/2015	5030439	8/30/2016	Registered	Ivanti, Inc.
US	PATCHLINK	86754449	9/11/2015	5071257	11/1/2016	Registered	Ivanti, Inc.
US	HEAT LANREV	86838105	12/3/2015	5106390	12/20/2016	Registered	Ivanti, Inc.
US	HEAT LIVETIME	86838111	12/3/2015	5106391	12/20/2016	Registered	Ivanti, Inc.
US	IVANTI	87182117	9/24/2016	5308107	10/10/2017	Registered	Ivanti, Inc.
US	MOBILEIRON	77490871	6/4/2008	3723218	12/8/2009	Registered	MobileIron, Inc.
US	CONNECTED CLOUD	85268399	3/16/2011	4078193	12/27/2011	Registered	MobileIron, Inc.
US	M	85867137	3/5/2013	4604027	9/16/2014	Registered	MobileIron, Inc.

Jurisdiction	Title	Serial No.	App. Date	Registration No.	Reg. Date	Status	Owner
US	WEB@WORK	86612830	4/28/2015	4925524	3/29/2016	Registered	MobileIron, Inc.
US	MOBILE@WORK	86534979	2/13/2015	4930483	4/5/2016	Registered	MobileIron, Inc.
US	HELP@WORK	86612818	4/28/2015	4944499	4/26/2016	Registered	MobileIron, Inc.
US	M	88369410	4/3/2019	5963277	1/14/2020	Registered	MobileIron, Inc.
US	M MOBILEIRON	88369416	4/3/2019	5963278	1/14/2020	Registered	MobileIron, Inc.
US	PULSE SECURE	86402190	9/22/2014	4914692	3/8/2016	Registered	Pulse Secure, LLC
US	PS	86402268	9/22/2014	4914693	3/8/2016	Registered	Pulse Secure, LLC
US	APPSENSE	75921085	16-FEB-2000	2579693	11-JUN-2002	Registered	Ivanti US LLC ¹
US	APPSENSE DATANOW	86343503	21-JUL-2014	5032409	30-AUG-2016	Registered	Ivanti US LLC ²
US	APPSENSE DESKTOPNOW	86343514	21-JUL-2014	5027607	23-AUG-2016	Registered	Ivanti US LLC ³

2. Trademark Applications:

Jurisdiction	Title	Serial No.	App. Date	Status	Owner
US	Design only	88435669	5/17/2019	Pending	Ivanti, Inc.
US	RAPID PLATFORM	88960946	6/11/2020	Pending	Ivanti, Inc.

¹ Currently listed in the name of Appsense US LLC. Appsense US LLC changed its name to Ivanti US LLC. Documentation evidencing transfer of ownership to be recorded with the USPTO to update the database post-closing.

² Currently listed in the name of Appsense US LLC. Appsense US LLC changed its name to Ivanti US LLC. Documentation evidencing transfer of ownership to be recorded with the USPTO to update the database post-closing.

³ Currently listed in the name of Appsense US LLC. Appsense US LLC changed its name to Ivanti US LLC. Documentation evidencing transfer of ownership to be recorded with the USPTO to update the database post-closing.

SCHEDULE C

Copyrights

Registered Copyrights:⁴

Registration Number	Title	Owner
TX0007231227	LANDesk Management Suite (version 8.8.3 and all prior versions)	Ivanti, Inc.
TX0007232481	LANDesk Management Suite (version 9.0.0)	Ivanti, Inc.
TX0007234886	LANDesk Management Suite (version 8.8.4)	Ivanti, Inc.
TX0007234884	LANDesk Management Suite (version 9.0.1)	Ivanti, Inc.
TX0005972149	[HFNetChk : version 3.87]	Ivanti, Inc.
TX0006086590	GoldMine version 6.50.31113 for Windows 98/Me/XP/2000/2003.	Ivanti, Inc.
TX0007443605	Lumension Endpoint Management and Security Suite Application Control 7.1 (LEMSS:AC 7.1)	Ivanti, Inc.
TX0007485984	Lumension(R) Endpoint Management and Security Suite AntiVirus 7.1 (LEMSS:AV 7.1)	Ivanti, Inc.
TX0007443608	Lumension Content Wizard 7.0.	Ivanti, Inc.
TX0007443611	Lumension Endpoint Management and Security Suite Device Control 7.1 (LEMSS:DC 7.1)	Ivanti, Inc.
TX0007443612	L.E.M.S.S. Enterprise Reporting - 7.1.	Ivanti, Inc.
TX0007443615	L.E.M.S.S. Patch and Remediation - 7.1.	Ivanti, Inc.
TX0001773300	ABRT library.	Ivanti, Inc.
TX0001773299	Meetings of the board of directors and its committees : a guidebook.	Ivanti, Inc.
TX0001761249	Jet / editor, John H. Johnson ... [et al.].	Ivanti, Inc.
TX0004042332	GoldMine, advanced contact management software : GoldMine : version 2.5, July, 1992.	Ivanti, Inc.
TX0004056719	GoldMine for Windows : version 2.5, May 1994.	Ivanti, Inc.

⁴ First four copyrights listed currently show as registered to Crimson Corporation. Remainder of copyrights except for TX0005972149 show as registered to HEAT Software USA, Inc. Both Crimson Corporation and HEAT Software USA, Inc. merged into Ivanti, Inc. Documentation evidencing transfer of ownership to be recorded with the US Copyright Office to update the database post-closing.

Registration Number	Title	Owner
TX0005972149	HFNetChk : version 3.87	Ivanti, Inc. ⁵

⁵ Copyright currently registered to Shavlik Technologies, LLC or Crimson Corporation. Shavlik merged into VMWare, which then assigned copyright to LANDesk which assigned to Crimson Corporation. Shavlik to VMWare merger has not been recorded, nor has merger of Crimson Corporation into Ivanti, Inc. Documentation evidencing transfer of ownership to be recorded with the US Copyright Office to update the database post-closing.