

Form PTO-1594 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

**RECORDATION FORM COVER SHEET TRADEMARKS ONLY**

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Rulestream Corporation</p> <p><input type="checkbox"/> Individual(s)      <input type="checkbox"/> Association  <input type="checkbox"/> General Partnership      <input type="checkbox"/> Limited Partnership  <input checked="" type="checkbox"/> Corporation-State DE  <input type="checkbox"/> Other _____</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies) Name: <u>Masthead Venture Partners</u> Internal _____ Capital, LP Address: <u>Suite 103</u></p> <p>Street Address: <u>55 Cambridge Parkway</u></p> <p>City: <u>Cambridge</u> State: <u>MA</u> Zip: <u>02142</u></p> <p><input type="checkbox"/> Individual(s) citizenship _____  <input type="checkbox"/> Association _____  <input type="checkbox"/> General Partnership _____  <input checked="" type="checkbox"/> Limited Partnership _____  <input type="checkbox"/> Corporation-State _____  <input type="checkbox"/> Other _____</p> <p>If assignee is not domiciled in the United States, a domestic representative designation is attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <small>(Designations must be a separate document from assignment)</small>  Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input type="checkbox"/> Assignment      <input type="checkbox"/> Merger  <input checked="" type="checkbox"/> Security Agreement      <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>August 11, 2004</u></p>	<p>4. Application number(s) or registration number(s):</p> <p>A. Trademark Application No.(s) see schedule of marks attached</p> <p>B. Trademark Registration No.(s) see schedule of marks attached</p> <p>Additional number(s) attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Susan M. Mulholland</u></p> <p>Internal Address: <u>Gesmer Updegrove LLP</u></p> <p>Street Address: <u>40 Broad Street</u></p> <p>City: <u>Boston</u> State: <u>MA</u> Zip: <u>02109</u></p>	<p>6. Total number of applications and registrations involved: <span style="border: 1px solid black; padding: 2px;">6</span></p> <p>7. Total fee (37 CFR 3.41).....\$ <u>165.00</u></p> <p><input type="checkbox"/> Enclosed  <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>122315</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
<b>DO NOT USE THIS SPACE</b>	
<p>9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i></p> <p><u>Susan M. Mulholland</u>      <u>[Signature]</u>      <u>08/11/04</u> Name of Person Signing      Signature      Date</p> <p>Total number of pages including cover sheet, attachments, and document: <span style="border: 1px solid black; padding: 2px;">17</span></p>	

CH \$165.00 122315 78168637

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patent & Trademarks, Box Assignments  
Washington, D.C. 20231

**SCHEDULE OF TRADEMARKS  
SUBJECT TO SECURITY AGREEMENT DATED AUGUST 11, 2004  
BETWEEN RULESTREAM CORPORATION AND MASTHEAD VENTURE  
PARTNERS CAPITAL, LP**

Pending Applications:

RULESTREAM (US Serial No. 78/168,637)

Registered Trademarks:

CPR2 (US Registration No. 2,730,399)

NACT (US Registration No. 2,724,989)

NCAPTURE (US Registration No. 2,580,069)

NEXPLORE (US Registration No. 2,560,293)

NPLATFORM (US Registration No. 2,795,610)

## SECURITY AGREEMENT

This Security Agreement (this "Agreement"), dated as of August 11, 2004, is made by and between RuleStream Corporation, a Delaware corporation with a principal place of business at 401 Edgewater Place, Suite 100, Wakefield, MA 01880 (the "Company"), and those lenders listed on Exhibit A hereto, as such may be amended from time to time ("Lenders").

### BACKGROUND

This Agreement is being entered into pursuant to the terms of those certain Convertible Grid Promissory Notes (the "Notes") between the Lenders and the Company dated August 11, 2004, pursuant to which the Company may borrow a minimum of [REDACTED] from the Lenders (the "Loans") upon the terms and subject to the conditions set forth in the Notes. The execution and delivery of this Agreement and the grant of a security interest pursuant to this Agreement is a fundamental element of the consideration for Lenders' agreement to extend the Loans to the Company. Now, therefore, in consideration of Lenders' agreement to make the Loans and the promises herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Definitions. The term "State," as used herein, means the Commonwealth of Massachusetts. All terms defined in the Uniform Commercial Code of the State and used herein shall have the same definitions herein as specified therein. However, if a term is defined in Article 9 of the Uniform Commercial Code of the State differently than in another Article of the Uniform Commercial Code of the State, the term has the meaning specified in Article 9. The term "Obligations", as used herein, means all of the indebtedness, obligations and liabilities of the Company to the Lenders, individually or collectively, whether direct or indirect, joint or several, absolute or contingent, due or to become due, now existing or hereafter arising under or in respect of the Loans, any promissory notes or other instruments or agreements executed and delivered pursuant thereto or in connection therewith or this Agreement, and the term "Event of Default" shall have the meaning set forth in the Notes.

2. Grant of Security Interest. The Company hereby grants to the Lenders, to secure the timely performance in full of all of the Obligations, a first priority (except to the extent subject to a Permitted Lien (as defined below)) security interest in and pledges to the Lenders, the properties, assets and rights of the Company, wherever located, described in Exhibit B hereto, whether now owned or hereafter acquired or arising, and all proceeds and products thereof (all of the same being hereinafter called the "Collateral."). The term "Permitted Lien" as used in this Agreement shall mean (i) carriers', warehousemen's', mechanics' and other similar liens arising by operation of law in the ordinary course of business; (ii) liens arising out of pledge or deposits under worker's compensation, unemployment insurance, old age pension, social security, retirement benefits or other similar legislation; and (iii) liens for taxes not yet due or which are being contested in good faith by appropriate proceedings and for which appropriate reserves are maintained in respect thereto.

3. Authorization to File Financing Statements. The Company hereby irrevocably authorizes the Lenders at any time and from time to time to file in any filing office in any

Uniform Commercial Code jurisdiction any initial financing statements and amendments thereto that (a) indicate the Collateral (i) as all assets of the Company or words of similar effect, regardless of whether any particular asset comprised in the Collateral falls within the scope of Article 9 of the Uniform Commercial Code of the State or such jurisdiction, or (ii) as being of an equal or lesser scope or with greater detail, and (b) provide any other information required by Article 9 of the Uniform Commercial Code of the State or such other jurisdiction for the sufficiency or filing office acceptance of any financing statement or amendment, including whether the Company is an organization, the type of organization and any organizational identification number issued to the Company, provided that in all instances, the scope of the Collateral in which the Lenders may be granted a security interest shall not exceed the Collateral as described herein. The Company agrees to furnish any such information to the Lenders promptly upon the Lenders' request. The Company also ratifies its authorization for the Lenders to have filed in any Uniform Commercial Code jurisdiction any like initial financing statements or amendments thereto if filed prior to the date hereof.

4. Other Actions as to any and all Collateral. The Company further agrees, upon the request of the Lenders and at the Lenders' option, to take any and all other actions as may be necessary for the attachment, perfection and first priority (except to the extent subject to a Permitted Lien) of, and the ability of the Lenders to enforce, the Lenders' security interest in any and all of the Collateral, including, without limitation, (a) executing, delivering and, where appropriate, filing financing statements and amendments relating thereto under the Uniform Commercial Code, to the extent, if any, that Company's signature thereon is required therefor, (b) causing the Lenders' name to be noted as secured party on any certificate of title for a titled good if such notation is a condition to attachment, perfection or priority of, or ability of the Lenders to enforce, the Lenders' security interest in such Collateral, (c) complying with any provision of any statute, regulation or treaty of the United States as to any Collateral if compliance with such provision is a condition to attachment, perfection or priority of, or ability of the Lenders to enforce, the Lenders' security interest in such Collateral, (d) providing the Lenders with schedules of the Company's registered or unregistered intellectual property from time to time constituting Collateral, including trademarks, copyrights, patent applications and patents, and executing and delivering such agreements or filings in connection with the Lenders' security interest in such Collateral as the Lenders may from time to time reasonably request, and (e) taking all actions under the Uniform Commercial Code or under any other law, as reasonably determined by the Lenders to be applicable in any relevant Uniform Commercial Code or other jurisdiction, including any foreign jurisdiction.

5. Representations and Warranties Concerning Company's Legal Status. The Company represents and warrants to the Lenders as follows: (a) Company's exact legal name is RuleStream Corporation; (b) the Company is a Delaware corporation; (c) the Company's chief executive office is located at 401 Edgewater Place, Suite 100, Wakefield, MA 01880; and (d) the execution, delivery and performance of this Agreement has been duly authorized by the Company by all necessary corporate and other action, will not require the consent of any third party which has not already been obtained and will not conflict with, violate the provisions of, or cause a default or constitute an event which, with the passage of time or the giving of notice or both, would cause a default on the part of the Company under its charter documents, by-laws or under any material contract (which for purposes of this Agreement shall include those contracts set forth on Section [2.13] of the Disclosure Schedule to the Convertible Grid Note and Warrant

Purchase Agreement between the Lenders and the Company dated August 11, 2004), agreement, law, rule, order, ordinance, franchise, instrument or other document.

6. Covenants Concerning Company's Legal Status. The Company covenants with the Lenders that, without providing at least thirty (30) days prior written notice to the Lenders, the Company will not change its name, its chief executive office, or its mailing address or organizational identification number if it has one and the Company will not change its type of organization, jurisdiction of organization or other legal structure.

7. Covenants Concerning Collateral, Etc. The Company covenants with the Lenders as follows: (a) the Company will permit the Lenders, or any designee, to inspect the Collateral at any reasonable time and upon reasonable prior notice, wherever located, subject to reasonable confidentiality requirements of the Company and provided that, so long as an Event of Default has not occurred, the number of such inspections shall be limited to two in any 12 month period, and (b) the Company will pay promptly when due all taxes, assessments, governmental charges and levies upon the Collateral or incurred in connection with the use or operation of the Collateral or incurred in connection with this Agreement unless the same are being contested in good faith.

8. Rights and Remedies. Upon the occurrence of an Event of Default, the Company shall immediately pay and satisfy all the Obligations. If an Event of Default shall have occurred and be continuing, the Lenders, without any other notice to or demand upon the Company, shall have in any jurisdiction in which enforcement hereof is sought, in addition to all other rights and remedies, the rights and remedies of a secured party under the Uniform Commercial Code of the State and any additional rights and remedies as may be provided to a secured party in any jurisdiction in which Collateral is located, including, without limitation, the right to take possession of the Collateral, and for that purpose the Lenders may, so far as the Company can give authority therefor, enter upon any premises on which the Collateral may be situated and remove the same therefrom. In furtherance of the foregoing, the Company hereby irrevocably constitutes and appoints the Lenders and any officer, partner, contractor, agent or legal representative thereof, with full power of substitution, as its true and lawful attorneys-in-fact with full irrevocable power and authority in the place and stead of the Company or in the Lenders' own name, for the purpose of carrying out the terms of this Agreement, to take any and all appropriate action and to execute any and all documents and instruments that may be necessary or useful to accomplish the purposes of this Agreement, provided that, without limiting the generality of the foregoing, Lenders agree not to exercise such rights unless an Event of Default is continuing. The Lenders may in their discretion require the Company to assemble all or any part of the Collateral at such location or locations within the jurisdiction of the Company's chief executive office as the Lenders may reasonably designate. Unless the Collateral is perishable or threatens to decline speedily in value or is of a type customarily sold on a recognized market, the Lenders shall give to the Company at least ten (10) business days prior written notice of the time and place of any public sale of Collateral or of the time after which any private sale or any other intended disposition is to be made. The Company hereby acknowledges that ten (10) business days prior written notice of such sale or sales shall be reasonable notice.

9. No Waiver by Lenders, etc. The Lenders shall not be deemed to have waived any of their rights or remedies in respect of the Obligations or the Collateral unless such waiver shall be in writing and signed by duly authorized representatives of Lenders who hold a majority in interest of the aggregate principal amount outstanding under the Notes; provided that such rights and remedies may be waived with the consent of less than all of the Lenders only in a manner which applies to all such Lenders in the same fashion. Any such waiver effected in accordance with this Section 9 shall be binding on all parties hereto, even if they do not execute such consent. No delay or omission on the part of the Lenders in exercising any right or remedy shall operate as a waiver of such right or remedy or any other right or remedy. A waiver on any one occasion shall not be construed as a bar to or waiver of any right or remedy on any future occasion. All rights and remedies of the Lenders with respect to the Obligations or the Collateral, whether evidenced hereby or by any other instrument or papers, shall be cumulative.

10. Proceeds of Dispositions; Expenses. The Company shall pay to the Lenders on demand any and all reasonable expenses, including reasonable attorneys' fees and disbursements, incurred or paid by the Lenders in protecting, preserving or enforcing the Lenders' rights and remedies under or in respect of any of the Obligations or any of the Collateral. After deducting all of said expenses, the residue of any proceeds of collection or sale or other disposition of Collateral shall, to the extent actually received in cash, be applied to the payment of the Obligations in such order or preference as the Lenders may reasonably determine. Upon the final payment and satisfaction in full of all of the Obligations and after making any payments required by Sections 9-608(a)(1)(C) or 9-615(a)(3) of the Uniform Commercial Code of the State (as the same may be amended), any excess shall be returned to the Company. In the absence of final payment and satisfaction in full of all of the Obligations, the Company shall be liable for any deficiency.

11. Administrative Agent. Masthead Venture Partners shall be entitled to designate a third party to act as the administrative agent with respect to the rights and obligations of the Lenders under this Agreement and, upon and during the existence of such designation, the rights granted to the Lenders shall inure to and be exercisable by such agent for and on behalf of the Lenders.

12. Marshalling. The Lenders shall not be required to marshal any present or future collateral security for, or other assurances of satisfaction of, the Obligations or resort to such collateral security or other assurances of payment in any particular order, and all of the rights and remedies of the Lenders hereunder in respect of such collateral security and other assurances of satisfaction or payment shall be cumulative and in addition to all other rights and remedies, however existing or arising. To the extent that it lawfully may, the Company hereby agrees that it will not invoke any law relating to the marshalling of collateral which might cause delay in or impede the enforcement of the Lenders' rights and remedies under this Agreement or under any other instrument creating or evidencing any of the Obligations or under which any of the Obligations is outstanding or by which any of the Obligations is secured or payment thereof is otherwise assured, and, to the extent that it lawfully may, the Company hereby irrevocably waives the benefits of all such laws.

13. Consent to Jurisdiction. The Company agrees that any action or claim arising out of any dispute in connection with this Agreement, any rights or obligations hereunder or the

performance or enforcement of such rights or obligations may be brought in the courts of the State or any federal court sitting therein and consents to the non-exclusive jurisdiction of such court and to service of process in any such suit being made upon the Company by mail at the address specified in the first paragraph of this Agreement (or such other address of which the Company has provided to the Lenders by proper notice). The Company hereby waives any objection that it may now or hereafter have to the venue of any such suit or any such court or that such suit is brought in an inconvenient court.

14. Miscellaneous. This Agreement shall be governed by and construed as an instrument under seal in accordance with the laws of the State governing contracts executed and to be performed therein, without regard to any choice of law provisions. The invalidity or unenforceability of any provision of this Agreement shall not affect the other provisions of this Agreement, but this Agreement shall be construed and reformed to the fullest extent possible. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns; *provided, however*, that the Company is prohibited from assigning any rights or obligations under this Agreement to any person or entity. Any transfer of control of substantially all of the assets or business of the Company to a third party by any means, including, without limitation, stock acquisition or merger or the license of all or substantially all assets of the Company to another person, shall be deemed to be an assignment for purposes of this Agreement. This Agreement cannot be modified or amended except by written agreement executed by the duly authorized representatives of Lenders who hold a majority in interest of the aggregate principal amount outstanding under the Notes; provided that such modification or amendment may be made with the consent of less than all of the Lenders only in a manner which applies to all such Lenders in the same fashion. The parties hereto confirm that (i) they each had the opportunity to review this Agreement with legal counsel of their own choosing and (ii) they understand the terms of, and voluntarily and knowingly execute, this Agreement with the intent of being legally bound by the terms hereof. This Agreement shall be fairly interpreted in accordance with its terms and without any strict construction against either party. Any ambiguity will not be interpreted against the drafting party. This Agreement and the agreements and other documents and instruments expressly referenced herein, when executed, constitute the entire and sole agreement among the parties and supersede(s) any prior or contemporaneous negotiations, understandings or agreements, whether oral or in writing, concerning the subject matter hereof. No term or provision hereof shall be deemed waived and no breach hereof shall be deemed consented to or excused, unless such waiver, consent or excuse shall be expressly made in writing and signed by the party claimed to have so waived, consented or excused. Should any party consent, waive or excuse a breach by another party, such consent, waiver or excuse shall not constitute a consent to, waiver of or excuse of any other different or subsequent breach, whether or not of the same kind as the original breach. The headings and captions contained in this Agreement shall not be considered to be part hereof for purposes of interpreting or applying this Agreement, but are for convenience of reference only. All notices, requests, demands and other communications required or permitted under this Agreement shall be written in English and shall be deemed to have been duly delivered if (i) delivered by hand, (ii) 5 days after they have been deposited in the United States mail, postage prepaid and registered or certified with return receipt or (iii) delivered by prepaid courier service to the address set forth on the first page of this Agreement or to such other address as any party shall hereafter notify the others, provided that notice shall only be deemed to have been delivered upon receipt. This Agreement may be executed in one or more counterparts, each of which shall


be an original and all of which, when taken together, shall constitute one and the same Agreement. Additional parties may be added to this Agreement as Lenders by (i) the execution and delivery of a counterpart to this Agreement or an agreement agreeing to be bound by the terms of this Agreement by such additional party, and (ii) the acceptance (by countersigning and delivery) thereof by the Company. Exhibit A shall be amended to reflect such additional parties.

*[Remainder of page left intentionally blank]*



IN WITNESS WHEREOF, intending to be legally bound, the Company and the Lenders have caused this Agreement to be duly executed as of the date first above written.

RULESTREAM CORPORATION

By:   
Name: Sandra W. Vredenburg  
Title: President

LENDERS:

MASTHEAD VENTURE PARTNERS CAPITAL

LP

By:

Its:

By: \_\_\_\_\_  
Name:  
Title:

HOURI MANAGEMENT LIMITED

By: \_\_\_\_\_  
Name:  
Title:

\_\_\_\_\_  
ALBERT E. QUAYE III

\_\_\_\_\_  
JAMES D. SCHLECK

IN WITNESS WHEREOF, intending to be legally bound, the Company and the Lenders have caused this Agreement to be duly executed as of the date first above written.

RULESTREAM CORPORATION

By: \_\_\_\_\_  
Name:  
Title:

LENDERS:

MASTHEAD VENTURE PARTNERS CAPITAL,

LP  
By: *Masthead SBC General Partner, LLC*  
Its: *General Partner*

By: \_\_\_\_\_  
Name: *Brian Owen*  
Title: *Managing Member*

HOURI MANAGEMENT LIMITED

By: \_\_\_\_\_  
Name:  
Title:

\_\_\_\_\_  
ALBERT E. QUAYE III

\_\_\_\_\_  
JAMES D. SCHLECK

08/11/04 WED 14:39 FAX 7812464308

RuleStream

Rul

006

10-08-2004

16:06

DE-43 BD DE LA PETRUSSE L-2320 LUXEMBOURG

+352

T-958

P.003/003

F-786

IN WITNESS WHEREOF, intending to be legally bound, the Company and the Lenders have caused this Agreement to be duly executed as of the date first above written.

COMPANY:

RULESTREAM CORPORATION

By: \_\_\_\_\_

Title: \_\_\_\_\_

MASTHEAD VENTURE PARTNERS

By:

Its:

By: \_\_\_\_\_

Name:

Title:

HOURI MANAGEMENT LIMITED

By: *Hour Management Corp, its agent*

Name: *by Vincent Goy*

Title: *President*

AL QUAVE III

JAMES SCHLECK

08/11/04 WED 14:40 FAX 7812464308

RuleStream

Rul

007

08/11/2004 08:29 8582792597

DIGITAL DIMENSIONS

PAGE 01

08/11/04 WED 11:08 FAX 7812464308

RuleStream

Rul

003

IN WITNESS WHEREOF, intending to be legally bound, the Company and the Lenders have caused this Agreement to be duly executed as of the date first above written.

RULESTREAM CORPORATION

By: \_\_\_\_\_  
Name:  
Title:

LENDERS:

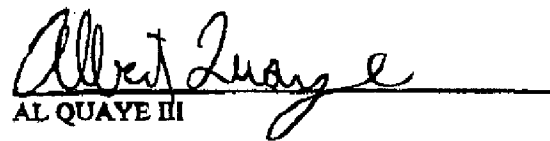
MASTHEAD VENTURE PARTNERS CAPITAL LP

By:  
Its:

By: \_\_\_\_\_  
Name:  
Title:

HOURI MANAGEMENT LIMITED

By: \_\_\_\_\_  
Name:  
Title:

  
AL QUAYE III

\_\_\_\_\_  
JAMES D. SCHLECK

IN WITNESS WHEREOF, intending to be legally bound, the Company and the Lenders have caused this Agreement to be duly executed as of the date first above written.

RULESTREAM CORPORATION

By: \_\_\_\_\_  
Name: *David W. Vredenburg*  
Title: *President*

LENDERS:

MASTHEAD VENTURE PARTNERS CAPITAL  
LP

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

HOURI MANAGEMENT LIMITED

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

\_\_\_\_\_  
ALBERT E. QUAYE III

*James D. Schleck*  
\_\_\_\_\_  
JAMES D. SCHLECK

08/11/04 WED 14:41 FAX 7812464308

RuleStream

Rul

PAGE 01 009

08/11/2004 08:29 0582792597

DIGITAL DIMENSIONS

08/11/04 WED 11:08 FAX 7812464308

RuleStream

Rul

003

[Signature Page to Security Agreement]

*Albert Ernest Quaye Jr*

ALBERT E. QUAYE JR.

*Josephine Quaye*  
JOSEPHINE D. QUAYE

Exhibit A

Lenders

Masthead Venture Partners Capital, LP  
Houri Management Limited  
Albert E. Quaye III  
James D. Schleck  
Albert E. Quaye Jr.  
Josephine D. Quaye

Exhibit BDescription of Collateral

All of the following properties, assets and rights of the Company, wherever located, whether now owned or hereafter acquired or arising, and all proceeds and products thereof:

All personal and fixture property of every kind and nature including without limitation all furniture, fixtures, equipment, raw materials, inventory, other goods, accounts, cash, contract rights, rights to the payment of money, insurance refund claims and all other insurance claims and proceeds, tort claims, chattel paper, documents, instruments, securities and other investment property, deposit accounts, rights to proceeds of letters of credit and all general intangibles including, without limitation, all tax refund claims, license fees, patents, patent applications, trademarks, trademark applications, trade names, copyrights, copyright applications, rights to sue and recover for past infringement of patents, trademarks and copyrights, computer programs, computer software, engineering drawings, service marks, customer lists, goodwill, and all licenses, permits, agreements of any kind or nature pursuant to which the Company possesses, uses or has authority to possess or use property (whether tangible or intangible) of others or others possess, use or have authority to possess or use property (whether tangible or intangible) of the Company, and all recorded data of any kind or nature, regardless of the medium of recording including, without limitation, all software, writings, plans, specifications and schematics.