

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4758897

|                                                                                                                                                                                                 |                         |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT          |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT              |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                         |                       |
|                                                                                                                                                                                                 | <b>Name</b>             | <b>Execution Date</b> |
|                                                                                                                                                                                                 | RAPTOR ACQUISITION, LLC | 07/13/2012            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                         |                       |
| <b>Name:</b>                                                                                                                                                                                    | NANT HOLDINGS IP, LLC   |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 11755 WILSHIRE BLVD     |                       |
| <b>City:</b>                                                                                                                                                                                    | LOS ANGELES             |                       |
| <b>State/Country:</b>                                                                                                                                                                           | CALIFORNIA              |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 90025                   |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                         |                       |
|                                                                                                                                                                                                 | <b>Property Type</b>    | <b>Number</b>         |
|                                                                                                                                                                                                 | Application Number:     | 15856593              |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                         |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (720)234-4351           |                       |
| <i>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.</i> |                         |                       |
| <b>Phone:</b>                                                                                                                                                                                   | 7202344351              |                       |
| <b>Email:</b>                                                                                                                                                                                   | genghiscomm@gmail.com   |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | STEVEN J SHATTIL        |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | PO BOX 17355            |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | BOULDER, COLORADO 80308 |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 000066.7US              |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | STEVEN J SHATTIL        |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Steven J Shattil/      |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 01/03/2018              |                       |
| <b>Total Attachments: 7</b>                                                                                                                                                                     |                         |                       |
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## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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|--------------------------------------------------------------------------------------|--------------------------|
| SUBMISSION TYPE:                                                                     | NEW ASSIGNMENT           |
| NATURE OF CONVEYANCE:                                                                | ASSIGNMENT               |
| CONVEYING PARTY DATA                                                                 |                          |
| Name                                                                                 | Execution Date           |
| Raptor Acquisition, LLC                                                              | 07/13/2012               |
| RECEIVING PARTY DATA                                                                 |                          |
| Name:                                                                                | Nant Holdings IP, LLC    |
| Street Address:                                                                      | 11755 Wilshire Boulevard |
| Internal Address:                                                                    | Suite 2000               |
| City:                                                                                | Los Angeles              |
| State/Country:                                                                       | CALIFORNIA               |
| Postal Code:                                                                         | 90025                    |
| PROPERTY NUMBERS Total: 1                                                            |                          |
| Property Type                                                                        | Number                   |
| Application Number:                                                                  | 13948344                 |
| CORRESPONDENCE DATA                                                                  |                          |
| Fax Number:                                                                          | 9499438358               |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> |                          |
| Phone:                                                                               | 949-943-8300             |
| Email:                                                                               | mcastro@fishiplaw.com    |
| Correspondent Name:                                                                  | FISH & ASSOCIATES, PC    |
| Address Line 1:                                                                      | 2603 Main Street         |
| Address Line 2:                                                                      | Suite 1000               |
| Address Line 4:                                                                      | Irvine, CALIFORNIA 92614 |
| ATTORNEY DOCKET NUMBER:                                                              | 023466-0017US4           |
| NAME OF SUBMITTER:                                                                   | Marutzzella Castro       |
| Signature:                                                                           | /Marutzzella Castro/     |
| Date:                                                                                | 07/23/2013               |

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**Total Attachments: 5**

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**PATENT**

**REEL: 030855 FRAME: 0733**

**PATENT**

**REEL: 044525 FRAME: 0200**

## ASSIGNMENT

WHEREAS, **Raptor Acquisition, LLC**, a limited liability company having its principal place of business at 11755 Wilshire Boulevard, Suite 2000, Los Angeles, CA 90025 (referred to hereinafter as "ASSIGNOR") has obtained by way of assignment certain IP Assets as outlined in the attached IP Schedule; which together with related good will, experimental data, trade secret, and other know-how is referred to hereinafter as the IP ASSETS;

WHEREAS, **Nant Holdings IP, LLC**, a limited liability company having its principal place of business at 11755 Wilshire Boulevard, Suite 2000, Los Angeles, CA 90025 (referred to hereinafter as "ASSIGNEE"), is desirous of acquiring entire right, title, good will and interest in, to and under said IP Assets, and in, to and under Letters Patent or similar legal protection to be, or having been, obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto the ASSIGNEE, its successors and assigns the entire title, right and interest in and to the IP ASSETS, and to all Letters Patent or similar legal protection arising therefrom, not only in the United States and its territorial possessions, but in all countries foreign thereto, to be obtained for said IP ASSETS by said application or any continuation, continuation-in-part, divisional, renewal, substitute, reissue or reexamination thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted, including all priority rights under any International Convention.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

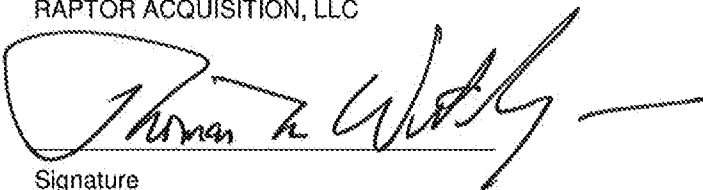
ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said IP ASSETS, including the patent applications listed therein, and any Letters Patent and legal equivalents in foreign countries issuing therefrom as may be known and accessible to ASSIGNOR, and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said IP Assets and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Expected Performance. Each party herein agrees to perform all acts and execute and deliver all documents as may be necessary or appropriate to carry out the intent and purposes of This Agreement.

ASSIGNOR acknowledge that ASSIGNEE may appoint any attorney or practitioner of ASSIGNEE'S choice to prosecute any application or other legal proceeding involving said IP Assets and ASSIGNOR further acknowledges that any attorney or practitioner so appointed by ASSIGNEE does not represent ASSIGNOR and that such appointment by ASSIGNEE does not create any attorney-client relationship between ASSIGNOR and any attorney or practitioner appointed by ASSIGNEE, in this or in any PCT or other family applications.

*See attached California Jurat*  
WITNESS my hand at \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 2012.  
(city) (state) (month)

RAPTOR ACQUISITION, LLC



Signature

THOMAS M. WITTENSCHWAEGER

Name

CEO

Title

IP SCHEDULE

|                 |                                                                      |                      |                |
|-----------------|----------------------------------------------------------------------|----------------------|----------------|
| 023466.0018PRO1 | Application Striping                                                 | Patent - Provisional | 61/079909      |
| 023466.0018US1  | Software Application Striping                                        | Patent - US          | 12/251084      |
| 023466.0018US2  | Software Application Striping                                        | Patent - US          | 12/337877      |
| 023466.0018US3  | Software Application Striping                                        | Patent - US          | 12/556263      |
| 023466.0020PRO1 | Distributed Fabric Virtualized Access Architectures                  | Patent - Provisional | 61/177950      |
| 023466.0021US   | HYBRID FABRIC                                                        | TMK - US             | 77/890844      |
| 023466.0022PRO1 | Hybrid Transport - Work Fabric                                       | Patent - Provisional | 61/285899      |
| 023466.0023PRO1 | Analysis and Deployment of Legacy Code into a Distributed Fabric     | Patent - Provisional | 61/289006      |
| 023466.0024PRO1 | Self-Optimizing Distributed Fabric Applications                      | Patent - Provisional | 61/289122      |
| 023466.0025PRO1 | Distributed Fabric Multi-Core Processor                              | Patent - Provisional | 61/289141      |
| 023466.0026US1  | Hybrid Transport - Application Network Fabric Apparatus              | Patent - US          | 12/849521      |
| 023466.0027PCT  | Vector-Based Anomaly Detection                                       | Patent - PCT         | PCT/US11/61356 |
| 023466.0027PRO  | Vector-Based Anomaly Detection                                       | Patent - Provisional | 61/415267      |
| 023466.0027US1  | Vector-Based Anomaly Detection                                       | Patent - US          | 13/024176      |
| 023466.0028PCT  | Distributed Network Interfaces for Application Cloaking and Spoofing | Patent - PCT         | PCT/US11/66225 |
| 023466.0028PRO  | Distributed Network Interfaces for Application Cloaking and Spoofing | Patent - Provisional | 61/427759      |
| 023466.0028US1  | Distributed Network Interfaces for Application Cloaking and Spoofing | Patent - US          | 13/024240      |
| 023466.0029PRO1 | Dynamic Packet Routing                                               | Patent - Provisional | 61/540932      |
| 023466.0030PRO1 | Non-overlapping Secured Topologies in a Distributed Fabric           | Patent - Provisional | 61/550055      |
| 023466.0032PRO1 | Last Mile Data Delivery Systems and Methods                          | Patent - Provisional | 61/577238      |

IP SCHEDULE

| Matter ID       | Title                                                                          | MatterType           | SerialNumber      |
|-----------------|--------------------------------------------------------------------------------|----------------------|-------------------|
| 023466.0003EP   | Switching System With Distributed Switching Fabric                             | Patent - Foreign     | EP04795050.6      |
| 023466.0003JP   | Switching System With Distributed Switching Fabric                             | Patent - Foreign     | JP2006-534473     |
| 023466.0003PCT  | Switching System With Distributed Switching Fabric                             | Patent - PCT         | PCT/US2004/033832 |
| 023466.0003US1  | Switching System With Distributed Switching Fabric                             | Patent - US          | 10/965444         |
| 023466.0003US2  | Virtual Machine Task Management System                                         | Patent - US          | 11/248710         |
| 023466.0003US3  | Time Division Multiplexing System                                              | Patent - US          | 11/248711         |
| 023466.0003US4  | Switching System For Virtual LANs                                              | Patent - US          | 11/248708         |
| 023466.0003US5  | Multiplexing System Having An Automatically Configured Topology                | Patent - US          | 11/248111         |
| 023466.0003US6  | VLAN Fabric Network                                                            | Patent - US          | 11/248639         |
| 023466.0003US7  | Multiplexing System That Supports A Geographically Distributed Subnet          | Patent - US          | 11/248707         |
| 023466.0003US8  | Switching System With Distributed Switching Fabric                             | Patent - US          | 11/610281         |
| 023466.0004PRO1 | Switching Network With Rapidly Migrating Manager                               | Patent - Provisional | 61/013852         |
| 023466.0005PRO1 | Network Management through Non-Interfering Communications, Systems and Methods | Patent - Provisional | 61/014306         |
| 023466.0006PRO1 | Secure and Agile Network Management Communications, Systems and Methods        | Patent - Provisional | 61/014367         |
| 023466.0007PRO1 | Network Fabric Management Channels                                             | Patent - Provisional | 61/023004         |
| 023466.0008PRO1 | Distributed Bus for Computing and Storage                                      | Patent - Provisional | 61/026415         |
| 023466.0009PRO1 | Distributed Network Gateway                                                    | Patent - Provisional | 61/026437         |
| 023466.0010PRO1 | Network Fabric Having Split Management Functions                               | Patent - Provisional | 61/024842         |
| 023466.0012PRO1 | In-line, Parallel Encryption through a Fabric                                  | Patent - Provisional | 61/032656         |
| 023466.0013PRO1 | Computation Transport Fabric                                                   | Patent - Provisional | 61/038380         |
| 023466.0014US1  | Disaggregated Network Management                                               | Patent - US          | 12/120024         |
| 023466.0015US1  | Distributed Computing Bus                                                      | Patent - US          | 12/122018         |
| 023466.0015US2  | Distributed Computing Bus                                                      | Patent - US          | 13/042359         |
| 023466.0016US1  | Secure Communication through a Network Fabric                                  | Patent - US          | 12/146325         |
| 023466.0017PRO1 | Contiguous Earth-Space Transport Fabric                                        | Patent - Provisional | 61/079892         |
| 023466.0017US1  | Surface-Space Managed Network Fabric                                           | Patent - US          | 12/250342         |
| 023466.0017US2  | Surface-Space Managed Network Fabric                                           | Patent - US          | 12/552186         |
| 023466.0017US3  | Backhaul Fabric for Wireless Network                                           | Patent - US          | 13/453857         |

PATENT

REEL: 034825 FRAME: 0204

# CALIFORNIA JURAT WITH AFFIANT STATEMENT

- ☒ See Attached Document (Notary to cross out lines 1-6 below)  
☐ See Statement Below (Lines 1-6 to be completed only by document signer[s], *not* Notary)

1 \_\_\_\_\_  
2 \_\_\_\_\_  
3 \_\_\_\_\_  
4 \_\_\_\_\_  
5 \_\_\_\_\_  
6 \_\_\_\_\_

Signature of Document Signer No. 1 \_\_\_\_\_ Signature of Document Signer No. 2 (if any) \_\_\_\_\_

State of California

County of Los Angeles

Subscribed and sworn to (or affirmed) before me

on this 13<sup>th</sup> day of July, 2012  
Date Month Year

by

(1) Thomas M. Wittenschlaeger  
Name of Signer

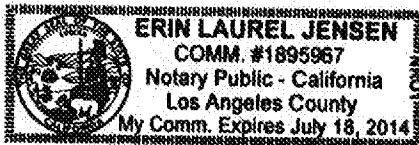
proved to me on the basis of satisfactory evidence  
to be the person who appeared before me (.) (.)

(and

(2) \_\_\_\_\_  
Name of Signer

proved to me on the basis of satisfactory evidence  
to be the person who appeared before me.)

Signature [Signature]  
Signature of Notary Public



Place Notary Seal Above

## OPTIONAL

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

### Further Description of Any Attached Document

Title or Type of Document: \_\_\_\_\_

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

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RIGHT THUMBPRINT  
OF SIGNER #1  
Top of thumb here

RIGHT THUMBPRINT  
OF SIGNER #2  
Top of thumb here