PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHAKRAVARTHI CHIGURAPATI	10/31/2017
PAWAN UBEROY	10/31/2017
SOMNATH MANI	10/31/2017
PRAVEEN MADHAV	10/31/2017

RECEIVING PARTY DATA

Name:	TELLABS OPERATIONS INC.
Street Address:	1415 WEST DIEHL ROAD
City:	NAPERVILLE
State/Country:	ILLINOIS
Postal Code:	60563

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15799825

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ATTORNEY DOCKET NUMBER:	1057.P0054D2
NAME OF SUBMITTER:	JAMES M. WU
SIGNATURE:	/James M. Wu/
DATE SIGNED:	10/31/2017

Total Attachments: 6
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source=2014_05_29_1057_P0054D1_Assignment_partially_executed#page2.tif

ASSIGNMENT

WHEREAS, we,

Chakravarthi Chigurapti, a citizen of United States of America, residing at 818 E.

    Meadow Dr., Palo Alto, CA, 94301, USA,

Pawan Uberoy, a citizen of United States of America, residing at 1819 Montage Court,

    San Jose, CA, 95131, USA,

Somnath Mani, a citizen of United States of America, residing at 983 East River Pkwy.,

    Santa Clara, CA, 95054, USA,

Praveen Madhav, a citizen of, United States of America, residing at 1456 Miller Ave.,

    San Jose, CA, 95129, USA

Duncan Stuart Ritchie, a citizen of Canada, residing at RR #1-U4, Bowen Island, British

    Columbia, V0N 1G0, Canada, and

Sebastian Sapa, a citizen of Canada, residing at #301 – 2121 Alma St., Vancouver,

    British Columbia, V6R 3R1, Canada

have made an invention in:

METHODS AND APPARATUS FOR IMPROVING RELIABILITY OF POINT-TO-POINT NETWORK CONNECTION

for which we have executed application papers for a U.S. patent thereon; and

    WHEREAS, Tellabs Operations, Inc., a Delaware Corporation, having a place of

business located at 1415 West Diehl Road, Naperville, IL 60563, USA, is desirous of

acquiring the exclusive right, title and interest in and to said invention and in and to the

Letters Patent to be granted and issued therefore in the United States of America and its

territories and possessions, and all countries foreign thereto;

1

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, we, Chakravarthi Chigurapti, Pawan Uberoy, Somnath Mani, Praveen Madhav, Duncan Stuart Ritchie, and Sebastian Sapa, do sell, assign, transfer and set over unto the said Tellabs Operations, Inc., its successors and assigns the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefore, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Tellabs Operations, Inc., its successors and assigns, in accordance with this Assignment. IN TESTIMONY WHEREOF, we have hereunto signed our names on the date indicated hereinafter:

Re: U.S. Patent Application entitled:

METHODS AND APPARATUS FOR PERFORMING IN-SERVICE SOFTWARE UPGRADE FOR A NETWORK DEVICE USING SYSTEM VIRTUALIZATION

1) Inventor: **Chakravarthi S. Chigurupati**

Signature: _____   Date: 5/17/2012
Chakravarthi S. Chigurupati

Witness: _____   Date: 5|17|2012

Witness: _____   Date: 5/17/12

2) Inventor: **Pawan Uberoy**

Signature: _____   Date: 5/17/12
Pawan Uberoy

Witness: _____   Date: 5|17|2012

Witness: _____   Date: 5/17/2012

3) Inventor: **Somnath Mani**

Signature: _____   Date: _____
Somnath Mani

Witness: _____   Date: _____

Witness: _____   Date: _____

Re: U.S. Patent Application entitled:

METHODS AND APPARATUS FOR PERFORMING IN-SERVICE SOFTWARE UPGRADE FOR A NETWORK DEVICE USING SYSTEM VIRTUALIZATION

1) Inventor: **Chakravarthi S. Chigurupati**

Signature: _____   Date: _____
            Chakravarthi S. Chigurupati

Witness: _____   Date: _____

Witness: _____   Date: _____

2) Inventor: **Pawan Uberoy**

Signature: _____   Date: _____
            Pawan Uberoy

Witness: _____   Date: _____

Witness: _____   Date: _____

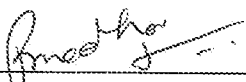3) Inventor: **Somnath Mani**

Signature: _____   Date: 06/05/2012
            Somnath Mani

Witness: _____   Date: 6/5/12

Witness: _____   Date: 6/5/12

3

4) Inventor: **Praveen Madhav**

Signature: _____ Date: 5|17|2012
          Praveen Madhav

Witness: _____ Date: 5|17|12

Witness: _____ Date: 5|17|2012

5) Inventor: **Duncan Stuart Ritchie**

Signature: _____ Date: _____
          Duncan Stuart Ritchie

Witness: _____ Date: _____

Witness: _____ Date: _____

6) Inventor: **Sebastian Sapa**

Signature: _____ Date: _____
          Sebastian Sapa

Witness: _____ Date: _____

Witness: _____ Date: _____

4

4) Inventor: **Praveen Madhav**

Signature: _____   Date: _____
          Praveen Madhav

Witness: _____   Date: _____

Witness: _____   Date: _____

5) Inventor: **Duncan Stuart Ritchie**

Signature: _____   Date: _____
          Duncan Stuart Ritchie

Witness: _____   Date: _____

Witness: _____   Date: _____

6) Inventor: **Sebastian Sapa**

Signature: _____   Date: 30/5/2012
          Sebastian Sapa

Witness: _____ James Pang _____ Date: 30/5/2012

Witness: _____ HONGGANG X Date: 30/5/2012

4