

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3124261

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
CORIAN T OPERATIONS, INC. (FORMERLY KNOWN AS TELLABS OPERATIONS, INC.)	11/26/2014
WICHORUS, LLC (FORMERLY KNOWN AS WICHORUS, INC.)	11/26/2014

**RECEIVING PARTY DATA**

<b>Name:</b>	CERBERUS BUSINESS FINANCE, LLC, AS THE COLLATERAL AGENT
<b>Street Address:</b>	875 THIRD AVENUE
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10022

**PROPERTY NUMBERS Total: 44**

Property Type	Number
Application Number:	14387451
Application Number:	14467578
Application Number:	14457765
Application Number:	14334816
Application Number:	14310764
Application Number:	14187080
Application Number:	14179473
Application Number:	14177514
Application Number:	61933797
Application Number:	61928695
Application Number:	14153597
Application Number:	14146414
Application Number:	14146519
Application Number:	14140813
Application Number:	14101763
Application Number:	14078361
Application Number:	14073233
Application Number:	14055100
Application Number:	14038240

**PATENT**

Property Type	Number
Application Number:	14018275
Application Number:	61869905
Application Number:	13967759
Application Number:	13953289
Application Number:	13945847
Patent Number:	8782632
Application Number:	14177085
Application Number:	13231610
Application Number:	14143853
Patent Number:	8811344
Application Number:	13330507
Patent Number:	8804494
Application Number:	14290139
Patent Number:	8619799
Application Number:	14143550
Application Number:	13301578
Patent Number:	8767754
Application Number:	14144346
Application Number:	13439101
Application Number:	13607218
Application Number:	13556051
Application Number:	13791271
Application Number:	13791539
Application Number:	13546435
Application Number:	13671436

#### **CORRESPONDENCE DATA**

**Fax Number:** (312)863-7806

*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:** 312-863-7198

**Email:** nancy.brougher@goldbergkohn.com

**Correspondent Name:** NANCY BROUGHER, PARALEGAL

**Address Line 1:** GOLDBERG KOHN LTD.

**Address Line 2:** 55 EAST MONROE STREET, SUITE 3300

**Address Line 4:** CHICAGO, ILLINOIS 60603

<b>ATTORNEY DOCKET NUMBER:</b>	7124.003
<b>NAME OF SUBMITTER:</b>	NANCY BROUGHER
<b>SIGNATURE:</b>	/njb/
<b>DATE SIGNED:</b>	11/26/2014

**PATENT**

**REEL: 034268 FRAME: 0947**

**Total Attachments: 6**

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## ASSIGNMENT FOR SECURITY - - PATENTS

THIS ASSIGNMENT FOR SECURITY - - PATENTS made as of this 26th day of November, 2014 and effective as of December 3, 2013, by CORIANT OPERATIONS, INC. (formerly known as Tellabs Operations, Inc.), a Delaware corporation ("Operations"), and WICHORUS, LLC (formerly known as WiChorus, Inc.), a Delaware limited liability company ("WiChorus"; together with Operations, each an "Assignor" and collectively the "Assignors"), in favor of Cerberus Business Finance, LLC, as the Collateral Agent for itself and certain lenders (in such capacity, together with its successors and assigns, if any, the "Assignee");

### WITNESSETH

WHEREAS, each Assignor respectively holds all right, title and interest in the letter patents, design patents and utility patents listed on the attached Schedule A, which patents are issued or applied for in the United States Patent and Trademark Office (the "Patents");

WHEREAS, each Assignor has entered into a Pledge and Security Agreement, dated December 3, 2013 (as amended, restated, supplemented, modified or otherwise changed from time to time, the "Security Agreement"), in favor of Assignee; and

WHEREAS, pursuant to the Security Agreement, each Assignor has pledged to the Assignee and granted to the Assignee for the benefit of the Secured Parties (as defined in the Security Agreement) a continuing security interest in all right, title and interest of such Assignor in, to and under the Patents and the applications and registrations thereof, and all proceeds thereof, including, without limitation, any and all causes of action which may exist by reason of infringement thereof and any and all damages arising from past, present and future violations thereof (the "Collateral"), to secure the payment, performance and observance of the Secured Obligations (as defined in the Security Agreement);

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Assignor does hereby pledge and grant to the Assignee for the benefit of the Assignee and the Lenders a continuing security interest in the Collateral to secure the prompt payment, performance and observance of the Secured Obligations.

All capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement.

Each Assignor does hereby further acknowledge and affirm that the rights and remedies of the Assignee with respect to the Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event that any provision of this Assignment is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

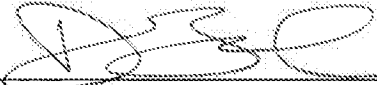
This Assignment may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Delivery of

an executed counterpart by facsimile or electronic mail shall be equally effective as delivery of an original executed counterpart.


*[Remainder of page intentionally left blank]*

IN WITNESS WHEREOF, each Assignor has caused this Assignment to be duly executed by its officer thereunto duly authorized as of the date first written above.

CORIAN T OPERATIONS, INC. (f/k/a Tellabs  
Operations, Inc.)

By:   
Name: Doug Bayerd  
Title: Executive Vice President

WICHORUS, LLC (f/k/a WiChorus, Inc.)

By:   
Name: Doug Bayerd  
Title: Executive Vice President

**SCHEDULE A  
TO  
ASSIGNMENT FOR SECURITY**

**Coriant Operations, Inc. (f/k/a Tellabs Operations, Inc.) U.S. Patent Filings  
Supplementary**

<b>App. Number</b>	<b>Filing Date</b>	<b>Title</b>
14/387451	23-Sep-2014	A method to fix heat-sink for optical module such as SFP,XFP etc.
14/467578	25-Aug-2014	Methods and Systems of Intranodal Fiber Management in a Route and Select ROADM with Colorless-Directionless-Contentionless Add/Drops
14/457765	12-Aug-2014	Method for ADM (Add Drop Mux) with constrained bandwidth between paired modules
14/334816	18-Jul-2014	m&a for coordinating nested protection/restoration schemes for more or more layers/domains Filed as: METHOD AND APPARATUS FOR COORDINATING FAULT RECOVERY TECHNIQUES AMONG DOMAINS
14/310764	20-Jun-2014	Automatic Configuration Detection Mechanism
14/187080	21-Feb-2014	PROCEDURES, APPARATUSES, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR MICROWAVE THROUGHPUT FEEDBACK AND NETWORK ACTION USING SOFTWARE DEFINED NETWORKING (disclosure title - Microwave throughput feedback and network action using SDN)
14/179473	12-Feb-2014	Procedure, Apparatus, and Computer Program for Reducing a Probability of Fragmentation when Supporting Virtual Concatenation (VCAT) Services)
14/177514	11-Feb-2014	methods to improve the reliability of web analytics data
61/933797	30-Jan-2014	Method and Apparatus for facilitating compatibility between communication networks
61/928695	17-Jan-2014	Intra Nodal Optical Test Channel for Configuration Discovery and Interconnect Diagnostics in an Optical Node
14/153597	13-Jan-2014	methods for communicating fec mode & alarming mismatch
14/146414	02-Jan-2014	Data collection of AMR (Automatic Meter Reading) to support Smart Power Grid Technology
14/146519	02-Jan-2014	G.8031 and VPLS Inter-working
14/140813	26-Dec-2013	System defensiveness design for administratively requested reroute operation that could lead to traffic hit to end customer
14/101763	10-Dec-2013	a bandwidth efficient self-healing ring
14/078361	12-Nov-2013	Methods and Apparatus for Providing Network Interface Using Optical Network Terminal ("ONT") Plug
14/073233	06-Nov-2013	PROCEDURES, APPARATUSES, SYSTEMS, AND COMPUTER PROGRAMS FOR PROVIDING OPTICAL NETWORK CHANNEL PROTECTION
14/055100	16-Oct-2013	reverse notification tree for data networks (non-prov.)
14/038240	26-Sep-2013	Rapid recovery method for incomplete broadcasted file

		downloads over unreliable transfer protocol.
14/018275	04-Sep-2013	Method And Apparatus For Provisioning A Network Element
61/869905	26-Aug-2013	Systems and Methods of Intranodal Fiber Management in a Route and Select ROADM with Colorless-Directionless-Contentionless Add/Drops
13/967759	15-Aug-2013	Pluggable Fiber Broadband to High Speed PC Interface Converter
13/953289	29-Jul-2013	Method and Apparatus for Providing Alarms in Networks
13/945847	18-Jul-2013	a/method for symbol alignment in a multi-point OFDM/DMT digital communications system

**Coriant Operations, Inc. (f/k/a Tellabs Operations, Inc.) U.S. Patents**

App. Number	Pat. Number	Filing Date	Issue Date	Title
13/526038	8782632	18-Jun-2012	15-Jul-2014	m&a for performing in service upgrade or downgrade of a networking device using virtualization technology and other high-availability methods

**WiChorus U.S. Patents**

App. Number	Pat. Number	Filing Date	Issue Date	Title
14/177085		10-Feb-2014		Apparatus and Method for Controlling Traffic Flow in Backhaul Link in Wireless Communication Network
13/231610		13-Sep-2011		tool to help reduce Click Fraud in Mobile Advertising with Mobile Operator Analytics (discl title) M&A for Authenticating Identity of Web Access from a Network Element (app title)
14/143853		30-Dec-2013		tool to help reduce Click Fraud in Mobile Advertising with Mobile Operator Analytics (discl title)
13/355002	8811344	20-Jan-2012	19-Aug-2014	efficient mechanism of sequence # assignmt & load distrib of local initiated GTP-C messages in a high performance, high capacity multi-slot LTE/GGSN gateway
13/330507		19-Dec-2011		minimizing the hit to data path during the microcode upgrade of a non-redundant network processor
13/439268	8804494	04-Apr-2012	12-Aug-2014	Using virtual instances to do geographical redundancy for routers, packet cores or subscriber management boxes.

14/290139		29-May-2014		m&a for performing in service upgrade or downgrade of a networking device using virtualization technology and other high-availability methods
13/287888	8619799	02-Nov-2011	31-Dec-2013	Methods and Apparatus for Improving Idle Mode Performance Using Deep Packet Inspection (DPI) Idle Mode Agent
14/143550		30-Dec-2013		Methods and Apparatus for Improving Idle Mode Performance Using Deep Packet Inspection (DPI) Idle Mode Agent
13/301578		21-Nov-2011		technique for efficient and scalable prefix filtering for IMSI-Prefix/MCC/MNC filtering applications
13/453754	8767754	23-Apr-2012	01-Jul-2014	Methods and Apparatus for Providing Distributed Load Balancing of Subscriber Sessions in a Multi-Slot Gateway
14/144346		30-Dec-2013		Methods and Apparatus for Providing Distributed Load Balancing of Subscriber Sessions in a Multi-Slot Gateway
13/439101		04-Apr-2012		m&a for efficiently putting packets into cells (cell packing)
13/607218		07-Sep-2012		m&a for nearly instantaneous transfer of an inmemory file system between virtual machines w/o any performance penalty or data loss.
13/556051		23-Jul-2012		Method and Apparatus for delivering targeted advertising for radio listeners
13/791271		08-Mar-2013		DPI Assisted WLAN Traffic Offload
13/791539		08-Mar-2013		An LTE Enhanced Packet Core Architecture based on OpenFlow and Software Defined Networking Concepts
13/546435		11-Jul-2012		Methods and Apparatus for Enabling Smarter Automation Test Scripts using XML based CLI Show Outputs
13/671436		07-Nov-2012		Providing diagnostic information in a SNMP Response to enable easier debugging of provisioning failures