

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7017964

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
STEVEN M. CASEY	11/11/2020
FELIPE CASTRO	11/08/2021
STEPHEN OPFERMAN	11/21/2020
KEVIN M. MCBRIDE	11/02/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CENTURYLINK INTELLECTUAL PROPERTY LLC
<b>Street Address:</b>	1025 ELDORADO BOULEVARD
<b>City:</b>	BROOMFIELD
<b>State/Country:</b>	COLORADO
<b>Postal Code:</b>	80021
<b>PROPERTY NUMBERS Total: 6</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	62931538
Application Number:	17090369
Application Number:	17090387
Application Number:	17090408
Application Number:	17090421
PCT Number:	US2020059162
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(626)577-8800
<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>	6267959900
<b>Email:</b>	patent.docketing@lumen.com
<b>Correspondent Name:</b>	GREGORY D. LEIBOLD
<b>Address Line 1:</b>	LEWIS ROCA ROTHGERBER CHRISTIE LLP
<b>Address Line 2:</b>	PO BOX 29001
<b>Address Line 4:</b>	GLENDALE, CALIFORNIA 91209-9001
<b>ATTORNEY DOCKET NUMBER:</b>	1545
<b>NAME OF SUBMITTER:</b>	GREGORY D. LEIBOLD

PATENT

<b>SIGNATURE:</b>	/Gregory D. Leibold/
<b>DATE SIGNED:</b>	11/10/2021
<b>Total Attachments: 16</b> source=COMBINED-SIGNED-ASSIGNMENT-1545#page1.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page2.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page3.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page4.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page5.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page6.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page7.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page8.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page9.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page10.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page11.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page12.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page13.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page14.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page15.tif source=COMBINED-SIGNED-ASSIGNMENT-1545#page16.tif	

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## ASSIGNMENT

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### PARTIES TO THE ASSIGNMENT:

#### Assignors/Inventors:

Name of Assignor: Steven M. Casey  
City and State of Residence: Littleton, CO

Name of Assignor: Felipe Castro  
City and State of Residence: Erie, CO

Name of Assignor: Stephen Opferman  
City and State of Residence: Denver, CO

Name of Assignor: Kevin M. McBride  
City and State of Residence: Littleton, CO

#### Assignee:

CenturyLink Intellectual Property LLC  
1025 Eldorado Boulevard  
Broomfield, Colorado 80021

### PATENT APPLICATIONS SUBJECT TO THE ASSIGNMENT (the "Applications"):

U.S. Provisional Application No.: 62/931,538  
Filing Date: November 6, 2019  
Title: PREDICTIVE RESOURCE ALLOCATION IN AN EDGE COMPUTING  
NETWORK  
Attorney Docket No. 1545-US-P1

U.S. Nonprovisional Patent Application No.: 17/090,369  
Filing Date: November 5, 2020  
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Attorney Docket No. 1545-US-U2

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Attorney Docket No. 1545-US-U3

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Attorney Docket No. 1545-US-U4

PCT Application No.: PCT/US20/59162  
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Title: PREDICTIVE RESOURCE ALLOCATION IN AN EDGE COMPUTING  
NETWORK  
Attorney Docket No. 1545-WO-U1

WHEREAS, Assignors have invented certain new and useful inventions (the "Invention") for which the Applications have been prepared for filing with the United States Patent and Trademark Office.

NOW THEREFORE, for good and valuable consideration including at least US\$1, the receipt and sufficiency of which is acknowledged, Assignors have agreed to assign and transfer and do hereby assign and transfer unto the Assignee identified above, its successors and assigns, the entire right, title, and interest in and to said invention and the Applications, including any provisional application or non-provisional application to which the Applications claim priority, in and to any United States of America and foreign applications that claim priority to any of the Applications, Patent Cooperation Treaty applications claiming priority to the Applications or including the same docketing prefix of 1545 and any national phase applications or patents claiming priority to such Patent Cooperation Treaty applications, convention applications, treaty applications, and regional applications, any divisional or continuation (in whole or in part) of the Applications, and in and to any and all improvements in the Invention made by Assignors (provided any such improvement is made during, or within one year after the termination of the employment of Assignors by Assignee), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in the United States of America and all foreign countries in its own name and any priority rights for such United States of America and foreign applications to which such applications or Assignors are entitled under international conventions, treaties, or otherwise which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, and any and all rights to collect past damages for infringement of any and all Letters Patent of the United States and countries and regions foreign thereto which may be published, to be held and enjoyed as fully and exclusively as they would have been by the Assignors had this assignment and transfer not been made;

Assignors further agree for Assignors and for Assignors' heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as Assignors lawfully may, that may be deemed necessary by said Assignee, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid to obtain to maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

Assignors hereby authorize Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the title, application number and filing date of the Applications once known;

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Assignors hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the Applications, to Assignee, as the assignee of the entire right, title, and interest therein.

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Date: 11/11/20

By:   
Steven M. Casey

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Felipe Castro

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Stephen Opferman

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Kevin M. McBride

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#### Assignors/Inventors:

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City and State of Residence: Littleton, CO

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City and State of Residence: Erie, CO

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Attorney Docket No. 1545-US-U4

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Date: \_\_\_\_\_

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Steven M. Casey

Date: 11/08/21

By: 

Felipe Castro

Date: \_\_\_\_\_

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

Stephen Opferman

Date: \_\_\_\_\_

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

Kevin M. McBride

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## ASSIGNMENT

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City and State of Residence: Littleton, CO

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U.S. Nonprovisional Patent Application No.: 17/090,421

Filing Date: November 5, 2020

Title: PREDICTIVE RESOURCE ALLOCATION IN AN EDGE COMPUTING  
NETWORK UTILIZING BEACONS

Attorney Docket No. 1545-US-U4

PCT Application No.: PCT/US20/59162

Filing Date: November 5, 2020

Title: PREDICTIVE RESOURCE ALLOCATION IN AN EDGE COMPUTING  
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Attorney Docket No. 1545-WO-U1

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Stephen Opferman

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

Kevin M. McBride

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#### Assignors/Inventors:

Name of Assignor: Steven M. Casey  
City and State of Residence: Littleton, CO

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