

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignee's legal name previously recorded on Reel 022535 Frame 0407. Assignor(s) hereby confirms the Assignment to ARRIS Group, Inc.										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>William T. Hanks</td> <td>04/01/2009</td> </tr> </tbody> </table>		Name	Execution Date	William T. Hanks	04/01/2009						
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William T. Hanks	04/01/2009										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>ARRIS Group, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>3871 Lakefield Drive</td> </tr> <tr> <td>City:</td> <td>Suwanee</td> </tr> <tr> <td>State/Country:</td> <td>GEORGIA</td> </tr> <tr> <td>Postal Code:</td> <td>30024</td> </tr> </table>		Name:	ARRIS Group, Inc.	Street Address:	3871 Lakefield Drive	City:	Suwanee	State/Country:	GEORGIA	Postal Code:	30024
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12416955</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12416955						
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CORRESPONDENCE DATA											
<p>Fax Number: 6784738095  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 678-473-8593        Email: denise.motley@arrisi.com        Correspondent Name: Denise Motley        Address Line 1: 3871 Lakefield Drive        Address Line 4: Suwanee, GEORGIA 30024</p>											
ATTORNEY DOCKET NUMBER:	7204 LEGAL										
NAME OF SUBMITTER:	Denise Motley										
<p>Total Attachments: 5        source=130129 Corr Assign filed 7204#page1.tif        source=130129 Corr Assign filed 7204#page2.tif        source=130129 Corr Assign filed 7204#page3.tif        source=130129 Corr Assign filed 7204#page4.tif        source=130129 Corr Assign filed 7204#page5.tif</p>											

CH \$40.00 12416955

TO: CHARLES A. MIRHO COMPANY: PO BOX 890

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

\*500832594A\*

APRIL 15, 2009

PTAS

CHARLES A. MIRHO  
PO BOX 890  
VANCOUVER, WA 98666-0890UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 04/10/2009

REEL/FRAME: 022535/0407

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: FSP0532

ASSIGNOR:

HANKS, WILLIAM T.

DOC DATE: 04/01/2009

ASSIGNEE:

ARRIS

3871 LAKEFIELD DRIVE  
SUWANEE, GEORGIA 30024

SERIAL NUMBER: 12416955

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: CMTS PLANT TOPOLOGY FAULT MANAGEMENT

TO: CHARLES A. MIRHO COMPANY: PO BOX 890

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ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

TO: CHARLES A. MIRHO COMPANY: PO BOX 890

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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**04/10/2009**  
**500832594**

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
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**CONVEYING PARTY DATA**

Name	Execution Date
William T. Hanks	04/01/2009

**RECEIVING PARTY DATA**

<b>Name:</b>	ARRIS
<b>Street Address:</b>	3871 Lakefield Drive
<b>City:</b>	Suwanee
<b>State/Country:</b>	GEORGIA
<b>Postal Code:</b>	30024

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	12416955

**CORRESPONDENCE DATA**

Fax Number: (360)294-6426  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 360-737-1748  
 Email: patents@fspllc.com  
 Correspondent Name: Charles A. Mirho  
 Address Line 1: PO Box 890  
 Address Line 4: Vancouver, WASHINGTON 98666-0890

<b>ATTORNEY DOCKET NUMBER:</b>	FSP0532
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<b>NAME OF SUBMITTER:</b>	Charles A.Mirho
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**Total Attachments: 2**  
 source=Assignment FSP0532 04-03-09#page1.tif  
 source=Assignment FSP0532 04-03-09#page2.tif

CH \$40.00 12416955

**ASSIGNMENT  
TO  
ARRIS Group, Inc.**

of invention rights in the subject matter of the patent application entitled

**CMTS PLANT TOPOLOGY FAULT MANAGEMENT**

Attorney Docket Number: FSP0532  
 Title: CMTS PLANT TOPOLOGY FAULT MANAGEMENT  
 First Named Inventor: Hanks, William T.  
 Application number: 12/416,955

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For good and valuable consideration, the receipt of which is hereby acknowledged, I,

William T. Hanks

hereby sell, assign, and transfer to

ARRIS Group, Inc. (hereinafter "ARRIS")

having a principal place of business at

3871 Lakefield Drive  
 Suwanee, GA, 30024, USA

and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the application for the United States patent referenced above, entitled

**CMTS PLANT TOPOLOGY FAULT MANAGEMENT**

,and to the following applications that claim priority to or derive priority from the application referenced by number herein

\_\_\_\_\_ (authority is hereby granted for ARRIS or its legal representative to later fill in the application number of the above-referenced patent application or any patent application claiming priority to the above-referenced patent application),

and in and to said application and all divisional, continuing, continuation-in-part, substitute, renewal, reissue, national stage, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements;

and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority resulting from the filing of said United States application.

I,  
William T. Hanks,

further agree that ARRIS may apply for and receive a patent or patents for said inventions and improvements in its own name, and that, when requested, without charge to, but at the expense of, ARRIS, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, I will:

- 1) execute all divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers,
- 2) communicate to ARRIS, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof,
- 3) generally assist ARRIS, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in ARRIS, its successors, assigns, and legal representatives,

I,  
William T. Hanks,

covenant, declare, and affirm to ARRIS, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

Signature of William T. Hanks William T. Hanks Date 4/1/09

PATENT

RECORDED: 01/29/2013

REEL: 029710 FRAME: 0304