

**UNITED STATES PATENT AND TRADEMARK OFFICE**

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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ARRIS GROUP, INC.  
Petitioner

v.

TQ DELTA, LLC  
Patent Owner

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Case No.: Unassigned

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**POWER OF ATTORNEY**

Mail Stop PATENT BOARD  
Patent Trial and Appeal Board  
United States Patent and Trademark Office  
PO Box 1450  
Alexandria, Virginia 22313-1450  
*Submitted Electronically via the Patent Review Processing System*

*Inter Partes Review of Patent No. 7,835,430*

Pursuant to 37 C.F.R. 42.10(b), Patent Owner, ARRIS GROUP, INC., hereby appoints the following lead and back-up counsel to prosecute and transact all business before the Patent Trial & Appeal Board of the United States Patent and Trademark Office connected with a Petition for *Inter Partes* Review of U.S. Patent No. 7,835,430 entitled “Multicarrier Modulation Messaging for Frequency Domain Received Idle Channel Noise Information” in which, TQ DELTA, LLC has ownership interest:

**LEAD COUNSEL**

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The undersigned is authorized to sign this Power of Attorney on behalf of Patent Owner, ARRIS GROUP, INC.

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

*Jan. 7, 2016*

*Robert J. Starr*

Name: Bob Starr

Title: Senior Patent Counsel for  
ARRIS GROUP, INC.