Filed on behalf of TQ Delta LLC

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By: Peter J. McAndrews McAndrews, Held & Malloy, Ltd. 500 W. Madison St., 34th Floor Chicago, IL 60661 Tel: 312-775-8000 Fax: 312-775-8100 E-mail: pmcandrews@mcandrews-ip.com

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CISCO SYSTEMS, INC. and ARRIS GROUP, INC., Petitioner,

v.

TQ DELTA, LLC, Patent Owner.

Case IPR2016-01007¹ Patent No. 8,432,956 B2

PATENT OWNER'S OBJECTIONS TO PETITIONERS' DEMONSTRATIVES

¹ ARRIS Group, Inc., who filed a Petition in IPR2017-00422, has been joined in this proceeding.

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Patent Owner TQ Delta, LLC ("Patent Owner") submits the below objections to Petitioners' demonstrative exhibits. A copy of the objected-to portions of the demonstratives is attached hereto as Exhibit A.

• Slide 5 – The statement "PO Expert, Dr. Short" is a mischaracterization of the record, or at the very least misleading, because Dr. Short is not Patent Owner's expert in any of IPR2016-01006, -1007, -1008, or -1009 which are the subject of this hearing; he is an expert in an unrelated proceeding and his cited hearsay testimony is a subject of Patent Owner's Motion to Exclude.

• Slide 12 – The statement in the heading that "Patent Owner's expert admits that 'power spectral density' represents 'power level'" is not supported by the quoted testimony (i.e., Dr. Chrissan's testimony that "if you integrated the power spectral density" then "you would have a measure of power"), because Dr. Chrissan was not specifically asked, nor did he answer, that power spectral density "represents" power level.

• Slide 41 – The statement highlighted by Petitioners that "Another motivation provided in the Petition—also ignored by TQ Delta—was to 'make Milbrandt's system compliant with the ANSI T1.413 standard" misrepresents the record, because Patent Owner did not ignore that alleged motivation, addressing it at pages 6 and 30-31 of its Preliminary Response and pages 20-21 of its Response.

Patent Owner's Objections to Petitioners' Demonstratives IPR2016-01007 Patent No. 8,432,956

• Slide 5 – Patent Owner maintains its objection to the improper new Reply argument and evidence cited in this slide (the entirety of the slide), which was identified in Patent Owner's Listing of Improper Reply / New Argument and Evidence (Paper 21).

• Slide 21 – Patent Owner maintains its objection to the improper new Reply argument and evidence cited in this slide (new expert testimony that "an array of SNR margin test parameters would in fact represent SNR per subchannel"), which was identified in Patent Owner's Listing of Improper Reply / New Argument and Evidence (Paper 21).

• Slide 33 - Patent Owner maintains its objection to the improper new Reply argument and evidence cited in this slide (the entire slide regarding Milbrandt's alleged inability to "allow for readily assessing system interactions" by distinguishing different noise sources) which was identified in Patent Owner's Listing of Improper Reply / New Argument and Evidence (Paper 21).

• Slide 38 - Patent Owner maintains its objection to the improper new Reply argument and evidence cited in this slide (new expert testimony that "[a] POSITA would have understood that the aggregate includes individual values for each of sub-carriers" and a new figure from new Exhibit 1009), which were identified in Patent Owner's Listing of Improper Reply / New Argument and Patent Owner's Objections to Petitioners' Demonstratives IPR2016-01007 Patent No. 8,432,956

Evidence (Paper 21).

• Slide 42 - Patent Owner maintains its objection to the improper new Reply argument and evidence cited in this slide (new expert testimony that "a POSITA would have measured the PSD based on Reverb to understand the changes over the frequency spectrum (i.e., per subchannel)", and a new figure from new Exhibit 1009), which was identified in Patent Owner's Listing of Improper Reply / New Argument and Evidence (Paper 21).

Dated: August 1, 2017

RM

/Peter J. McAndrews/

Peter J. McAndrews Registration No. 38,547 McANDREWS, HELD & MALLOY, LTD. 500 West Madison St., Suite 3400 Chicago, IL 60661 Telephone: (312) 775-8000 Patent Owner's Objections to Petitioners' Demonstratives IPR2016-01007 Patent No. 8,432,956

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing Patent

Owner's Objections to Petitioners' Demonstratives was served on August 1,

2017, via email to counsel for Petitioners at the following:

Lead Counsel	Back-up Counsel
David L. McCombs	Theodore M. Foster
HAYNES & BOONE, LLP	Tel. 972-739-8649
2323 Victory Ave., Suite 700	Gregory P. Huh
Dallas, TX 75219	Tel. 972-739-6939
Tel. 214-651-5533	Russell Emerson
Fax 214-200-0853	Tel. 214-651-5328
david.mccombs.ipr@haynesboone.com	HAYNES & BOONE, LLP
	2323 Victory Ave., Suite 700
	Dallas, TX 75219
	Fax 972-692-9156
	ipr.theo.foster@haynesboone.com
	gregory.huh.ipr@haynesboone.com
	russell.emerson.ipr@haynesboone.com
John M. Baird	Christopher Tyson
Duane Morris LLP	Duane Morris LLP
505 9 th St. NW, Ste 1000	505 9 th St. NW, Ste 1000
Washington, DC 20004	Washington, DC 20004
Tel. 202-776-7819	Tel. 202-776-7819
Fax 202-776-7801	Fax 202-776-7801
JMBaird@duanemorris.com	CJTyson@duanemorris.com

MCANDREWS, HELD & MALLOY

Telephone: 312-775-8000 Facsimile: 312-775-8100

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CUSTOMER NUMBER: 23446 Date: August 1, 2017 /Peter J. McAndrews/ Peter J. McAndrews Registration No. 38,547

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