

Filed on behalf of TQ Delta, LLC  
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UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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CISCO SYSTEMS, INC., DISH NETWORK, LLC,  
COMCAST CABLE COMMUNICATIONS, LLC,  
COX COMMUNICATIONS, INC.,  
TIME WARNER CABLE ENTERPRISES LLC,  
VERIZON SERVICES CORP., and ARRIS GROUP, INC.,  
Petitioner,

v.

TQ DELTA, LLC  
Patent Owner

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Case No. IPR2016-01020<sup>1</sup>  
Patent No. 9,014,243

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**PATENT OWNER'S UPDATED EXHIBIT LIST**

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<sup>1</sup> DISH Network, L.L.C., who filed a Petition in IPR2017-00254, and Comcast Cable Communications, L.L.C., Cox Communications, Inc., Time Warner Cable Enterprises L.L.C., Verizon Services Corp., and ARRIS Group, Inc., who filed a Petition in IPR2017-00418, have been joined in this proceeding.

The undersigned, on behalf of TQ Delta, LLC. (“Patent Owner”), hereby provides notice that Patent Owner has filed their exhibit list as a separate document. Exhibits 2001 – 2014 were filed and served with previous Patent Owner filings.

| Exhibit | Description  |
|---------|--|
| 2001    | Plaintiff’s Opening Claim Construction Brief in TQ Delta, LLC v. Comcast Cable Communications LLC, et al., Case Nos. 15-cv-611, 15-cv-612, 15-cv-613, 15-cv-614, 15-cv-615, and 15-cv-616 before the United States District Court for the District of Delaware (August 3, 2016). |
| 2002    | Deposition of Jose Tellado, Ph.D. (January 31, 2017).  |
| 2003    | Declaration of Robert Short, Ph.D. (February 24, 2017).  |
| 2004    | USPN 6,370,156 (Alcatel Patent).   |
| 2005    | TIA/EIA-95-B Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems (February 3, 1999).  |
| 2006    | J. Proakis, “Digital Communications”, 1995, 3 <sup>rd</sup> Ed.  |
| 2007    | Memorandum Opinion in TQ Delta, LLC v. Comcast Cable Communications LLC, et al., Case Nos. 15-cv-611, 15-cv-612, 15-cv-613, 15-cv-614, 15-cv-615, and 15-cv-616 before the United States District Court for the District of Delaware (November 30, 2016).                        |
| 2008    | USPN 9,014,243 File History (Excerpt).   |

| Exhibit | Description  |
|---------|--|
| 2009    | T. Regan, "ADSL Line Driver/Receiver Design Guide, Part 1", Linear Technology Magazine, February 2000.         |
| 2010    | Script, Exhibit 2010 from Jose Tellado's June 20, 2017 deposition.   |
| 2011    | Graph titled "Clipping Probability Per DMT Symbol", Exhibit 2011 from Jose Tellado's June 20, 2017 deposition. |
| 2012    | USPN 6,424,681 (Tellado), Exhibit 2012 from Jose Tellado's June 20, 2017 deposition.                           |
| 2013    | Deposition of Jose Tellado, Ph.D. (June 20, 2017)  |
| 2014    | Transcript of Conference Call with PTAB (June 21, 2017)  |
| 2015    | Discovery Request  |
| 2016    | Transcript of Conference Call with PTAB (July 6, 2017)   |

Dated: July 14, 2017

Respectfully submitted,

*/Peter J. McAndrews/*


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**CERTIFICATE OF SERVICE**

I hereby certify that the Patent Owner’s Updated Exhibit List in connection with *Inter Partes* Review Case IPR2016-01020 was served on this 14<sup>th</sup> day of July, 2017 by electronic mail to the following:

| Lead Counsel  | Back-up Counsel   |
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Dated: July 14, 2017

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