

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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ARRIS SOLUTIONS, INC.,  
Petitioner,

v.

REALTIME ADAPTIVE STREAMING LLC,  
Patent Owner

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Case IPR2019-00674  
Patent 8,934,535

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**PETITIONER'S UPDATED MANDATORY NOTICES**

Pursuant to 37 C.F.R. §42.8, Petitioner provides the following updated mandatory notices:

**Real Party In Interest:** The real parties in interest are ARRIS Solutions, Inc., ARRIS International plc,<sup>1</sup> ARRIS International Ltd., ARRIS Technology, Inc., ARRIS Group, Inc.,<sup>2</sup> and Ruckus Wireless, Inc. Out of an abundance of caution, Petitioner also identifies CommScope Holding Company, Inc. as a real party in interest without admitting that it is in fact a real party in interest.

**Related Matters:** The '535 Patent is the subject of the following judicial or administrative matters:

- Comcast Cable Communications, LLC et al. v. Realtime Adaptive Streaming LLC, IPR2019-00760, Patent Trial and Appeal Board;
- Google LLC et al. v. Realtime Adaptive Streaming LLC, IPR2019-

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<sup>1</sup> ARRIS International plc was originally listed by Petitioner as a real party in interest in this proceeding but was later re-registered as a private company and consequently renamed as ARRIS International Ltd., in connection with the recent acquisition of ARRIS International plc by CommScope Holding Company, Inc. Accordingly, Petitioner has listed ARRIS International Ltd., as a real party in interest.

<sup>2</sup> ARRIS Group, Inc. was originally listed by Realtime in its Complaint in Civil Action No. 1:17-cv-02097 (D. Colo.), but later merged into Ruckus Wireless, Inc. Accordingly, ARRIS Group no longer exists as an independent entity.

- 00748, Patent Trial and Appeal Board;
- *Sling TV LLC et al v. Realtime Adaptive Streaming LLC*, IPR2018-01331, Patent Trial and Appeal Board;
  - *Sling TV LLC, et al., v. Realtime Adaptive Streaming LLC*, IPR2018-01332, Patent Trial and Appeal Board;
  - *Sling TV LLC, et al., v. Realtime Adaptive Streaming LLC*, IPR2018-01342, Patent Trial and Appeal Board;
  - *Unified Patents Inc. v. Realtime Adaptive Streaming LLC*, IPR2018-00883, Patent Trial and Appeal Board;
  - *Hulu, LLC, Amazon.com, Inc., and Netflix, Inc. v. Realtime Adaptive Streaming LLC*, IPR2018-01170, Patent Trial and Appeal Board;
  - *Hulu, LLC v. Realtime Adaptive Streaming LLC*, IPR2018-01090, Patent Trial and Appeal Board;
  - *Hulu, LLC et al v. Realtime Adaptive Streaming LLC*, IPR2018-01169, Patent Trial and Appeal Board;
  - *Amazon.com, Inc. et al v. Realtime Adaptive Streaming LLC*, IPR2018-01187, Patent Trial and Appeal Board;
  - *Hulu, LLC et al v. Realtime Adaptive Streaming LLC*, IPR2018-01195, Patent Trial and Appeal Board;
  - *Hulu, LLC et al v. Realtime Adaptive Streaming LLC*, IPR2018-01189,

Patent Trial and Appeal Board;

- *Amazon.com, Inc. et al v. Realtime Adaptive Streaming LLC*, IPR2018-01227, Patent Trial and Appeal Board;
- *Sony Corporation et al v. Realtime Adaptive Streaming LLC*, IPR2018-01299, Patent Trial and Appeal Board;
- *Cisco Systems, Inc. v. Realtime Adaptive Streaming LLC*, IPR2018-01384, Patent Trial and Appeal Board;
- *Sony Corporation et al v. Realtime Adaptive Streaming LLC*, IPR2018-01413, Patent Trial and Appeal Board;
- *Sony Corporation et al v. Realtime Adaptive Streaming LLC*, IPR2018-01439, Patent Trial and Appeal Board;
- *Netflix, Inc. et al v. Realtime Adaptive Streaming LLC*, IPR2018-01630, Patent Trial and Appeal Board;
- *Netflix, Inc. et al v. Realtime Adaptive Streaming LLC*, IPR2018-01817, Patent Trial and Appeal Board;
- *Netflix, Inc. et al v. Realtime Adaptive Streaming LLC*, IPR2019-00209, Patent Trial and Appeal Board;
- *Realtime Adaptive Streaming v. Adobe Systems Inc.*, Case No. 2:18-cv-09344, Central District of California;
- *Realtime Adaptive Streaming LLC v. Hulu, LLC*, Case No. 2:17-cv-

07611, Central District of California;

- *Realtime Adaptive Streaming LLC v. Google LLC et al.*, Case No. 2:18-cv-03629, Central District of California;
- *Realtime Adaptive Streaming LLC v. Cox Communications, Inc.*, Case No. 8:18-cv-00942, Central District of California;
- *Realtime Data LLC d/b/a IXO v. Sling TV LLC et al*, Case No. 1:17-cv-02097, District of Colorado;
- *Realtime Adaptive Streaming LLC v. Apple Inc.*, Case No. 1:17-cv-02869, District of Colorado;
- *Realtime Adaptive Streaming LLC v. Avaya, Inc.*, Case No. 1:18-cv-01046, District of Colorado;
- *Realtime Adaptive Streaming LLC v. Broadcom Corporation et al.*, Case No. 1:18-cv-01048, District of Colorado;
- *Realtime Adaptive Streaming LLC v. Charter Communications, Inc. et al*, Case No. 1:18-cv-01345, District of Colorado;
- *Realtime Adaptive Streaming, LLC v. Comcast Cable Communications, LLC d/b/a Xfinity et al*, Case No. 1:18-cv-01446, District of Colorado;
- *Realtime Adaptive Streaming LLC v. Polycom, Inc.*, Case No. 1:17-cv-02692, District of Colorado;

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