

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

COMCAST CABLE COMMUNICATIONS, LLC

Petitioner

v.

REALTIME ADAPTIVE STREAMING, LLC

Patent Owner

Case IPR2019-00760

Patent No. 8,934,535

**PETITION FOR *INTER PARTES* REVIEW OF UNITED STATES PATENT
NO. 8,934,535 PURSUANT TO 35 U.S.C. §§ 311-319, 37 C.F.R. § 42**

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EX1002	Prosecution History of the ’535 Patent (“the Prosecution History”)
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EX1004	U.S. Patent No. 6,557,001 (“Dvir”)
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EX1009	<i>Realtime Data LLC v. Rackspace US, Inc. et al.</i> , Dkt. No. 183, Case No. 6-16-cv-00961 (E.D. Tex. June 29, 2016)
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EX1011	Patent Owner’s Infringement Contentions for U.S. Patent No. 8,934,535 from <i>Realtime Adaptive Streaming LLC v. Sling TV L.L.C. et al.</i> , Case No. 1:17-cv-02097-RBJ (D. Colo.)
EX1012	<i>Realtime Data, LLC d/b/a IXO v. Packeteer, Inc., et al.</i> , No. 6:08-cv-00144 Docket No. 371, p. 59 (E.D. Tex. June 22, 2009)
EX1013	Held, G. <i>Data Compression: Techniques and Applications, Hardware and Software Considerations</i> , John Wiley & Sons, 1983
EX1014	Fahie, John Jacob (1884). <i>A History of Electric Telegraphy, to the Year 1837</i> . E. & F.N. Spon.

Exhibit	Description
EX1015	Mag, Lond Mechanics. “ <i>Mr. Bain's Electric Printing Telegraph.</i> ” Journal of the Franklin Institute, of the State of Pennsylvania, for the Promotion of the Mechanic Arts; Devoted to Mechanical and Physical Science, Civil Engineering, the Arts and Manufactures, and the Recording of American and Other Patent Inventions (1828-1851) 8.1 (1844): 61.
EX1016	Huffman, D. A. (1952). A method for the construction of minimum-redundancy codes. <i>Proceedings of the IRE</i> , 40(9), 1098-1101.
EX1017	Shannon, C. E. (1949). Communication theory of secrecy systems. <i>Bell Labs Technical Journal</i> , 28(4), 656-715.
EX1018	Tekalp, A. M. (1995). <i>Digital video processing</i> . Prentice Hall Press.
EX1019	Bovik, Alan C. <i>Handbook of image and video processing</i> . Academic press, 2009.
EX1020	Jim Taylor, <i>DVD Demystified</i> (1998)
EX1021	Zhang, Z. L., Wang, Y., Du, D. H. C., & Su, D. (2000). <i>Video staging: A proxy-server-based approach to end-to-end video delivery over wide-area networks</i> . <i>IEEE/ACM Transactions on networking</i> , 8(4), 429-442.
EX1022	ISO/IEC 11172-2: 1993
EX1023	ISO/IEC 13818-2: 1995
EX1024	Gringeri et al., <i>Traffic Shaping, Bandwidth Allocation, and Quality Assessment for MPEG Video Distribution over Broadband Networks</i> , <i>IEEE Network</i> , (November/December 1998)
EX1025	U.S. Patent No. 6,020,904 (“Clark”)
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