

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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COMMSCOPE, INC.

Petitioner

v.

TQ DELTA, LLC

Patent Owner

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Case: IPR2023-00064

U.S. Patent No. 8,276,048

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**PETITIONER'S UPDATED EXHIBIT LIST**

Mail Stop PATENT BOARD  
Patent Trial and Appeal Board  
US Patent and Trademark  
Office PO Box 1450  
Alexandria, Virginia 22313-1450

Pursuant to 37 C.F.R. § 42.63(e), Petitioner CommScope, Inc.

hereby submits a current listing of Petitioner's Exhibits.

**UPDATED EXHIBIT LIST**

<b>Exhibit</b>	<b>Short Name</b>	<b>Description</b>
Ex. 1001	'048 Patent	U.S. Patent No. 8,276,048
Ex. 1002	'048 File History	File History of U.S. Patent No. 8,276,048
Ex. 1003	Wesel Declaration	Declaration of Dr. Richard Wesel, under 37 C.F.R. § 1.68
Ex. 1004	Wesel CV	<i>Curriculum Vitae</i> of Dr. Richard Wesel
Ex. 1005	Mazzoni	U.S. Patent No. 7,269,208
Ex. 1006	Fadavi-Ardekani	U.S. Patent No. 6,707,822
Ex. 1007	VDSL1	ETSI TS 101 270-2 V1.2.1 Technical Specification
Ex. 1008	Forney	G. David Forney, <i>Burst-Correcting Codes for the Classic Bursty Channel</i> , Vol. Com-19, No. 5, IEEE Transactions on Communications, 772 (1971)
Ex. 1009	Zogakis	T. Nicholas Zogakis, <i>A Coded and Shaped Discrete Multitone System</i> , Vol. 43, No. 12, IEEE Transactions on Communications, 2941 (1995)
Ex. 1010	Kernighan	B.W. Kernighan, D. M. Ritchie, <i>The C Programming Language</i> , 1998
Ex. 1011	AT&T DSP (1981)	J. R. Boddie, <i>Overview: The Device, Support Facilities, and Applications</i> , Vol. 60, The Bell System Technical Journal, 1431 (1981)

Exhibit	Short Name	Description
Ex. 1012	AT&T DSP 32 (1986)	J. R. Boddie, <i>The DSP32 Digital Signal Processor and its Application Development Tools</i> , AT&T Technical Journal, 89 (1986)
Ex. 1013	Texas Instruments TMS 320 (1994)	Mansoor A. Chishtie, <i>Telecommunications Applications With the TMS320C5x DSPs</i> , Digital Signal Processing Products (1994)
Ex. 1014	Maxwell	U.S. Patent No. 4,924,456
Ex. 1015	V.32 <i>bis</i>	ITU Recommendation V.32 <i>bis</i> (1991)
Ex. 1016	V.32	ITU Recommendation V.32 (1993)
Ex. 1017	LB-031	ITU Contribution LB-031 (June 2004)
Ex. 1018	Family 3 Claim Construction Opinion	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 13-cv-01835-RGA, ECF. No. 445 (D. Del. Dec. 18, 2017) (Claim Construction Opinion)
Ex. 1019	Family 3 Claim Construction Order	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 13-cv-01835-RGA, ECF. No. 454 (D. Del. Dec. 28, 2017) (Claim Construction Order)
Ex. 1020	Family 1 Claim Construction Opinion	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 13-cv-01835-RGA, ECF. No.477 (D. Del. Jan 30, 2018) (Claim Construction Opinion)
Ex. 1021	Family 1 Claim Construction Order	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 13-cv-01835-RGA, ECF. No. 484 (D. Del. Feb. 6, 2018) (Claim Construction Order)
Ex. 1022	Family 3 MSJ Opinion	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 13-cv-01835-RGA, ECF No. 1106 (D. Del. Apr. 25, 2019) (MSJ Opinion)
Ex. 1023	Family 3 Jury Form	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 13-cv-01835-RGA, ECF No. 1187 (D. Del. May 23, 2019) (Jury Form)

Exhibit	Short Name	Description
Ex. 1024	'890 Patent	U.S. Patent No. 7,831,890
Ex. 1025	'890 File History	File History of U.S. Patent No. 7,831,890
Ex. 1026	Nokia Complaint	<i>TQ Delta, v. Nokia Corp. et al.</i> , No. 2:21-cv-00309, Dkt. No. 1. (E.D. Tex. Aug. 13, 2021) (Nokia Complaint)
Ex. 1027	CommScope Complaint	<i>TQ Delta, LLC v. CommScope Holding Co. et al.</i> , No. 2:21-cv-00310, Dkt. No. 1 (E.D. Tex. Aug. 13, 2021) (CommScope Complaint)
Ex. 1028	Third and Final Scheduling Order	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 1:13-cv-01835, Dkt. No. 117 (D. Del. April 10, 2017) (Third and Final Scheduling Order)
Ex. 1029	2Wire Docket	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 1:13-cv-01835 (D. Del.) (Docket as of February 25, 2022)
Ex. 1030	Sept. 15, 2021 Letter	<i>TQ Delta, LLC v. 2Wire, Inc.</i> , No. 1:13-cv-01835, Dkt. No. 1591 (D. Del. Sept. 15, 2021) (Letter)
Ex. 1031	Docket Control Order	<i>TQ Delta, LLC v. CommScope Holding Co. et al.</i> , No. 2:21-cv-00310, Dkt. No. 62 (E.D. Tex. Dec. 17, 2021) (Docket Control Order)
Ex. 1032	Feb. 24, 2022 Letter Regarding ADTRAN Case Schedule	<i>TQ Delta, LLC v. ADTRAN, Inc.</i> , No. 1:14-cv-00954, Dkt. No. 1373 (Feb. 24, 2022) (Letter)
Ex. 1033	Hall-Ellis Declaration	Declaration of Sylvia Hall-Ellis

Exhibit	Short Name	Description
Ex. 1034	CommScope Motion to Transfer	<i>TQ Delta, LLC v. CommScope Holding Co. et al.</i> , No. 2:21-cv-00310, Dkt. No. 32 (E.D. Tex. Nov. 11, 2021) (CommScope Motion to Transfer)
Ex. 1035	'882 File History	File History of U.S. Patent No. 7,844,882
Ex. 1036	'882 Patent	U.S. Patent No. 7,844,882
Ex. 1037	Prior Art Stipulation	<i>TQ Delta, LLC v. CommScope Holding Company, Inc.</i> , No. 2:21-cv-310, Dkt. No. 197 (E.D. Tex. Dec. 17, 2021) (Prior Art Stipulation)
Ex. 1038	Emails to Board	November - December 2022 Emails to Board from Petitioner CommScope seeking joinder

Date: December 23, 2022

Respectfully submitted,

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**CERTIFICATE OF SERVICE ON PATENT OWNER**

Pursuant to 37 C.F.R. §§ 42.6(e) the undersigned hereby certifies that  
**“PETITIONER’S UPDATED EXHIBIT LIST”** were served by email upon  
lead counsel for Patent Owner, pursuant to Patent Owner’s agreement to accept  
service by email as set forth in Patent Owner’s Mandatory Notices.

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