Filed: April 17, 2024

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS,

PETITIONER,

V.

GENERAL ACCESS SOLUTIONS, LTD.,

PATENT OWNER.

Case No. IPR2023-00978
U.S. Patent No. 7,230,931

PATENT OWNER'S UPDATED EXHIBIT LIST

PATENT OWNER'S UPDATED EXHIBIT LIST

Patent Owner General Access Solutions, Ltd. hereby submits its updated exhibit list to accompany the submission of Exhibits 2027-2032:

EXHIBIT	DESCRIPTION
2001.	Nosson D. Knobloch biography.
2002.	Declaration of Nosson D. Knobloch in Support of Patent Owner's Motion for *Pro Hac Vice* Admission of Nosson D. Knobloch Under 37 C.F.R. § 42.10(c).
2003.	Michael J. Valaik biography.
2004.	Declaration of Michael J. Valaik in Support of Patent Owner's Motion for *Pro Hac Vice* Admission of Michael J. Valaik Under 37 C.F.R. § 42.10(c).
2005.	Ericsson July 16, 2021 Press Release: Ericsson and Verizon ink landmark mult-year $8.3 Billion 5G deal.
2006.	*Samsung wins $6.6 billion Verizon contract for 5G network.*
2007.	Samsung Blog, October 22, 2019: *Persistence pays off for Samsung Networks in becoming a major 5G radio access network vendor*.
2008.	Order Granting Motion for Leave to Intervene [46], *General Access Solutions, Ltd. v. Cellco Partnership D/B/A Verizon Wireless, et al.*, Case No. 2:22-cv-00394-JRG (E.D. Tex. Feb. 22, 2023).
2009.	Excerpt of Defendants' Invalidity Contentions, *General Access Solutions, Ltd. v. Cellco Partnership D/B/A Verizon Wireless, et al.*, Case No. 2:22-cv-00394-JRG.
2010.	Excerpt of Plaintiff's Complaint for Patent Infringement [1], *General Access Solutions, Ltd. v. Sprint Corp., Virgin Mobile USA, L.P. and Boost Mobile LLC*, Case No. 2:16-cv-00465-RWS (E.D. Tex. May 2, 2016).
2011.	*Sprint, Ericsson tout field tests for 2.5 GHz Massive MIMO*, September 12, 2017.
2012.	*Sprint tests Massive MIMO with Samsung in South Korea*, June 20, 2017.

EXHIBIT	DESCRIPTION
2013.	White-Paper - Massive MIMO Comes of Age
2014.	Defendants Sprint Spectrum L.P., Boost Mobile LLC, and Virgin Mobile USA, L.P.'s Initial Disclosures, *General Access Solutions, Ltd. v. Sprint Corp., Virgin Mobile USA, L.P. and Boost Mobile LLC*, Case No. 2:16-cv-00465-RWS (E.D. Tex. Dec. 6, 2016).
2015.	Email from Nosson Knobloch to Verizon regarding IPR Discovery, dated August 17, 2023.
2016.	Email from Justin Oliver to Nosson Knobloch regarding IPR Discovery, dated August 17, 2023.
2017.	Email from Nosson Knobloch to Jeff Becker and Melissa Muenks regarding Ericsson-Verizon Supply Agreements, dated August 22, 2023.
2018.	Cisco Visual Networking Index: Global Mobile Data Traffic Forecast Update, 2017-2022
2019.	[Corrected] Defendants' Patent Local Rule 4-2 Exchange of Preliminary Proposed Claim Constructions and Extrinsic Evidence, *General Access Solutions, Ltd. v. Cellco Partnership D/B/A Verizon Wireless, et al.*, Case No. 2:22-cv-00394-JRG (E.D. Tex. Aug. 22, 2023)
2020.	Expert Declaration of James A. Proctor Jr. for *Inter Partes* Review of U.S. Patent No. 7,320,931, *Sprint Spectrum, L.P. v. General Access Solutions, Ltd.*, *Inter Partes* Review Case No. 2017-01889 (PTAB July 28, 2017)
2021.	*Fan Beam*, Britannica.com
2022.	Excerpt of *Wireless Communications: Principles & Practice*, Theodore S. Rappaport (1996)
2023.	Excerpt of *Digital Communications: Fundamentals and Applications*, Bernard Sklar (1998)
2024.	*Sprint Teams With ALU, Ericsson, Samsung To Improve Service*, December 6, 2010
2025.	Excerpt of United States District Courts – National Judicial Caseload Profile

EXHIBIT	DESCRIPTION
2026.	Defendants' Invalidity Contentions, *General Access Solutions, Ltd. v. Cellco Partnership D/B/A Verizon Wireless, et al.*, Case No. 2:22-cv-00394-JRG.
2027.	Claim Construction Order, *General Access Solutions, Ltd. v. Cellco Partnership D/B/A Verizon Wireless, et al.*, Case No. 2:22-cv-00394-JRG. (E.D. Tex. Jan. 12, 2024)
2028.	Declaration of Douglas A. Chrissan, Ph.D.
2029.	Deposition Transcript of Dr. Kevin Almeroth, dated April 5, 2024
2030.	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical Channels and Modulation (Release 8)
2031.	Extremetech, May 9, 2012: *Is Clearwire the savior of global LTE?*
2032.	Curriculum Vitae of Douglas A. Chrissan, Ph.D.

Dated: April 17, 2024

Respectfully Submitted,

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing Patent Owner's Updated Exhibit List was served on April 17, 2024, by delivering a copy via electronic mail to the attorneys of record for the Petitioner as follows:

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