

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MICROSOFT CORPORATION and AFFIRMED NETWORKS, INC.,
Petitioner,

v.

LEMKO CORPORATION,
Patent Owner.

Case IPR2023-00529
U.S. Patent No. 7,653,414

PATENT OWNER'S UPDATED EXHIBIT LIST

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Exhibit	Description
2001	Declaration of Todor Cooklev, Ph.D. in Support of Patent Owner's Preliminary Response
2002	Wikimedia Commons, "File: Lucent 5ESS GSM Mobile Switching Centre.jpg" (May 31, 2006) https://commons.wikimedia.org/wiki/File:Lucent_5ESS_GSM_Mobile_Switching_Centre.jpg (June 27, 2023)
2003	Wikipedia, "Mobile switching centre server" https://en.wikipedia.org/wiki/Mobile_switching_centre_server (June 27, 2023)
2004	Techopedia.com, "What is a Base Station Controller?" (Oct. 19, 2011) https://www.techopedia.com/definition/24191/base-station-controller-bsc
2005	Metin UZAR Blog Post, "Base Station Controller (BSC)" (Sept. 19, 2009) https://razunitem.wordpress.com/2009/09/19/base-station-controllerbsc/
2006	Image of Motorola BSC https://monsite.woopic.com/383/p/Telecommunications/img/684d91850fe954cc28a1cf8fce498804.jpg (June 28, 2023)
2007	Electronics-notes.com, "Cellular / Mobile Backhaul" https://www.electronics-notes.com/articles/connectivity/cellular-mobile-phone/mobile-communications-backhaul-link.php (June 28, 2023)
2008	Network Functions Virtualisation - Introductory White Paper (Oct. 2012) https://portal.etsi.org/NFV/NFV_White_Paper.pdf

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2009	Dyton, J., “Lemko solutions keep connectivity alive regardless of the circumstances” (July 16, 2020) https://connectedremag.com/das-in-building-wireless/wireless/lemko-solutions-keep-connectivity-alive-regardless-of-the-circumstances/
2010	Lemko.com, distributed Mobile Architecture (dMA) Overview lemko.com/htm/distributed_mesh_architecture.htm (June 28, 2023)
2011	Lemko.com, Lemko's Fundamental Architecture https://www.lemkocorp.com/solutions/ (June 5, 2023)
2012	The Wayback Machine - InterWAVE, GSM/GPRS Products https://web.archive.org/web/20031204132701/http://iww.com/gsm_products.html#nib (captured Dec. 4, 2003)
2013	InterWAVE, WAVEXpress GSM Network In-A-Box (NIB) Datasheet (June 2003) https://mirror.unpad.ac.id/orari/library/library-ref-eng/ref-eng-2/physical/wireless/trend-gsm/microgsm/nib_may_03.pdf
2014	InterWAVE, WAVEXchange II Datasheet (Oct. 2002) https://ftp.unpad.ac.id/orari/library/library-ref-eng/ref-eng-2/physical/wireless/trend-gsm/microgsm/wxc_2_oct_02.pdf
2015	Microsoft Computer Dictionary, Page 68 (5th ed. 2002), definition for “distributed network”
2016	Merriam-Webster Dictionary, definition for “distributed” (June 27, 2023)
2017	RESERVED
2018	RESERVED
2019	RESERVED

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Exhibit	Description
2020	RESERVED
2021	Declaration of Todor Cooklev, Ph.D., in Support of Patent Owner's Response
2022	"Overview of GSM, GPRS, and UMTS," (Dec. 31, 2002) https://docstore.mik.ua/univercd/cc/td/doc/product/wireless/moblwrls/cm x/mmg_sg/cm xgsm.htm
2023	Declaration of Shaowei Pan in Support of Patent Owner's Response
2024	"The Evolution of Mobile Technologies: 1G, 2G, 3G, 4G LTE," Qualcomm, June 2014
2025	Lin, Yi-Bing, et al., "General Packet Radio Service (GPRS): architecture, interfaces, and deployment," John Wiley & Sons, Ltd., 2001
2026	Transcript for deposition of James Proctor, <i>Microsoft Corp. and Affirmed Networks, Inc. v. Lemko Corp.</i> , No. IPR2023-00529, taken on December 6, 2023
2027	RESERVED
2028	Silicon Press, Home Location Register (HLR) Technology Brief
2029	3GPP TS 23.002 V.7.1.0 (2006-03), dated 2006
2030	Excerpts from Tanenbaum, Andrew S. et al., Computer Networks (5th ed. 2011)
2031	Wikipedia – network switching subsystem, available at https://en.wikipedia.org/wiki/Network_switching_subsystem
2032	GPRS Architecture Presentation – GSM 03.60

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2033	Bryan, D., et al., Request for Comments (RFC) 7890 (June 2016)
2034	Telecommwriting.com article about GSM –Nokia Diagram, available at https://web.archive.org/web/20020607002117/http://privateline.com/PCS/GSMNokia.html
2035	Nokia GSM Architecture Training Document (Jan. 2002) https://dokumen.pub/nokia-gsm-architecture-training-document.html
2036	RADIUS – Wikipedia https://en.wikipedia.org/wiki/RADIUS
2037	Lemko Node User's Manuals, "Lemko DMA Provisioning Guide, Release 7.0," dated December 17, 2012 [FILED UNDER SEAL]
2038	DPR register data [FILED UNDER SEAL]
2039	"Lemko Corporation Announces Node1 4G Core Network Solution," Lemko Corporation, dated March 24, 2009, https://www.lemkocorp.com/lemko-corporation-announces-node1-4g-core-network-solution/
2040	Bala, P., et al., "Potential Users Profile and Existing Communication Pattern among the Rural Community of Bario: A Need Analysis for the Development of a Telecentre"
2041	Wayback Machine webpage – EAP-SIM Authentication with a RADIUS Server, archived April 2007 https://web.archive.org/web/20070430144743/https://www.interlinknetworks.com/app_notes/eap-sim.htm

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2042	Brewer, Eric, et al. - The Case for technology in Developing Regions, June 1, 2005
2043	Email between Lemko and AT&T, dated September 26, 2013
2044	Email between Lemko and AT&T, dated September 13, 2013
2045	“Lemko Congratulates TelAlaska for 11 Years of Continued Operations,” Lemko Corporation, dated August 3, 2020, https://www.lemkocorp.com/lemko-congratulates-telalaska-cellular-for-11-years-of-continued-operations/
2046	“Lemko Congratulates Kuhkenah Network (K-NET) for 12 years of Continued Operations,” Lemko Corporation, dated Aug. 5, 2020, https://www.lemkocorp.com/lemko-congratulates-kuhkenah-network-k-net-for-12-years-of-continued-operations/
2047	“Lemko Congratulates ADAK Eagle Enterprise for 10 years of Continued Cellular Operations,” Lemko Corporation, dated Aug. 5, 2020, https://www.lemkocorp.com/lemko-congratulates-adak-eagle-enterprise-for-10-years-of-continued-cellular-operations/
2048	“Lemko Congratulates Bristol Bay Cellular Partnership for 15 Years of Continued Operation,” Lemko Corporation, dated Aug. 3, 2020, https://www.lemkocorp.com/lemko-congratulates-bristol-bay-cellular-partnership-for-15-years-of-continued-operation/
2049	“TelAlaska Deploys Lemko’s Node1 System,” Lemko Corporation, dated Aug. 18, 2009, https://www.lemkocorp.com/telalaska-deploys-lemkos-node1-system

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2050	“K-Net Provides Cellular Service with Lemko’s Node1,” Lemko Corporation, dated July 21, 2009, https://www.lemkocorp.com/k-net-provides-cellular-service-with-lemkos-node1/
2051	“Global Internet Limited and Tazca Connects Deploy 4G LTE-as-a-Service in Malawi’s Capitol Lilongwe,” Lemko Corporation, dated March 24, 2015, https://www.lemkocorp.com/globe-internet-limited-and-tazca-connects-deploy-4g-lte-as-a-service-in-malawis-capital-lilongwe/
2052	“Glocall Telecoms, LLC and Tazca Connects Partner to Deploy 4G LTE in Mogadishu, Somalia,” Lemko Corporation, dated March 18, 2014, https://www.lemkocorp.com/glocall-telecoms-llc-and-tazca-connects-partner-to-deploy-4g-lte-in-mogadishu-somalia/
2053	Microsoft Corp. v. Lemko Corp., No. IPR2023-00530, Decision Denying Institution, Paper 8 (P.T.A.B. Sept. 25, 2023)
2054	Default Protective Order
2055	Patent Owner’s Demonstratives

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Respectfully submitted,

Dated: July 10, 2024

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CERTIFICATE OF SERVICE

The undersigned certifies, in accordance with 37 C.F.R. § 42.6(e), and pursuant to agreement by the parties that filing with the Board through the Patent Trial and Appeal Case Tracking System (P-TACTS) constitutes electronic service, that service was made on the Petitioners as detailed below.

<i>Date of service</i>	July 10, 2024
<i>Manner of service</i>	Electronic Filing (mhopkins@winston.com; bshelton@winston.com; mrueckheim@winston.com; Winston-MSFT-Lemko-IPR@winston.com)
<i>Documents served</i>	PATENT OWNER'S UPDATED EXHIBIT LIST
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