UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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MICROSOFT CORPORATION,
Petitioner,

v.

UNILOC 2017 LLC,
Patent Owner.

U.S. Patent No.: 6,993,049
Issued: January 31, 2006
Application No.: 09/876,514
Filed: June 7, 2001
Title: COMMUNICATION SYSTEM

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SECOND DECLARATION OF PETER RYSAVY
Dated: May 19, 2020

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I, Peter Rysavy, do hereby declare as follows:

I.   INTRODUCTION AND ENGAGEMENT

1.   I have been retained as an independent expert by attorneys at Klarquist Sparkman, LLP, who I understand to represent Microsoft Corporation in connection with *Inter Partes* Review ("IPR") of U.S. Patent No. 6,993,049 (hereinafter "the '049 Patent"). In this report I provide my analyses and opinions on certain technical issues related to the '049 patent.

2.   This Second Declaration is in addition to the first declaration that I prepared for the '049 patent PTAB proceedings, signed and dated May 6, 2019 ("First Declaration" or "Rysavy Declaration"). In this Second Declaration, I refer back to and incorporate analysis provided in the First Declaration. For brevity's sake, I aim to not repeat analysis provided in that First Declaration.

II.   BACKGROUND AND QUALIFICATIONS

3.   The First Declaration lays out my education and professional background in paragraphs 3-11. With this declaration, I attach an updated version of my CV, as Appendix 1.

III.   MATERIALS CONSIDERED AND INFORMATION RELIED UPON

4.   In addition to the materials identified in paragraph 13 of the First Declaration, in connection with my work on this matter, I have reviewed the following materials and references in forming my opinions. Throughout, this

declaration refers to the references by the shorthand form included in bold text within the parentheticals.

Ex. No.	Description
1029	Modicon Modbus Protocol Reference Guide, PI-MBUS-300, June 1996 ("**Modbus Protocol**").
1030	U.S. Pat. No. 6,434,157 to Dube' et al. (referencing Modbus Protocol).
1031	ASN.1: Communication Between Heterogeneous Systems, Olivier Dubuisson, June 5, 2000, available at http://www.oss.com/asn1/resources/books-whitepapers-pubs/dubuisson-asn1-book.PDF from http://www.oss.com/asn1/resources/books-whitepapers-pubs/asn1-books.html ("**Dubuisson**").
1032	U.S. Pat. No. 6,687,766 to Casper
1033	*Uniloc USA, Inc. v. Samsung Elecs. Am. Inc.*, No. 2:18-cv-00040-JRG-RSP, Dkt. No. 69 (E.D. Tex. Feb. 26, 2019) ("Plaintiff's Reply Claim Construction Brief").
1034	Qiu et al., A multiple access scheme for multimedia traffic in wireless ATM, IEEE/ACM Mobile Networks and Applications 1:259-272 (Jan. 1996).
1035	U.S. Pat. No. 6,205,498 to Habusha et al.
1036	W. Richard Stevens, TCP/IP Illustrated, Volume 1: The Protocols, 1994 ("**Stevens**")
1037	Webster's New World Dictionary, 4th Edition, 1999 ("inquiry")
1038	U.S. Pat. No. 3,523,281 to Willcox et al.
1039	U.S. Pat. No. 5,517,488 to Miyazaki et al.
1040	U.S. Pat. No. 6,119,208 to White et al.
1041	U.S. Pat. No. 6,141,701 to Whitney
1042	U.S. Pat. No. 3,701,971 to Sanner et al.

Ex. No.	Description
1043	U.S. Pat. No. 5,812,639 to Bartholomew et al.
1044	David Johnson, David Maltz, Carnegie Mellon University, *Dynamic Source Routing in Ad Hoc Wireless Networks*, 1996, https://www.utdallas.edu/~ksarac/Papers/DSR.pdf
1045	Global System for Mobile Communications (GSM) Technical Specification: Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification (GSM 04.08), https://www.etsi.org/deliver/etsi_gts/04/0408/05.00.00_60/gsmts_0408v050000p.pdf
1046	Federal Standard 1037C, Telecommunications: Glossary of Telecommunication Terms, U.S. Federal General Services Administration (Aug. 7, 1996)

5.   I may also reference other background materials throughout this declaration.

6.   I have also read the December 4, 2019, Institution Decision and the February 26, 2020, Patent Owner Response submitted in this IPR proceeding.

IV.   CLAIM CONSTRUCTION AND LEVEL OF SKILL

7.   As stated in my First Declaration, I applied the plain and ordinary meaning of the challenged claims when rendering my opinion. Since I submitted my First Declaration, I understand that the Patent Owner has proposed constructions for the terms "additional data field" and "inquiry message." I

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