

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TELIT WIRELESS SOLUTIONS INC. &

TELIT COMMUNICATIONS PLC,

Petitioner,

v.

M2M SOLUTIONS LLC,

Patent Owner.

Inter Partes Review No. 2016-01081

U.S. Patent No. 8,648,717

Issued: Feb. 11, 2014

Title: Programmable Communicator

**DECLARATION OF KIMMO SAVOLAINEN FOR *INTER*
PARTES REVIEW OF U.S. PATENT NO. 8,648,717**

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APPENDICES:

A. Curriculum Vitae of Kimmo Savolainen

B. List of Materials Considered

I. INTRODUCTION

A. Engagement

1. I have been retained by Petitioners, Telit Wireless Solutions Inc. and Telit Communications PLC (collectively “Telit”) to act as an expert in connection with the accompanying Petition and Petitions in IPR2016-00054 and IPR2016-00055 for *Inter Partes* Review of U.S. Patent 8,648,717 (Ex. 1201, “the ‘717 Patent”), and in connection with the litigation related to a parent patent, U.S. Patent No. 8,094,010 (“the ‘010 Patent”).

B. Background And Qualifications

2. I am qualified by education and experience to testify as an expert in the field of telecommunications and more specifically in its application to telemetry systems. My background is outlined in my curriculum vitae, attached as Appendix A, and discussed as follows.

3. From 1985 – 1990 I attended the Raahe Institute of Computer Technology, Raahe, Finland where I earned a Bachelor of Science degree, with a major in electrical engineering, focused on embedded environments, and a minor in programming in embedded environments. From 1991 - 1996 I attended the University of Oulu, Finland where I earned a Master of Science degree in Computer Science. At that time, Oulu, Finland was a center for telecommunications development and a research and development hub for many of the world’s leading telecom companies, including Nokia and Ericsson.

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4. From November 1994 to May 2006, I was employed by Nokia. From 1994-1998, I served as Product Program Manager at Nokia's Oulu, Finland facility. In that capacity, I successfully managed at times up to four simultaneous product programs in M2M (machine-to-machine) terminal product creation and related server software product creation. I also managed at times up to 100 people in three R&D sites. During this period of time, I was involved in and supervised the development of Nokia's wireless payphone and payphone management system, including: writing "C" code for the project; designing electrical circuitry; writing technical specifications; and writing protocol specifications for the wireless transaction protocol (WTP).

5. From 1994-1998, I served as an R&D Line Manager (Nokia Elektrobit Products (NEP), Oulu), Project Manager (NEP, Oulu, Finland) (including managing GSM type approval testing and certification processes, and was an inventor on several patent applications and patents), Software Chief Designer (NEP, Oulu, Finland), and Hardware Designer (NEP, Oulu, Finland).

6. From 1998-2002, I was involved in the development of Nokia's M2M connectivity terminal, the Nokia 20, and the M2M gateway (Ex. 1221). The Nokia 20 provided M2M communication for remote management for applications, such as, vending, security, automatic meter reading, elevator control, telematics, etc.

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