

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD.,
Petitioner,

v.

TELEFONAKTIEBOLAGET LM ERICSSON,
Patent Owner

U.S. PATENT NO. 9,860,044

Case IPR2021-TBD

DECLARATION OF FRIEDHELM RODERMUND
IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW OF U.S.
PATENT NO. 9,860,044

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Declaration of Friedhelm Rodermund

I, Friedhelm Rodermund, do hereby declare as follows:

I. INTRODUCTION AND ENGAGEMENT

1. I have been retained in this matter by Samsung Electronics Co., Ltd (“Petitioner” or “Samsung”) to provide testimony regarding 3GPP’s standard business practices for record keeping and publishing technical specifications, change request proposals, reports, and other documents developed during the course of standards activities carried out by the 3rd Generation Partnership Project (“3GPP”) and the European Telecommunications Standards Institute (“ETSI”).

2. I have been asked to provide my opinions regarding the authenticity and dates of public accessibility of the following 3GPP document:

- T-doc R1-083679, which represents a document with the title “UL Layered Control Signal Structure in LTE-Advanced” (hereinafter “R1-083679”, Ex. 1008)
- T-doc R1-090792, which represents a document with the title “Control Signalling Design for Supporting Carrier Aggregation” (hereinafter “R1-090792”, Ex. 1007)
- Version 8.5.0 of technical specification 3GPP TS 36.211 (“Technical Specification Group Radio Access Network; Evolved Universal

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Terrestrial Radio Access (E-UTRA); Physical Channels and Modulation (Release 8)”) (hereinafter “TS 36.211 v8.5.0”) (Ex. 1009)

- Version 8.5.0 of technical specification 3GPP TS 36.213 (“Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures (Release 8)”) (hereinafter “TS 36.213 v8.5.0”, Ex. 1011)

3. As an ETSI Project Manager and Secretary, from June 1998 to December 2004, I have personal knowledge of 3GPP’s standard business and records keeping practices. I continued following 3GPP’s work ever since. Thus, based on my experience, personal knowledge, and review of 3GPP’s business records, I am able to testify regarding the authenticity of certain documents published by 3GPP and the timing of their publication.

4. I am also knowledgeable about document management practices and the usage of email reflectors in TSG RAN WG1. This is due to the fact that all 3GPP working groups used the same document repository on <ftp.3gpp.org> and all working groups use the same email exploder tool. Thus, I’m able to testify regarding the availability and authenticity of any 3GPP documents.

5. I am being compensated for my time spent on this matter at my usual rate of €450 per hour. My fee is not contingent on the outcome of this or any matter,

Declaration of Friedhelm Rodermund

or on the content of any of the testimony I give in this declaration. I have no financial interest in Petitioner.

6. I have been informed that Ericsson (hereinafter referred to as “Patent Owner”) alleges ownership and is the current assignee of U.S. Patent No. 9,860,044 (“the ’044 Patent”) (Ex. 1001). I have no financial interest in the Patent Owner or the ’044 patent.

II. **BACKGROUND AND QUALIFICATIONS**

7. I have more than 20 years of experience working with standards development organizations including the Third Generation Partnership Project (“3GPP”), the European Telecommunications Standards Institute (“ETSI”), and the Open Mobile Alliance (“OMA”). I have particular experience with the development of standards related to cellular telecommunications, including the standards for the Universal Mobile Telecommunications System (“UMTS”), Long Term Evolution (“LTE”), and 5G, which are all standards developed by the 3GPP.

8. I attended the University of Technology Aachen in Aachen, Germany, where I performed graduate studies in Electrical Engineering with a focus on telecommunications technologies (“Dipl.-Ing. TH” degree). I also attended the University of Technology Trondheim in Trondheim, Norway, and completed my

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