

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

ERICSSON INC. (“ERICSSON”)

Petitioner

- vs. -

INTELLECTUAL VENTURES II LLC (“INTELLECTUAL VENTURES”)

Patent Owner

U.S. Patent No. 8,682,357

DECLARATION OF CRAIG BISHOP

I. INTRODUCTION

I, Craig Bishop, declare as follows:

1. I have been retained as an independent expert witness on behalf of Ericsson Inc. (“Ericsson”) related to *Inter Partes* Review (“IPR”) of U.S. Patent No. 8,682,357 (“the ’357 patent”).

2. I am being compensated for my work in this matter at my accustomed hourly rate. I am also being reimbursed for reasonable and customary expenses associated with my work and testimony in this investigation. My compensation is not contingent on the results of my study, the substance of my opinions, or the outcome of this matter.

3. In the preparation of this declaration I have reviewed the exhibits referenced below, each of which is a type of material that experts in my field would reasonably rely upon when forming their opinions:

1) R2-060905, *Access procedure for TDD, CATT, RITT, 3GPP*

RAN1/RAN2 joint meeting on LTE, March 27 – March 31, 2006,

available at: http://www.3gpp.org/ftp/tsg_ran/wg2_r12/TSGR2_52/

Documents/ (“R2-060905”) (**Ex. 1007**).

2) R2-060988, *PCH mapping and Paging control, CATT, 3GPP*

RAN1/RAN2 joint meeting on LTE, March 27 – March 31, 2006,

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available at: http://www.3gpp.org/ftp/tsg_ran/wg2_rl2/TSGR2_52/

Documents/ (“R2-060988”) (**Ex. 1005**).

- 3) R2-061014, *Disucssion on LTE Paging and DRX*, LG Electronics, Joint RAN WG1 and RAN WG2 on LTE, March 27 – March 31, 2006, available at: http://www.3gpp.org/ftp/tsg_ran/wg2_rl2/TSGR2_52/Documents/ (“R2-061014”) (**Ex. 1006**).
- 4) R1-050629, *Inter-cell Interference Mitigation*, Huawei, June 20 – June 21, 2005, available at: http://www.3gpp.org/ftp/tsg_ran/wg1_rl1/TSGR1_AH/LTE_AH_0506/Docs/ (“R1-050629”) (**Ex. 1008**).
- 5) 3GPP TR 25.813, V0.6.0, 2006-03, available at:
<https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=1246> (**Ex. 1013**).
- 6) Craig Bishop, *Curriculum Vitae* (**Appendix A**).
- 7) 3GPP FAQs, available at: <http://www.3gpp.org/about-3gpp/3gpp-faqs> (**Appendix B**).
- 8) Internet Archive Capture of the 3GPP FAQ webpage, available at:
https://web.archive.org/web/20051225051904/http://www.3gpp.org/faq/faq_2005_2.htm (**Appendix C**).
- 9) 3GPP Webpage from Feb. 12, 2005, available at:

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<https://web.archive.org/web/20050212152041/http://list.3gpp.org:80/>

(Appendix D).

10) Quan, Haiyang, *CATT contributions for the RAN1/RAN2 joint*

meeting, March 21, 2006, available at: [https://list.etsi.org/](https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=39601)

[scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=39601](https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=39601)

(Appendix E).

11) R2-060905, *Access procedure for TDD*, CATT, RITT, 3GPP

RAN1/RAN2 joint meeting on LTE, March 27 – March 31, 2006,

available in R2-060905.zip at: [https://list.etsi.org/scripts/](https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=39601)

[wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=39601](https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=39601)

(Appendix F).

12) Quan Haiyang, *CATT contributions for RAN1/RAN2 JM*, March 24,

2006, available at: [https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=](https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=77863)

[3GPP_TSG_RAN_WG2&P=77863](https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=77863) **(Appendix G).**

13) R2-060988, *PCH mapping and Paging control*, CATT, 3GPP

RAN1/RAN2 joint meeting on LTE, March 27 – March 31, 2006,

available in R2-060988.zip at: [https://list.etsi.org/scripts/](https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=77863)

[wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=77863](https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=77863)

(Appendix H).

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- 14) SungJun Park, *LG Contributions(2) on Joint Meeting in Athens*, LG Electronics, March 21, 2006, available at:
https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=46692 (**Appendix I**).
- 15) R2-061014, *Disucssion on LTE Paging and DRX*, LG Electronics, Joint RAN WG1 and RAN WG2 on LTE, March 27 – March 31, 2006, available in R2-061014.zip at:
https://list.etsi.org/scripts/wa.exe?A2=ind0603&L=3GPP_TSG_RAN_WG2&P=46692 (**Appendix J**).
- 16) Gaoke Du, *Huawei Contributions on RAN1 LTE Ad hoc Meeting*, Huawei, June 16, 2005, available at: https://list.etsi.org/scripts/wa.exe?A2=ind0506&L=3GPP_TSG_RAN_WG1&P=26850 (**Appendix K**).
- 17) R1-050629, *Inter-cell Interference Mitigation*, Huawei, June 20 – June 21, 2005, available in R1-050629.zip at:
https://list.etsi.org/scripts/wa.exe?A2=ind0506&L=3GPP_TSG_RAN_WG1&P=26850 (**Appendix L**).
- 18) Benoist Sebire, *[LTE] Updated TR 25.813*, Nokia, March 15, 2006,

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