IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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AKAMAI TECHNOLOGIES, INC.,
Petitioner

v.

EQUIL IP HOLDINGS LLC,
Patent Owner

_____

Case IPR2023-00332
U.S. Patent No. 9,158,745

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**DECLARATION OF DR. MARK T. JONES**
**IN SUPPORT OF PATENT OWNER'S PRELIMINARY RESPONSE**

*Mail Stop "PATENT BOARD"*
Patent Trial and Appeal Board
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

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I, Mark. T. Jones, hereby declare as follows.

## I.       INTRODUCTION

1.       I have been retained on behalf of Patent Owner Equil IP Holdings LLC ("Equil IP") for the above-captioned *inter partes* review (IPR). I understand that this proceeding involves U.S. Patent No. 9,158,745 ("the '745 patent") titled "Optimization of media content using generated intermediate media content."

2.       I understand that Sean Barger, Brian Rice, Matt Butler, and David Pochron are the named inventors of the '745 patent. I also understand that the '745 patent is currently assigned to Equil IP.

3.       I have reviewed and am familiar with the following documents:

| Paper or Exhibit No. | Description |
|---|---|
| 2 | Akamai Technologies' Petition for *Inter Partes* Review of U.S. Patent No. 9,158,745 |
| 1001 | U.S. Patent No. 9,158,745 ("the '745 patent") |
| 1002 | File History of U.S. Application No. 13/752,110 |
| 1007 | U.S. Patent Application Publication No. US 2002/0078093 ("Samaniego") |
| 1010 | File History of U.S. Application No. 11/269,916 |
| 1013 | Redline Comparison of specifications from Samaniego and the '745 patent |
| 1021 | Redline Comparison of specifications from Samaniego and Publication No. 2006/0265476 of Application No. 11/269,916 |

| Paper or Exhibit No. | Description |
|---|---|
| 1026 | File History of U.S. Application No. 12/173,747 |
| 1027 | File History of U.S. Application No. 12/238,842 |
| 1028 | Redline Comparison of specifications from Samaniego and Publication No. 2009/0070485 of Application No. 12/173,747 |
| 1029 | Redline Comparison of specifications from Samaniego and Publication No. 2009/0089422 of Application No. 12/238,842 |
| 1035 | File History of U.S. Application No. 09/929,904 |
| 2002 | Curriculum Vitae of Dr. Mark T. Jones |

## II.    QUALIFICATIONS

4.      My CV is attached as EX2002. I am a Professor Emeritus of Electrical and Computer Engineering at Virginia Tech in Blacksburg, Virginia. I graduated *summa cum laude* from Clemson University in 1986 with a B.S. in Computer Science and a minor in Computer Engineering, while holding a National Merit Scholarship and the R. F. Poole Scholarship. I then graduated from Duke University in 1990 with a Ph.D. in Computer Science, while holding the Von Neumann Fellowship.

5.      Upon graduation, I joined the Department of Energy at its Argonne National Laboratory facility. My responsibilities there included the design and use of software for computers with hundreds of processing elements. This software was designed for compatibility with new parallel computer architectures as they

became available, as well as with other large software components being written in

the Department of Energy. While with the Department of Energy, I received the

IEEE Gordon Bell Prize.

6.        In 1994, I joined the Computer Science faculty at the University of

Tennessee. My teaching responsibilities included computer architecture and

computer networking. My research interests included the design and use of

software that used the collective power of large groups of workstations. While at

the University of Tennessee, I received a CAREER Award from the National

Science Foundation.

7.        In 1997, I joined the Electrical and Computer Engineering faculty at

Virginia Tech. My teaching responsibilities have included the design of embedded

systems, computer organization, computer architecture, a variety of programming

courses, and parallel computing. I have been cited multiple times on the College of

Engineering's Dean's List for teaching.

8.        In addition to the activities, education, and professional experience

listed above, I have been involved in research projects that contribute to my

expertise relating to this report. While at Virginia Tech, I have been a primary or

co-investigator on government and industrial research grants and contracts in

excess of five million dollars.

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