UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GUEST TEK INTERACTIVE ENTERTAINMENT LTD.,
Petitioner,

v.

NOMADIX, INC.,
Patent Owner.

Case IPR2019-00253
Patent 8,626,922

DECLARATION OF STUART G. STUBBLEBINE, PH.D.

1. I, Stuart G. Stubblebine, Ph.D., am making this declaration at the request of Nomadix in the matter of IPR2019-00258 before the Patent Trial and Appeal Board (PTAB) of the United States Patent and Trademark Office, which involves Guest Tek Interactive Entertainment Ltd.'s petition for *inter partes* review of U.S. Patent No. 8,626,922 ("the '922 patent").

2. I am being compensated for my work in this matter on an hourly-fee basis. My compensation does not depend in any way on the outcome of this proceeding.

3. In this declaration, I will use the following abbreviations for the following documents, which I have reviewed and considered:

Short Name	**Reference**	**Record Citation**
'922 patent	U.S. Patent No. 8,626,922	Exhibit 1001
Dordal Decl.	Declaration of Dr. Peter Dordal	Exhibit 1002
Bonomi	U.S. Patent No. 5,864,540	Exhibit 1004
Chandran	U.S. Patent No. 7,392,279	Exhibit 1005
Borella	U.S. Patent No. 6,587,433	Exhibit 1006
Rupp	*INDEX: A Platform for Determining how People Value the Quality of their Internet Access*	Exhibit 1007
Teraslinna	U.S. Patent No. 5,623,492	Exhibit 1008
Petition	Petition for *Inter Partes* Review of U.S. Patent No. 8,626,922	Paper 1
Institution Decision	Decision Granting Institution of *Inter Partes* Review	Paper 6

I. PROFESSIONAL BACKGROUND

4. I have over 30 years of experience studying, researching, and working with computers, computer programming, and networks. I received a Bachelor of Science degree in Computer Science and Mathematics in 1983 from Vanderbilt University, a Master of Science degree in Electrical Engineering in 1988 from the University of Arizona, and a Ph.D. degree in Electrical Engineering in 1992 from the University of Maryland.

5. I served in the U.S. Army from 1984 to 1987, focusing on telecommunications. From 1985 to 1987, I was an instructor at the City Colleges of Chicago, teaching undergraduate computer science courses relating to programming and system analysis and design. Then, in 1988, as a Research Assistant in the Electrical and Computer Engineering Department at the University of Arizona, I worked on a video, telecommunication, and distributed computer architecture for conferencing. Among other things, I optimized the network design and communication protocols for the system.

6. From 1989 to 1990, I was the Director of Secure Systems Engineering at Commcrypt, where I led research and development in several security-related areas, including network and file server architectures, automated cryptographic key management, and secure e-mail. At Commcrypt, I also worked with the National

Institute of Standards and Technology to establish national standards for secure programming.

7. From 1990 to 1991, while conducting my doctoral research at the University of Maryland, I also taught a laboratory component of an upper division computer engineering course. From 1991 to 1992, while continuing my doctoral research, I worked as a Computer Scientist and consultant in the Federal Systems Division of IBM. In that capacity, I analyzed the security of certain network architectures and distributed computing systems and identified significant vulnerabilities in Privacy-Enhanced Electronic Mail and the Kerberos network authentication service.

8. After receiving my Ph.D. in 1992, I had a joint appointment at the University of Southern California as a Research Assistant Professor in the Computer Science Department and as a Computer Scientist with the Information Sciences Institute, from 1992 to 1994. I continued on at USC for the next four years as an adjunct faculty member in the Computer Science department. During my time at USC, among several other responsibilities, I advised students on research in computer networks and security. I also conducted research relating to minimizing delay and bandwidth for protecting traffic flow confidentiality in networks and contributed to the design of the Real-Time Transport Protocol.

9. During part of my time at USC, from 1994 to 1998, I was also a researcher at AT&T Bell Labs (later AT&T Labs – Research), performing research in computer and network security technology. While at Bell Labs, I worked on numerous projects, including projects involving research into secure Internet telephony, attacks on the IPSEC protocol and security for e-commerce services.

10. From 1998 to 2001, I was a Vice President and Cryptographer at CertCo, Inc., conducting research, design, and analysis of public key infrastructure protocols and related risk management services. Beginning in 2001, I formed Stubblebine Consulting and Stubblebine Research Labs, and began my affiliation as a professional researcher with the Computer Science department at the University of California, Davis.

11. I was an Associate Editor of Association for Computing Machinery (ACM) Transactions on Information and System Security, the premier academic journal in the area of network and computer security, and a member of its editorial board from January 2000 to April 2007. I was an invited editor for the Special Issue on Software Engineering and Security for ACM Transactions on Software Engineering and Methodology in 2000.

12. I was a member of the Program Committee, ACM Conference on Computer and Communications Security in 1996, 1997, 2002, and 2003. I was also a member of the Program Committee, Formal Methods in Security Engineering

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