

#### **DECLARATION OF GERARD P. GRENIER**

I, Gerard P. Grenier, am over twenty-one (21) years of age. I have never been convicted of a felony, and I am fully competent to make this declaration. I declare the following to be true to the best of my knowledge, information and belief:

- 1. I am Senior Director of Content Management of The Institute of Electrical and Electronics Engineers, Incorporated ("IEEE").
- 2. IEEE is a neutral third party in this dispute.
- 3. Neither I nor IEEE itself is being compensated for this declaration.
- 4. Among my responsibilities as Senior Director of Content Management, I act as a custodian of certain records for IEEE.
- 5. I make this declaration based on my personal knowledge and information contained in the business records of IEEE.
- 6. As part of its ordinary course of business, IEEE publishes and makes available technical articles and standards. These publications are made available for public download through the IEEE digital library, IEEE Xplore.
- 7. It is the regular practice of IEEE to publish articles and other writings including article abstracts and make them available to the public through IEEE Xplore. IEEE maintains copies of publications in the ordinary course of its regularly conducted activities.
- 8. The article below has been attached as Exhibit A to this declaration:

A.		B.Rupp, et. al., "INDEX: a platform for determining how people value
		the quality of their Internet access" 1998 Sixth International Workshop on
		Quality of Service, May 18-20, 1998.

- 9. I obtained a copy of Exhibit A through IEEE Xplore, where it is maintained in the ordinary course of IEEE's business. Exhibit A is a true and correct copy of the Exhibit, as it existed on or about June 12, 2019.
- 10. The article abstracts from IEEE Xplore shows the date of publication. The date of publication is no later than the last day of the conference at which an article is presented. IEEE Xplore populates this information using the metadata associated with the publication.

- 11. B.Rupp, et. al., "INDEX: a platform for determining how people value the quality of their Internet access" was published as part of the conference proceedings for the 1998 Sixth International Workshop on Quality of Service. The 1998 Sixth International Workshop on Quality of Service was held from May 18-20, 1998. Copies of the conference proceedings were made available to attendees of the conference in accordance with IEEE's normal business practices no later than the last day of the conference. The article is currently available for public download from the IEEE digital library, IEEE Xplore.
- 12. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001.

I declare under penalty of perjury that the foregoing statements are true and correct.

Executed on: 12. June - 2019

# EXHIBIT A

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services. Future growth depends on the division of services into quality-differentiated market segments and the pricing structure of each segment. Successful growth requires service providers to offer combinations of quality and price that match user needs, but to do this, providers must understand the structure of user demand. Such understanding is				Provided by: Provided by: Pr	
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	lacking at present. This paper understanding of how individu		•		
service (QoS) choices. The Internet Demand Experiment (INDEX) has two main objectives: (a) measurement of user demand for Internet access as a function of QoS,					
	pricing structure and application that provides access to a dive	on; and (b) the demonstra	ation of an end-to-e	nd system	
	The data being collected is ex and service demand, how der	pected to reveal the corre	elation between use	r application	

**Published in:** 1998 Sixth International Workshop on Quality of Service (IWQoS'98) (Cat. No.98EX136)

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