

Committee on Energy and Commerce
U.S. House of Representatives
Witness Disclosure Requirement - "Truth in Testimony"
Required by House Rule XI, Clause 2(g)(5)

1. Your Name: Dr. Walt Magnussen		
2. Your Title: Director, Internet2 Technology Evaluation Center (ITEC)		
3. The Entity(ies) You are Representing: Texas A&M University		
4. Are you testifying on behalf of the Federal, or a State or local government entity?	Yes X	No
5. Please list any Federal grants or contracts, or contracts or payments originating with a foreign government, that you or the entity(ies) you represent have received on or after January 1, 2015. Only grants, contracts, or payments related to the subject matter of the hearing must be listed.		
6. None		
7. Please attach your curriculum vitae to your completed disclosure form.		

Signature: _____

Date: 26 Mar 2017

INSTRUCTIONS FOR COMPLETING THE TRUTH-IN-TESTIMONY DISCLOSURE FORM

In General. The attached form is intended to assist witnesses appearing before the Committee on Energy and Commerce in complying with Rule XI, clause 2(g)(5) of the Rules of the House of Representatives, which provides:

(B) In the case of a witness appearing in a nongovernmental capacity, a written statement of proposed testimony shall include a curriculum vitae and a disclosure of any Federal grants or contracts, or contracts or payments originating with a foreign government, received during the current calendar year or either of the two previous calendar years by the witness or by an entity represented by the witness and related to the subject matter of the hearing. (C) The disclosure referred to in subdivision (B) shall include (i) the amount and source of each Federal grant (or subgrant thereof) or contract (or subcontract thereof) related to the subject matter of the hearing; and (ii) the amount and country of origin of any payment or contract related to the subject matter of the hearing originating with a foreign government. (D) Such statements, with appropriate redactions to protect the privacy or security of the witness, shall be made publicly available in electronic form not later than one day after the witness appears.

Please complete the form in accordance with these directions.

1. ***Name, Title, Entity(ies) (Items 1-3 on the form).*** Please provide the name and title of the witness and the entity(ies) on whose behalf the witness is testifying.
2. ***Governmental Entity (Item 4).*** Please check the box indicating whether or not the witness is testifying on behalf of a government entity, such as a Federal department or agency, or a State or local department, agency, or jurisdiction. Trade or professional associations of public officials are not considered to be governmental organizations.

Grants and Contracts (Item 5). Please list any Federal grants or contracts, or contracts or payments originating with a foreign government, that you or the entity(ies) you represent have received on or after January 1, 2015. For each Federal grant (or subgrant thereof) or contract (or subcontract thereof) related to the subject matter of the hearing, please include the amount and source of each. For each payment or contract originating with a foreign government related to the subject matter of the hearing, please include the amount and country of origin of each. Only grants, contracts, or payments related to the subject matter of the hearing must be listed.
3. ***Curriculum Vitae (Item 6).*** Please attach your CV to your completed disclosure form.
4. ***Submission.*** Please sign and date the form in the appropriate place. Please submit this form with your written testimony. Please note that under the Committee's rules, copies of a written statement of your proposed testimony must be submitted before the commencement of the hearing. To the greatest extent practicable, please also provide a copy in electronic format according to the Electronic Format Guidelines that accompany these instructions.

**Vita of
Walter R. Magnussen, Jr.**

EDUCATION

Bachelor of Arts Business Administration, University of Minnesota - 1981

Masters of Business Administration, University of Minnesota - 1987

Ph. D., Texas A&M University – 2003

- Research topic QoS enabled networks for use in Distance Education.

WORK EXPERIENCE

Chief Information Technology Consultant for Vendor and Agency Relations, Texas A&M University 1991-present.

Responsible for all telecommunications systems including 23,000 line telephone switch, 800 Mhz radio system, fiber optic plant supporting 290 buildings, cellular services, campus cable television network and the computer support group for the 1,100 employee Physical Plant. Provide all engineering support for Trans Texas Video network. This is a 105-site video conference network comprised of T1, DS-3 and OC-3 circuits. Designed the distance education networks with links in over 18 countries in Latin America, Europe and Africa.

Director for VoIP Internet2 Technology Evaluation Center (ITEC) 2004 - present. The ITEC was established in October of 2004 and is one of four such centers in the world. The focus of this Center is on VoIP deployment initiatives and information assurance. The center was awarded over two million dollars in research grants and projects in it's first six months of operation, including a \$1.3 million grant from the United States Department of Commerce to demonstrate a Next Generation E-911 VoIP system. Subsequently the ITEC has received grants from the United States Department of Transportation, the State of Texas, Verizon and the National Science Foundation for NG911 related work. The ITEC has become the premier emergency communications research facility in the United States. In 2010 the ITEC began work in the Public Safety Broadband Network space and since then has done work with the Department of Defense, Department of Homeland Security, Department of Commerce and the Canadian Ministry of Security.

Associate Director for Academy for Telecommunications and Advanced Learning Technologies 1997 - present.

Responsible for the advancement of telecommunications initiatives in support of advanced research and academic instruction. Directed the design of a campus Asynchronous Transfer Mode (ATM) backbone utilizing OC-48 linked switches.

Public Safety Advocate for Internet2's United States Unified Community Anchor Network (US UCAN). US UCAN is a \$96 million project to build a national network. In this capacity I was invited by the White House and Department of Homeland Security to chair Panels on emerging technology. May 2011 - present

Serve on Corporate Advisory Board of four corporations.

Expert witness work on 12 cases involving patent infringement and intellectual property. These cases all involved VoIP services, Wireless Cellular device location and Unified Messaging. Experience includes both deposition and trial testimony on two cases.

Partner, Magnussen Hall & Associates consulting firm 1998-present.

Designed several voice, data and video systems for Independent School Districts, State Agencies, Municipalities, Colleges and Universities (foreign and domestic).

Lead faculty in Telecommunications Certificate program for University of Texas, Engineering Continuing Education Program, 1988 - 2001.

Teach Data Communications and Network Design courses.

Network Manager for Texas A&M University 1986-1991.

Responsible for 32,000 node ethernet, campus FDDI backbone, IBM SNA and Token Ring networks.

Associate Training Specialist, Telecommunications Training Division, Texas Engineering Extension Service, 1984-1986.

Taught data communications and fiber optic engineering and technology courses.

INTERNATIONAL EXPERIENCE

Projects include:

- The design and supervision of installation of videoconference networks in Mexico, Costa Rica, Dominican Republic, Columbia, and Barbados. Site visits and design work for future installations include Chile, Peru, Bolivia, Ghana, Nicaragua, Guatemala, Brazil and China.
- Design the complete communications infrastructure for new campuses being built in Morocco (34 buildings in Ifrane), Saudi Arabia (2 buildings in Jeddah) two campuses in Qatar and Azerbaijan (2 buildings in Baku). These projects included voice, video and data networks.

OTHER ACCOMPLISHMENTS

- Appointed to Association of Public-Safety Communications Officials (APCO) Project 43 which is intended to develop interconnection standards between NG 9-1-1 networks and Public Safety Broadband Networks.
- Appointed to FCC's Emergency Response Interoperability Center (ERIC) Technical Advisory Committee which is responsible for recommending strategy

that will ensure interoperability of the Public Safety DBlock spectrum. (July 2010)

- Appointed to FCC's Communications Reliability, Security and Interoperability Council (CSRIC) II Working Group #7. Chair the WG#7 Technical Subcommittee that is tasked with making recommendation for prioritization of emergency traffic (March 2010)
- Invited to serve as Subject Matter Expert at FCC Hearing to establish a 10 digit dialing plan for direct dialing for the hearing impaired and deaf (June 2008).
- Network Team Leader for National Institute for Standards and Technology Building Information Exchange for First Responders project. (October 2008)
- Principle Investigator for a United States Department of Transportation NG911 project to deploy proof of concept NG911 system in 5 PSAPs across the United States. This project involved a partnership with Booz Allen Hamilton, NENA, Kimball and Associates Columbia University. <http://www.its.dot.gov/ng911>
- Co-Principle Investigator for National Science Foundation NG-911 Security Test Bed project. This is a four year funded project which includes Columbia University and the University of North Texas.
- Chair – Internet2 Voice Over IP working group.
- Co-Chair, Internet2 IPTV Special Interest Group.
- Serving on Editorial Board of Mission Critical Magazine
- Chair Motorola Trunked Users Group Network Interoperability Working Group
- Co-Chair Motorola Trunked Users Group Public Safety Broadband Committee
- Member of National Emergency Number Association (NENA) Next Gen Partners Program Steering Committee, July, 2013 – present
- Co-Chair of National Emergency Number Association (NENA) Next Gen Partners Program, Applications and Technical Initiatives Sub-Committee, July, 2013 – present
- Member of Association of Police Communications Officers (APCO) 9-1-1 Emerging Technologies Committee. July 2013 - present
- Task Force Chair for a project to establish a emergency communications Hurricane Disaster Recovery Checklist for Higher Education with ACUTA and the ATIS standards body. www.acuta.org
- President for the Association of Communications Technology Professionals in Higher Education (ACUTA) in 2007/2008.
- Recipient of ACUTA's Bill D. Morris Award.
- Recipient of Texas A&M Universities Distinguished Faculty & Staff Award.
- Member of Legislatively appointed Telecommunications Planning and Operations Council (TPOC) and Chaired the Operational Subcommittee (2001 to 2009). This group was responsible for the oversight of the State of Texas network
- Member of bid development and evaluation teams for State of Texas TexAN network for 1994, TexAN III and 1999 TexAN 2000. The TexAN 2000 network is the second largest Virtual Private Network (VPN) in the world.
- Presenter at over 300 conferences and meetings on topics involving communications technology and distance education. Conference presentations

include sessions at major conferences such as Supercom, FOCUS, VoiceCon, VON, ACUTA, Internet2, Educause, NENA and several others.

- Honorable discharge from United States Air Force after having served for five years as a security and communications specialist. Held Top Secret EBI Clearance approved for work in secure communications.

PUBLICATIONS

Magnussen, W.; “ATM Delivers Voice”, Data, Video: *Journal of Telecommunications in Higher Education*: Vol 1. No. 1. Spring 1997.

[Shengquan Wang](#), [Zhibin Mai](#), Walt Magnussen, [Dong Xuan](#), [Wei Zhao](#): Implementation of QoS-Provisioning System for Voice over IP. [IEEE Real Time Technology and Applications Symposium 2002](#): 266-275.

Dooley, K.E., Linder J.R., Dooley, L.M. 2005. *Advance Methods in Distance Education: Applications and Practices for Educators, Administrators and Learners*. Hershey, Pa:Information Science Publishing. Contributed Chapter X, Delivery Technology.

Magnussen, W;”Preparing Your Campus for a VoIP Conversion”, *Journal of Communications Technology in Higher Education*: Vol 11. No. 2. Summer 2007.

Gupta, Neeraj K.; Dantu, Ram; Schulzrinne, Henning; Goulart, Anna; and Magnussen, Walt (2010) "Next Generation 9-1-1: Architecture and Challenges in Realizing an IP-Multimedia-Based Emergency Service", *Journal of Homeland Security and Emergency Management*: Vol. 7 : Iss. 1, Article 76.

Goulart, A; Zacchi, A; Chintapatla, B; Magnussen, W; “Lessons Learned on the Operation of the LoST Protocol for Mobile IP-Based Emergency Calls”, *International Journal of Information Systems for Crisis Response and Management*, 2(3), 1-24, July – September, 2010.

Desai, U; Alagesan, S; Goulart, A; Magnussen, W; “Performance of Secure SIP and LoST Signaling in a Next Generation 9-1-1 Testbed,” 2012 Annual IEEE Communications Quality and Reliability International Workshop, June, 2012

Magnussen, W, “Video’s NG 9-1-1 Potential”, Mission Critical Communications, November 2011.

Magnussen, W, “NG 9-1-1 and LTE: A Beneficial Union”, Mission Critical Communications, March 2012.

Magnussen, W, “U.S. UCAN A Public Safety National Backbone; Mission Critical Communications,” June, 2013.

Magnussen, W, McConnell, J. “Building a Mission Critical Data Network – The Managed Facilities Based Voice Network” ACUTA Journal of Information Communications Technology in Higher Education, Spring 2012.

Casey, J., Rajagopalana, S., Yan, M., Booker G., Sprintson, A., Magnussen, W. “Supporting Voice over LTE – Solutions, Architectures and Protocols”. IEEE Conference Proceedings, International Conference on Computers and Communications Networks, Nassau Bahamas, July, 2013.

Magnussen, W. “VoIP meets the Cloud”, ACUTA Journal of Information Communications Technology in Higher Education, Fall 2012.