



FAROOQ BARI

Farooq Bari is Lead Member Technical Staff with AT&T. His work in standards arena spans more than twelve years. This includes participation and contribution to 3GPP System Architecture WG, IETF, IEEE 802.11 WGs, GSMA, NGMN, and ATIS. He has been an active participant in the area of M2M in various bodies that includes contributing to 3GPP's M2M work and acting as it's liaison to ITU-T IoT JCA. He is also a member Editorial Board of IET journal on Wireless Sensor Systems. He is a long time member and volunteer of IEEE and currently is a member and treasurer of IEEE Communication Society Standards Development Board and member of IEEE Corporate Advisory Group. He also chairs GSMA – WBA Joint Task Force on Wi-Fi Roaming. Before working in standards, he worked primarily as a research engineer, developing real-time embedded systems some of which were a pre-cursor to today's m2m devices. He holds a PhD in Electrical / Computer Engineering from University of British Columbia, Vancouver, Canada.

EDUCATION

PhD in Electrical/Computer Engineering
University of British Columbia, Vancouver, Canada

M.Sc. in Electrical/Computer Engineering
Virginia Polytechnic Institute & State University, Blacksburg, Virginia, USA

B.Sc. Honors in Electrical Engineering
University of Engineering and Technology, Lahore, Pakistan

STANDARDS RELATED WORK EXPERIENCE

AT&T, 2000 – Present, Redmond, Washington, USA
Lead Member of Technical Staff, *Strategic Standards*

In 3GPP I have contributed to architecture work for the past ten years.

Current activities where I am involved include work on

- Machine to machine communication
- Integration of Cellular and Wi-Fi technologies
- Congestion Management

Examples of prior work include

- Development of the Evolved Packet Core

- Fixed mobile network convergence including use of WiFi and Femto
- Operator policy and charging framework enhancements (Rapporteur)
- IPV6 migration issues
- Inter-working of 3GPP system with WLAN
- Development of Internet Multimedia Subsystem (IMS) etc.

My current work in GSMA has primarily been in support of EMC. This includes my role as the Chair of Wi-Fi Roaming Taskforce for collaborative work between the GSMA and WBA. Other examples of work in the past include work on LTE, VoIP and IPV6 roaming issues in GSMA.

My involvement in ATIS relates to Focus Groups and Landscape teams that work under the direct guidance of Technology and Operation Council (TOPS). The topics under consideration involve technology, business and regulatory aspects. I have represented AT&T on Network Optimization and Policy Focus Group.

In IEEE I am involved in governance of IEEE wide standards through my membership of Corporate Advisory Group (CAG) that reports directly to IEEE SA Board. I also serve on the standards board of IEEE Communication Society along with acting as its treasurer. I am also a member of IEEE's Internet of Things (IoT) Advisory Group providing recommendations to IEEE Board of Governors.

In the past I have represented AT&T in Next Generation Mobile Network (NGMN) Forum in various capacities including as a member of Technical Steering Group managing all NGMN projects as well as a member of Ecosystem Work Group that performed analysis of next generation mobile ecosystem to identify gaps where further industry work is needed. I have also represented AT&T Wireless in IETF, IEEE 802.11 and IEEE 802.21.

PUBLICATIONS

- Authored / co-authored approximately 15 journal / conference / magazine papers, book chapters and IETF RFCs.
- Authored / co-authored several hundred contributions to 3GPP system architecture Working Group from 2001 – Present.
- Co-authored several proposals included in development of IEEE 802.11u (a key part of Hotspot 2.0) and contributed to IEEE 802.21 work.
- Invited presentations in several local and international technology events

PROFESSIONAL AND COMMITTEE MEMBERSHIPS / POSTIONS

- Member Standards Development Board, IEEE Communication Society (2012-Present)
- Member Corporate Advisory Group (CAG), reporting to IEEE SA Board (2011-Present)
- Chair GSMA – WBA Joint Wi-Fi Roaming Task Force (2011 - Present)
- Member Editorial Board, IET Journal on Wireless Sensor Systems (2010 – Present)
- Guest Editor (Telecommunication Standards), IEEE Communication Magazine, March 2013
- Senior Member IEEE
- Member ACM SigMobile, IEEE Comsoc, IEEE Computer Society, IEEE Standards Association
- Member Technical Planning Committee, Member Organizing Committee for several technical conferences
- Reviewer for submissions in several international journals and conferences in the area of telecommunications