

Lecture Series in Communication 2011

Speaker: **Dr. Suresh Borkar**, Illinois Institute of Technology, USA

Topic: **Public Safety National Broadband Network**

It is of the highest national priority to provide public safety with a nationwide, interoperable, broadband wireless network especially in disaster situations. In the US, 3GPP Long Term Evolution (LTE) is considered the appropriate technology for such an application. It is expected that, in addition to the dedicated LTE based broadband network, the public safety user will have access to commercial networks for nationwide access during the period of public safety network build out or where only the commercial network is present especially in the rural areas. This presentation, based on a recent study submitted to US Federal Communications Commission (FCC), presents the packet transport and LTE access based architectural solution and illustrates how this solution using both the dedicated public safety and the commercial networks meets the public safety priority requirements. The multiple priority mechanisms defined in the LTE standards that support the priorities for public safety radio admission, user traffic bearer assignments, Quality of Service (QoS) treatment, and preemption are highlighted. Simulation results are presented illustrating the robust priority management in both the dedicated and the shared commercial environments.

This critical study addresses the concerns relating to the priority treatment for public safety priority users especially in the shared commercial environment and forms the basis for defining the strategies and enabling the architectural decisions for nationwide public safety broadband network.

Venue : Auditorium, **Pune Vidhyarthi Griha's (PVG) College of Engineering and Technology**, Pune.
44, Vidya Nagari, Shivdarshan, Parvati, Pune - 411009 Maharashtra – INDIA
Location Map: <http://www.pvgcoet.ac.in/coet,93,map.html>

Date : **6th August 2011** (Saturday)

Time: 10:30 AM,

Duration: 90 minutes

Programme:

Time	Details
10:30 AM – 10:35 AM	Welcome and Introduction of the speaker
10:35 AM – 10:40 AM	Felicitation
10:40 AM – 10:45 AM	IEEE & IEEE Communication Society – Membership benefits
10:45 AM – 11:45 AM	Public Safety National Broadband Network
11:45 AM – 11:55 AM	Q & A Session
11:55 PM – 12 Noon	Vote of Thanks

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Speaker:

Dr. Suresh Borkar



Dr. Suresh Borkar is currently a member of the faculty in the Electr. and Computer Engr (ECE) department at the Illinois Institute of Tech (IIT), Chicago. He is also a Senior Principal Investigator with Roberson and Associates, a Technology and Management consulting company. He was previously with AT&T/Lucent Technologies/Alcatel-Lucent (ALU) for over 26 years responsible for various facets of product management, systems engineering, architecture, development, integration and testing, and customer management in Computer and Networking systems, Wireline Switching systems, Data systems, and Wireless systems. He was the Director for Customer Management for 3G mobility systems responsible for customer positioning, acceptance, and revenue realization. He was also the Chief Technology Officer (CTO) and Managing Director, Lucent India Inc. between 1997 – 2000.

Dr. Suresh consults, develops knowledge share, and teaches advanced courses in Telecommunications for the Academia, IEEE, and the industry. He has been an organizer and moderator of conferences and panel discussions on 3G/4G Cellular Systems, Next Generation Networks (NGNs), WiMAX, and Real Time Communications systems. He is a reviewer of papers submitted to the IEEE and text books in communications.

Suresh received his B. Tech. in EE from IIT Delhi (India) and M.S. and Ph. D. in ECE from Illinois. Instt. of Tech, Chicago.

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