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Next Generation Converged Network Architecture and Applications

by Amit Mukhopadhyay (joint work with Carlos Uttutia-Valdés) , Bell Labs, Alcatel-Lucent

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About the Presenters

AMIT MUKHOPADHYAY is a distinguished member of technical staff at Bell Labs in Murray Hill, New Jersey. He holds a Ph.D. degree in Operations Research from the University of Texas at Dallas. His current work focuses on 3G and beyond wireless technologies, Cable and Broadband Access. He works closely with global service providers to help define the course of Next Generation Networks. He is a senior member of the IEEE and has numerous publications.

CARLOS URRUTIA-VALDÉS is a member of technical staff in the Advanced Wireless and Optical Network Modeling and Optimization Group of Bell Labs in Murray Hill, New Jersey. He holds a B.S. in electrical engineering from Florida International University in Miami and an M.S. in computer engineering from the University of Southern California in Los Angeles. His current work focuses on network modeling of 3G wireless networks and enabling core technologies. His previous work involved the design of TDM, packet, and SS7 networks, and SS7 standards development, in connection with which he was the technical editor of ANSI T1.116 SS7 OMAP. His current research interests are in the areas of protocol analysis, traffic modeling, and the end-to-end design of wireless and wireline networks.

About the Talk

Service providers around the world are either already deploying or planning to deploy the IP Multimedia Sub-system (IMS) in their networks. IMS will allow the delivery of new multimedia applications aimed at enhancing the user's experience. So now that IMS is becoming a reality, what is next for "Next Generation Networks"?

In this talk, we will provide an overview of what lies beyond IMS and introduce a new set of services referred to as "blended services" which are created by providing seamless service control across multiple network domains. The role of IMS within the evolving area of Service Delivery Platforms and for the enablement of wireless and wireline convergence will also be examined. Sample services, architectures and call flows will be presented.

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