



VoIP over 802.11

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Thursday, November 6, 2008
103 Zachry Engineering Center
Reception: 3:45 PM
Presentation: 4:00 PM

IEEE 802.11-based networks are likely to become popular as replacements for cordless phones, particularly in enterprise settings, and as a way to fill in cellular coverage inside buildings and homes. However, using 802.11a/b/g for VoIP poses a number of challenges, including how to make hand-offs transparent, how to maximize capacity and how to limit the number of concurrent calls to avoid quality degradation. In the Internet Real-Time (IRT) Lab at Columbia University, we have proposed and investigated a number of techniques that address these issues. In addition, measurements of 802.11 networks illustrate some of the operational and modeling challenges.

This is joint work with Ashutosh Dutta, Andrea Forte, Sangho Shin and Kenta Yasukawa.

Professor Henning Schulzrinne received his Ph.D. from the University of Massachusetts in Amherst, Massachusetts in 1992. He was a member of the technical staff at AT&T Bell Laboratories, Murray Hill and an associate department head at GMD-Fokus (Berlin), before joining the Computer Science and Electrical Engineering departments at Columbia University, New York. He is currently Chair of the Department of Computer Science.

Protocols co-developed by him, such as RTP, RTSP and SIP, are now Internet standards, used by almost all Internet telephony and multimedia applications. His research interests include Internet multimedia systems, ubiquitous computing, mobile systems, quality of service, and performance evaluation. He is a Fellow of the IEEE.

Sponsored by the Department of Electrical and Computer Engineering at Texas A&M University
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