Voice over IP

Henning Schulzrinne
Columbia University, New York
schulzrinne@cs.columbia.edu

Outline

• motivation and introduction
• review of the circuit-switched telephone system
• signaling:
  – Session Initiation Protocol (SIP)
  – H.323
  – MGCP and Megaco (“softswitches”)
• interworking with the PSTN
• multimedia content and coding
• quality of service:
– RSVP and resource reservation
– differentiated services

• data transport using RTP and adaptive services
• Slides available at
  http://www.cs.columbia.edu/~hgs/teaching/ais/slides

• background statistics at http://www.cs.columbia.edu/~hgs/internet

• Books:
  – J. Kurose, K. Ross, *Computer Networking*
  – J. Crowcroft, M. Handley, I. Wakeman, *Internetworking*