

Voice over IP

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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*
 - O. Hersent, D. Gurle, J.-P. Petit, *IP Telephony Multimedia*