Introduction to SIP

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Mobile Applications and Services
IP Telephony
IP Telephony

Voice over IP - VoIP

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• Are we crazy or what?
IP Telephony

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- Must create the illusion of a call session
- Need a session protocol
VoIP Protocols
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- SIP - Session Initiation Protocol - RFC 3261
- Call Management, Call Setup and Control
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- **RSVP** - ReSerVation Protocol - RFC 2205
  - Establish Priority and Reservations INSIDE the network
VoIP Protocols

- User Agents (UA) connected over an IP network
VoIP Protocols

• A SIP server isn’t technically required.
• But we always use it.
• Why? To find you.
VoIP Protocols

- SDP is carried as payload in the SIP INVITE and response
VoIP Protocols

- RTP may not follow the same path as SIP
VoIP Protocols

- RSVP is internal to the network
- Current IMS implementations are limited here