Introduction to SIP

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IP Telephony

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Voice over IP - VoIP

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- Must create the illusion of a call session
  - need a session protocol

VoIP Protocols

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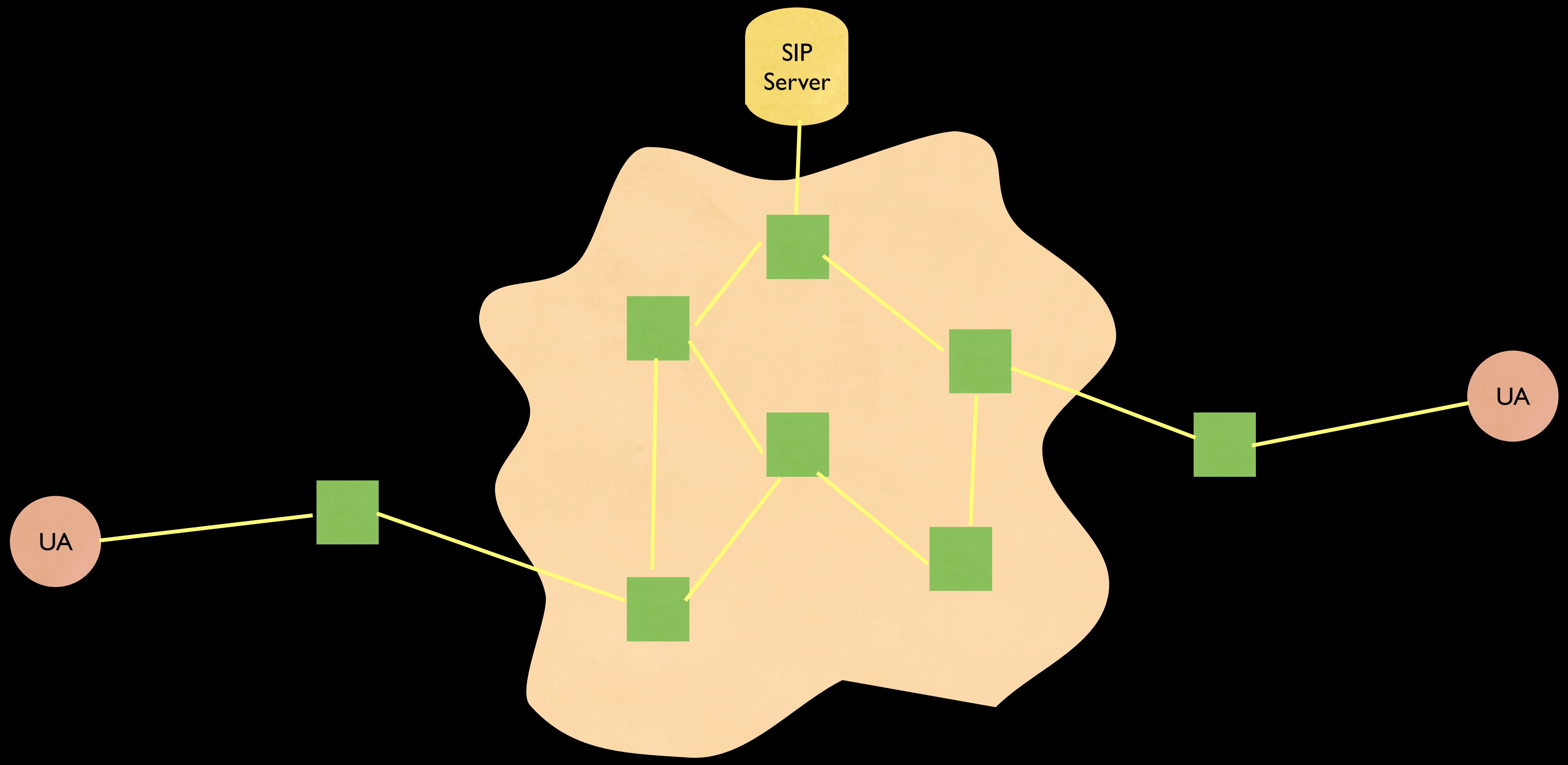
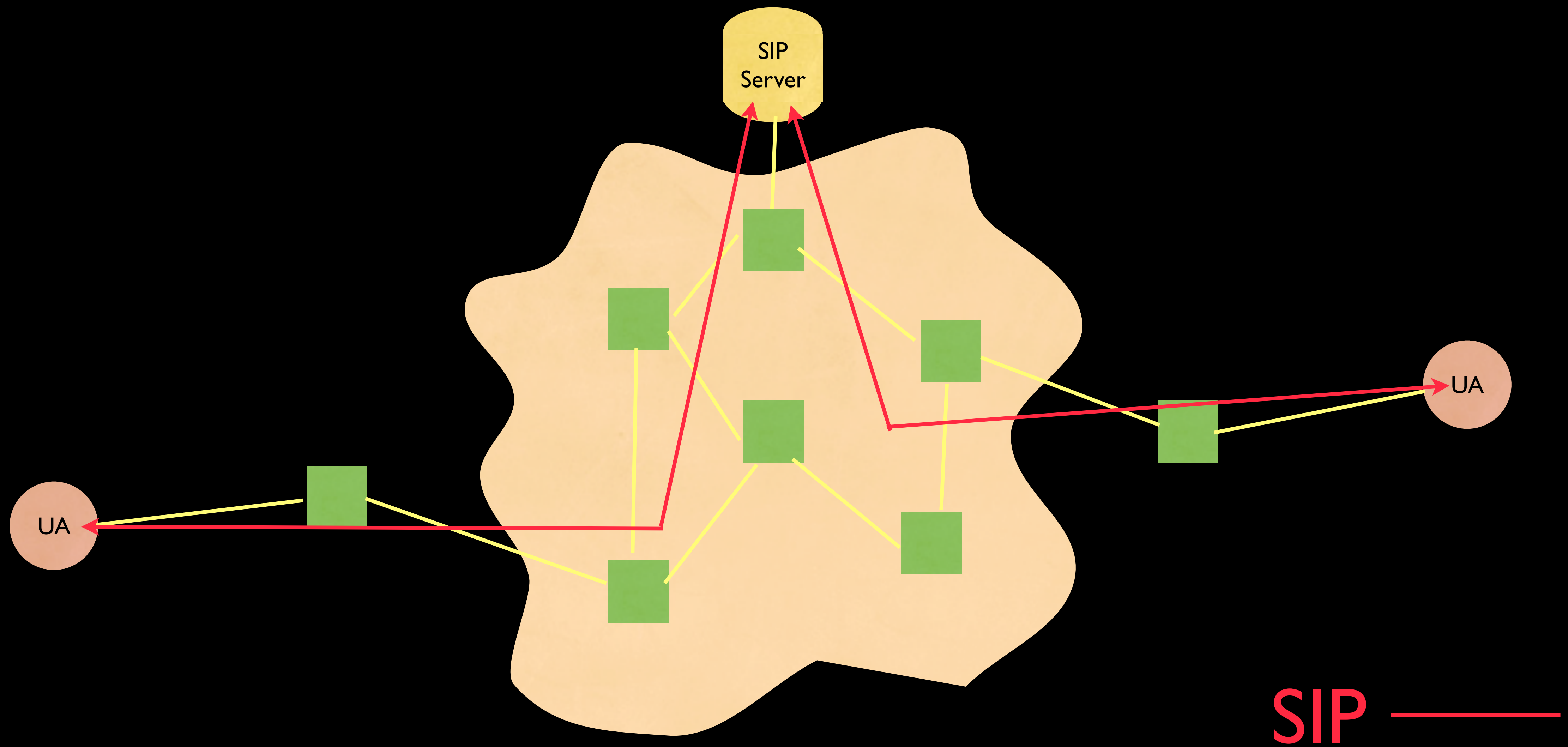
- RTP - Real Time Transport Protocol - RFC 3550
  - For the data exchange, a stream of encoded voice packets
- RSVP - ReSerVation Protocol - RFC 2205
  - Establish Priority and Reservations INSIDE the network

VoIP Protocols



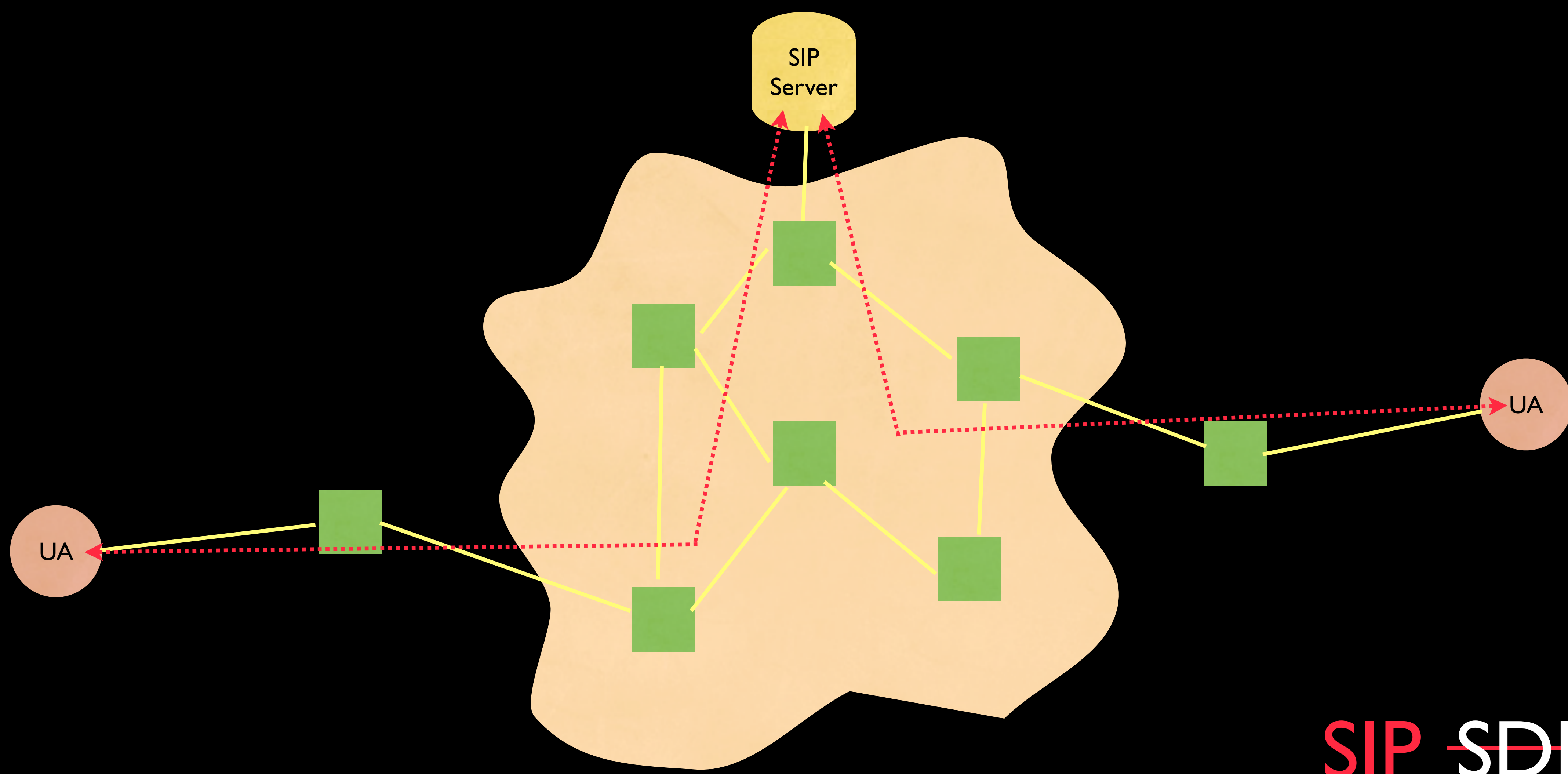
- User Agents (UA) connected over an IP network

VoIP Protocols



- A SIP server isn't technically required.
- But we always use it.
- Why? To find you.

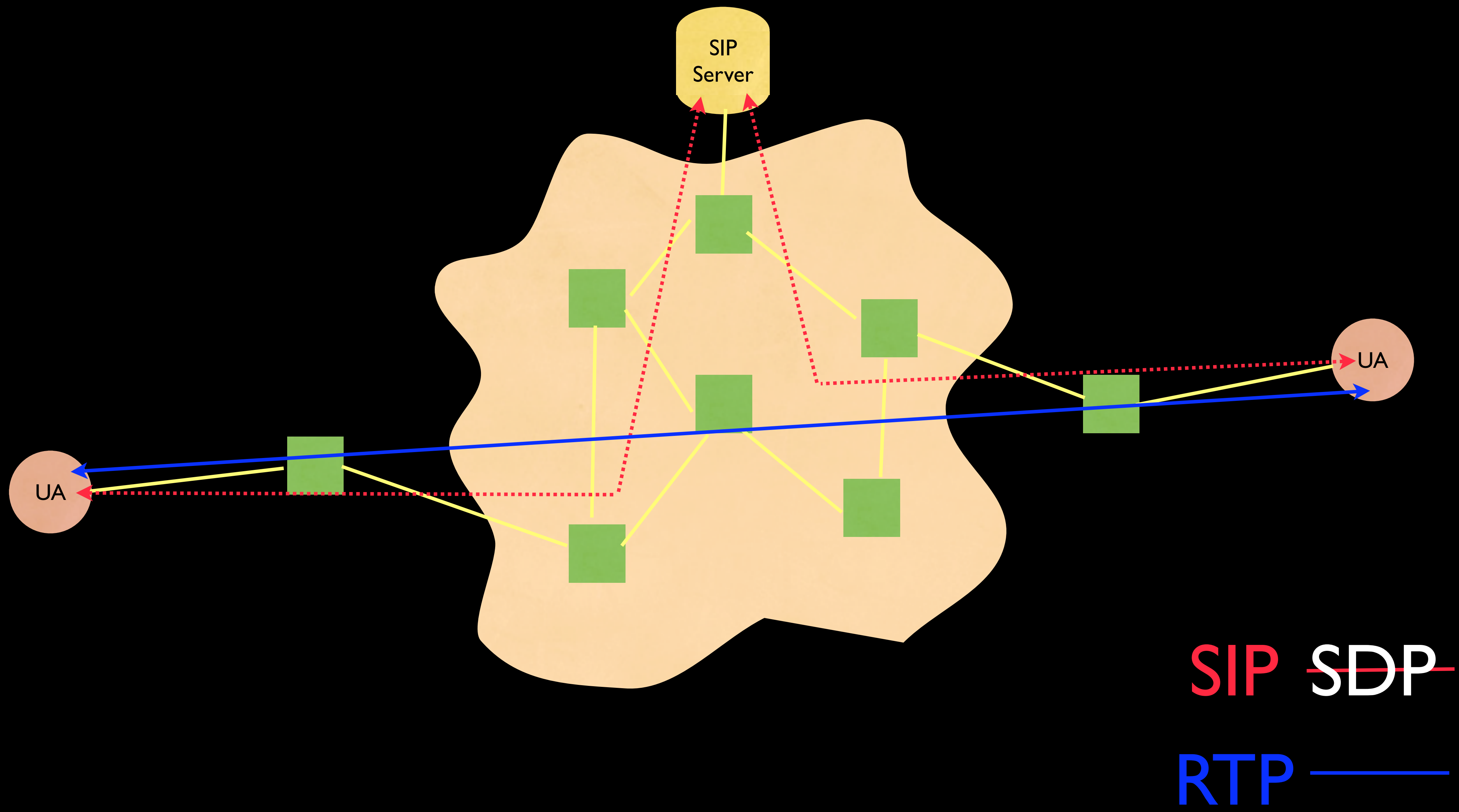
VoIP Protocols



SIP ~~SDP~~

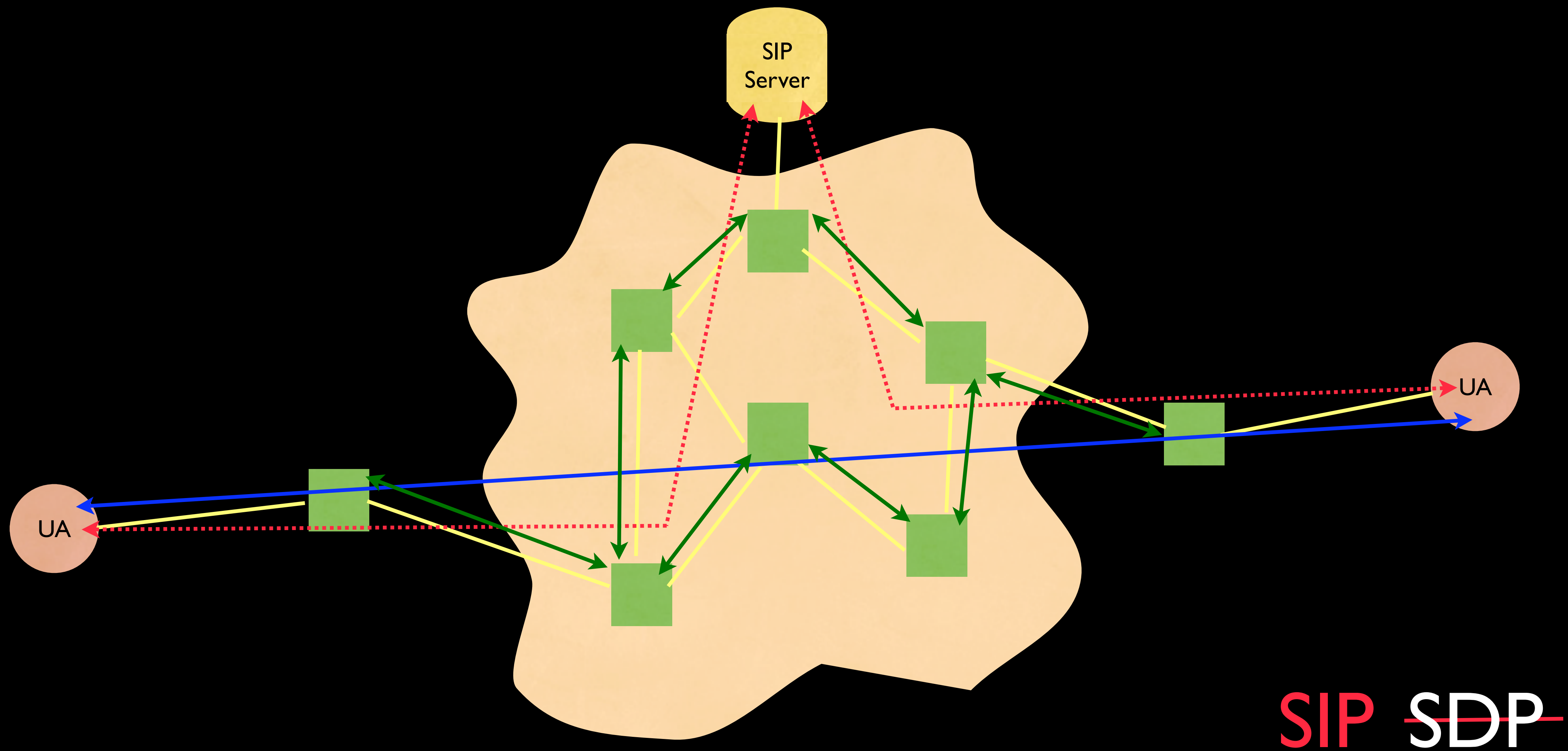
- SDP is carried as payload in the SIP INVITE and response

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