

Introduction to SIP

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Mobile Applications and Services

IP Telephony

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Voice over IP - VoIP

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- Are we crazy or what?

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

VoIP Protocols

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 - Call Management, Call Setup and Control

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- SDP - Session Description Protocol - RFC 2327
 - Describe the parameters for the voice session, carried in SIP INVITE

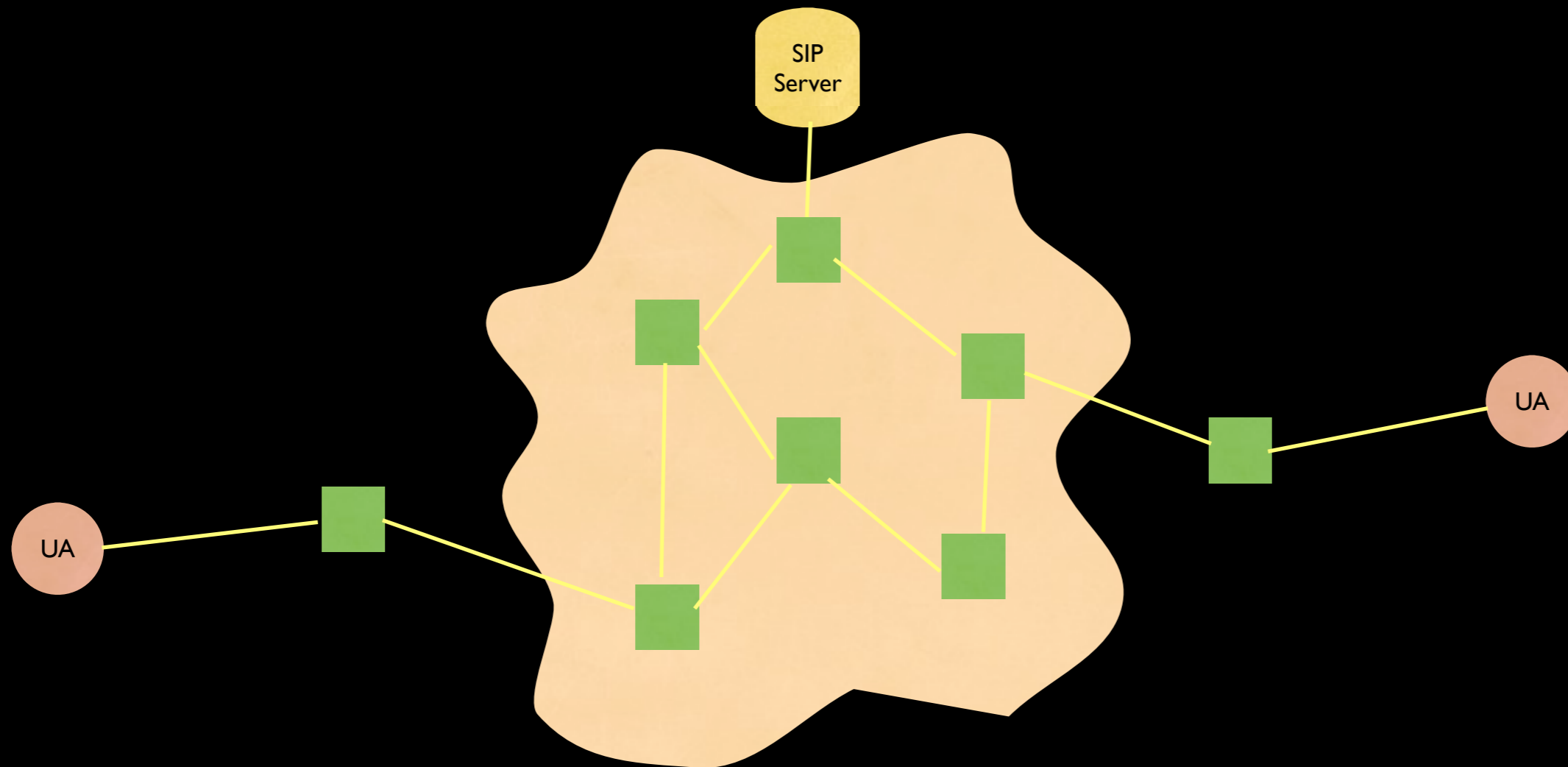
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VoIP Protocols

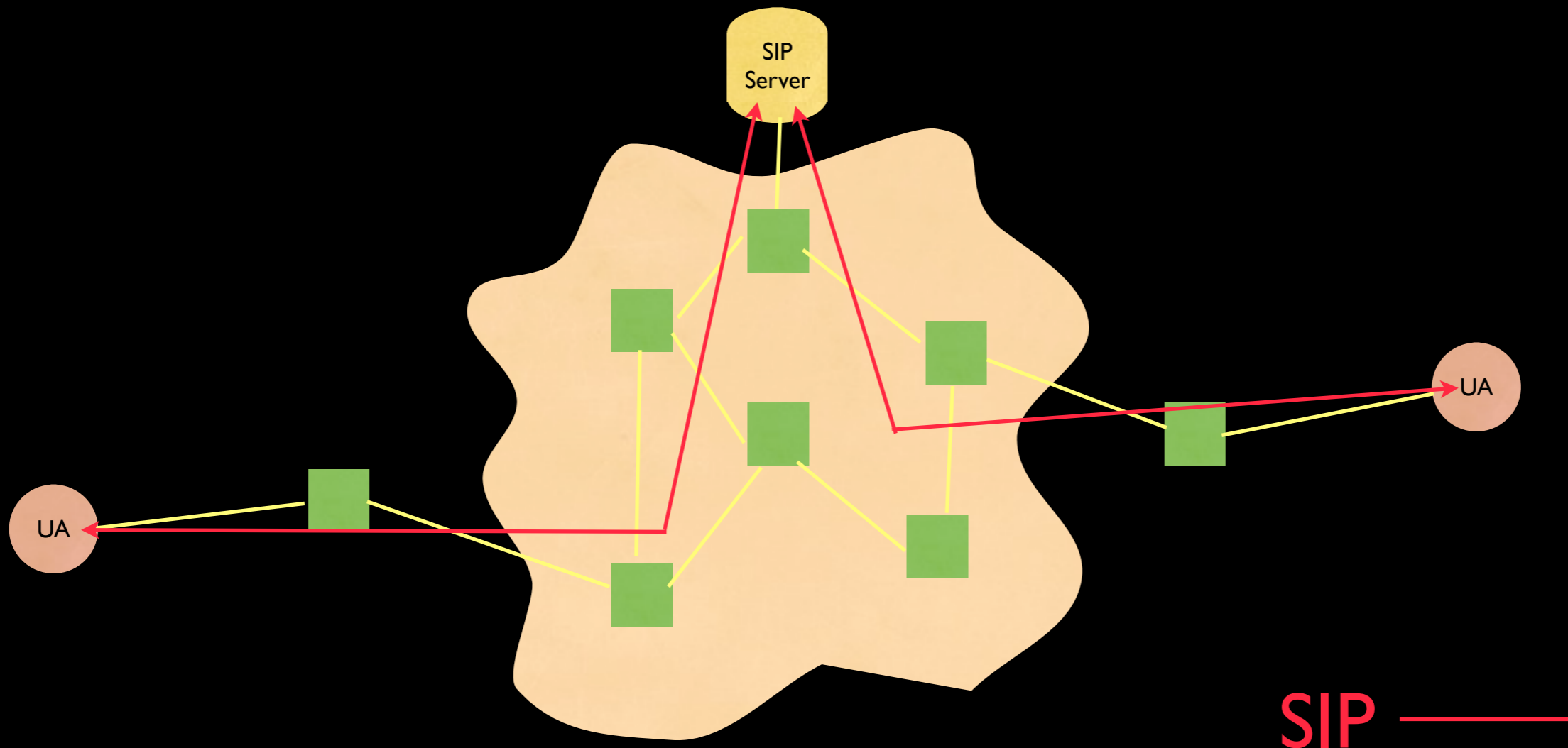
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- RSVP - ReSerVation Protocol - RFC 2205
 - Establish Priority and Reservations INSIDE the network

VoIP Protocols



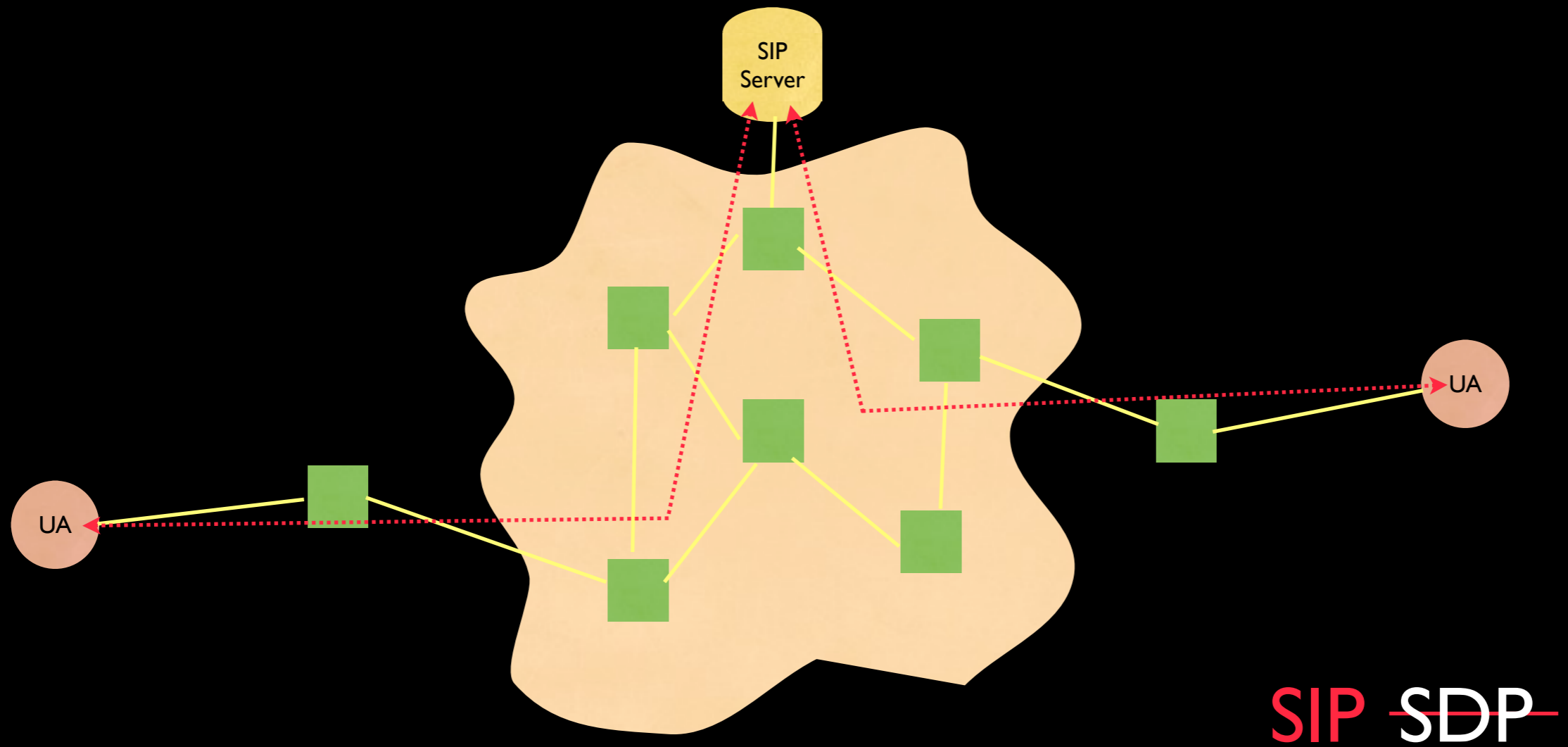
- User Agents (UA) connected over an IP network

VoIP Protocols



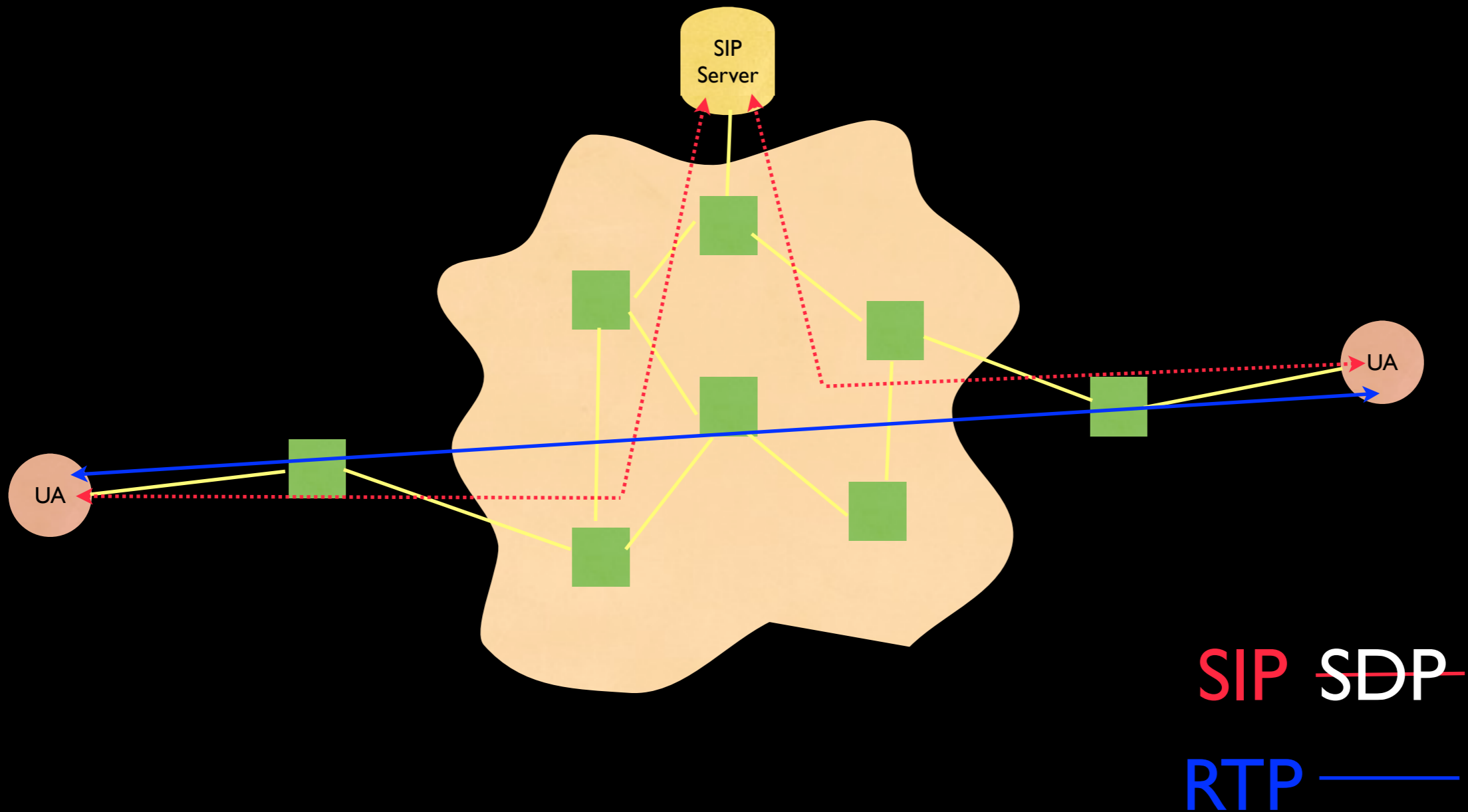
- A SIP server isn't technically required.
- But we always use it.
- Why? To find you.

VoIP Protocols



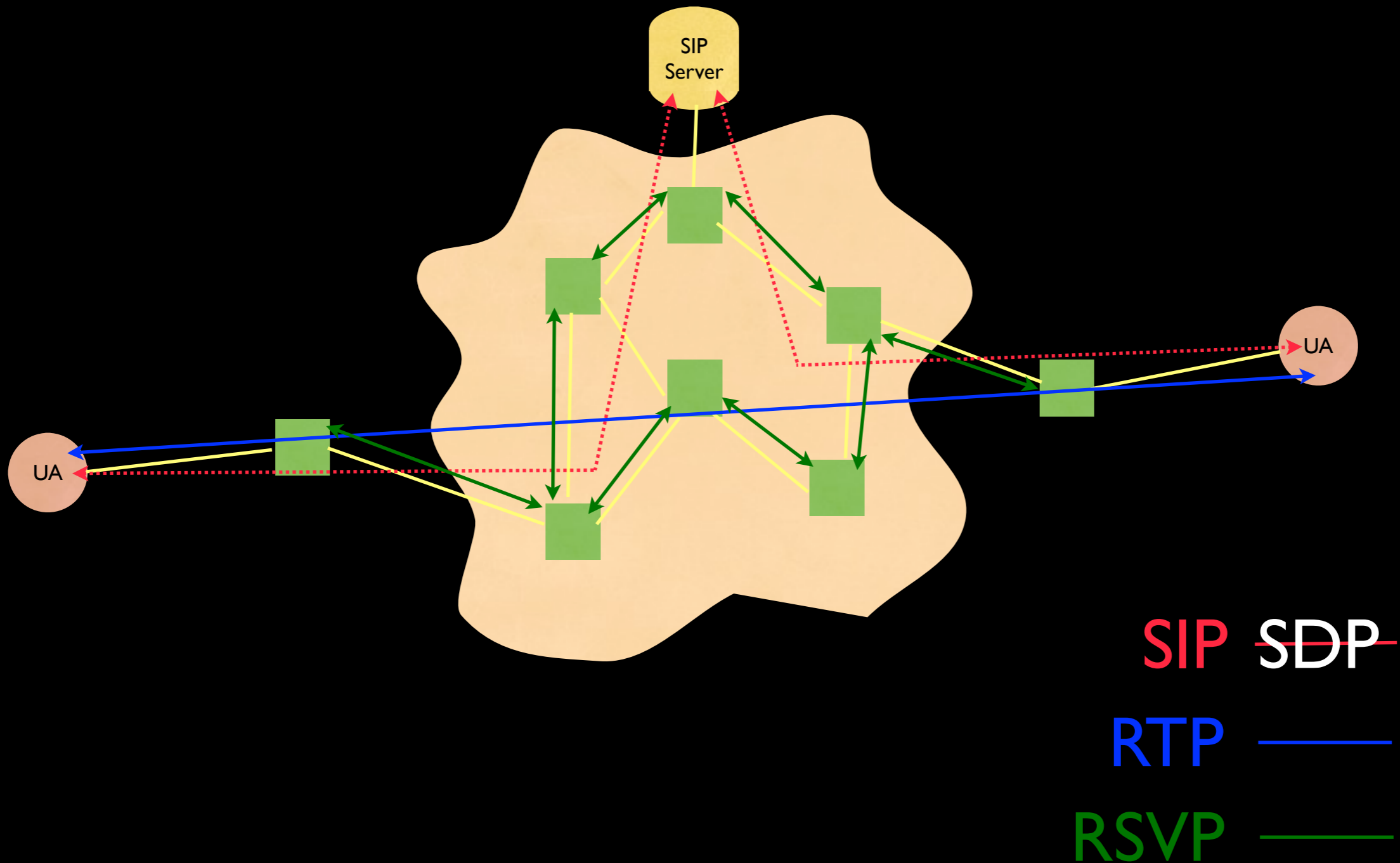
- SDP is carried as payload in the SIP INVITE and response

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