

To Do Items for Interdomain SIP QoS

...what it takes to build interdomain SIP telephony w. QoS...

SIP

- ❑ SIP 4xx failure messages for QoS (coordinate with DCS group)
- ❑ SIP and OSP interworking RFI

SDP

- ❑ qos-attribute= qos assured | qos enabled

COPS

- ❑ Clients to support SIP and RSVP coordination
- ❑ Client to support OSP functions

Policy

- ❑ Local networks: PIB for RSVP
- ❑ Transit networks: DiffServ specifics for voice

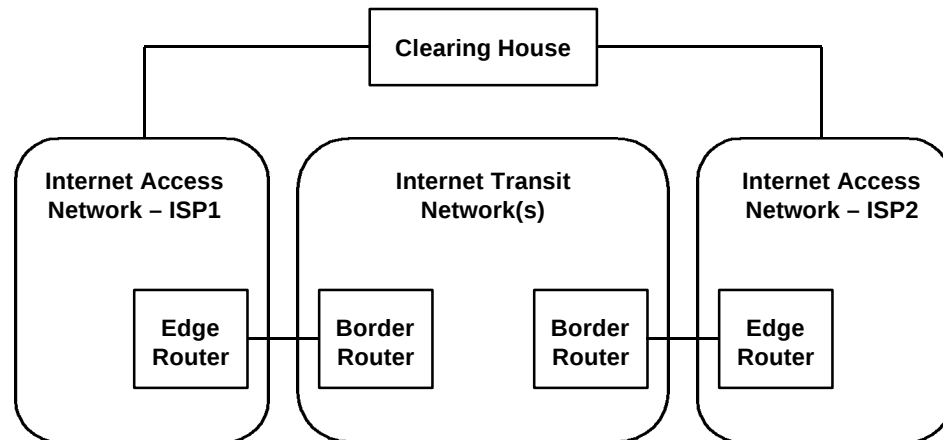
Metering

- ❑ Traffic flow metrics for interdomain use

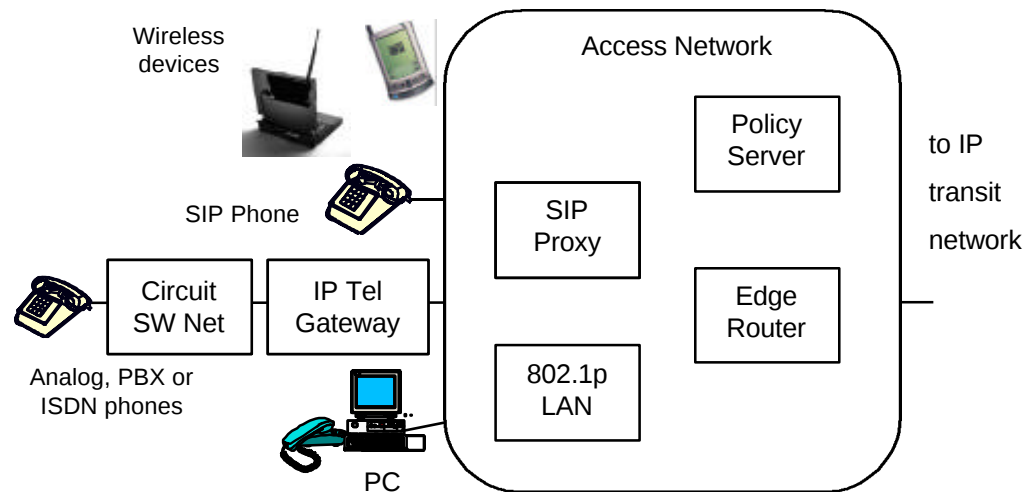
In scope for SIP WG or new WG? See the evidence...

Interdomain SIP-QoS Needs Framework

Interdomain and transit model



Access network



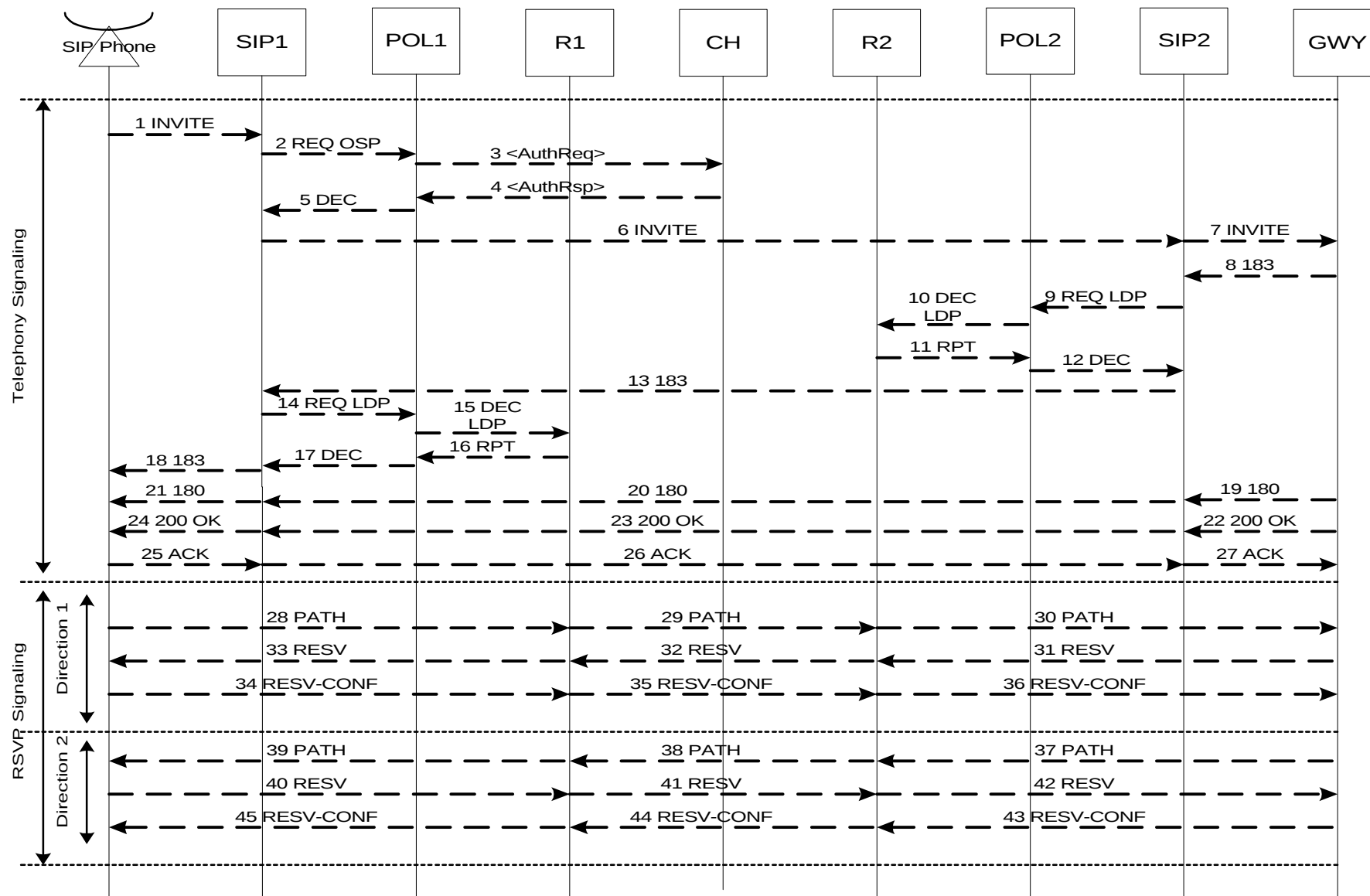
QoS Models for IP Telephony

- QoS Assured: Emulates the PSTN
 - No QoS – no call (DCSGROUP IP or OK?)
- QoS Enabled: Internet style
 - QoS most of the time
 - Give user the choice to proceed without QoS
- Best Effort: No commercial grade service

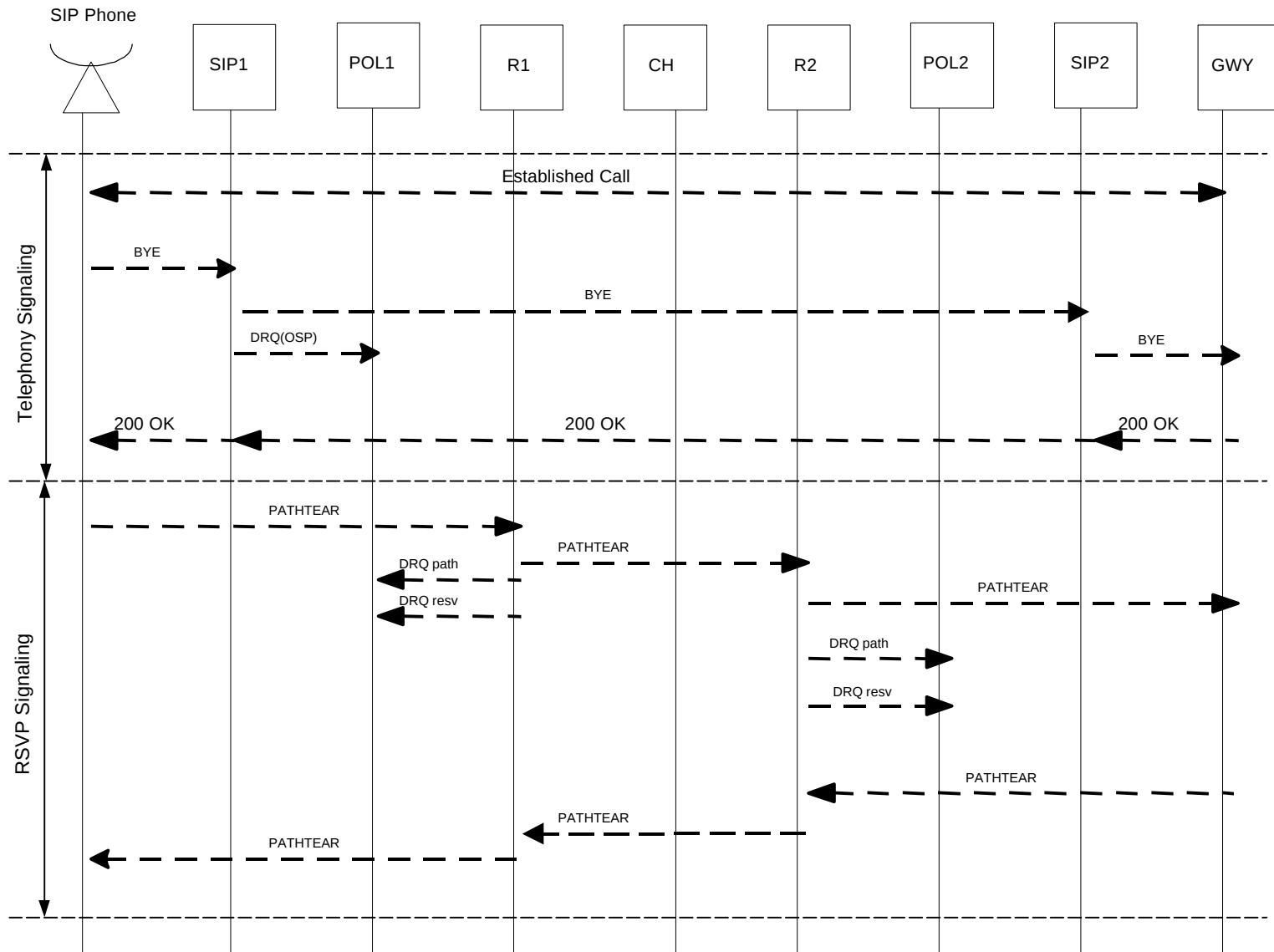
Local Policy Models

- Push model, pros/cons
- Pull model, pros/cons

Detailed Call Flows: QoS Enabled Pull Model



QoS Enabled BYE – Push Model



QoS Enabled Push Model: RSVP Teardown

