

SIP 183 Session Progress Message

draft-ietf-sip-183-00.txt

was

draft-ietf-mmusic-183-00.txt

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Problem being solved

- “Early Media”
 - For PSTN interworking:
 - Need method to suppress ingress SIP gateway alerting when alerting will be “inband” at terminating PSTN network.
 - Need definitive mapping between ISUP ACM message and SIP messaging (there are billing implications on how this is handled).
 - Need ability to have media session setup prior to network-to-network charging.
 - Announcements, Music, other
 - Need to guard against early media sessions that never complete
- Early Session Descriptions
 - For communicating QoS or Security parameters for a session flow.
 - Allows for setting up QoS and Security resources prior to alerting the called user of the session.

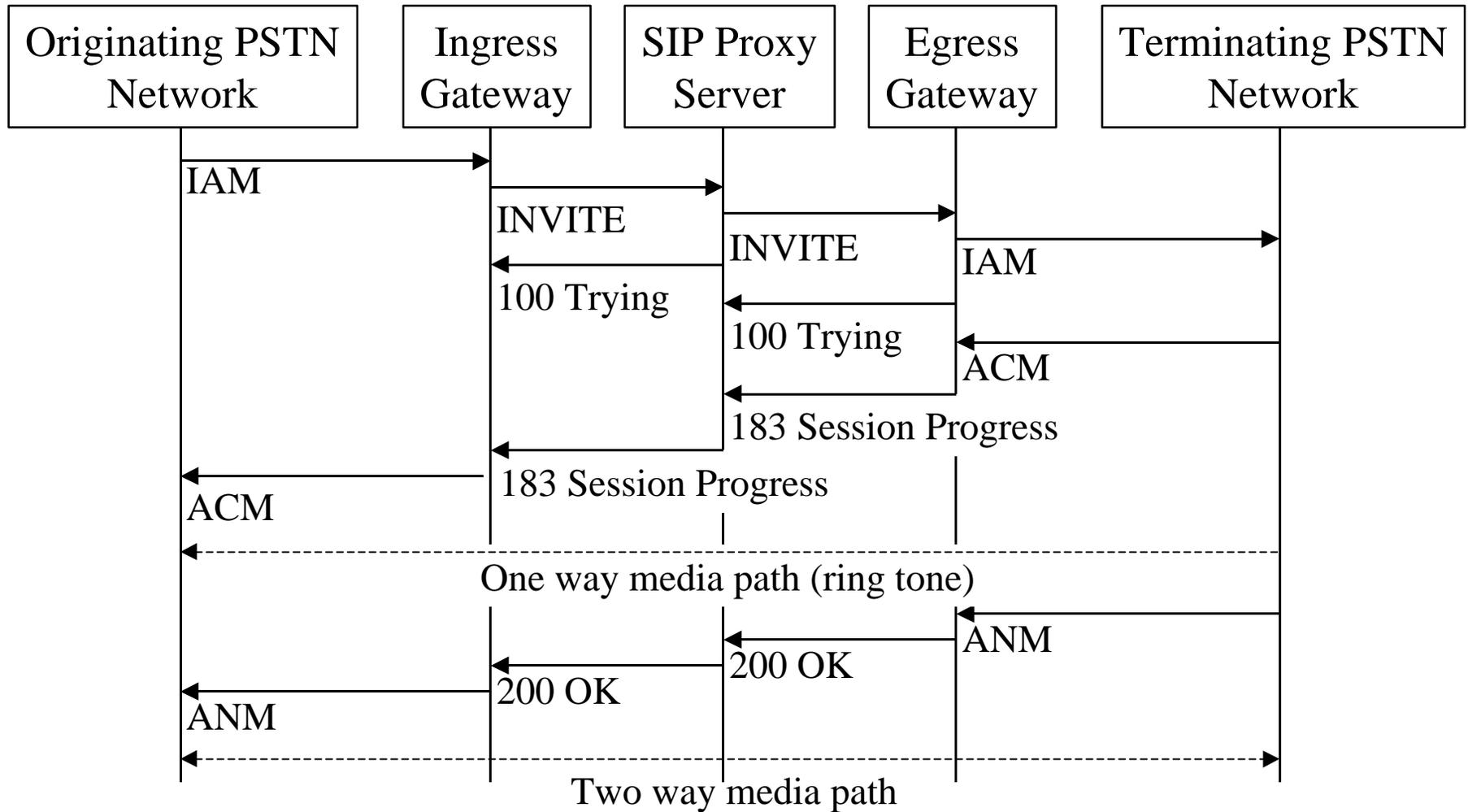
Proposed PSTN Solutions using Existing SIP Capabilities

- Use of 100 Trying
 - Not an end-to-end message - generated by proxy before ACM is received from terminating network
- Use of 180 Ringing
 - Cannot differentiate between when to apply local alerting vs. cutting through in-band alerting
- Use of SDP in 180 Ringing message
 - SDP can be included for other reasons (QoS setup, Security setup).
- Use of 200 OK
 - Cumbersome and unnatural (final response for a session that has not been successfully setup end-to-end.)

PSTN Solution with 183 Session Progress

- Callee UA
 - Suppresses local alerting
 - Passes through received media for call progress indication
- Egress SIP gateway
 - Maps ISUP ACM message to SIP 183 (media) message
- Ingress SIP gateway
 - Maps SIP 180 and 183 (media) message to ISUP ACM message

PSTN Interworking Scenerio



Proposed extensions to SIP

- Allowing for full Session Description message bodies in 1xx messages
- Addition of 183 Session Progress message
 - Behavior defined for Callee UA, Called UA and Servers
- Definition of 180 and 183 UAC behaviors relative to alerting

Dependencies

- Reliability of Provisional Responses in SIP
draft-ietf-mmusic-sip-100rel-01.txt
- Definition of Required, Desired, Supported, etc.
- Definition of general Session-Disposition, Session-Function, Session header syntax and semantics
 - Used to communicate reason for Session Description message body in provisional response (and possibly in all responses)

Next Steps

- Standalone draft vs. part of baseline SIP specification?
- Detailed review of draft.
- Resolve dependencies.
- Working group last call. Working Group charter say submission to IESG by February 2000.