

# SIP Preconditions for Media Privacy

ID-shacham-sip-media-privacy-02

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# Overview

- Recording of a conversation is a possible breach of privacy
- Participants in a SIP session should have a way to agree upon recording guidelines in a way that can serve as evidence
- To make a session predicated upon their agreement, we use the Preconditions Framework, defining two types that:
  - Assert that a media stream not be recorded
  - Assert the intention to record a stream
- The guidelines may be set by caller, callee, or both, and may be set at session setup or in mid-call
- The details differ somewhat from QoS use-case
  - No resource reservation necessary, so provisional responses not sent
  - The callee is notified of call before, not after, the preconditions are satisfied

## Example: At session setup, caller asserts intention to record

- Alice sends INVITE to Bob:  
m=audio 20000 RTP/AVP 0  
a=curr:allow-record e2e none  
a=des:allow-record none e2e send  
a=des:allow-record mandatory e2e recv
- Bob is prompted and agrees to the session and the recording guidelines, responding with 200 OK:  
m=audio 20000 RTP/AVP 0  
a=curr:allow-record e2e send  
a=des:allow-record none e2e recv  
a=des:allow-record mandatory e2e send
- Alternatively, Bob does not agree to the guidelines, sending 580:  
m=audio 30000 RTP/AVP 0  
a=des:allow-record failure e2e send

## Example: At session setup, caller requires callee not record

- Alice sends INVITE to Bob:
  - m=audio 20000 RTP/AVP 0
  - a=curr:no-record e2e none
  - a=des:no-record mandatory e2e send
  - a=des:no-record none e2e recv
- Bob is prompted and agrees to the session and the recording guidelines, responding with 200 OK:
  - m=audio 20000 RTP/AVP 0
  - a=curr:no-record e2e send
  - a=des:no-record none e2e send
  - a=des:no-record mandatory e2e recv
- Alternatively, Bob does not agree to the guidelines, sending 580:
  - m=audio 30000 RTP/AVP 0
  - a=des:no-record failure e2e recv