

**SIPREC**  
**MSRP Recording**  
**(draft-yan-siprec-msrp-recording-01)**

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# Intro

- Now have a partially complete proposal for how to handle MSRP recording:
  - draft-yan-siprec-msrp-recording-01
- There has been productive discussion on the mailing list
- Have identified a number of issues.
- Want to get sense of the group on these.

# Issues Identified

- How much detail to record?
- Recording CS REPORT messages
- Recording MSRP errors
- Distinguishing CPIM wrappers added by SRC from those already present
- When adding CPIM, what From/To URIs should be used?
- Preserving MESSAGE-IDs
- Recording CS MSRP URIs
- Compatibility of max-size on CS and RS
- How to handle nicknames

# How much detail to record?

- What are we recording?
  - the user experience, or
  - the binary structure of the CS MSRP session?
- Can we draw valid analogies from RTP recording?
  - For RTP we allow the SRC to take a variety of roles.
    - Some preserve more than others.
    - Some may preserve very little
      - neither SSRC, CNAME, nor Codec.
  - For MSRP we don't have these defined roles.
    - If we want them we must define them.

# Recording CS REPORT messages

- Which reports to record?
  - Success Reports
  - Failure Reports?
- Should SRC *request* reports, or just pass through participant requests?
- How to convey reports in RS?
  - (Can't be as a REPORT)
  - Special content type?

# Recording MSRP Errors

- (This hasn't been considered yet.)
- How to convey in RS?
  - Special content type?

# Recording CS MSRP URIs

- Is there any value in having these in the recording?
- If so, how to convey?

# Distinguishing CPIM wrappers added by SRC from those already present

- If message in CS MSRP session has no CPIM wrapper then
  - the sender and receiver of the message are implicit.
  - That isn't good enough in the RS MSRP session, because it is multiplexing.
- Some possibilities for dealing with this:
  - Add CPIM wrapper if one isn't already present
    - Must we mark it some way to indicate it was added by SRC?
  - Always add a CPIM wrapper
    - Then the outer wrapper is always the SRC's view
    - Makes all the messages bigger
    - May make playback harder



# When adding CPIM, what From/To URIs should be used?

- One of the participant URIs from the stream metadata?
- The MSRP URIs from the CS?

# Preserving MESSAGE-IDs

- MSRP allows a message to be sent (perhaps partially) in one MSRP session, and then resent/resumed in another MSRP session. The message is identified as the same by MESSAGE-ID.
- Do we want to preserve this behavior in the RS?
  - Recommend: YES
    - But don't require the SRS to do the correlation.
- To accomplish this we can:
  - Use same MESSAGE-IDs in CS and RS
  - Map CS IDs to RS IDs. (e.g., a prefix)
- Concern: will this work with redundant SRCs or SRSs?
  - Easier if we use the same MESSAGE-IDs

# Compatibility of max-size on CS and RS

- Max-size is *declared* by receiver (in SDP), not negotiated
- It is a *hint*, non-binding on sender
- How does SRS decide on max-size to declare in RS?
  - Proposal: local policy
- How does SRC decide on max-size to declare in CS?
  - Should it take RS max-size into account when doing this?
  - Proposal:
    - Do not consider RS max-size
    - If is an endpoint, use local policy
    - If is a middle box solely for recording, make as large as possible
- What should SRC do if it has a message to record that exceeds max-size on the RS session?
  - Proposal: SRC MAY drop these messages
  - Should we define a small message to send as placeholder for large message that was dropped?

# How to handle nicknames

- Nicknames defined in draft-ietf-simple-chat-18
- Problems
  - Nickname usage is bound to an MSRP session by the focus
  - Not sent with each message
  - Conveyed to participants by conference event package
- Ideas
  - Expect SRS to subscribe to conference event package on SRC
  - Send NICKNAME requests to SRS to rebind as needed
  - Update MSRP to allow nickname to be sent in each message.
    - Revision to draft-ietf-simple-chat-18
  - Extend CPIM wrapper to carry nickname.

# The End