SIPREC
Conference Recording
(draft-kyzivat-siprec-conference-use-cases-00)

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Goals for today

- Charter & Milestone additions
- Overview of Use Case draft

Proposed Additions to SIPREC Charter

The Session Recording Protocol (SIPREC) working group is chartered to define a SIP-based protocol for controlling a session (media) recorder.

Session recording is a critical requirement in many business communications environments such as call centers ~~and~~**,** financial trading floors**, and multimedia conferences**. In some of these environments, all calls must be recorded for regulatory and compliance reasons. In others, calls may be recorded for quality control, business analytics, or consumer protection. Recording is typically done by sending a copy of the media to the recording devices. The working group will determine requirements and produce a specification for a protocol that will manage delivery of media **(including audio, video, MSRP instant message sessions, and real-time sharing of documents, applications, and computer screens)** from an end-point that originates media, or that has access to it, to a recording device. PBX and recording vendors today implement proprietary, incompatible mechanisms to facilitate recording. A standard protocol will reduce the complexity and cost of providing such recording services.

The Session Recording problem presents certain unique requirements that are not addressed in the current SIP protocol specification. These include requirements such as the need for a distinction between the session that is being recorded versus the session that has been established for recording.

Privacy and security of conversations are significant concerns. The working group will make sure that any protocol specified addresses these concerns and includes mechanisms to alert users to the fact that a session they are participating in is being recorded.

The working group must take care that the session recording requirements and protocol does not conflict with the IETF statement on wiretapping contained in RFC 2804.

The SIPREC Working Group will thoroughly identify use cases, provide example system architectures and deployment scenarios, and define requirements.

The scope of the activity includes:

* Recorder Control

* Session metadata content and format

* Security mechanisms, including transport and media encryption

* Privacy concerns, including end-user notification

* Negotiation of recording media streams

The group will define these issues and rationalize with IETF standards and practices. This includes encryption, NAT traversal, operations and manageability, SIP-enabled firewalls, authorization, and security.
The scope explicitly does not include recording any of the extended session attributes being defined by the CLUE WG. (These may be addressed by a subsequent effort.)

The group will produce:

* Updated Requirements, Use Cases, Architecture draft

* Specification for Session Recording Protocol **and Metadata**

Proposed Additions to SIPREC Charter (bigger)

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Proposed Additions to Milestones

Milestones

DONE	Use Cases and Requirements to IESG as Informational RFC
JAN 2013	Submit Architecture to IESG as Informational RFC
APR 2013	Submit protocol draft to IESG as Proposed Standard RFC
AUG 2013	Submit Metadata model and format to IESG as Proposed Standard RFC
AUG 2013	Submit SIPREC Call Flows draft to IESG as an informational RFC
APR 2014	**Conference Recording Use Cases and Requirements to IESG as Informational RFC**
AUG 2014	**Conference Recording Architecture to IESG as Informational RFC**
AUG 2014	**Protocol and metadata for MSRP recording to IESG as Proposed Standard RFC**
DEC 2014	**Protocol and metadata for recording of document & application sharing to IESG as Proposed Standard RFC**

Next Steps

- Does the WG want to adopt these changes?
- Note: my coauthors and I plan to contribute to all the proposed deliverables.
  - draft-kyzivat-siprec-conference-use-cases-00 already posted
- Who else is willing to contribute to these?

Use Cases Draft
draft-kyzivat-siprec-conference-use-cases-00

Contains:

- Use cases
- Requirements

draft-kyzivat-siprec-conference-use-cases-00 Use Cases

- Instant Message Stream Recording (MSRP)
- Screen Sharing Stream Recording
- Application Sharing Stream Recording
- Document Sharing Stream Recording
- Audio/Video Conference Recording
- Chat Conference Recording
- Multimedia Conference Recording

draft-kyzivat-siprec-conference-use-cases-00 Requirements

The mechanism MUST support:

- MSRP stream recording
- Screen sharing stream recording.
- Application sharing stream recording
- Document sharing stream recording
- Metadata or SDP to separate the main video stream from data/content video stream

Thoughts on MSRP Recording

- Much like RTP recording
  - But the m-line is different
  - Can “mix” multiple MSRP sessions in the CS into a single one in the RS, or not.
  - Mixing will require inserting Message/CPIM wrappers (if not already present)
  - Participant info available in both metadata and the recorded media

Thoughts on Screen/App/Doc Sharing

- Consider using RTP video
  - handles the dynamics of screens & apps
  - handles cursor movement
  - handles slide animation
  - handles flipping back and forth among slides
  - would be easy addition to SIPREC
    - Just some new metadata
- What alternatives do we have?

The End