

SIPREC Protocol

draft-portman-siprec-protocol

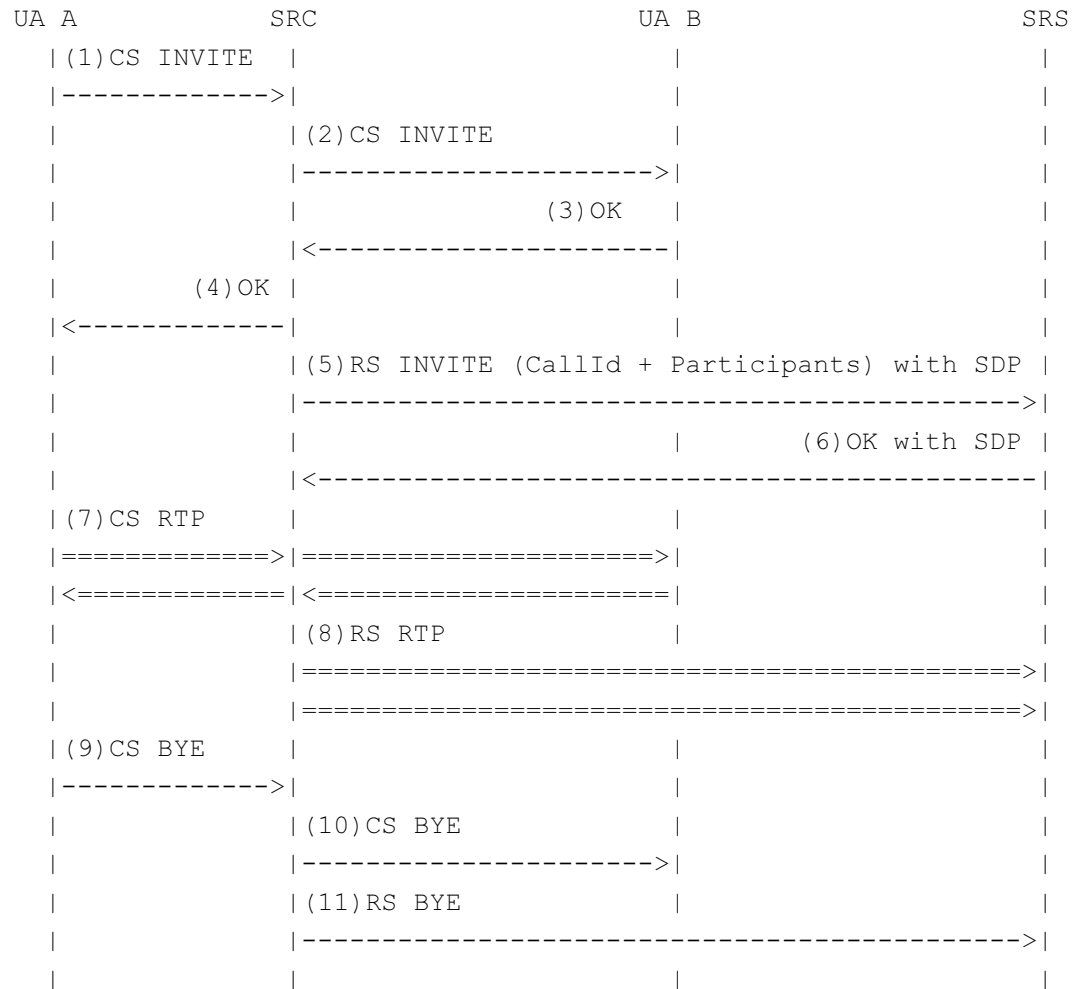
Virtual interim meeting Dec 16, 2010

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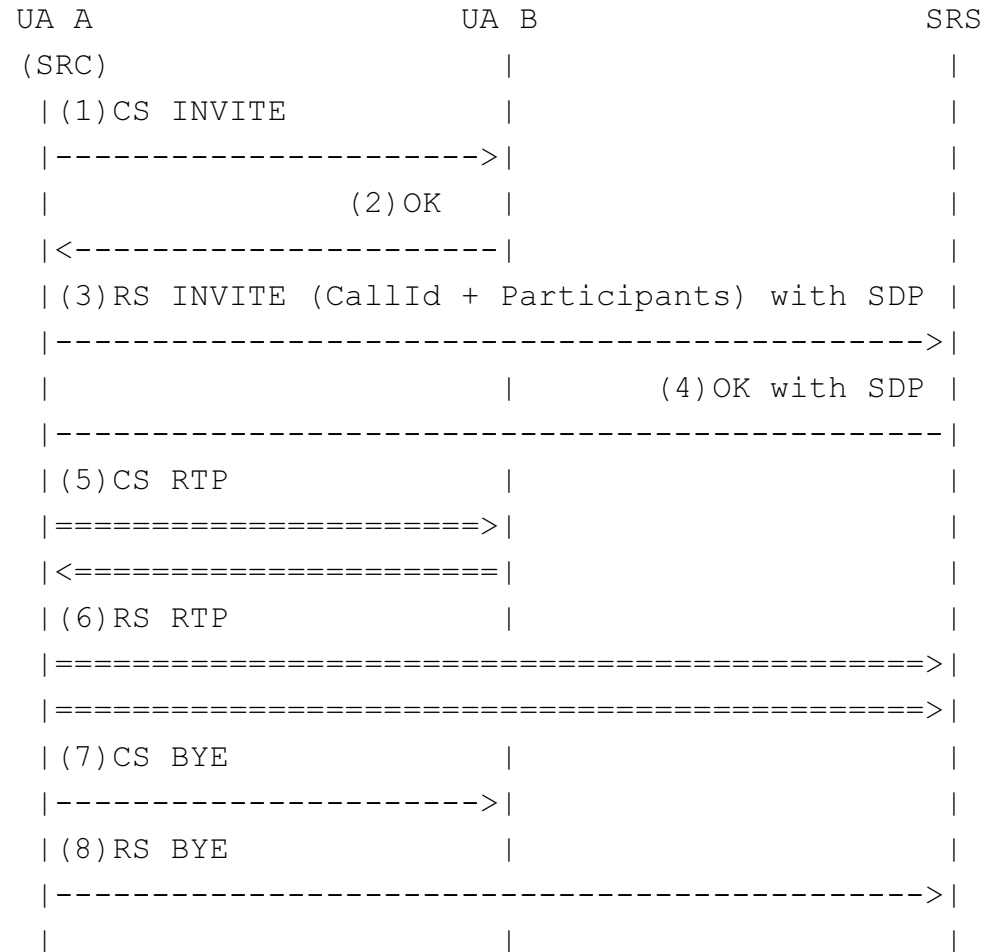
Status

- Currently -01 draft
- Very early draft – need your input
- Main topics
 - RS session establishment
 - Delivering metadata

Recording session – SRC as B2BUA



Recording Session – SRC as Endpoint



Recording Session – SRC as conference focus

```

UA A                Focus                UA B                SRS
|                   (SRC)                 |                   | |
|                   |                     |                   |
|       (already in a conference)         |                   |
|<=====>|<=====>|                   |
| (1)REFER sip:Conf-ID Refer-To:SRS      |                   |
|----->|                               |                   |
| (2)202 Accepted                         |                   |
|<-----|                               |                   |
|   (3)NOTIFY (Trying)                   |                   |
|<-----|                               |                   |
| (4)200 OK                               |                   |
|----->|                               |                   |
|                   | (5) INVITE Contact:Conf-ID;isfocus |                   |
|                   |----->|                   |
|                   |                                     (6)200 OK |                   |
|                   |<-----|                   |
|                   | (7)RTP (mixed or unmixed)                |                   |
|                   |=====>|                   |
|       (8)NOTIFY (OK)                   |                   |
|<-----|                               |                   |
| (9)200 OK                               |                   |
|----->|                               |                   |

```

SRC as conference focus

- Issues
 - How does the focus know to establish an RS towards the SRS? Through URI parameters or through discovery mechanism?
 - Why not REFER to SRS to send INVITE to SRC?
 - Is this mechanism out of scope?

Delivering metadata

- 2 types of metadata
 - Attributes of recorded media – will be in SDP of the RS
 - The rest – format to be defined in metadata draft

How to deliver the rest of metadata?

- Some metadata can be delivered as part of the RS establishment (INVITE/reINVITE)
- Some metadata can be delivered as a stream of events
 - What mechanism?
 - INFO package
 - Event package

Proposed SIP Extensions

- Identify SIP session as RS
 - Follows draft-johnston-siprec-rec-cc
 - Introduce src and srs media feature tags
- SDP Handling
 - Identify each media stream with label (a=label:1)
 - The label is a cross reference for recorded media in metadata
- Metadata content
 - New Content-Type: application/rs-metadata
 - New Content-Disposition: recording-session

Sample INVITE

```
INVITE sip:97753210@10.240.3.10:5060 SIP/2.0
From: <sip:2000@10.226.240.3>;tag=35e195d2-947d-4585-946f-098392474
To: sip:Recorder@10.240.3.10
Call-ID: d253c800-b0d1ea39-4a7dd-3f0e20a@10.226.240.3
CSeq: 101 INVITE
Max-Forwards: 70
Contact: <sip:2000@10.226.240.3:5060;transport=tcp>;src
Via: SIP/2.0/TCP 10.226.240.3:5060;branch=z9hG4bKdf6b622b648d9
Content-Type: multipart/mixed;boundary=foobar
Content-Length: [length]
```

--foobar

Content-Type: application/sdp

v=0

o=SRS 0 0 IN IP4 10.226.240.3

c=IN IP4 10.226.240.3

t=0 0

m=audio 12241 RTP/AVP 0 4 8

a=sendonly

a=label:1

--foobar

Content-Type: application/rs-metadata

Content-Disposition: recording-session

[metadata content]

Open Questions

- Recording pause and resume
 - How to distinguish from CS mute/unmute?
- Offer-less INVITE

Discussion