

Source-Specific SDP Attributes

Jonathan Lennox

draft-lennox-mmusic-sdp-source-attributes-01.txt

Source-Specific Attributes: Review

- RTP allows multiple sources in an RTP session, but SDP has no way to signal this.
- Solution: define an SDP attribute for characteristics of a source.

```
m=video 49170 RTP/AVP 96
a=rtpmap:96 H264/90000
a=ssrc:12345 cname:stream1@example.com
a=ssrc:67890 cname:stream2@example.com
```

- Map SDP “source-specific” attributes into the `ssrc` attribute.
- This generalizes material that was previously in the RTP Single-Source Multicast draft.

Changes from draft -00

- Removed source attributes not needed for stream interpretation.
 - Removed: information, bandwidth, sendrecv, sendonly, recvonly, inactive, charset, sdplang, lang, framerate, quality.
 - Remaining: cname, fntp, previous-ssrc.
 - ssrc-group (a media attribute) also remains.

Source-specific fmp

- Describes source-specific codec parameters.
 - Parameters describing the stream sent.
 - Motivation: H.264 sprop-* parameters
- If you have multiple sources, out-of-band parameters may not be the same for each source.
 - E.g., video switching, multiple cameras.

```
m=video 49170 RTP/AVP 96
a=rtpmap:96 H264/90000
a=fmp:96 packetization-mode=1
a=ssrc:12345 cname:stream1@example.com
a=ssrc:12345 fmp:96 sprop-parameter-sets=XXX
a=ssrc:67890 cname:stream2@example.com
a=ssrc:67890 fmp:96 sprop-parameter-sets=YYY
```

- This draft doesn't define any (codec-specific) usages of source-specific fmp.
- Need to figure out backward compatibility issues.

AVT Working Group

- Have any RTP architectural issues been overlooked?
- Are there any AVT objections to this proceeding in MMUSIC?
- AVT will remain responsible for reviewing the draft.
- RTCP-SSM will normatively depend on this.