

SCTP in SDP

draft-loreto-mmusic-sctp-sdp-07

Salvatore Loreto

Prague, Czech Republic

Friday, April 1, 2011

Overview

how to express, in SDP, media transport over

- SCTP
- DTLS over SCTP (e.g. for communications privacy)

Clarification 1

With SCTP its possible to convey multiple streams over the same connection.

So in principle one could use a single SCTP association for several media streams.

The intent of this draft is for:

only a single media stream using the connection

Open issue 1

- Is it necessary to know which stream identifier to use for the media stream?
 1. convey the stream id in the SDP
 2. Define a well-known id

Suggestion: *use stream 0 for everything*

Open issue 2: Multihoming

An SCTP endpoint can be Multihomed.

The SCTP endpoints MAY choose to use/adv the main address all the time (e.g., in the 'c' line) and to send a re-INVITE every time they change that Address.

However not using non-primary paths for retransmission means not to utilize the multi-homing feature of SCTP for resilience.

Open issue 2: Multihoming

How to express non-primary paths in SDP:

- reuse ICE attributes changing their semantics
 1. the candidate line has well-defined semantics and we should probably not overload them with new meanings
 2. ICE uses the re-INVITE mechanism...

Open issue 3: NAT

TBD: How to use Interactive Connectivity Establishment (ICE) to establish SCTP streams.
...in a different draft?

1. do we want to include in SDP the ability to signal SCTP- over-UDP ?
2. Do we want ICE to only use SCTP over IP candidates, or we want ICE to use SCTP over UDP candidates as well?

