

# SCTP in SDP

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# Single SCTP association

A single SCTP association on top of a given DTLS association.

- per any given DTLS/SCTP m= line, allowing a single sctpmap attribute (i.e. a single SCTP application type):

*m = application 54111 DTLS/SCTP 5000*  
*a = sctpmap:5000 webrtc-datachannel*

# sctpmap Attribute

m = application 54111 DTLS/SCTP 5000

c = IN IP4 79.97.215.79

a = *sctpmap:5000 webrtc-datachannel*

*max-message-size=100000 streams=16*

*syntax:*

**sctpmap-attr** = "a=sctpmap:" sctpmap-number  
app [max-message-size] [streams]

**sctpmap-number** = 1\*DIGIT

**app** = token

**max-message-size** = "max-message-size" EQUALS 1\*DIGIT

**streams** = "streams" EQUALS 1\*DIGIT"

# “app” parameter

The sctpmap MUST include the app parameter indicating the application running on top of the association.

# 'app' parameter

The current value in the draft:

- **webrtc-DataChannel**

Alternative proposals:

- **sctp-data-channel**
- **data-channel**

# “max-message-size” parameter

Optional parameter indicating the maximum message size, in bytes, the endpoint is willing to accept.

- The peer should assume that larger message will be rejected by the endpoint ...
- A parameter with value of '0' will signal a best effort attempt
- If the parameter is not present default, with a suggested value of 64K.

# “streams” parameter

Optional parameter to specify the initial number of incoming streams to be supported by each side of the association.

- If this parameter is not present, the implementation should provide a default, with a suggested value of 16.

# Alternative proposal

m = application 12345 DTLS/SCTP *webrtc-datachannel* \  
    *sctp-port#1 streams#16 max-message-size#100000*  
c = IN IP4 [example.com](http://example.com)  
a = *fntp:webrtc-datachannel* <whatever>

- define the usage of <fmt> for these protos so that it can be used to carry the info currently in sctpmap, and in the DTLS/SCTP the SCTP port number



