

# Socket API

draft-ietf-tsvwg-sctpsocket-17.txt

Randall Stewart ([rrs@lakerest.net](mailto:rrs@lakerest.net))

Kachong Poon ([cacheong.poon@sun.com](mailto:cacheong.poon@sun.com))

Michael Tüxen ([tuexen@fh-muenster.de](mailto:tuexen@fh-muenster.de))

Vladislav Yasevich ([vladislav.yasevich@hp.com](mailto:vladislav.yasevich@hp.com))

Peter Lei ([peterlei@cisco.com](mailto:peterlei@cisco.com))

# Current Status

- It took some time to finalize the features related to SCTP-AUTH (RFC 4895) required for DTLS over SCTP.
- It is now feature complete.
- Supports
  - RFC 4960 (Base protocol)
  - RFC 3758 (Partial reliability extension)
  - RFC 4895 (Authentication extension)
  - RFC 5061 (Dynamic address extension)
- Other protocol extensions must provide their own socket API section.

# Open Issues (1)

- Message retrieval not clearly defined.
- Type and size of context field possibly not appropriate.
- Clear statements about flags of the `sctp_rcvmsg()` function regarding in/out nature.
- Refine text for receivers using `recv()` like functions.
- Refine text for applicable flags used in the struct `sctp_sndrcvinfo` provided in the `SCTP_DEFAULT_SEND_PARAM` socket option.
- Add text regarding `SCTP_PORT_REUSE`.
- Sequence of Notifications not specified.

# Open Issues (2)

- Clean up field names of all structures:

## Change

```
struct sctp_initmsg {  
    uint16_t sinit_num_ostreams;  
    uint16_t sinit_max_instreams;  
    uint16_t sinit_max_attempts;  
    uint16_t sinit_max_init_timeo;  
};
```

## to

```
struct sctp_initmsg {  
    uint16_t num_ostreams;  
    uint16_t max_instreams;  
    uint16_t max_attempts;  
    uint16_t max_init_timeo;  
};
```