draft-fairhurst-taps-transports-00

Gorry Fairhurst <gorry@erg.abdn.ac.uk>
Brian Trammell <ietf@trammell.ch>

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Document Goal

Extract **Transport Services Components** from existing IETF protocols and congestion control mechanisms

Document organization

1. define a *terminology*

2. describe a set of *transport protocols* and transport-protocol-like-things
   (in a somewhat standard format)

3. extract a set of *transport service components* from these descriptions

4. describe the transport services components *in detail*
   (in a somewhat standard format)

Relationship between transport protocols and service component can be described by a simple matrix

Section	Benefit	Style	Reliability
3.1	Transmission Control Protocol (TCP)	stream	ordered byte stream
3.1.1	Multipath-TCP (MPTCP)	stream	ordered byte stream
3.2	SCTP	message	message stream
3.2.1	SCTP-PR	message	partial message stream
3.3	User Datagram Proticol (UDP)	message	datagram message
3.4	UDP-Lite	message	error tolerant datagram
3.5	DCCP	message	unreliable message stream

Section	Benefit	Setup	Comunication Mode
3.1	Transmission Control Protocol (TCP)	connection-oriented	unicast
3.1.1	Multipath-TCP (MPTCP)	connection-oriented	unicast
3.2	SCTP	connection-oriented	unicast/multicast
3.2.1	SCTP-PR	connection-oriented	unicast/multicast
3.3	User Datagram Proticol (UDP)	datagram	unicast
3.4	UDP-Lite	datagram	unicast
3.5	DCCP	connection-oriented	unicast

Who can contribute?

- Transmission Control Protocol (TCP)

    - MP-TCP

- SCTP

    - SCTP-RR

    - others…?

- User Datagram Protocol (UDP)

- UDP-Lite

- DCCP

- others…?