TSVWG
IETF-102 (Montreal)

19th July 2018

Gorry Fairhurst
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WG chairs
Note Well

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BCP 9 (Internet Standards Process)
BCP 25 (Working Group processes)
BCP 25 (Anti-Harassment Procedures)
BCP 54 (Code of Conduct)
BCP 78 (Copyright)
BCP 79 (Patents, Participation)
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HELP TSVWG!

• Need a Note Taker
• Need a scribe for Jabber session
• Need reviewers for WG drafts

• Future TSVWG Authors:
  PLEASE add “-tsvwg-” to any ID submitted
Document Review Request

• Document quality relies on reviews, please review documents in your working group and at least one other document from another working group.

• If you’d like documents that you care about reviewed, please put the effort in to review other documents.
TSVWG Accomplishments and Status

- No RFCs published since start of IETF 101
  - 4 RFCs published between IETF 100 and 101

- 2 Internet-Drafts (IDs) in RFC Editor Queue:
  - DiffServ and Web RTC QoS
    * RFC Ed. State: MISSREF [several WebRTC drafts]
  - DSCP IANA Process Changes
    * RFC editing in progress
TSVWG Accomplishments and Status

• 1 ID at IESG
  – SCTP (RFC 4960) Errata and Issues
    • Update later in this meeting

• 2 IDs with WG chairs & authors after WGLC
  – FEC Framework Extension
  – FEC Sliding Window Random Linear Code
    • Both drafts updated (slide later in this deck)
    • Will be submitted for RFC publication soon

• 1 ID in WG Last Call
  – Diffserv Lower Effort PHB
    • Plan to conclude WG Last Call later today
TSVWG Accomplishments and Status

• 2 IDs likely to go to WG Last Call soon
  – ECN Encapsulation for Lower Layer Protocols
  – ECN for Tunnels that use Shim Headers
  • Above two drafts will be WG Last Called together
TSVWG Accomplishments and Status

• Additional Working Group IDs (7)
  1) SCTP NAT Support
  2) L4S Architecture
  3) L4S Identifier (ECN)
  4) L4S AQM (dualq-coupled)
  5) UDP Options
  6) Tunnel Congestion Feedback (draft expired)
  7) Datagram PL Path MTU Discovery
TSVWG: Related Drafts

- Transport-related (on TSVWG agenda):
  - Path MTU detection via IPv6 packet truncation
    - draft-leddy-6man-truncate
  - Transport Header Encryption Impacts
    - draft-fairhurst-tsvwg-transport-encrypt
    - WG adoption requested
  - TCP Encapsulation Considerations
    - draft-pauly-tcp-encapsulation
  - L4S and Diffserv (part of L4S agenda item)
    - draft-briscoe-tsvwg-l4s-diffserv
  - IPv6 Reservation Protocol
    - draft-han-tsvwg-ip-transport-qos
TSVWG: Related Drafts (2)

• Transport-related (not on TSVWG agenda):
  - Priority Switching Scheduler
draft-finzi-priority-switching-scheduler
    (ISE publication will be requested)
  - ECN and NSH (related to Tunnel Congestion Feedback)
draft-eastlake-sfc-nsh-ecn-support (sfc WG)

• Internet-related (intarea WG):
  - Tunnel MTU Considerations
draft-ietf-intarea-tunnels
  - Fragmentation Fragility
draft-bonica-intarea-frag-fragile
  - SOCKS Protocol Version 6
draft-olteanu-intarea-socks-6
TSVWG Agenda

Chairs Agenda Bashing
NOTE WELL

Thursday’s Agenda (two back-to-back sessions)
Document Accomplishments and Status
Milestones Review
Drafts
WG Milestones Review (1)

- Jun 2018 Submit 'Guidelines for Adding Congestion Notification to Protocols that Encapsulate IP' as a BCP RFC
- Jun 2018 Submit 'Propagating Explicit Congestion Notification Across IP Tunnel Headers Separated by a Shim as a Proposed Standard RFC (move both dates to Oct 2018, drafts are ready for WGLC)
- Jun 2018 Submit "Forward Error Correction (FEC) Framework Extension to Sliding Window Codes" as a Proposed Standard RFC
- Jun 2018 Submit "Sliding Window Random Linear Code (RLC) Forward Erasure Correction (FEC) Scheme for FECFRAME“ as a Proposed Standard RFC (WGLC completed on both FEC drafts, will submit soon)
- Aug 2018 Submit 'A Lower Effort Per-Hop Behavior (LE PHB)' as a Proposed Standard RFC (WGLC almost complete, milestone includes DSCP IANA draft, already at RFC Editor)
WG Milestones Review (2)

• Sep 2018    Submit "Low Latency, Low Loss, Scalable Throughput (L4S) Internet Service: Architecture" as an Informational RFC

• Sep 2018    Submit "DualQ Coupled AQM for Low Latency, Low Loss and Scalable Throughput" as an Experimental RFC

• Sep 2018    Submit "Identifying Modified Explicit Congestion Notification (ECN) Semantics for Ultra-Low Queuing Delay“ as an Experimental RFC
  (Too soon – move all three L4S dates to July 2019?)

• Oct 2018    Submit 'SCTP NAT Support' to IESG as a Proposed Standard RFC
WG Milestones Review (3)

- Dec 2018   Submit "Transport Options for UDP" as a Proposed Standard RFC
- Dec 2018   Submit 'Packetization Layer Path MTU Discovery for Datagram Transports' as a Proposed Standard RFC
- Dec 2018   Submit “Tunnel Congestion Feedback” as an Informational RFC
  (Tunnel Congestion Feedback unlikely to be done in 2018, adjust date in Bangkok)
- Dec 2019   Submit “SCTP” (rfc4960bis) as a Proposed Standard RFC
  (new milestone)
Agenda for Thursday (part 1)

1) Document Status, Charter and Accomplishments
   - WG drafts, Related drafts, Milestones

2) Agenda Bashing and Hackathon update

3) Transport and Network drafts
   - LE (Lower Effort) PHB
     • draft-ietf-tsvwg-le-phb (WGLC conclusion)
   - Datagram Packetization Layer Path MTU Discovery
     • draft-ietf-tsvwg-datagram-plpmtud
   - Path MTU detection via IPv6 packet truncation
     • draft-leddy-6man-truncate
   - QUIC Transport Mechanisms
   - QUIC and ECN

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Agenda for Thursday (part 2)

4) Other presentations / New Work
   - Transport Header Encryption Impacts
     • draft-fairhurst-tsvwg-transport-encrypt
     • WG adoption requested
   - TCP Encapsulation Considerations
     • draft-pauly-tcp-encapsulation

--- Break (1750 – 1810) ---
5) Transport Protocols and Mechanisms

- SCTP Drafts
  - draft-ietf-tsvwg-natsupp
  - draft-ietf-tsvwg-rfc4960-errata (update) & plans for rfc4960bis

- UDP Options
  - draft-ietf-tsvwg-udp-options

- L4S drafts
  - draft-ietf-tsvwg-l4s-arch
  - draft-ietf-tsvwg-ecn-l4s-id
  - draft-ietf-tsvwg-dualq-coupled
  - draft-briscoe-tsvwg-l4s-diffserv (new)

6) Other Presentations / New Work

- IPv6 Reservation Protocol
  - draft-han-tsvwg-ip-transport-qos
FEFCFRAME and RLC drafts: WGLC results

• Several reviews during WGLC
  ▪ Gorry F. (detailed review)
  ▪ Emmanuel L. (bad wording WRT transport)
  ▪ Jonathan D. (GF(2^8) specification ambiguity)

• Strong support
  ▪ Ali B.

• Actions taken by authors
  ▪ brand new PRNG TinyMT32
    ▪ legacy PRNG flawed… Details at NWCRG meeting Thursday
  ▪ brand new “RLC parameter derivation” section
  ▪ 1 revision for FEFCFRAME I-D, 3 revisions for RLC I-D
    ▪ + minor typos waiting for next revision

• Related work on using RLC in QUIC @NWCRG
  ▪ Details at NWCRG meeting, Thursday morning