TSVWG
IETF-105 (Montreal)

25th & 26th July 2019

Gorry Fairhurst
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WG chairs
Note Well

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

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)
https://www.ietf.org/privacy-policy/ (Privacy Policy)
HELP TSVWG!

• We have a Notetakers:
  – (Theresa E. Thursday; Michael S. Friday)
• We need a scribe for Jabber session

• 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

• 1 RFC published since IETF 104
  – A Lower-Effort Per-Hop Behavior (LE PHB) for Differentiated Services (RFC 8622)

• 4 Internet-Drafts (IDs) in RFC Editor Queue:
  – FEC Framework Extension
  – FEC Sliding Window Random Linear Code
  – TinyMT32 Pseudo Random Number Generator
  – DiffServ and Web RTC QoS
    • RFC Ed. State: MISSREF [several WebRTC drafts]
    • Part of the (in)famous WebRTC cluster 238
TSVWG Accomplishments and Status

• No IDs at IESG

• 2 IDs with WG chairs & authors after WGLC
  – ECN Encapsulation for Lower Layer Protocols
  – ECN for Tunnels that use Shim Headers
    • New fragmentation interaction text being reviewed
TSVWG Accomplishments and Status

• No IDs in WG Last Call

• 2 IDs likely to go to WG Last Call soon
  – Transport Header Confidentiality Impacts
  – Datagram PL Path MTU Discovery

• Next steps for L4S drafts will be discussed on Friday
TSVWG Accomplishments and Status

• Additional Working Group IDs (6)

1) SCTP (RFC 4960bis)
2) L4S Architecture
3) L4S Identifier (ECN)
4) L4S AQM (dualq-coupled)
5) UDP Options
6) Tunnel Congestion Feedback
TSVWG: Related Drafts

- Transport-related:
  - IPV6 Path MTU Discovery
    - draft-hinden-6man-mtu-option
  - IPv6 Reservation Protocol
    - draft-han-tsvwg-ip-transport-qos
  - L4S and Diffserv
    - draft-briscoe-tsvwg-l4s-diffserv
  - LOOPS (Localized Optimization of Path Segments) [BOF was on Monday]
    - draft-li-tsvwg-loops-problem-opportunities
    - draft-welzl-loops-gen-info
TSVWG: Related Drafts (2)

- **Transport-related (continued):**
  - ECN and NSH
    (Related to Tunnel Congestion Feedback draft)
    - draft-ietf-sfc-nsh-ecn-support
  - Low Latency DOCSIS
    - draft-white-tsvwg-lld
    - draft-briscoe-docsis-q-protection
  - Loss-Latency Tradeoff for Mobile Networks
    - draft-fossati-tsvwg-lola

- **Internet-related (intarea WG):**
  - Tunnel MTU Considerations
    - draft-ietf-intarea-tunnels
  - Fragmentation Fragility
    - draft-ietf-intarea-frag-fragile
  - SOCKS Protocol Version 6
    - draft-olteanu-intarea-socks-6
TSVWG: Related Drafts (3)

- SCTP
  - Multipath
    - draft-tuexen-tsvwg-sctp-multipath
  - Retransmission
    - draft-jovev-tsvwg-sctp-rto
TSVWG Agenda

Chairs Agenda Bashing
   NOTE WELL

Thursday’s Agenda
   Document Accomplishments and Status
   Milestones Review
   Drafts (including UDP Options)

Friday’s Agenda
   More Drafts (including L4S and SCE)
WG Milestones Review (1)

• Feb 2019  Submit 'Guidelines for Adding Congestion Notification to Protocols that Encapsulate IP' as a BCP RFC

• Feb 2019  Submit 'Propagating Explicit Congestion Notification Across IP Tunnel Headers Separated by a Shim as a Proposed Standard RFC
(2\textsuperscript{nd} WGLC completed, both drafts are with WG chairs)

• Jun 2019  Submit "Low Latency, Low Loss, Scalable Throughput (L4S) Internet Service: Architecture" as an Informational RFC

• Jun 2019  Submit "DualQ Coupled AQM for Low Latency, Low Loss and Scalable Throughput" as an Experimental RFC

• Jun 2019  Submit "Identifying Modified Explicit Congestion Notification (ECN) Semantics for Ultra-Low Queuing Delay“ as an Experimental RFC
(L4S drafts - next step discussions on Friday)
WG Milestones Review (2)

- Jul 2019  Submit 'SCTP NAT Support' to IESG as a Proposed Standard RFC
- Aug 2019  Submit 'Packetization Layer Path MTU Discovery for Datagram Transports' as a Proposed Standard RFC
- Sep 2019  Submit “The Impact of Transport Header Confidentiality on Network Operation and Evolution of the Internet” as an Informational RFC
  (Above 3 dates are aggressive – Sep/Oct/Oct is realistic, expect WGLC on all 3 drafts before next IETF meeting)
- Dec 2019  Submit “SCTP” (rfc4960bis) as a Proposed Standard RFC
- Apr 2020  Submit “Tunnel Congestion Feedback” as an Informational RFC
- Jun 2020  Submit "Transport Options for UDP" as a Proposed Standard RFC
Agenda for Thursday (part 1)

1) Document Status, Charter and Accomplishments
   – WG drafts, Related drafts, Milestones
2) Agenda Bashing and SOCKS update
3.*) Transport Encryption
   – Transport Header Encryption Impacts
     • draft-ietf-tsvwg-transport-encrypt
   – Loss Signaling for Encrypted Protocols
     • draft-ferrieuxhamchaoui-tsvwg-lossbits
3.*) SCTP Drafts
   – Updated SCTP spec (draft-ietf-tsvwg-rfc4960-bis)
   – SCTP NAT support (draft-ietf-tsvwg-natsupp)
   – Retransmission (draft-proshin-tsvwg-sctp-rtx-bit)
Agenda for Thursday (part 2)

3.*) Additional WG Drafts
   – Datagram PL Path MTU Discovery
     • draft-ietf-tsvwg-datagram-plpmtud
   – UDP Options
     • draft-ietf-tsvwg-udp-options

4) New Work
   – QoS Management (YANG)
     • draft-asechoud-rtgwg-qos-model
     • draft-asechoud-rtgwg-qos-oper-model
   – QCI and Diffserv (mobile data QoS)
     • draft-henry-tsvwg-diffserv-to-qci
   – Non-Queue-Building Flows
     • Draft-white-tsvwg-nqb
Agenda for Friday (part 1)

5) L4S (Low Latency Low Loss Scalable)
   – Readiness for WGLC
   – Drafts Update
     • draft-ietf-tsvwg-l4s-arch
     • draft-ietf-tsvwg-ecn-l4s-id
     • draft-ietf-tsvwg-aqm-dualq-coupled
   – Transports for L4S

6.1) SCE (Some Congestion Experienced)
   – draft-morton-tsvwg-sce
   – draft-heist-tsvwg-sce-one-and-two-flow-tests
   – draft-grimes-tcpm-tcpsce
Agenda for Friday (part 2)

6.2) DCCP Multipath
   - draft-amend-tsvwg-dccp-udp-header-conversion
   - draft-amend-tsvwg-multipath-dccp
   - draft-amend-tsvwg-multipath-framework-mpdccp

6.3) Any other items?