#### TSVWG IETF-105 (Montreal)

25<sup>th</sup> & 26<sup>th</sup> July 2019

Gorry Fairhurst Wes Eddy (remote) David Black WG chairs

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## 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.

- 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

- 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

- 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

- 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 Submit 'Propagating Explicit Congestion Notification Feb 2019 • **Across IP Tunnel Headers Separated by a Shim** as a Proposed Standard RFC (2<sup>nd</sup> 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?