

# TSVWG

## IETF-104 (Prague)

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

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# 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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**I E T F**

# 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

- 1 RFC published since start of IETF 102
  - SCTP (RFC 4960) Errata and Issues (RFC 8540)
- 2 Internet-Drafts (IDs) in RFC Editor Queue:
  - Diffserv Lower Effort PHB
    - Thank you, Roland!
  - DiffServ and Web RTC QoS
    - RFC Ed. State: MISSREF [several WebRTC drafts]
    - Part of the (in)famous WebRTC cluster 238
      - [https://www.rfc-editor.org/cluster\\_info.php?cid=C238](https://www.rfc-editor.org/cluster_info.php?cid=C238)

# TSVWG Accomplishments and Status

- 2 IDs at IESG
  - FEC Framework Extension
    - Approved, minor edits needed, then waits for ...
  - FEC Sliding Window Random Linear Code
    - Working on rectifying source code copyright:  
draft-roca-tsvwg-tinyt32
- No IDs with WG chairs & authors after WGLC

# TSVWG Accomplishments and Status

- No IDs in WG Last Call
- 2 IDs [still] likely to go to 2<sup>nd</sup> 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
    - Looking for a volunteer to shepherd these drafts

# TSVWG Accomplishments and Status

- Additional Working Group IDs (9)
  - 1) SCTP NAT Support
  - 2) SCTP (RFC 4960bis)
  - 3) L4S Architecture
  - 4) L4S Identifier (ECN)
  - 5) L4S AQM (dualq-coupled)
  - 6) UDP Options
  - 7) Tunnel Congestion Feedback (draft expired)
  - 8) Datagram PL Path MTU Discovery
  - 9) Transport Header Confidentiality Impacts



# 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
  - Diffserv to QCI Mapping
    - draft-henry-tsvwg-diffserv-to-qci
  - LOOPS (Localized Optimization of Path Segments)
    - draft-li-tsvwg-loops-problem-opportunities  
(introduced at HotRFC session)
  - Priority Switching Scheduler
    - draft-finzi-priority-switching-scheduler  
(ISE publication will be requested)

# 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-00
  - 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)

- UDP Options related
  - Checksum Compensation Options for UDP Options
    - draft-fairhurst-udp-options-cco-00.txt
  - UDP Surplus Space Header
    - draft-herbert-udp-space-hdr

# TSVWG Agenda

## **Chairs Agenda Bashing**

NOTE WELL

## **Monday's Agenda**

Document Accomplishments and Status

Milestones Review

Drafts

## **Tuesday's Agenda**

More Drafts

# 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'  
(WGLC needs to be repeated, looking for new shepherd)
- Apr 2019 Submit 'SCTP NAT Support' to IESG as a Proposed Standard RFC
- May 2019 Submit "Transport Options for UDP" as a Proposed Standard RFC
- 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

# WG Milestones Review (2)

- **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
- **Dec 2019** Submit “SCTP” (rfc4960bis) as a Proposed Standard RFC
- **Apr 2020** Submit “Tunnel Congestion Feedback” as an Informational RFC

# Agenda for Monday (part 1)

- 1) Document Status, Charter and Accomplishments
  - WG drafts, Related drafts, Milestones
- 2) Agenda Bashing and Hackathon update
- 3) Transport and Network drafts
  - Transport Header Encryption Impacts
    - draft-ietf-tsvwg-transport-encrypt
  - L4S drafts
    - draft-ietf-tsvwg-l4s-arch
    - draft-ietf-tsvwg-ecn-l4s-id
    - draft-ietf-tsvwg-dualq-coupled

# Agenda for Monday (part 2)

## 4) New Work

- Some Congestion Experienced (ECN)
  - draft-morton-taht-tsvwg-sce
- Non Queue Building Flows
  - draft-white-tsvwg-nqb
- Multipath DCCP (If time permits)
  - draft-amend-tsvwg-multipath-dccp
  - draft-amend-tsvwg-multipath-framework-mpdccp
  - draft-amend-tsvwg-dccp-udp-header-conversion  
(introduced at HotRFC session)



# Agenda for Wednesday

## 5) Transport Protocols and Mechanisms

### – SCTP Drafts

- draft-ietf-tsvwg-natsupp
- Plans for rfc4960bis

### – Datagram PL Path MTU Discovery

- draft-ietf-tsvwg-datagram-plpmtud

### – UDP Options

- draft-ietf-tsvwg-udp-options
- draft-fairhurst-udp-options-cco

## 6) New Work (if time permits)

### – HTTP/2 as a Transport

- draft-kinnear-httpbis-http2-transport

### – SCTP Retransmit bit

- draft-proshin-tsvwg-sctp-rtx-bit