TSVWG #1
IETF-96 (Berlin)

20th July 2016

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WG chairs
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IETF
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

• We’re looking for a third WG chair (or secretary)
  – If interested, please talk to the chairs and ADs
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

• 2 RFCs published since IETF 95:
  – SCTP-PF: Quick Failover (RFC 7829)
  – NAT Behavioral Reqts. Updates (RFC 7857)

• 2 Internet-Drafts in RFC Editor Queue:
  – DTLS Encap of SCTP for Web RTC
    • RFC Editor State: MISSREF [SCTP I-DATA draft]
  – Network Transport Circuit Breakers
    • RFC Editor State: MISSREF [UDP guidelines draft]
TSVWG Accomplishments and Status

• 1 ID in post-IESG-approval processing
  – DiffServ and Web RTC QoS
    • Open Issue: Fallback if non-zero DSCP causes traffic black-hole (i.e., all traffic discarded)
    • WebRTC: Use ICE to send STUN probes (RTCWEB WG working out details & plan this week)

• 1 ID in post-IETF-Last-Call processing
  – UDP Usage Guidelines Update (rfc5405bis)
    • Open Issue: RTO (Retransmission Time Out) text (TCPM WG discussed plan for resolution)
TSVWG Accomplishments and Status

• 1 ID in IETF LC
  – GRE in UDP

• 1 ID completed WG Last Call
  – DiffServ Interconnection
    • RFC Publication request coming soon

• 3 IDs likely to go to WGLC soon
  – Tunnel Congestion Feedback
  – SCTP I-DATA Chunk (sctp-ndata draft)
  – SCTP NAT Support
TSVWG Accomplishments and Status

• 1 additional WG ID
  – ECN Encapsulation Guidelines
    • New ID being split out of this draft

• 1 WG ID adopted since IETF 95
  – DiffServ to IEEE 802.11 Mapping
TSVWG: Related Drafts

- Congestion control for 4G and 5G access
  - draft-johansson-cc-for-4g-5g

- Latency Loss Tradeoff PHB Group
  - draft-you-tsvwg-latency-loss-tradeoff

- INT Area: Tunnel MTU Considerations
  - draft-ietf-intarea-tunnels

- BOF: Low Latency Low Loss Scalable throughout (L4S)
  - draft-briscoe-tsvwg-aqm-tcpm-rmcat-l4s-problem
  - draft-briscoe-tsvwg-ecn-l4s-id
  - draft-briscoe-aqm-dualq-coupled
  - draft-bagnulo-tcpm-tcp-low-rtt
  - draft-bagnulo-tsvwg-generalized-ecn
TSVWG: UDP Encapsulation-related drafts

• RTG Area: Encapsulation Considerations
  – draft-ietf-rtgwg-dt-encap

• NVO3: Network Virtualization Overlay Encapsulations
  – draft-ietf-nvo3-geneve
  – draft-ietf-nvo3-gue (may move to intarea)
  – draft-ietf-nvo3-vxlan-gpe
  – (NVO3 Architecture draft: draft-ietf-nvo3-arch)
UDP Transport-related BOFs

• BOF: Path Layer UDP Substrate (PLUS):
  – draft-trammell-spud-req
  – draft-kuehlewind-spud-use-cases
  – draft-marjou-spud-traceroute-use-cases

• BOF: QUIC
  – draft-tsvwg-quic-protocol
  – draft-tsvwg-quic-loss-recovery
  – draft-thomson-quic-tls
  – draft-shade-quic-http2-mapping
  – draft-wing-quic-network-req
TSVWG Agenda

Chairs Agenda Bashing
  NOTE WELL

Wednesday’s Agenda
  Document Accomplishments and Status
  Milestones Review
  Drafts

Friday’s Agenda
  NOTE WELL
  Drafts
  AQM WG mini-meeting

July 20 & 22, 2016
WG Milestones Review

• **DONE**  Submit 'UDP Usage Guidelines' as a BCP RFC
• **Jan 2016**  Submit 'DiffServ interconnection classes and practice' as an Informational RFC [WGLC done, will submit soon]
• **DONE**  Submit 'DSCP packet markings for RTCWeb QoS' as a Proposed Standard RFC
• **DONE**  Submit 'Specification of GRE in UDP encapsulation' to IESG as a PS RFC
• **May 2016**  Submit 'SCTP New Data Chunk' as a Proposed Std RFC [Move to September]
• **July 2016**  Submit 'Tunnel Congestion Feedback' as an Informational RFC [Move to August]
• **Sep 2016**  Submit 'SCTP NAT Support' to IESG as a PS RFC [Move to September]
• **Sep 2016**  Submit 'Guidelines for Adding Congestion Notification to Protocols that Encapsulate IP' as a BCP RFC [Split into PS & BCP drafts, Move to December]
• **NEW**  Submit 'Guidelines for DiffServ to IEEE 802.11 Mapping' as an Informational RFC [New milestone: December]
IDs calling for WG adoption

• Updating ECN Congestion Control Response
  – draft-khademi-tsvwg-ecn-response
  – (partially replaces draft-khademi-alternativebackoff-ecn)

• Propagating ECN Across IP Tunnels with Shim Headers
  – draft-briscoe-tsvwg-rfc6040bis
  – draft is an update, not a replacement (bis)
Agenda for Wednesday (part 1)

1) Agenda bashing
2) Document Status, Charter and Accomplishments
   - Network Transport Circuit Breakers
   - DiffServ for Web RTC
   - GRE in UDP
3) Drafts with WG chairs or IESG
   3.1) UDP Usage Guidelines (IETF LC complete)
   3.2) DiffServ interconnection classes (WG LC complete)
4) Charter and Milestones
Agenda for Wednesday (part 2)

5) Drafts
   5.1) ECN and RTP Circuit breakers
       Related to draft-ietf-avtcore-rtp-circuit-breakers
   5.2) TCP Alternative Backoff with ECN (ABE)
       draft-khademi-tsvwg-ecn-response
       (WG Adoption Requested)
   5.3) Identifying Modified ECN Semantics for L4S
       draft-briscoe-tsvwg-ecn-l4s-id (from L4S BOF)
   5.4) Forward Error Correction (FEC) Framework v2
       draft-roca-tsvwg-fecframev2
   5.5) Lower Effort Per-Hop Behavior (LE PHB) [if time permits]
       draft-bless-tsvwg-le-phb
Agenda for Friday (part 1)

6) Agenda review

7) WG drafts
   7.1) DiffServ and IEEE 802.11
   7.2) Adding congestion control to protocols that encapsulate IP
        Includes draft-briscoe-tsvwg-rfc6040bis (IP-in-IP with shims)
        [ 7.3) Tunnel Congestion Feedback – ready for WGLC, no presentation]

8) SCTP Drafts
   8.1) Stream Schedulers and User Message Interleaving (WG draft)
   8.2) RFC 4960 Errata and Issues
        draft-tuexen-tsvwg-rfc4960-errata
   8.3) Network Address Translation Support (WG draft)
   8.4) Additional Considerations for UDP Encap of SCTP Packets
        draft-tuexen-tsvwg-sctp-udp-encaps-cons
9) Individual Drafts
   9.1) Transport Options for UDP
       draft-touch-tsvwg-udp-options
   9.2) Transport layer protocols over UDP
       draft-herbert-transports-over-udp

10) AQM WG meeting within TSVWG
    David and Gorry proxy for AQM chairs
    - Reminder to review updated CoDel draft
      draft-ietf-aqm-codel
    - Next Steps
      Status of existing charter milestones
      Possible rechartering