TCP Maintenance and Minor Extensions (TCPM) Working Group Status

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Agenda (1/2)

- Agenda bash & WG status (5min)
- WG items
  - Shared Use of Experimental TCP Options (5 min)
    draft-ietf-tcpm-experimental-options / chairs on behalf of Joe Touch
  - A TCP Authentication Option NAT Extension *(not a WG item)* (5 min)
    draft-touch-tcp-ao-nat / chairs on behalf of Joe Touch
  - Proportional Rate Reduction (5 min)
    draft-ietf-tcpm-proportional-rate-reduction / Matt Mathis
  - Increasing TCP's Initial Window (5 min)
    draft-ietf-tcpm-initcwnd / TBD
  - TCP Fast Open (5 min)
    draft-ietf-tcpm-fastopen / Yuchung Cheng
  - RFC 1323 bis (15 min)
    draft-ietf-tcpm-1323bis / Richard Scheffenegger

Agenda (2/2)

- Other items
  - Additional negotiation in the TCP Timestamp Option field during the TCP handshake (5 min)
    draft-scheffenegger-tcpm-timestamp-negotiation / Richard Scheffenegger
  - TCP and SCTP RTO Restart (10 min)
    draft-hurtig-tcpm-rtorestart / Michael Welzl
  - TCP Loss Probe (TLP): An Algorithm for Fast Recovery of Tail Losses (15 min)
    draft-dukkipati-tcpm-tcp-loss-probe / Nandita Dukkipati
  - Evaluating TCP Laminar (15 min)
    draft-mathis-tcpm-tcp-laminar / Matt Mathis
  - More Accurate ECN Feedback in TCP (15 min)
    draft-kuehlewind-tcpm-accurate-ecn, draft-kuehlewind-tcpm-accurate-ecn-option
    Mirja Kuehlewind
  - Highly Efficient Selective Acknowledgement (SACK) for TCP (10 min)
    draft-sabatini-tcp-sack / Anthony Sabatini
  - Impact of IW10 on Interactive Real-Time Communication (10 min)
    Ilpo Järvinen
  - HOST_ID TCP Options: Implementation and Preliminary Test Results (10 min)
    draft-abdo-hostid-tcpopt-implementation / Jaqueline Queiroz
  - Shared Memory Communications over RDMA (10 min)
    draft-fox-tcpm-shared-memory-rdma / Jerry Stevens
- If time permits
  - Processing of IP Security/Compartment and Precedence Information by TCP
    draft-gont-tcpm-tcp-seccomp-prec / Fernando Gont
  - Processing of TCP segments with Mirrored End-points
    draft-gont-tcpm-tcp-mirrored-endpoints / Fernando Gont

WG Charter Update

- Scope remains same, minor edits
- Changes:
  - Clean-up of old specific goals
  - Fixing outdated text
  - Clarified approving new WG items (no IESG permission required)
  - Other wording edits

Status of Documents

Recent RFCs

- The NewReno Modification to TCP's Fast Recovery Algorithm
  draft-ietf-tcpm-rfc3782-bis
  Status: RFC 6582 (April 2012)

- TCP Options and MSS
  draft-ietf-tcpm-tcpmss
  Status: RFC 6691 (July 2012)

WG Items Nearing RFC Publication

- A Conservative Selective Acknowledgment (SACK)-based Loss
  Recovery Algorithm for TCP
  draft-blanton-tcpm-3517bis
  Milestone Target: Proposed Standard in October 2010
  Status: RFC editor's queue

WG Items in WGLC or Being Revised Following WGLC

- Increasing the Initial Window
draft-ietf-tcpm-initcwnd
Milestone Target: Experimental in September 2011
Status: **WGLC ends July 30**

Active WG Items

- Proportional Rate Reduction for TCP
  draft-tcpm-proportional-rate-reduction
  Milestone target: Experimental in May 2012
  Status: No outstanding comments
  Action: **WGLC planned**

- 1323bis
  draft-ietf-tcpm-1323bis
  Milestone Target: Proposed Standard in July 2009
  Status: Revised after being expired, Richard Scheffenegger joined editing team
  Action: **WG to review** – will it soon be ready for WGLC?

Active WG Items

- Shared Use of Experimental TCP Options
  draft-ietf-tcpm-experimental-options
  Milestone Target: Proposed Standard in Sept. 2012
  Status: Revised since IETF-83, ready for WGLC soon?
  Action: **Please review, ready for WGLC?**

- TCP Fast Open
  draft-cheng-tcpm-fastopen
  Milestone Target: Experimental in Sept. 2012
  Status: Revised recently
  Action: Continue discussion

Discontinuing WG Items

- TCP Security
  draft-ietf-tcpm-tcp-security
  Milestone Target: August 2010
  Status: No discussion/progress since IETF-83
  Action: **Remove milestone**

Individual Drafts

- See WG status email for longer list

- Roadmap / RFC 4614bis (draft-zimmermann-tcpm-tcp-rfc4614bis)
  - To bring Roadmap up to date with latest RFCs

- TCP Option Space Extension (draft-ananth-tcpm-tcpoptext)
  - Discusses past attempts to extend TCP option space
  - Presentation at IETF-83
  - Author (Anantha Ramaiah) is looking for further input