MPTCP – Multipath TCP

WG Meeting

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Buenos Aires, Argentina

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- Note taker
- Jabber [IMPORTANT]
- Please include "-mptcp-" in your draft names
- Please say your name at the mike

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Agenda

1. WG Status - Chairs
2. Implementation news - open mike [10 minutes]
3. MPTCP experiences – Christoph Paasch
4. Summary of discussions /progress on RFC6824bis - Alan Ford & Christoph Paasch [30 minutes]
5. NASA use of MPTCP for channel binding of very low-rate links (Iridium Phones) - Matt Sargent and/or Will Ivancic (no draft) [15 minutes]
6. Multipath TCP Support for Single-homed End-systems - Rolf Winter [15 minutes]
7. An MPTCP Option for Network-Assisted MPTCP Deployments: Plain Transport Mode - Med Boucadair [15 minutes]
    1. IPR declaration from UCLouvain https://datatracker.ietf.org/ipr/2726/
8. DHCP Options for Network-Assisted Multipath TCP (MPTCP) - Med Boucadair [5 minutes]

WG Item Status & Milestones

- Jan 2015: Use-cases and operational experiences (Informational) to IESG
  - draft-ietf-mptcp-experience: Conclusion has just been updated. Ready to submit to AD / IESG
- Jan 2015: MPTCP standards track protocol to IESG
  - draft-ietf-mptcp-rfc6824bis – works continues
- Apr 2015: MPTCP-enabled middleboxes (Informational) to IESG
  - we've had various discussions, but no WG doc

- Chairs:
  - The dates of Milestones should be updated
  - As agreed last time, need to remove paragraph about documenting implementation advice

Implementation Updates

Please let us know if you have news!

FreeBSD – Nigel: I've not got an update for this meeting, I'm still working on the implementation. I've just had to divert the last few months to writing my thesis, so haven't had much time to work on the implementation itself. (thus there's not much new to report). Hopefully I can provide some updates for the next meeting!

draft-ietf-mptcp-rfc6824bis

- The primary goal of the WG is to publish a bis version of core spec on the Standard Track

- We agreed to increase the version number (from 00 to 01)

- This provides an opportunity to re-design MPTCP's signalling. Changes so far (compared with RFC6824)
  - Making MP-CAPABLE reliable - agreed
  - Less major changes:-
  - Replacing the IPver field in ADD_ADDR with a set of flags
  - MPTCP Experimental option
  - MPTCP Subflow reset option
  - initial data sequence number is now 64bit truncation
  - ADD_ADDR includes HMAC of IP#-A2

- Various other changes have been & continue to be discussed – more on this today

- Check WG views: ref IPR declaration: https://datatracker.ietf.org/ipr/2678/
  - Apple has submitted IPR info related to draft-paash-mptcp-syncookies some time ago. Apple is willing to apply the same IPR statement to the new 6824bis

- Target is to finish this for Berlin (is this realistic?)