

MPTCP – Multipath TCP

WG Meeting
19th Nov 2019
Singapore

Philip Eardley
Yoshifumi Nishida

- Note taker
- Jabber
- Please say your name at the mike
- Please include “-mptcp-” in your draft names
- Blue Sheet!

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- [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)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)

IETF-106 Agenda

- WG Status updates - Chairs
- Implementation updates
 - iOS and Linux Updates: Christoph Paasch
- Multipath TCP Extension for Robust Session Establishment - Jiao Kang, Markus Amend
- Some experience of MPTCP over satellite networks - Nicolas KUHN
- Multipath TCP extensions for Trust & Prediction - Hewu Li, Qi Zhang

WG Status

Completing bis draft

- 6824bis draft is in RFCEditor Queue
- Goals and Milestones
 - Done - Established WG consensus on the Architecture
 - Done - Submit to IESG architectural guidelines and security threat analysis as informational RFC(s)
 - Done - Submit to IESG basic coupled congestion control as an experimental RFC
 - Done - Consensus on what high-level changes are needed to the current MPTCP Experimental document in order to progress it on the standards track
 - Done - Use-cases and operational experiences (Informational) to IESG
 - Nov 2017 - Enhanced API (Informational) to IESG → no enough energy
 - Mar 2018 - MPTCP standards track protocol to IESG → finished
 - Apr 2018 - Re-charter or close

Implementation Updates

Implementation Status for iOS and Linux

- iOS 13
 - Now used for Apple Music Streaming to reduce audio-stalls
 - Apple Maps Search & Directions requests handles WiFi to Cell transitions
- Linux Kernel
 - Multipath TCP upstreaming ongoing with Red Hat, Intel & Tessares