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

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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)
• 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 RFC Editor 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