MPTCP – Multipath TCP

WG Meeting
27th March 2019
Prague, Czech Republic

Philip Eardley
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• 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)
1. **Chairs – WG Status etc [5 mins]**
   1. The 'request for publication' for RFC6824bis has gone to Mirja (our AD).

2. **Implementation news**
   1. News about open sourcing bis implementation
   2. Significant on-going efforts for mainline Linux kernel
   3. Open mike for implementation news

3. **Deployment updates**
   1. Deploying Hybrid Access Networks with MPTCP - Olivier Bonaventure (remote)
   2. Multi-path Transport Deployment on Smartphone Apps - Zhen Cao

4. **Individual drafts**
   1. Initial-Path Selection for Connection Establishment in Multipath TCP - Jianjian Zhu
   2. Generic Path-Manager Support with eBPF - Viet-Hoang Tran (remote)
   3. 5G Session Continuity Support in MPTCP - Xavier de Foy

5. **Potential future topics for WG**
   1. Brief summary of Monday’s side meeting
   2. TAPS multipath support – Anna Brunstrom
   3. Open discussion
Summary of Monday’s side meeting

• 16 people, lively discussion
• 4 main topics:
  • Path manager and scheduler
    • important topic
    • Earlier discussion didn't reach consensus about RFC changes – RFC & bis just have backup bit (MP_PRIO)
    • ATSSS timeframe is this summer
    • Several possible mechanisms
      • Some flexibility in how interpret backup bit
      • There is room for new MPTCP suboption types
      • Could define probe for probing quality of multiple paths
      • Could define info exchange (eg ‘restrict flow x to 10Mbps’)
    • Could simply document (define?) existing /improved path managers
    • Could simply document (define?) existing /improved schedulers (at high level – fine detail is beyond IETF?)
    • It is hard to get the wordsmithing accurate for more than 2 paths – leave as an exercise for reader?
    • Suggest discussion about scenarios /requirements, before designing mechanism
  • API
    • TAPS multipath support – Anna Brunstrom
  • Update of MPTCP experiences?
  • Robust establishment
    • Some think useful, but some concern about limited space in SYN, scalability, working with middleboxes
    • Markus Amend: I-D for Montreal – park discussion until then
  • Open discussion