

Multipath TCP Robust Session Establishment (RobE) Request for WG Adoption

draft-amend-tcpm-mptcp-robe-00

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Definition for Robust Session Establishment

1. MPTCP RobE [[draft-amend-tcpm-mptcp-robe-00](#)]* is a set of extensions to regular MPTCP [[RFC6824](#)] and MPTCP v1 [[RFC8684](#)]. It is designed to provide a more Robust Establishment (RobE) of MPTCP sessions.
2. RobE includes RobE_TIMER, RobE_SIM, RobE_eSIM and RobE_IPS. It also presents the design and protocol procedure for the combination scenario in addition to these stand-alone solutions, i.e. the combination of RobE_SIM and RobE_IPS, the combination of RobE_TIMER and RobE_IPS.

*originating from MPTCP WG. History at <https://datatracker.ietf.org/doc/draft-amend-mptcp-robe/>

Status Recap (draft/prototype)

- draft-amend-mptcp-robe-00 was submitted and presented in ietf-106

<https://www.ietf.org/proceedings/106/slides/slides-106-mptcp-multipath-tcp-extension-for-robust-session-establishment-00>

- “Evaluate MPTCP RobE at IETF107 hackathon” has been published (but ietf-107 hackathon was cancelled in COVID-19 times)

<https://tools.ietf.org/html/draft-amend-mptcp-robe>

<https://trac.ietf.org/trac/ietf/meeting/wiki/107hackathon/mptcp-robe/testbed>

<https://tools.ietf.org/html/rfc6824>

<https://tools.ietf.org/html/draft-ietf-mptcp-rfc6824bis>

<https://github.com/multipath-tcp/mptcp>

- draft-amend-tcpm-mptcp-robe-00 was submitted and implementation demo was presented in ietf-108

<https://tools.ietf.org/html/draft-amend-tcpm-mptcp-robe-00>

https://github.com/markusa/ietf107hackathon-mptcp-robe/tree/master/testbed_results_july_2020

Status updates per discussion since IETF 108

- IPR Disclosures Concern → Updated IPR Disclosures with license
 - <https://datatracker.ietf.org/ipr/4312/>
 - <https://datatracker.ietf.org/ipr/4423/>
- More MPTCP experts to join
 - *Already have running code, demos and show cases;*
 - **Comments always welcome**
 - **Come and join us !**

Next Steps

- WG Adoption ?
 - This could be take place in parallel with the current call for reviews by the authors
<https://mailarchive.ietf.org/arch/msg/tcpm/syJglmuKrMI-ljUdTKphoSyME0Y/>
So far no objections received
- Next iteration of the draft document planned for IETF 110