Multipath TCP Robust Session Establishment (RobE)

draft-amend-tcpm-mptcp-robe-01

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Short Solution Recap

Regular MPTCP ⊗

If the initial flow cannot be established, there is no connectivity!

RobE_SIM =

Uses all path simultaneously.

RobE_TIMER

Uses SYN retransmission timer to try subsequent path.

RobE_IPS 💢

Derives path quality from measurements and select promising path accordingly.

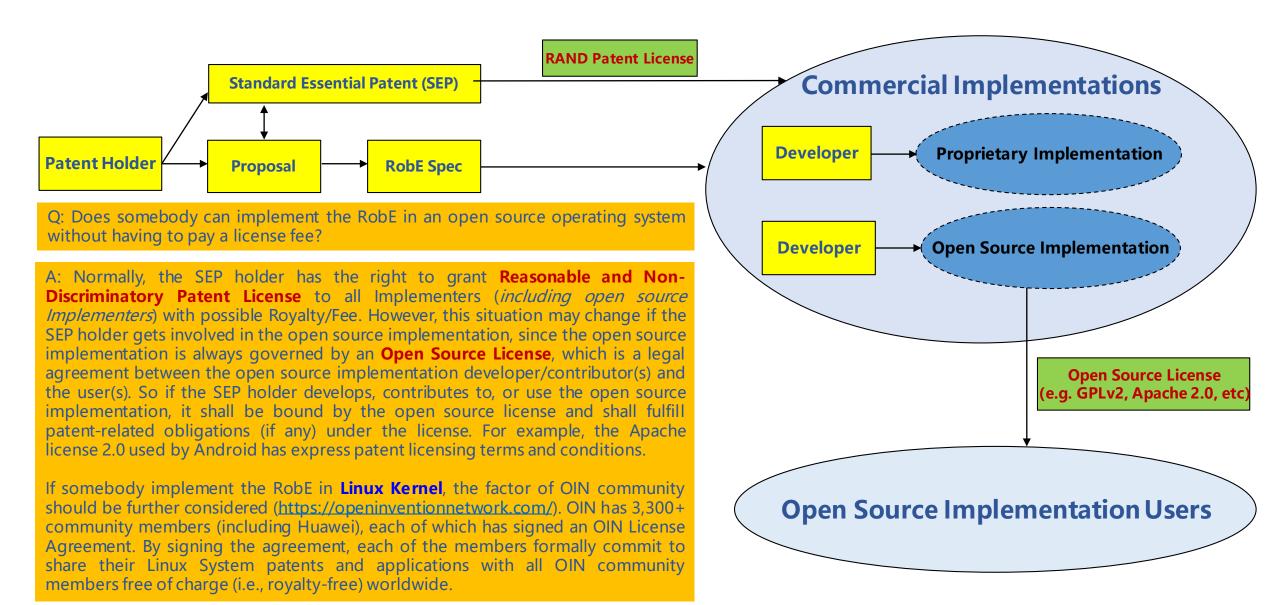
Issues from ieft-109

Request WG Adoption, failed, issues from TCPM community include:

• Issue #1: Does the IPR allow implementation in an Open Source implementation? Please take to mailing list.

• Issue #2: Open source the code will be good.

Issue #1: License clarification



Issue #2: OSS Status

Part of RobE_IPS features have been indirectly open-sourced by Huawei products under:
 https://consumer.huawei.com/en/opensource/detail/?siteCode=worldwide&productCode=Smartphones
 &fileType=openSourceSoftware&pageSize=10&curPage=1

• Implementation demo was presented in ietf-108.

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

Next Step

Are the proposed measures and declarations and disclosures enough to proceed towards WG Adoption?

draft-amend-mptcp-robe-01 was submitted in Febrary, 2021
 https://www.ietf.org/rfcdiff?url2=draft-amend-tcpm-mptcp-robe-01