

# Progress on Accurate Data Scheduling by Server in MPTCP

draft-kang-tcpm-accurate-data-scheduling-by-server-01

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IETF-109, TCPM WG, November, 2020

# Changes Since IETF-108

- **draft-kang-tcpm-accurate-data-scheduling-by-server-01 has be submitted**

- Update description of the use cases

- Update definition of MP\_Navigation Option

- Data Scheduling on client when receiving MP\_Navigation will be considered later

- Security will be considered later

- **Key Points in TCPM Mail List Discussion**

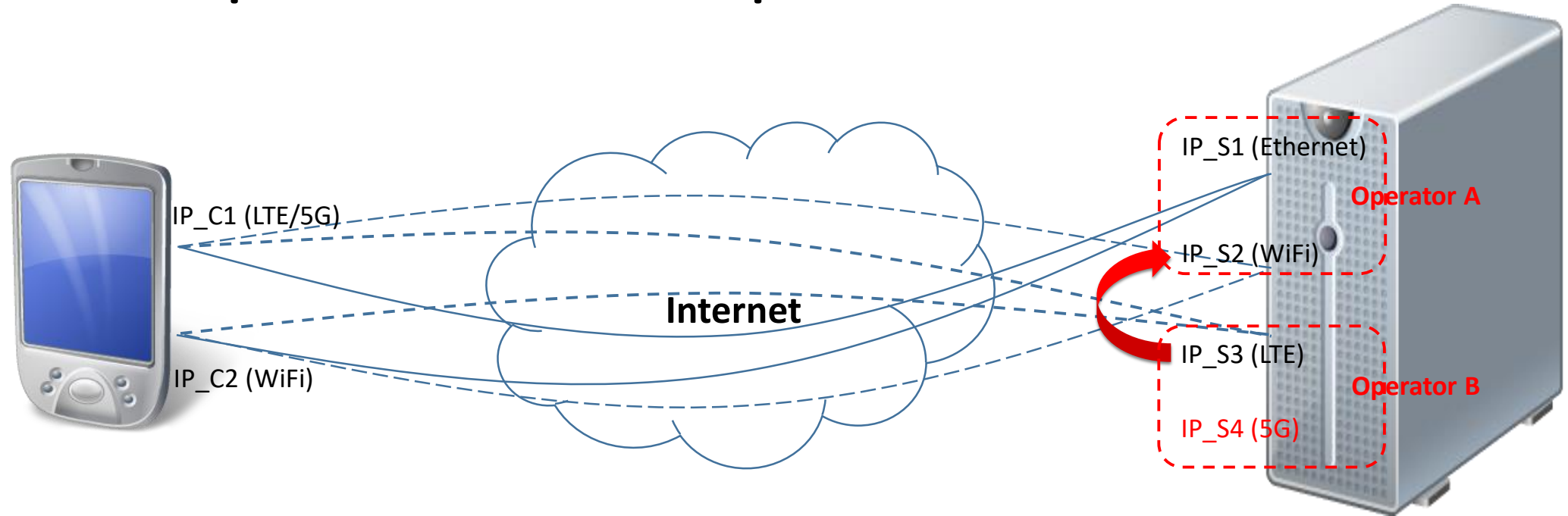
- What are the advantages comparing to MP\_PRIO?

- How about data Scheduling on client when client and server have conflicting/different strategies?

- How to implement such kind of a logic?

- This could also serve as input for Multipath QUIC.

# Update the Description in Use Cases



Scenario 1: Network fault prevention

Scenario 2: A new network interface is added on server during a MPTCP session

Scenario 3: Value-added services

Scenario 4: MPTCP server hopes to adjust traffic to a specific subflow because of the changes in network cost

# Update the Definition for MP\_Navigation Option

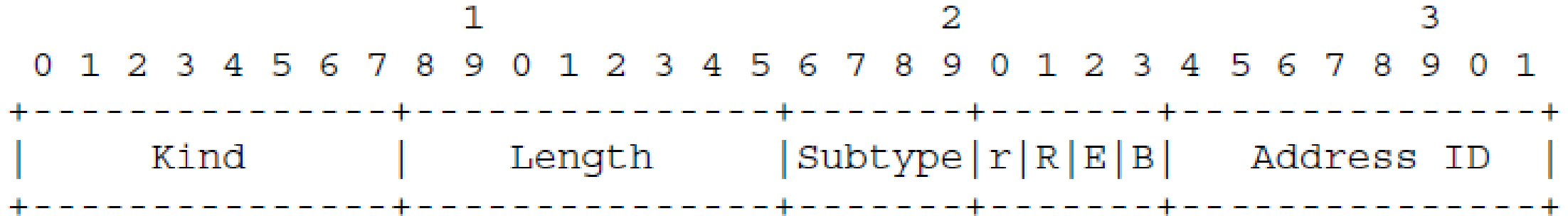


Figure 3: MP\_Navigation Option

**Subtype:** a new subtype should be allocated to indicate MP\_Navigation Option.

**Address ID:** the address ID of target network Interface.

**Flag 'r':** reserved.

**Flag 'R':**

- value = 0, server requests client to perform traffic switching.
- value = 1, server requests to cancel previous navigation setting.

**Flag 'E':** exists to provide reliability for this option.

**Flag 'B':** indicates whether the subflow over which the option is received is a backup one.

# Next Steps

1. Data Scheduling on client when receiving MP\_Navigation will be considered.
2. Security will be considered.
3. Demo will be arranged if required (but cannot promise the timeline for this work).