Accurate Data Scheduling by Server in MPTCP

draft-kang-tcpm-accurate-data-scheduling-by-server-00

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**Scenario 1: Network fault prevention**
Server hopes to switch the traffic to a network interface with better key performance indicators (KPI).

**Scenario 2: A new network interface is added on server during a MPTCP session**
Operator hopes to reduce the load on some subflows and lead them to the additional subflow, such as for test. This is the trial operation scenario for new network.

**Scenario 3: Value-added services**
For VIP users, it should be possible for operator to switch their traffic to network interface with better KPI.
Implementation and Interoperability

Figure 1: Server request client to perform traffic switching

Figure 2: Server sends a request to client to cancel previous navigation setting
**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. Will be considered in MPTCP protocol?
2. Any comments welcome