

draft-bonaventure-mptcp-exp- option

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Motivation

RFC 6824

Multipath TCP

January 2013

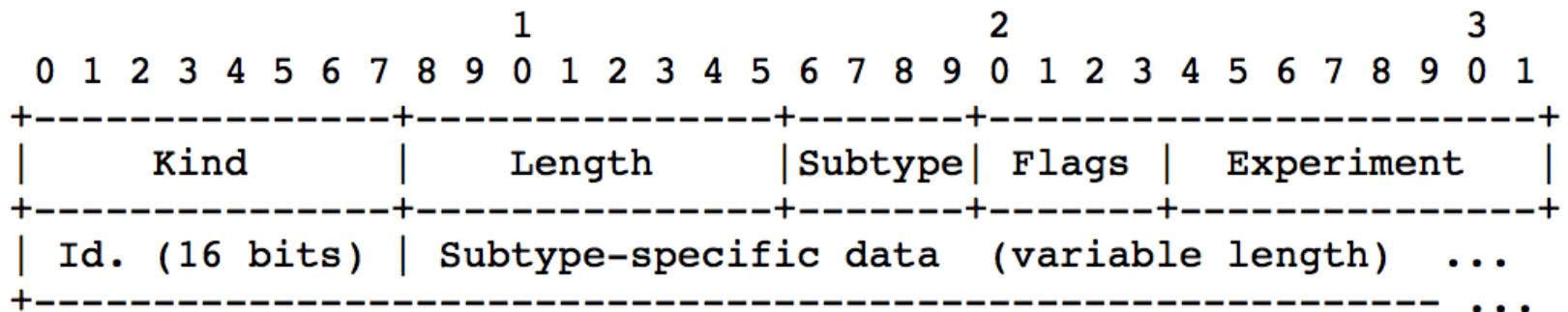
Value	Symbol	Name	Reference
0x0	MP_CAPABLE	Multipath Capable	Section 3.1
0x1	MP_JOIN	Join Connection	Section 3.2
0x2	DSS	Data Sequence Signal (Data ACK and data sequence mapping)	Section 3.3
0x3	ADD_ADDR	Add Address	Section 3.4.1
0x4	REMOVE_ADDR	Remove Address	Section 3.4.2
0x5	MP_PRIO	Change Subflow Priority	Section 3.3.8
0x6	MP_FAIL	Fallback	Section 3.6
0x7	MP_FASTCLOSE	Fast Close	Section 3.5

Table 2: MPTCP Option Subtypes

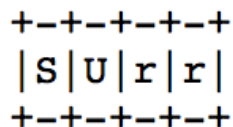
Values 0x8 through 0xe are currently unassigned. The value 0xf is reserved for Private Use within controlled testbeds.

Proposal

- Define a generic experimental option type for Multipath TCP
 - Inspired from RFC6994 with some changes

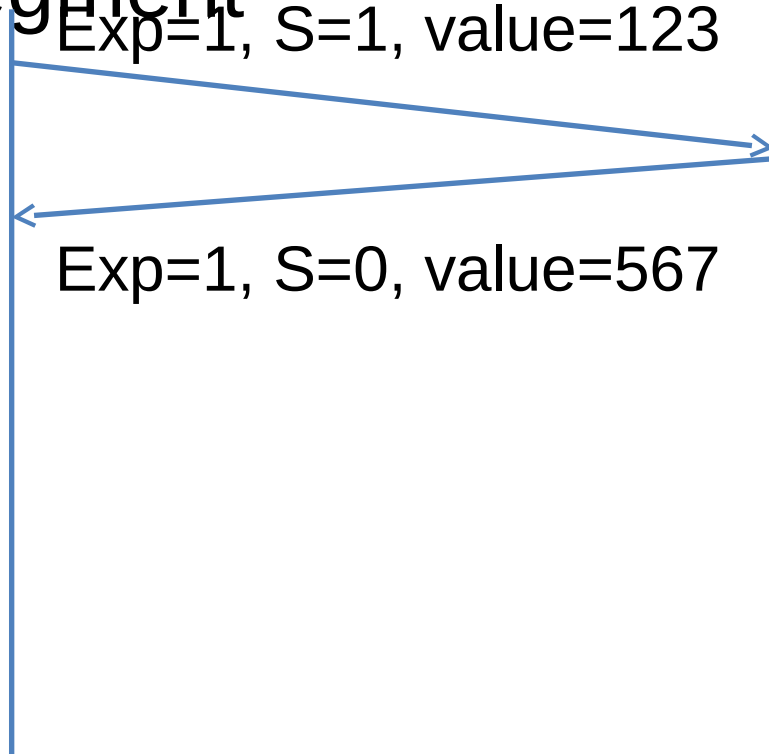


Flags is a set of 4 flags:



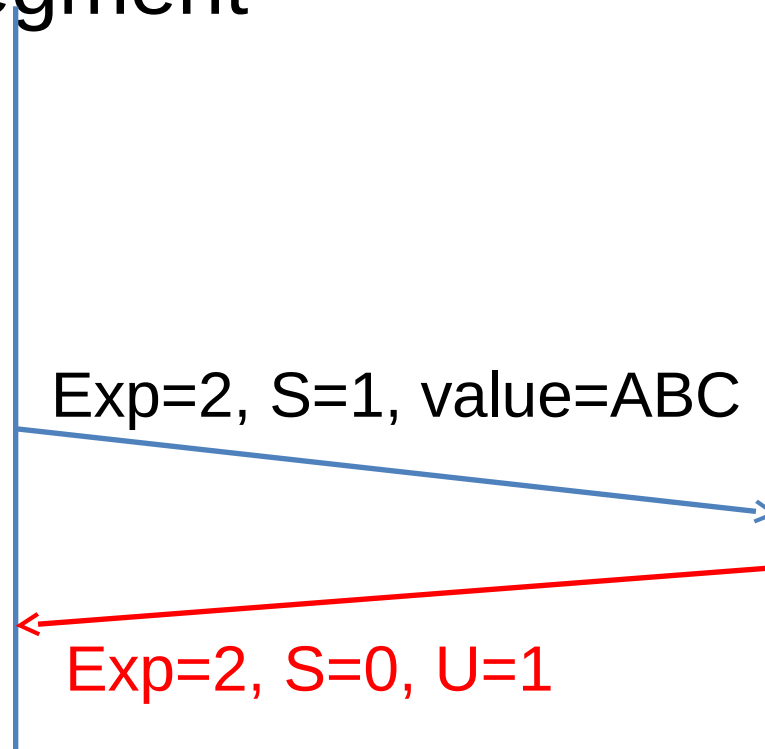
Negotiating option usage

- Not in the SYN because there is no space left
- In any segment



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Conclusion

- Experimental option would prevent a rapid utilisation of all available MPTCP option types
- Proposal
 - Adopt and improve the text to include it in RFC6824bis