

A socket API to control Multipath TCP: updates

IETF 101
draft-hesmans-mptcp-socket-03

Benjamin Hesmans <benjamin.hesmans@uclouvain.be>
Fabien Duchêne <fabien.duchene@uclouvain.be>
Olivier Bonaventure <olivier.bonaventure@uclouvain.be>

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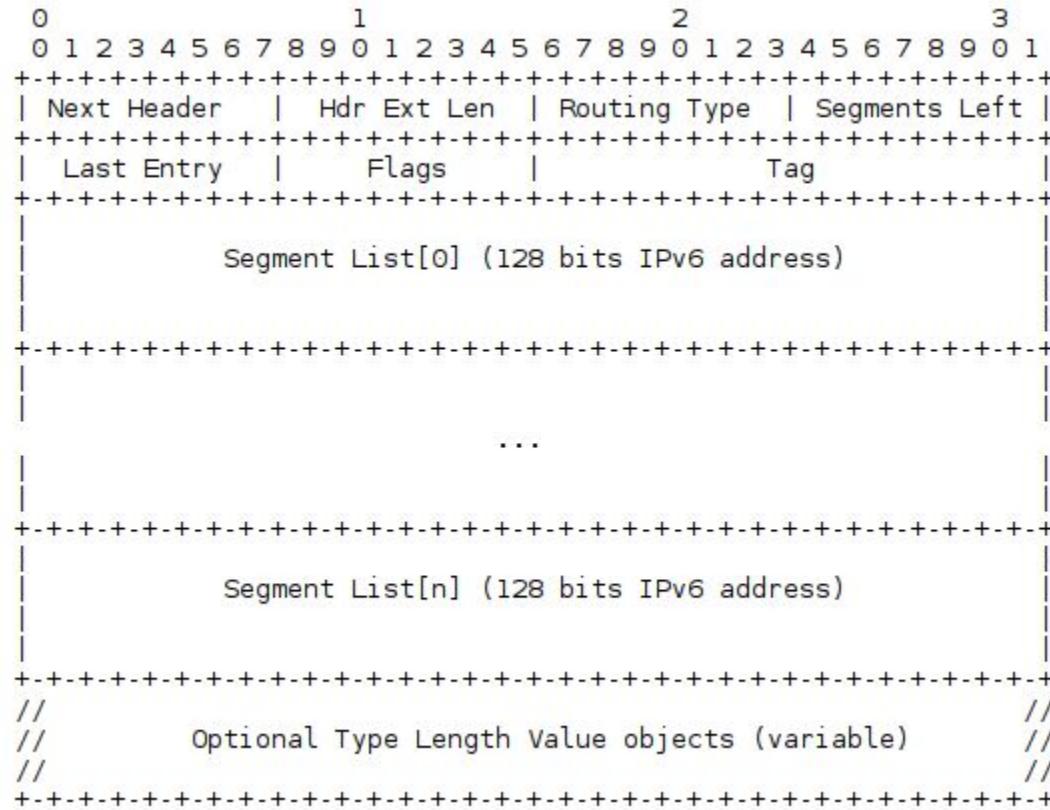
- Added the *IPv6 Segment routing extension* section

... Multipath-TCP can leverage SRv6 to establish subflows that use a specific path..

Segment Routing v6

- Segment Routing (SR) [I-D.ietf-spring-segment-routing] allows a node to steer packets through specific paths inside a network.
- The IPv6 dataplane relies on the IPv6 **Segment Routing Header**
- MTCP can leverage SRv6 to establish subflows that use a specific path.

Segment Routing v6 Header



MPTCP + SRv6

```
memset(&srh->segments[0], 0, sizeof(struct in6_addr));
inet_pton(AF_INET6, "2001:DB8:2222::1", &srh->segments[1]);

sub_tuple->ipv6_srh = srh;

error = getsockopt(sockfd, IPPROTO_TCP, MPTCP_OPEN_SUB_TUPLE,
sub_tuple, &optlen);
```

Use cases

- Disjoint path
- Traffic engineered path
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Questions ?