

SOCKS v6 Update

draft-olteanu-intarea-socks-6-11

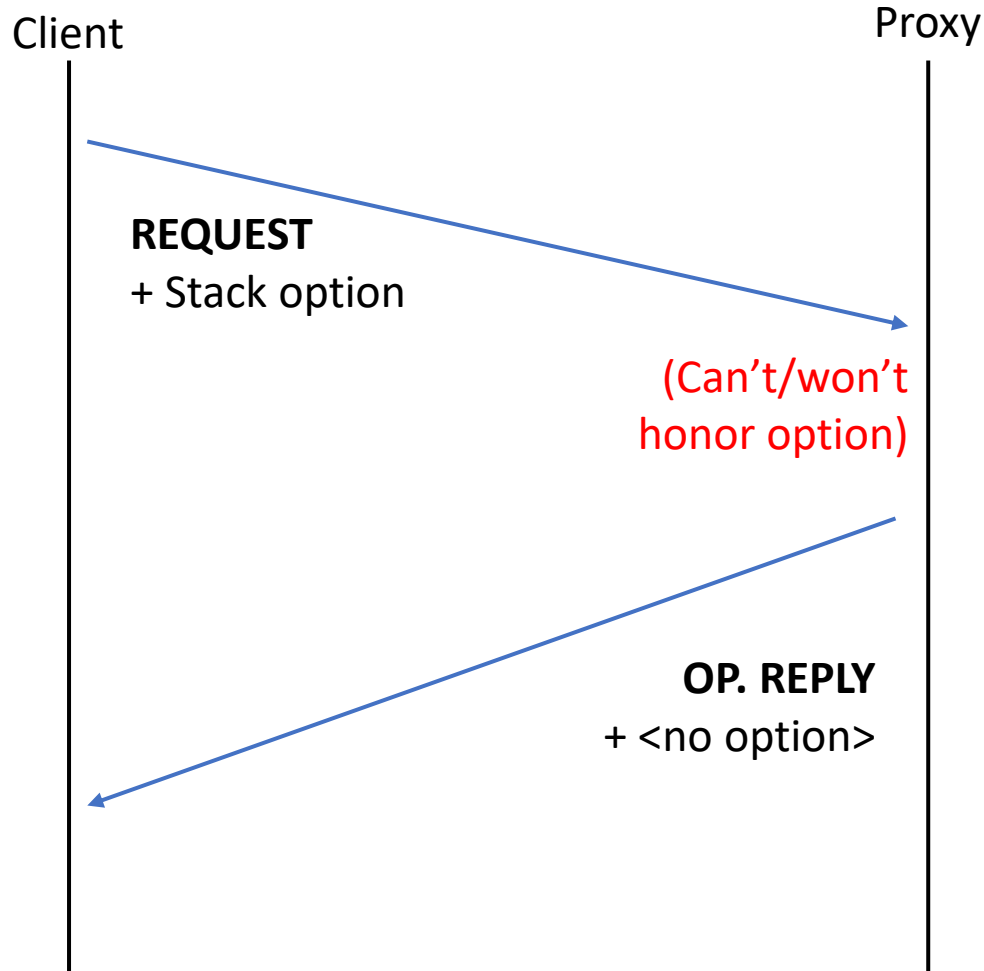
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Intarea, IETF 109, Nov. 19th 2020

New in -11

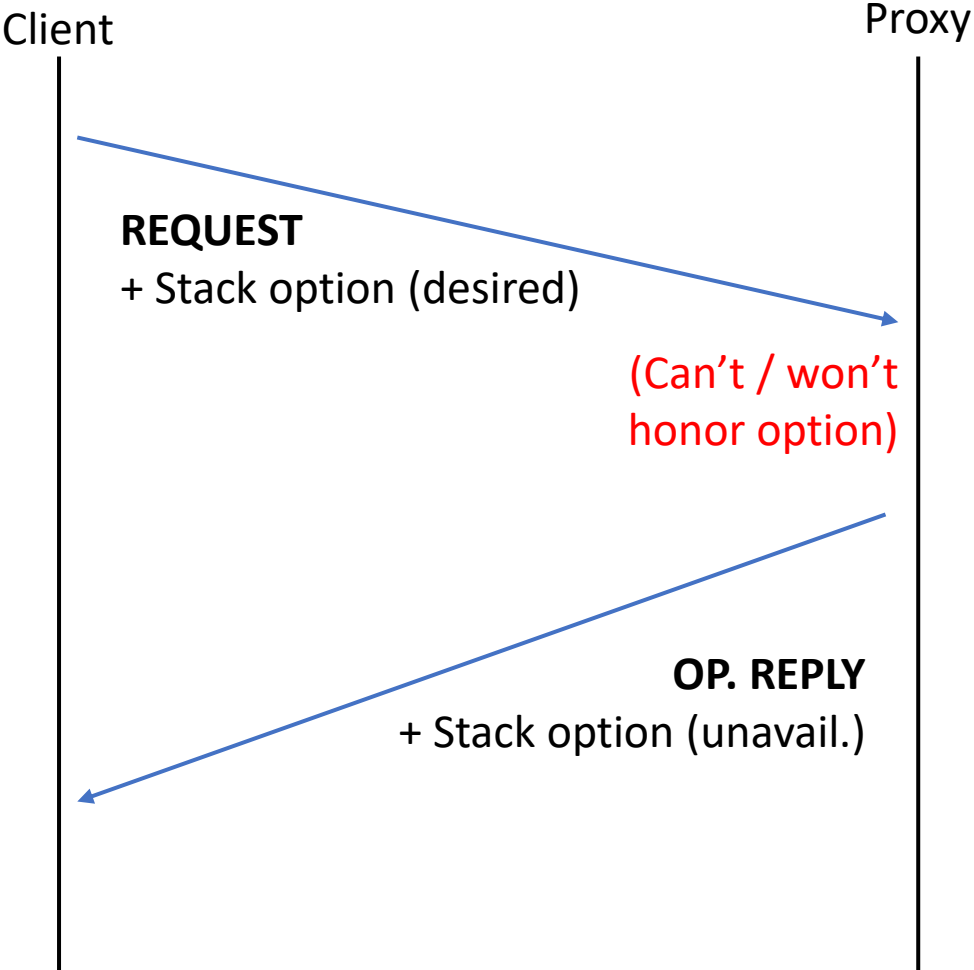
- Changed intended status: “Experimental” -> “Standards Track”
- Stack options: eliminated silent answers to legitimate requests
- Nit: Renamed “Vendor Specific” options to “Experimental”
 - Don’t want to encourage fragmentation

Stack options w/ silent negative responses

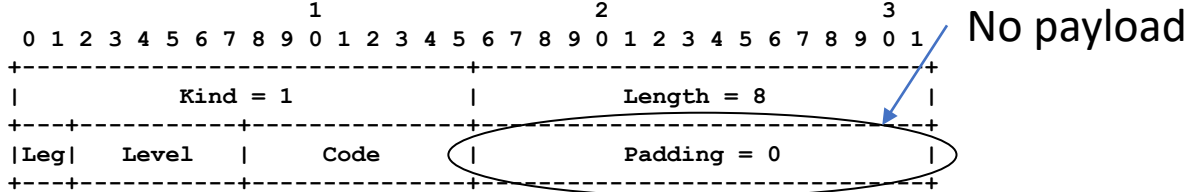


- Negative response same as lack of support
 - Client might want to know
 - Options with this problem (-10)
 - Happy Eyeballs
 - IP Fragmentation
 - UDP Error
 - Port Parity
- } Boolean in nature

Boolean options now have payload

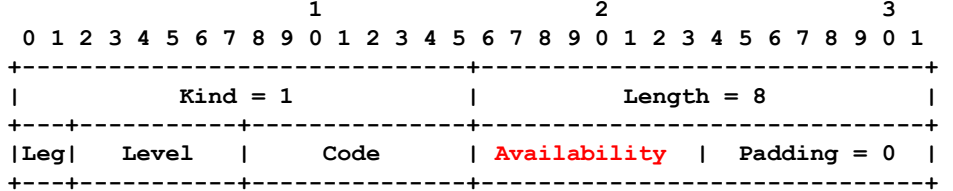


- Old format (-10)



- Mere presence signals desirability (client) / availability (proxy)

- New format (-11)



- Can explicitly signal undesirability / unavailability

Multipath options tweaked

- Issue: should SOCKS use MPTCP by default?
 - Risky: middleboxes might break MPTCP
- CONNECT: don't take (small) risks on behalf of the client
 - Little to gain: most servers don't have MPTCP
- BIND: ultimately up to remote host
 - Can't prevent remote host from sending SYN + MP_CAPABLE
 - If MP_CAPABLE made it through, MPTCP is likely to work
- In -10: Proxy SHOULD NOT do MPTCP unless explicitly asked
- In -11: Above stipulation only applies to CONNECT.

Intarea WG adoption?

- Adoption call still open
- Please support on mailing list if you'd like to see this adopted