TCP Extended Data Offset Option

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Status

• 06 update issued Jan 2017
  – No update

• Driving need
  – MPTCP, though they also need space in SYN
    • EDO-SYN approach is highly experimental and unlikely to transit many middleboxes

• Issues to be resolved
  – Implementation
    • USC/ISI project on hold (awaiting new student)
    • Resources/collaboration would be cheerfully appreciated
  – Offload interaction
    • Correct behavior understood, earlier observed behavior inconsistent; awaiting implementation for further diagnosis
  – Tests for legacy fallback
    • Includes “length” variant to detect middlebox merging as weak-test
    • Strong test for blind echo consumes too much space to be viable

• Implementation progress
  – USC/ISI student project on hold (awaiting new student)