

# TCP Timestamps revisited

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[tools.ietf.org/html/draft-scheffenegger-tcpm-timestamp-negotiation-05](https://tools.ietf.org/html/draft-scheffenegger-tcpm-timestamp-negotiation-05)  
[tools.ietf.org/html/draft-trammell-tcpm-timestamp-interval-01](https://tools.ietf.org/html/draft-trammell-tcpm-timestamp-interval-01)



# Motivation

- TS option seen as high-overhead
- 1323bis discussions indicated interest in changing TS option semantics to allow
  - “Late” TS option activation
  - Synergy with SACK option
- Enabling additional capabilities
  - TS interval exposure
  - Multiple event detection in window
    - lost retransmissions (and recovery)
    - false retransmissions
  - Improving TS option security

## **tcpm-timestamp-negotiation-05**

- Semantic change of TS w/ SACK
- State machine and negotiation needs rework

## **tcpm-timestamp-interval-01**

- Exposing timestamp clock interval
  - Experimental Option (using RFC6994)
  - Refined encoding and guidance

# Next steps

- Support to adopt this work as WG item(s)?
- Comments

*Thank you*

