

TCP-AO Test Vectors

draft-touch-tcpm-ao-test-vectors-00

IETF 108 - Online



Joe Touch, consultant

Juhamatti Kuusisaari, Infinera Corp.



Rationale

- Provide test vectors to validate implementation
 - All four derived traffic keys
 - Both current required algorithm sets (key derivation, MAC)
 - Both including and excluding TCP options
 - Currently includes IPv4
 - Covers TCP ports
- For all entries, indicates:
 - Derived traffic key
 - Test TCP header
 - MAC for verification
- Pending additions
 - IPv6
 - NAT-traversal variant

Other issues

- Discusses known implementation issues
 - Algorithm
 - Parameter
 - String handling
 - Header coverage
- Based on updated sequence number extension (SNE) computation
 - Details in a separate draft (to be submitted)
 - Intended for future consideration as WG BCP

Ways forward

- Intended as informational
- Requesting WG adoption