

793bis

Progress and Plan to

Finish

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Background

- Goal is to accumulate all relevant standards track updates to RFC 793
- Includes:
 - Verified Errata
 - Content from RFC 1122
 - Many other RFCs with bug fixes, extensions, and clarifications
- Intention is for only “light touch” editorially, with as much text as possible directly incorporated unchanged from sources
 - Minimize chances to mess something up or diverge from prior consensus

History

Transmission Control Protocol Specification

draft-ietf-tcpm-rfc793bis-04

Status Document IESG evaluation record IESG writeups Email expansions History

Versions 00 01 02 03 04



- Detailed change log in Section 4 “Changes from RFC 793”
- Document source is in git repository:
 - <https://bitbucket.org/weddy/rfc793bis>

Current Status

- All direct 793 errata captured
- All 1122 content incorporated
- Urgent pointer updates (per 6093, 1122, 1011)
- ISN generation (per 6528)
- MSS and segmentation (per 879, 1122, 6691)
- ECN reserved bits
- ZWP condition (per 6529)
- RTO computation reference to 6298

Plans to Finish

- Charter milestone is set for Nov 2017
 - We have ~6 months!!
- Still have some minor in-scope work to do (see next chart)
- Still have some out-of-scope items to discuss (see next next chart)

In-scope work still to be done

1. relevant parts of ECN
2. ICMP soft errors (RFC 5461)
3. “tcpsecure” state machine change (RFC 5961)
4. reducing TIME-WAIT (RFC 6161)
5. proper reference to DSCP instead of TOS
6. consistent use of SYN_RCVD versus SYN-RECEIVED
7. review RFC 1011 clarifications?
8. editorial pass – make sure things are in the right place, ordered well, acronyms spelled out, references correct, etc.

Out-of-scope items for more discussion

1. draft-gont-tcpm-tcp-seccomp-prec
2. draft-gont-tcpm-tcp-seq-validation
3. alternate description of the DO field (Tony Sabatini)
4. treatment of reserved bits (see TCP EDO thread on April 25, 2014)
5. draft-minshall-nagle (modified Nagle, used in Linux)
6. revised description of API (TAPS thread 6/20/2015)

Next Steps

- My plan is to:
 - complete all in-scope items in next couple revisions
 - for out-of-scope items, ignore or relegate to notes in an appendix
 - Mention in appendix of “Other Implementation Notes”:
 - draft-gont-tcpm-tcp-seccomp-prec
 - draft-gont-tcpm-tcp-seq-validation
 - draft-minshall-nagle
 - Ignore:
 - alternate description of the DO field (Tony Sabatini)
 - treatment of reserved bits (see TCP EDO thread on April 25, 2014)
 - revised description of API (TAPS thread 6/20/2015)
- Does this sound good?