# 793bis Progress and Plan to Finish

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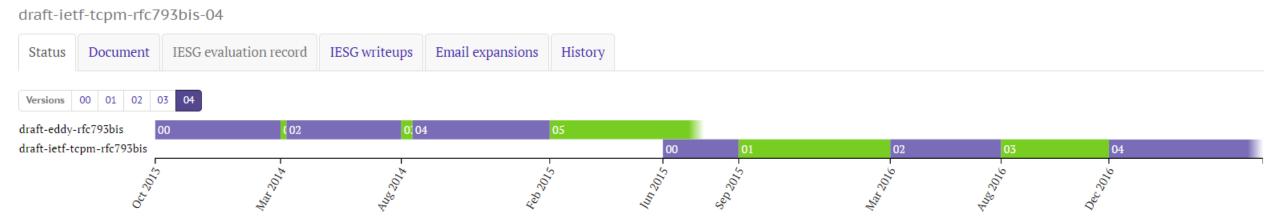
# Background

- 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



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

### **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?