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

• 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?