Overview

- Original document proposed a workaround for long delays between connection-establishment attempts that may arise in a number of scenarios, based on changing TCP’s reaction to soft errors when received in any of the non-synchronized states.

- The rationale was in D. D. Clark’s “Fault Isolation and Recovery” (RFC 816):

> “In fact, error messages serve several important purposes. First, if they arrive in response to opening a new connection, they probably are caused by opening the connection improperly (e.g., to a non-existent address) rather than by a transient network failure.”

- This behaviour has been implemented in, at least, Linux, NetBSD, and Symbian. More conservative approaches implemented in FreeBSD and Microsoft Windows.
At IETF 62, there was consensus to take the draft as a WG document, for the Informational path.

The draft should only document the behaviour, and **not** propose it.

draft-gont-tcpm-tcp-soft-errors-02.txt is the result of those changes.

RFC 2119 wording has been stripped.

The draft now only describes the problem, the behaviour implemented in some operating systems, analyzes the possible drawbacks. It does **not** propose it.
Moving forward

- The Introduction should be tweaked a bit, to make it clear the draft only analyzes TCP’s reaction to soft errors received during the connection-establishment phase.
- Some minor editorial changes proposed by Pekka Savola should be incorporated.
- The draft should be re-submitted as draft-ietf-tcpm-tcp-soft-errors-00.txt

WG Last Call’ed after that?
Questions?

Fernando Gont
fernando@gont.com.ar
http://www.gont.com.ar