Transmittal Letter

The following lists documentation issues and points to be resolved in the next edition of the specification.

Documentation Issues:

- A major restructuring of the document is called for to present a concise specification of the protocol separated from implementation suggestions.

- The document should make clear the distinction between the protocol and the implementation, for example, it should call the protocol TCP and the program TCPI (for TCP interpreter or implementation) or TCPM (for module).

- Since TCPS are distinguished from hosts, the discussion of addressing (especially in section 4.3) should reflect this.

- The presentation of the STATES and ACTIONS might be improved.

- Is section 4.2.9 an adequate replacement for the diagrams that were included in the TCP-1 specification?

Documentation Minor Points:

p2 - The relation between Letters, Segments, Fragments, Packets, needs to be clearer, the treatment of this in the introduction should be reviewed.

p37 - This glossary should be expanded and pulled up to the top level as a prefix or appendix.

p61 - The distinction between protocol specific options and protocol independent options should be made by moving the independent options to the internet header. This would eliminate the P bit.

p62 - Where does one find the definitions of the options?

p63 - Sizes in the TCB description should be the minimal size needed.

p68 - In Section 4.4.2 in the 3rd to last paragraph the following sentence should be reworded: "If the packet length is zero (e.g., an ACK packet), tests should be performed as if the packet length were one to accommodate the case that the receive window is zero."

p70 - In Section 4.4.4 in the 1st paragraph it is not clear what the Input Packet Handler is giving to the Packetizer (empty buffers or full buffers or what?).

p73 - In Section 45.3 in paragraph starting "Limited experimentation..." there should be a reference to the literature on statistical multiplexors.

p75 - The bibliography should be updated, outdated citations should be removed.

--jon.