CROSSROADS

Suggested FCP-2 Enhancements

For Tape

List of Proposed Enhancements

- Command Reference Number for command ordering

- FCP_CONFIRM IU for confirmed delivery of FCP_RSP in Class 3

Command Reference Number

- Enabled by MODE SELECT
  - Bit TBD on Page 0x19

- Embed Command Reference Number in Byte 0 of FCP_CNTL field of FCP_CMND
  - Continuously increasing on an I-T-L nexus
  - Target does not execute out-of-order commands
    - held until prior CRNs received
  - Initiator not to reuse sequence number until delivery confirmed
  - Task Management Functions have CRNs

- Initiator to abort lost command(s) with ABTS and reissue with correct sequence number, new OX_ID;

- PRLI resets reference number to 0.

- Delivery confirmation via
  - FCP_XFER_RDY, FCP_DATA, or FCP_RSP; ACK; REC.

FCP_CONFIRM

- Requested on each FCP_RSP requiring confirmation
  - Byte 2 Bit 4 indicates FCP_CONF required
  - Last Sequence bit not set in F_CTL

- FCP_CONFIRM has IC = 3
  - Last Sequence bit set in F_CTL
  - No payload