Suggested FCP-2 Enhancements
For Tape
List of Proposed Enhancements

- Command Reference Number for command ordering
- FCPCONFIRM IU for confirmed delivery of FCP_RSP in Class 3
Command Reference Number

- Enabled by PRLI
  - Byte 3 bit 8 to employ Command Sequence Numbering

- Embed Command Sequence Number in Byte 0 of FCP_CNTL field of FCP_CMND
  - Continuously increasing on an I-T-L nexus
  - Target can detect out-of-order command & respond to it
  - Initiator not to reuse sequence number until delivery confirmed

- Target presents Response Code for lost commands
  - May elect to wait R_A_TOV for out-of-order command if FLOGI allowed OOO delivery
  - RSP_CODE 06 to mean Command Received Out Of Order; all OOO commands aborted
  - Initiator to abort lost command(s) with ABTS and reissue with correct sequence number, new OX_ID; Clear Queue resets sequence number to 0.

- Delivery confirmation via
  - FCP_XFER_RDY, FCP_DATA, or FCP_RSP; Acceptance of next command; REC.
FCPCONFIRM

- Enabled by PRLI
  - Byte 3 bit 7 to enable FCPCONFIRM

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

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