

Seagate Technology

2400 Trade Center
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Date: 04/29/97
To: Diskboys
From: Mike Bryan
RE: Login modifications

Proposals 1 and 2 are intended to clarify the use of the Login ORB management function. Proposal 3 is intended to redefine the Login Query ORB function as a set of CSR registers.

1. Add the following statement to clause **5.1.4.1 Login ORB**, "The *status_FIFO* address for Normal command block ORBs is specified in Login ORBs only and is NOT changed with other management ORB functions."

The definition of *status_FIFO* address is in clause **5.1.4 Management ORB**. Reference to "this login" in that definition should be moved to the *status_FIFO* address description of the Login ORB. It should be clear that:

- a) Normal command block status is sent to the STATUS FIFO address contained in the Login ORB.
- b) Management ORB status is sent to the Status FIFO address contained in the Management ORB itself.

These changes allow the initiator to use different addresses for management ORB status and command block ORB status. They would prevent management ORB status from being queued with command ORB status in the same FIFO and forcing the initiator to wait for the management ORB status to fall through the FIFO. Management functions will be enhanced, since a significant number are of a high priority. Targets will be simplified since command block ORB status will be updated only during the Login process.

2. Clause **5.1.4.1 Login ORB** the *password* address field should be included in paragraph 6 to clarify the location of the address.
3. Would it be possible to remove query login response as a management function (as those could be allowed only for logged in inits), and moved to a CSR readable location(s) which is already a general accessible area (i.e. not protected) ? This seems to be more orthadardabegga concerning access AND it simplifies code (no special cases for mangement orbs to allow accesss based on function code) CSR space is not screened so no special case is needed.