

To: T10 Technical Committee
 From: Rob Elliott, HP (elliott@hp.com)
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 Subject: 04-213r0 SPC-3 TEST UNIT READY reservations correction

Revision history

Revision 0 (7 July 2004) First revision

Related documents

02-304r1 Allowing TUR through Persistent Reservations (George Penokie, IBM)
 spc3r10 through spc3r19 - SCSI Primary Commands - 3 revision 10 through 19

Overview

02-304r1, incorporated into spc3r10, added this to the TEST UNIT READY section as a warning that the reservation table entry changed from Conflict to Allowed:

Logical units shall return GOOD status if a reservation conflict is detected.

NOTE 35 - Logical units complying with previous versions of this standard (i.e., SPC-2) may return RESERVATION CONFLICT rather than GOOD status if a reservation conflict is detected.

This isn't quite right. If a unit attention is pending, the LU is not ready, or the CDB is an illegal request, the status returned is going to be CHECK CONDITION, not GOOD.

I think this would be better as a note in table 31 on each of the TEST UNIT READY row "allowed" cells that changed.

Suggested changes

5.6.1 Persistent Reservations overview

Table 1 — SPC commands that are allowed in the presence of various reservations (part 1 of 2)

Command	Write Excl	Excl Access	From Registered I_T nexus (RR all types)	Write Excl RR	Excl Access RR
TEST UNIT READY	Allowed b	Allowed b	Allowed	Allowed b	Allowed b
^a Exceptions to the behavior of RESERVE and RELEASE ... ^b Logical units complying with previous versions of this standard (e.g., SPC-2) return RESERVATION CONFLICT in this case.					

6.31 TEST UNIT READY command

The TEST UNIT READY command (see table 171) provides a means to check if the logical unit is ready. This is not a request for a self-test. If the logical unit is able to accept an appropriate medium-access command without returning CHECK CONDITION status, this command shall return a GOOD status. If the logical unit is unable to become operational or is in a state such that an application client action (e.g., START UNIT command) is required to make the unit ready, the device server shall return CHECK CONDITION status with a sense key of NOT READY.

~~Logical units shall return GOOD status if a reservation conflict is detected.~~

~~NOTE 35—Logical units complying with previous versions of this standard (i.e., SPC-2) may return RESERVATION CONFLICT rather than GOOD status if a reservation conflict is detected.~~

Table 172 defines the suggested GOOD and CHECK CONDITION status responses to the TEST UNIT READY command. Other conditions, including deferred errors, may result in other responses (e.g., BUSY or RESERVATION CONFLICT status).