

memorandum



Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
USA
www.hp.com

T10/04-383r2

To
INCITS T10 Committee

From
Michael Banther, HP

Subject
FCP-3 Clarification to TPRLO

Date
18 January 2005

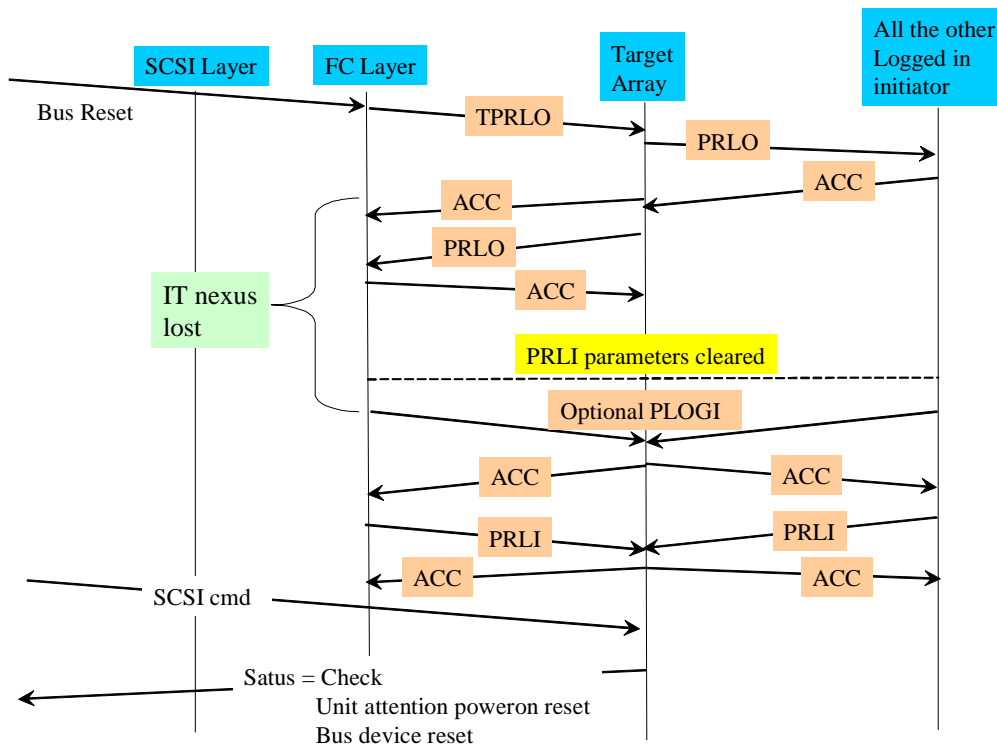
Revision History

Revision 0 – Initial proposal.

Revision 1 – After review by November, 2004 FCP-3 working group and subsequent changes from Bob Nixon and Vinod Bhat.

Background

HP has become aware that some target devices do not log out all initiators during a Third Party Process Logout when the GLOBAL bit is set to one. This behaviour results in PRLI parameters remaining set. HP believes that the diagram below shows the correct behaviour.





Proposed changes to the draft standard

4.10 Clearing effects of task management, FCP, FC-FS-2, FC-LS, and FC-AL-2 actions

Table 4 - Clearing effects of link related functions

Target object	FC link action affecting target object						
	Target Power Cycle	Reset LIP(y,x) ²	LOGO ⁵ , PLOGI	PRLI ⁴ , PRLO ⁵	TPRLO ³	ABTS (Exchange)	ABTS (Sequence)
PLOGI parameters							
For all logged-in initiator ports	Y	Y	N	N	N	N	N
Only for initiator port associated with the action	-	-	Y	N	N	N	N
Open FCP Exchanges terminated							
For all initiator ports	Y	Y	N	N	Y	N	N
Only for initiator port associated with the action	-	-	Y	Y	-	N	N
Only for FCP Exchange associated with ABTS	-	-	-	-	-	Y	-
FCP Sequence associated with ABTS terminated	-	-	-	-	-	-	Y
Login BB_Credit_CNT							
For all Logged-In L_Ports	Y	Y	-	N	N	N	N
For transmitting L_Port only	-	-	Y				
Hard Address Acquisition Attempted	Y ¹	Y ¹	N	N	N	N	N
PRLI parameters cleared ⁶							
For all logged-in initiator ports	Y	Y	N	N	Y	N	N
Only for N_Port or L_Port associated with the action	-	-	Y	Y	-	N	N
CRN (Command Reference Number) (set to one)							
For all initiator ports	Y	Y	N	N	Y	N	N
Only for initiator port associated with the action	-	-	Y	Y	-	N	N

NOTES:

- 1 If the NL_Port has an AL_PA different than its hard address and the NL_Port experiences a power cycle or recognizes LIP (AL_PD,AL_PS), the NL_Port shall relinquish its current AL_PA and attempt to acquire its hard address.
- 2 This is also known as LIP (AL_PD,AL_PS). If the destination recognizes a selective hard reset LIP where the AL_PD matches the AL_PA of the receiving NL_Port, the receiving NL_Port shall perform the behaviour described in this column.
- 3 For TPRLO (Third Party Process Logout), actions listed shall be performed when the GLOBAL bit is set to one. If the GLOBAL bit is set to zero, then the actions listed under PRLI/PRLO shall be performed for the designated initiator. See [FC-LS-FCFS](#).
- 4 The Target shall clear the object only if ESTABLISH IMAGE PAIR is set to one and if the referenced image pair is FCP type. See 6.2.
- 5 LOGO and PRLO may be either implicit or explicit. Implicit LOGO and PRLO are specified in [FC-LS FCFS-2](#).
- 6 A target port should send PRLO to all logged-in initiator ports that are logged-out as a result of processing TPRLO with the global bit set to one. The PRLO(s) may be sent before or after sending the LS_ACC for the TPRLO.