

# memorandum



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To  
INCITS T10 Committee

From  
Michael Banther, HP

Subject  
FCP-3 Clarification to TPRLO

Date  
07 November, 2004

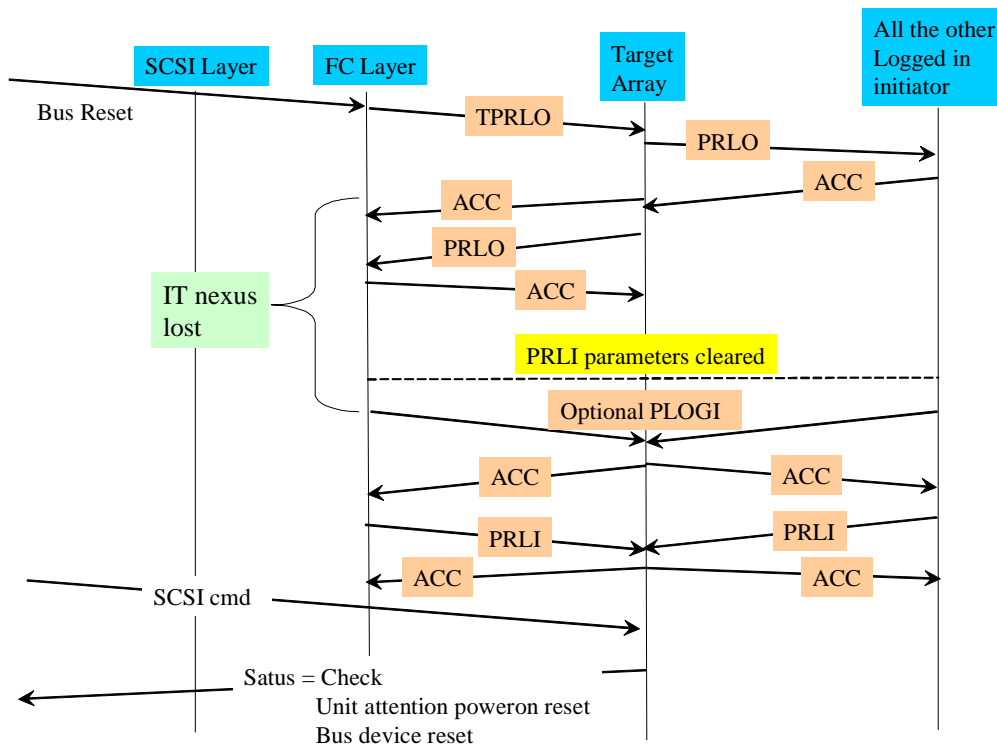
## Revision History

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) <sup>2</sup>	LOGO <sup>5</sup> , PLOGI	PRLI <sup>4</sup> , PRLO <sup>5</sup>	TPRLO <sup>3</sup>	ABTS (Exchange)	ABTS (Sequence)
PLOGI parameters For all logged-in initiator ports Only for initiator port associated with the action	Y -	Y -	N Y	N N	N N	N N	N N
Open FCP Exchanges terminated For all initiator ports Only for initiator port associated with the action Only for FCP Exchange associated with ABTS	Y - -	Y - -	N Y -	N Y -	Y - -	N N Y	N N -
FCP Sequence associated with ABTS terminated	-	-	-	-	-	-	Y
Login BB_Credit_CNT For all Logged-In L_Ports For transmitting L_Port only	Y -	Y -	- Y	N	N	N	N
Hard Address Acquisition Attempted	Y <sup>1</sup>	Y <sup>1</sup>	N	N	N	N	N
PRLI parameters cleared <sup>6</sup> For all logged-in initiator ports Only for N_Port or L_Port associated with the action	Y -	Y -	N Y	N Y	Y -	N N	N N
CRN (Command Reference Number) (set to one) For all initiator ports Only for initiator port associated with the action	Y -	Y -	N Y	N Y	Y -	N N	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-FC-FS](#).
- 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 FC-FS-2](#).
- 6 A target may send PRLO to any logged-in initiator port after receiving and/or after accepting TPRLO that causes process logout of that initiator port.