ONFI Technical Errata

Errata ID	**009**
Affected Spec Ver.	**ONFI 2.0 and ONFI 2.1**
Corrected Spec Ver.	

Submission info

Name	Company	Date
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If a Read Status or Read Status Enhanced command is received in the middle of data transfer to the host for a Read or Read Parameter Page operation, the behavioral flow incorrectly re-starts the data transfer from the beginning. This erratum continues the data transfer from the point where the status command was received.

Description of the specification technical flaw

Update section 7.2.2 as shown, including the new state L_Idle_RdPp_Cont:

L_Idle_RdPp	The LUN performs the following actions: 1. LUN reads parameter page data into the page register. 2. lunReturnState set to ~~L_Idle_RdPp~~ L_Idle_RdPp_Cont.		
	1. Parameter page data transferred to page register	→	L_Idle_RdPp_End
	2. Target requests status or status command received	→	L_Status_Execute

L_Idle_RdPp_Cont			
	1. Parameter page data transferred to page register	→	L_Idle_RdPp_End
	2. Target requests status or status command received	→	L_Status_Execute

Update section 7.2.7 as shown, including the new state L_RD_ArrayRead_Cont:

L_RD_ArrayRead	The LUN performs the following actions: 1. lunStatus[6:5] is cleared to 00b. 2. lunStatus[6] value is indicated to the target. 3. lunLastConfirm set to last command cycle (30h or 35h). 4. Read the requested page from the array. If concurrent interleaved operation, read all pages requested from the array. 5. lunReturnState set to ~~L_RD_ArrayRead~~ L_RD_ArrayRead_Cont.		
	1. Read of requested page(s) complete	→	L_RD_Complete
	2. Target requests status or status command received	→	L_Status_Execute

L_RD_ArrayRead_Cont			
	1. Read of requested page(s) complete	→	L_RD_Complete
	2. Target requests status or status command received	→	L_Status_Execute

Update section 7.1.6 as shown, including the new state T_RPP_ReadParams_Cont:

T_RPP_ReadParams	The target performs the following actions: 1. Request LUN tLunSelected clear SR[6] to zero. 2. R/B# is cleared to zero. 3. Request LUN tLunSelected make parameter page data available in page register. 4. tReturnState set to ~~T_RPP_ReadParams~~ T_RPP_ReadParams_Cont.

1. Read of page complete	→	T_RPP_Complete
2. Command cycle 70h (Read Status) received	→	T_RS_Execute
3. Read request received and tbStatusOut set to TRUE	→	T_Idle_Rd_Status

T_RPP_ReadParams_Cont	

1. Read of page complete	→	T_RPP_Complete
2. Command cycle 70h (Read Status) received	→	T_RS_Execute
3. Read request received and tbStatusOut set to TRUE	→	T_Idle_Rd_Status

Disposition log

5/26/2009	Erratum captured.
7/21/2009	Erratum ratified.

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