ONFI Technical Errata

Errata ID	**006**
Affected Spec Ver.	**ONFI 2.1**
Corrected Spec Ver.	

Submission info

Name	Company	Date
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Description of the specification technical flaw (add space as needed)

Byte 112 in the parameter page expresses the required bits of ECC correction. However, this value is based on an ECC codeword size of 512 bytes. If the device requires a different ECC codeword size (for example, 1KB), then this value is invalid and the extended parameter page needs to be read by the host to retrieve the ECC codeword size and number of bits of correction required.

Description of the correction

Update section 5.6.1.26 as shown:

5.6.1.26 Byte 112: Number of bits ECC correctability

This field indicates the number of bits that the host should be able to correct per 512 bytes of data. With this specified amount of error correction by the host, the target shall achieve the block endurance specified in the parameter page. When the specified amount of error correction is applied by the host and the block endurance is followed, then the maximum number of bad blocks shall not be exceeded by the device. All used bytes in the page shall be protected by ECC including the spare bytes if the minimum ECC requirement has a value greater than zero.

If the recommended ECC codeword size is not 512 bytes, then this field shall be set to FFh. The host should then read the Extended ECC Information that is part of the extended parameter page to retrieve the ECC requirements for this device.

When this value is cleared to zero, the target shall return valid data.

Disposition log

4/15/2009	Erratum captured.
6/17/2009	Erratum ratified.

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