



Technical Advisory – TA-341203-001

Some Vital Product Data (VPD) page information is incorrect on Intel® Optane™ SSD DC P4800X/P4801X devices

August 27, 2019

Description

Intel has received customer reports that some Intel® Optane™ SSD DC P4800X/P4801X devices display incorrect Vital Product Data (VPD) page information.

Table 1: Affected Intel Products

Product Code	Intel® Optane™ SSD
SSDPE21K100GA01	P4801X100G
SSDPE21K100GA10	P4801X100G
SSDPEL1K100GA01	P4801X100G
SSDPEL1K200GA01	P4801X200G
SSDPEL1K375GA01	P4801X375G
SSDPED1K375GA10	P4800X375G
SSDPED1K375GA01	P4800X375G
SSDPE21K375GA10	P4800X375G
SSDPE21K375GA01	P4800X375G
SSDPE21K750GA10	P4800X750G
SSDPE21K750GA01	P4800X750G
SSDPED1K750GA10	P4800X750G
SSDPED1K750GA01	P4800X750G
SSDPED1K015TA10	P4800X1.5T
SSDPED1K015TA01	P4800X1.5T
SSDPE21K015TA10	P4800X1.5T
SSDPE21K015TA01	P4800X1.5T



Problem Statement

Intel customers have reported that some fields within the VPD information page are incorrect in the Intel® Optane™ SSD DC P4800X and P4801X:

1. Some 1.5TB capacity P4800X in the U.2 form factor incorrectly display as Add-in Card (AIC) form factor. This is due to Intel factory incorrectly programming the VPD field "Management Endpoint Form Factor" as 11h, instead of 17h.
2. Customers retrieve incorrect field replaceable unit (FRU) information from the VPD table's "Record Length" field; Intel factory incorrectly programmed 0x40, instead of 0x3B.

Root Cause

1. Intel factory used incorrect VPD table for 1.5TB Intel® Optane™ SSD DC P4800X in the U.2 form factor.
2. Our NVMe Management Interface 1.0 spec implementation does not entirely comply with the IPMI 2.0 Platform Management FRU Information Storage specification.

Intel Recommendations

1. Be aware that FRU information accessed via BMC—using Out of Band (OOB) solution, or any other in-band solution—will contain incorrect data in the "Form Factor" field of 1.5TB U.2 P4800X devices with a date code of Oct 2017 or newer.
2. Notify customers that VPD "Record Length" "0x40" is incorrect, it should be "0x3B".
3. These behaviors will be corrected in factory builds based on Intel's next maintenance FW, which is estimated to be released December 2019.

Please contact your Intel Sales Representative if you require more specific information about this issue.

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