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NVM Express™ Technical Errata

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Corrected Spec Ver.	NVM Express Management Interface 1.1b+

Errata Author(s)

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Errata Overview

- Clarified reporting of the Optionally Supported Command List when unique command sets are supported on different ports.

Revision History

Revision Date	Author	Change Description
2021-02-26	Myron Loewen	<ul style="list-style-type: none">Initial draft to fix Optionally Supported Command List
2021-03-01	Myron Loewen	<ul style="list-style-type: none">Added fix for MTU in 3.2.1Incorporated workgroup feedback on wording
2021-03-08	Myron Loewen	<ul style="list-style-type: none">Incorporated editorial workgroup feedback on wording
2021-03-09	N/A	<ul style="list-style-type: none">Integrated into the NVMe-MI Specification, Revision 1.1
2021-04-12	Mike Allison	<ul style="list-style-type: none">Accepted all changes, removed all comments, and converted all references/cross-references to text.

Incompatible Changes

- None

Description for Changes Document

Feature Enhancements:

- Optionally Supported Command List Enhancement in section 5.7:
 - Clarified reporting of the Optionally Supported Command List when unique command sets are supported on different ports.
- References:
 - Section 5.7

Markup Conventions:

Black:	Unchanged (however, hot links are removed)
Red Strikethrough:	Deleted
Blue:	New
Blue Highlighted:	TBD values, anchors, and links to be inserted in new text.
<Green Bracketed>:	Notes to editor

Description of Specification Changes

Modify section 3.2.1 as follows:

3.2.1 MCTP Packet

In the MCTP Base Specification, the smallest unit of data transfer is the MCTP packet. One or more packets are combined to create an MCTP message. In this specification, the MCTP messages are referred to as NVMe-MI Messages (refer to section 1.8.21). Refer to section 3.2.1.1 for details on how MCTP packets are assembled into NVMe-MI Messages. An MCTP Ppacket Payload always contains at least 1 byte of payload but the total length shall never not exceed the negotiated MCTP Transmission Unit Size. The format of an MCTP Ppacket Payload is shown in Figure 20.

Modify section 5.7 as follows:

5.7 Read NVMe-MI Data Structure

The Read NVMe-MI Data Structure command requests data that describes information about the NVM Subsystem, the Management Endpoint, or the NVMe Controllers.

The command uses NVMe Management Dword 0. The format of NVMe Management Dword 0 is shown in Figure 88. NVMe Management Dword 1 is reserved. There is no Request Data included in a Read NVMe-MI Data Structure command.

Some port-specific Data Structure Types are accessible from any Responder. Other port-specific Data Structure Types (e.g., Optionally Supported Command List) are only accessible from the Responder that received the Command Message.

Figure 88: Read NVMe-MI Data Structure – NVMe Management Dword 0

Bits	Description																
31:24	Data Structure Type (DTYP): This field specifies the data structure to return.																
	<table><tr><th>Value</th><th>Definition</th></tr><tr><td>00h</td><td>NVM Subsystem Information</td></tr><tr><td>01h</td><td>Port Information</td></tr><tr><td>02h</td><td>Controller List</td></tr><tr><td>03h</td><td>Controller Information</td></tr><tr><td>04h</td><td>Optionally Supported Command List</td></tr><tr><td>05h</td><td>Management Endpoint Buffer Command Support List</td></tr><tr><td>06h to FFh</td><td>Reserved</td></tr></table>	Value	Definition	00h	NVM Subsystem Information	01h	Port Information	02h	Controller List	03h	Controller Information	04h	Optionally Supported Command List	05h	Management Endpoint Buffer Command Support List	06h to FFh	Reserved
	Value	Definition															
	00h	NVM Subsystem Information															
	01h	Port Information															
	02h	Controller List															
	03h	Controller Information															
	04h	Optionally Supported Command List															
05h	Management Endpoint Buffer Command Support List																
06h to FFh	Reserved																
23:16	Port Identifier (PORTID): This field contains the identifier of the port whose data structure is returned.																
	If the DTYP field value is 01h (Port Information) or 05h (Management Endpoint Buffer Command Support List), then this field contains the Port Identifier whose information is requested.																
	If the DTYP field value corresponds to Port Information, then this field contains the Port Identifier whose information is requested.																
	If the DTYP field value corresponds to Management Endpoint Buffer Command Support List, then this field contains the Port Identifier whose information is requested.																
	For all other values of the DTYP field, this field is reserved.																