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Platform Level Data Model (PLDM) over MCTP Binding Specification

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Foreword

59 The *Platform Level Data Model (PLDM) over MCTP Binding Specification* (DSP0241) was prepared by
60 the Platform Management Components Intercommunications (PMCI) Working Group.

61 DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems
62 management and interoperability.

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Introduction

64 PLDM is designed to be an interface and data model that provides efficient access to low-level platform
65 inventory, monitoring, control, event, and data/parameters transfer functions. For example, temperature,
66 voltage, or fan sensors can have a PLDM representation that can be used to monitor or control the
67 platform using a set of PLDM messages. PLDM over MCTP binding defines the format of PLDM over
68 MCTP messages.

69 Platform Level Data Model (PLDM) over MCTP Binding 70 Specification

71 1 Scope

72 This document defines the format of Platform Level Data Model (PLDM) over MCTP messages.

73 This document specifies the following information:

- 74 • PLDM over MCTP binding
- 75 • common format for PLDM over MCTP messages

76 2 Normative References

77 The following referenced documents are indispensable for the application of this document. For dated
78 references, only the edition cited applies. For undated references, the latest edition of the referenced
79 document (including any amendments) applies.

80 2.1 Approved References

81 DMTF DSP0240, *Platform Level Data Model (PLDM) Base Specification*,
82 http://www.dmtf.org/standards/published_documents/DSP0240_1.0.0.pdf

83 DMTF DSP0245, *Platform Level Data Model (PLDM) IDs and Codes*,
84 http://www.dmtf.org/standards/published_documents/DSP0245_1.0.0.pdf

85 2.2 References under Development

86 DMTF DSP0248, *Platform Level Data Model (PLDM) for Platform Monitoring and Control*

87 2.3 Other References

88 ISO/IEC Directives, Part 2, *Rules for the structure and drafting of International Standards*,
89 <http://isotc.iso.org/livelink/livelink.exe?func=ll&objId=4230456&objAction=browse&sort=subtype>

90 OMG, *Unified Modeling Language (UML) from the Open Management Group (OMG)*, <http://www.uml.org/>

91 3 Terms and Definitions

92 Refer to [DSP0240](#) for terms and definitions that are used across the PLDM specifications.

93 4 Symbols and Abbreviated Terms

94 Refer to [DSP0240](#) for symbols and abbreviated terms that are used across the PLDM specifications.

95 **5 Conventions**

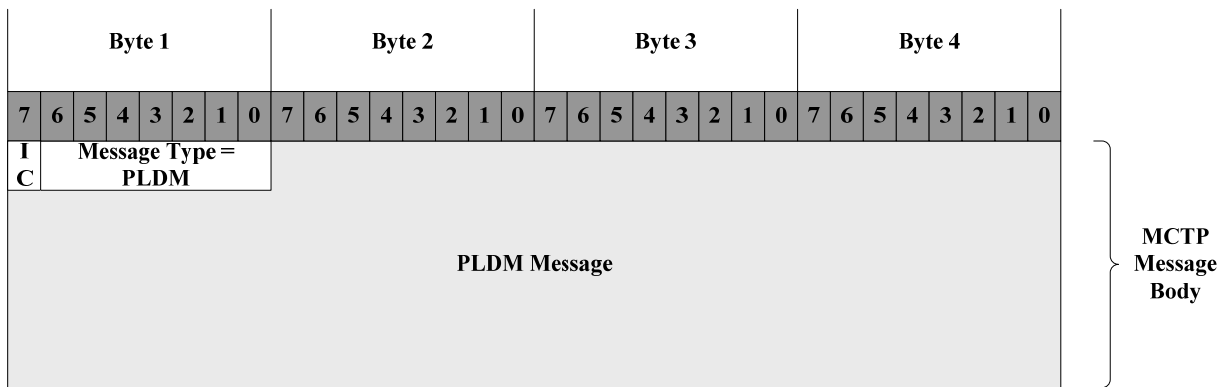
96 Refer to [DSP0240](#) for conventions, notations, and data types that are used across the PLDM
 97 specifications.

98 **6 PLDM over MCTP Binding**

99 This specification defines how the platform-level data models and platform functions are implemented
 100 using MCTP communications. PLDM is supported as a message type over MCTP. PLDM over MCTP
 101 binding defines the format of PLDM over MCTP messages. ([DSP0240](#) defines the common fields for
 102 PLDM messages and their usage.)

103 **6.1 PLDM over MCTP Message Fields**

104 Figure 1 shows the fields of an MCTP message body carrying a PLDM message.



105

106 **Figure 1 – PLDM over MCTP Message Fields**

107 Table 1 defines the fields for the PLDM over MCTP message.

108 **Table 1 – PLDM over MCTP Message Field Descriptions**

Field Name	Field Size	Description
IC	1 bit	Message Integrity Check bit = 0b PLDM over MCTP messages do not include an overall Message Integrity check field.
Message Type	7 bits	PLDM = 0x01 (000_0001b) This field identifies the MCTP message as carrying a PLDM message.
PLDM Message	Variable	The base PLDM message fields are defined in DSP0240 .

109 **7 Event Receiver Address Format for PLDM over MCTP Binding**

110 The destination for Event Messages within PLDM is called the Event Receiver, as described in [DSP0248](#).
 111 The Event Receiver function is implemented by a PLDM Terminus within the platform management
 112 subsystem. For PLDM over MCTP binding, the Event Receiver Address (eventReceiverAddress) format
 113 described in Table 2 shall be used.

114

115 **Table 2 – Event Receiver Address Format for PLDM over MCTP Binding**

transportProtocolType	eventReceiverAddress
MCTP (see DSP0245 for transport protocol types)	Endpoint ID (EID) of Event Receiver

116 The MCTP transport layer may have to resolve the EID into a physical address in order to be able to send
 117 messages to the Event Receiver.

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119
120**ANNEX A (informative)****Change Log**

Version	Date	Author	Description
1.0.0a	9/17/2008	Hemal Shah	1.0.0 Preliminary release
1.0.0	4/23/2009		DMTF Standard Release

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