Platform Level Data Model (PLDM) IDs and Codes Specification

35 CONTENTS

47 **Tables**

51   Foreword

52   The *Platform Level Data Model (PLDM) IDs and Codes Specification* (DSP0245) was prepared by the
53   <DMTF Editing Body>.

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

56   DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems
57   management and interoperability. For information about the DMTF, see http://www.dmtf.org.

58   Introduction

59   This document describes a collection of IDs and codes that are used across Platform Level Data Model
60   (PLDM) specifications. PLDM is designed to be an effective interface and data model that provides
61   efficient access to low-level platform inventory, monitoring, control, event, and data/parameters transfer
62   functions. For example, temperature, voltage, or fan sensors can have a PLDM representation that can
63   be used to monitor/control the platform using a set of PLDM messages. PLDM defines data
64   representations and commands that abstract the platform management hardware.

65 # Platform Level Data Model (PLDM) IDs and Codes
66 # Specification

67 ## 1 Scope

68 The *Platform Level Data Model (PLDM) IDs and Codes Specification* describes IDs and codes that are
69 used across Platform Level Data Model (PLDM) specifications. Only IDs and codes that are required by a
70 particular PLDM type-specific specification should be included in that specification. ID and code
71 definitions that are provided in this specification should not be duplicated in other specifications.

72 The sets of codes and identifiers (enumeration values) that are specified in this document are as follows:

73 - **PLDM Type codes**

74 Collection of the PLDM Type codes used for PLDM messages

75 - **Transport Protocol Type codes**

76 Collection of the Transport Protocol Type codes used for PLDM messages

77 ## 2 Normative references

78 The following referenced documents are indispensable for the application of this document. For dated or
79 versioned references, only the edition cited (including any corrigenda or DMTF update versions) applies.
80 For references without a date or version, the latest published edition of the referenced document
81 (including any corrigenda or DMTF update versions) applies.

82 DMTF DSP0218, PLDM for Redfish Device Enablement Specification,
83 http://www.dmtf.org/sites/default/files/standards/documents/DSP0218_1.0.pdf

84 DMTF DSP0222, Network Controller Sideband Interface (NC-SI) Specification
85 https://www.dmtf.org/sites/default/files/standards/documents/DSP0222_1.1.pdf

86 DMTF DSP0240, *Platform Level Data Model (PLDM) Base Specification,*
87 https://www.dmtf.org/sites/default/files/standards/documents/DSP0240_1.0.pdf

88 DMTF DSP0241, *Platform Level Data Model (PLDM) over MCTP Binding Specification,*
89 https://www.dmtf.org/sites/default/files/standards/documents/DSP0241_1.0.pdf

90 DMTF DSP0246, *Platform Level Data Model (PLDM) for SMBIOS Data Transfer Specification,*
91 https://www.dmtf.org/sites/default/files/standards/documents/DSP0246_1.0.pdf

92 DMTF DSP0247, *Platform Level Data Model (PLDM) for BIOS Control and Configuration Specification,*
93 https://www.dmtf.org/sites/default/files/standards/documents/DSP0247_1.0.pdf

94 DMTF DSP0248, *Platform Level Data Model (PLDM) for Platform Monitoring and Control Specification,*
95 https://www.dmtf.org/sites/default/files/standards/documents/DSP0248_1.1.pdf

96 DMTF DSP0257, *Platform Level Data Model (PLDM) for FRU Data Specification*
97 https://www.dmtf.org/sites/default/files/standards/documents/DSP0257_1.0.pdf

98 DMTF DSP0267, *Platform Level Data Model (PLDM) for Firmware Update Specification*
99 https://www.dmtf.org/sites/default/files/standards/documents/DSP0267_1.0.pdf

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

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

3   Terms and definitions

104 In this document, some terms have a specific meaning beyond the normal English meaning. Those terms
105 are defined in this clause.

106 The terms "shall" ("required"), "shall not", "should" ("recommended"), "should not" ("not recommended"),
107 "may", "need not" ("not required"), "can" and "cannot" in this document are to be interpreted as described
108 in ISO/IEC Directives, Part 2, Annex H. The terms in parentheses are alternatives for the preceding term,
109 for use in exceptional cases when the preceding term cannot be used for linguistic reasons. Note that
110 ISO/IEC Directives, Part 2, Annex H specifies additional alternatives. Occurrences of such additional
111 alternatives shall be interpreted in their normal English meaning.

112 The terms "clause", "subclause", "paragraph", and "annex" in this document are to be interpreted as
113 described in ISO/IEC Directives, Part 2, Clause 5.

114 The terms "normative" and "informative" in this document are to be interpreted as described in ISO/IEC
115 Directives, Part 2, Clause 3. In this document, clauses, subclauses, or annexes labeled "(informative)" do
116 not contain normative content. Notes and examples are always informative elements.

117 The terms defined in DSP0004, DSP0223, and DSP1001 apply to this document.

118 Refer to DSP0240 for terms and definitions that are used across the PLDM specifications.

4   Symbols and abbreviated terms

120 The abbreviations defined in DSP0004, DSP0223, and DSP1001 apply to this document.

121 Refer to DSP0240 for symbols and abbreviated terms that are used across the PLDM specifications.

5   Conventions

123 Refer to DSP0240 for conventions and data types that are used across the PLDM specifications.

124 # 6   PLDM type codes

125   Table 1 defines the values of the PLDM Type field for different PLDM types.

126   **Table 1 – PLDM types**

PLDM Type	PLDM Type Code	Description
PLDM Messaging Control and Discovery	000000b	PLDM Messages used to support communication control and discovery operations for PLDM NOTE: PLDM Messaging Control and Discovery is defined in DSP0240.
PLDM for SMBIOS	000001b	PLDM Messages used to support SMBIOS data transfer NOTE: PLDM for SMBIOS Data Transfer is defined in DSP0246.
PLDM for Platform Monitoring and Control	000010b	PLDM Messages used to support platform monitoring and control NOTE: PLDM for Platform Monitoring and Control is defined in DSP0248.
PLDM for BIOS Control and Configuration	000011b	PLDM Messages used to support BIOS control and configuration data transfer between the BIOS and the MC NOTE: PLDM for BIOS Control and Configuration is defined in DSP0247.
PLDM for FRU Data	000100b	PLDM Messages used to support FRU data transfer NOTE: PLDM for FRU Data is defined in DSP0257.
PLDM for Firmware Update	000101b	PLDM Messages used to support Firmware Update NOTE: PLDM for Firmware Update is defined in DSP0267.
PLDM for Redfish Device Enablement	000110b	PLDM Messages used to support Redfish Device Enablement NOTE: PLDM for Redfish Device Enablement is defined in DSP0218
Reserved	000111b-111110b	
OEM Specific	111111b	Reserved for OEM-specific PLDM commands

127 ## 7   Transport protocol type codes

128 [DSP0248](#) uses a transport protocol type (the transportProtocolType field) in the commands for setting
129 and getting the event receiver information. Table 2 defines the values of the transport protocol type for
130 different transport bindings.

131   **Table 2 – Transport protocol type values**

Transport Protocol Type (transportProtocolType)	Value	Description
MCTP	0x00	See DSP0241 for information about PLDM over MCTP binding.
NC-SI/RBT	0x01	See DSP0222 for information about PLDM over NC-SI/RBT binding
Vendor Specific	0xFF	Vendor-specific transport protocol binding

132

133

134   # ANNEX A
135   (**informative**)

136

137

138   # Change log

Version	Date	Description
1.0.0	2009-04-23	
1.1.0	2011-01-26	Added PLDM Type Code for PLDM for FRU data
1.1.1	2016-07-13	Changed specification reference in clause 7 to DSP0248
1.2.0	2016-07-13	Added PLDM Type Code for PLDM for Firmware Update Added Transport Protocol Type Code for NC-SI/RBT
1.3.0	2018-11-28	Added PLDM Type Code for PLDM for Redfish Device Enablement

139

140