



Document Identifier: DSP0245

Date: 2016-11-24

Version: 1.2.0

1
2
3
4

5 Platform Level Data Model (PLDM) IDs and 6 Codes Specification

7 **Supersedes: 1.1.1**
8 **Document Class: Normative**
9 **Document Status: Published**
10 **Document Language: en-US**

11

12 Copyright notice

13 Copyright © 2009, 2011, 2016 Distributed Management Task Force, Inc. (DMTF). All rights reserved.

14 DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems
15 management and interoperability. Members and non-members may reproduce DMTF specifications and
16 documents, provided that correct attribution is given. As DMTF specifications may be revised from time to
17 time, the particular version and release date should always be noted.

18 Implementation of certain elements of this standard or proposed standard may be subject to third party
19 patent rights, including provisional patent rights (herein "patent rights"). DMTF makes no representations
20 to users of the standard as to the existence of such rights, and is not responsible to recognize, disclose,
21 or identify any or all such third party patent right, owners or claimants, nor for any incomplete or
22 inaccurate identification or disclosure of such rights, owners or claimants. DMTF shall have no liability to
23 any party, in any manner or circumstance, under any legal theory whatsoever, for failure to recognize,
24 disclose, or identify any such third party patent rights, or for such party's reliance on the standard or
25 incorporation thereof in its product, protocols or testing procedures. DMTF shall have no liability to any
26 party implementing such standard, whether such implementation is foreseeable or not, nor to any patent
27 owner or claimant, and shall have no liability or responsibility for costs or losses incurred if a standard is
28 withdrawn or modified after publication, and shall be indemnified and held harmless by any party
29 implementing the standard from any and all claims of infringement by a patent owner for such
30 implementations.

31 For information about patents held by third-parties which have notified the DMTF that, in their opinion,
32 such patent may relate to or impact implementations of DMTF standards, visit
33 <http://www.dmtf.org/about/policies/disclosures.php>.

34 This document's normative language is English. Translation into other languages is permitted.

35

CONTENTS

36	Foreword	4
37	Introduction.....	5
38	1 Scope	7
39	2 Normative references	7
40	3 Terms and definitions	8
41	4 Symbols and abbreviated terms.....	8
42	5 Conventions	8
43	6 PLDM Type codes.....	8
44	7 Transport Protocol Type codes	9
45	ANNEX A (informative) Change log.....	10
46		

47 Tables

48	Table 1 – PLDM Types	8
49	Table 2 – Transport Protocol Type values	9
50		

51

Foreword

52 The *Platform Level Data Model (PLDM) IDs and Codes Specification* (DSP0245) was prepared by the
53 Platform Management Components Intercommunications (PMCI) Working Group.

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

56

Introduction

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

63

64

66
67

Platform Level Data Model (PLDM) IDs and Codes Specification

1 Scope

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

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

- **PLDM Type codes**
Collection of the PLDM Type codes used for PLDM messages
- **Transport Protocol Type codes**
Collection of the Transport Protocol Type codes used for PLDM messages

2 Normative references

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

DMTF DSP0222, Network Controller Sideband Interface (NC-SI) Specification
http://www.dmtf.org/standards/published_documents/DSP0222_1.1.x.pdf

DMTF DSP0240, *Platform Level Data Model (PLDM) Base Specification*,
http://www.dmtf.org/standards/published_documents/DSP0240_1.0.x.pdf

DMTF DSP0241, *Platform Level Data Model (PLDM) over MCTP Binding Specification*,
http://www.dmtf.org/standards/published_documents/DSP0241_1.0.x.pdf

DMTF DSP0246, *Platform Level Data Model (PLDM) for SMBIOS Data Transfer Specification*,
http://www.dmtf.org/standards/published_documents/DSP0246_1.0.x.pdf

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

DMTF DSP0248, *Platform Level Data Model (PLDM) for Platform Monitoring and Control Specification*,
http://www.dmtf.org/standards/published_documents/DSP0248_1.1.x.pdf

DMTF DSP0257, *Platform Level Data Model (PLDM) for FRU Data Specification*
http://www.dmtf.org/standards/published_documents/DSP0257_1.0.x.pdf

DMTF DSP0267, *Platform Level Data Model (PLDM) for Firmware Update Specification*
http://www.dmtf.org/standards/published_documents/DSP0267_1.0.x.pdf

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

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

102 **3 Terms and definitions**

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

104 **4 Symbols and abbreviated terms**

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

106 **5 Conventions**

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

108 **6 PLDM Type codes**

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

110

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 .
Reserved	000110b-111110b	
OEM Specific	111111b	Reserved for OEM-specific PLDM commands

111 **7 Transport Protocol Type codes**

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

115 **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

116

117
118
119
120
121

ANNEX A (informative)

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 Clause7 to DSP0248
1.2.0	2016-11-24	Added PLDM Type Code for PLDM for Firmware Update Added Transport Protocol Type Code for NC-SI/RBT

122