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IPMI PET to Platform Message Registry Mapping

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Tables

Foreword

The *IPMI PET to Platform Message Registry Mapping* (DSP0244) was prepared by the Physical Platform Profiles Working Group and the Server Management Working Group of the DMTF.

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Introduction

The information in this specification should be sufficient for a provider or consumer of this data to unambiguously identify the mapping from IPMI PET to Platform Message Registry.

The target audience for this specification is implementers who are writing CIM-based providers or consumers of management interfaces that represent the components described in this document.

IPMI PET to Platform Message Registry Mapping

1 Scope

The *IPMI PET to Platform Message Registry Mapping* defines the mapping from IPMI PET to Platform Message Registry.

2 Normative References

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

DMTF DSP0136, *Alert Standard Format Specification 2.0*,
http://www.dmtf.org/standards/documents/ASF/DSP0136.pdf

DMTF DSP1040, *Platform Watchdog Profile 1.0*,
http://dmtf.org/sites/default/files/standards/documents/DSP1040_1.0.pdf

DMTF DSP8007*, Platform Message Registry 1.1,*
http://schemas.dmtf.org/wbem/messageregistry/1/dsp8007_1.1.xml

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

IPMI – *Intelligent Platform Management Interface Specification Second Generation 2.0*; Document Revision 1.0 February 12, 2004 February 15, 2006 Markup

3 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

3.1
can
used for statements of possibility and capability, whether material, physical, or causal

3.2
cannot
used for statements of possibility and capability, whether material, physical, or causal

3.3
conditional
indicates requirements to be followed strictly to conform to the document when the specified conditions are met

3.4
mandatory
indicates requirements to be followed strictly to conform to the document and from which no deviation is permitted

3.5
may
indicates a course of action permissible within the limits of the document

3.6
need not
indicates a course of action permissible within the limits of the document

3.7
optional
indicates a course of action permissible within the limits of the document

3.8
shall
indicates requirements to be followed strictly to conform to the document and from which no deviation is permitted

3.9
shall not
indicates requirements to be followed strictly to conform to the document and from which no deviation is permitted

3.10
should
indicates that among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others, or that a certain course of action is preferred but not necessarily required

3.11
should not
indicates that a certain possibility or course of action is deprecated but not prohibited

4 Symbols and Abbreviated Terms

4.1
ASF
Alert Standard Format

4.2
CIM
Common Information Model

4.3
DASH
Desktop and Mobile Architecture for System Hardware

4.4
IPMI
Intelligent Platform Management Interface

4.5
PET
Platform Event Trap

4.6
SMASH
System Management Architecture for Server Hardware

5 IPMI PET to Platform Message Registry Mapping

This purpose of this document is to capture the mapping from IPMI and ASF PETs to CIM standard messages for eventing. It is desirable to simplify migration from the existing ASF and IPMI standards prevalent in the industry to the emerging SMASH and DASH initiatives of the DMTF. Defining a normative mapping from these event contents in these existing standards to SMASH and DASH will guide implementers as they transition their products.

If an IPMI or ASF PET can be mapped to a CIM standard message in the Platform Message Registry, there shall be an entry in column “Platform Message Registry MessageID” in the table specifying the MessageID of the message.

Note: N/A means a Platform Message Registry MessageID is not defined in the referenced version of DSP8007.

5.1 Intrusion Sensor

Sensor Type: Intrusion Sensor

Sensor Type Code: 05h

Reading Type: 6Fh

Table 1 – Intrusion Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Chassis Intrusion	Chassis Open	PLAT0004
00h	Deassert	Chassis Intrusion	Chassis Closed	PLAT0005
01h	Assert	Drive Bay Intrusion	Drive Bay Open	PLAT0006
01h	Deassert	Drive Bay Intrusion	Drive Bay Closed	PLAT0007
02h	Assert	I/O Card Area Intrusion	I/O Card Area Open	PLAT0008
02h	Deassert	I/O Card Area Intrusion	I/O Card Area Closed	PLAT0009
03h	Assert	Processor Area Intrusion	Processor Area Open	PLAT0010
03h	Deassert	Processor Area Intrusion	Processor Area Closed	PLAT0011
04h	Assert	LAN Disconnect	LAN Disconnected	PLAT0012
04h	Deassert	LAN Disconnect	LAN Connected	PLAT0013
05h	Assert	Unauthorized Dock	Docking Permission Deasserted	PLAT0017
05h	Deassert	Unauthorized Dock	Docking Permission Asserted	PLAT0016
06h	Assert	FAN Area	Fan Area	PLAT0018

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
		Intrusion	Open	
06h	Deassert	FAN Area Intrusion	Fan Area Closed.	PLAT0019

5.2 Security Violation Sensor

Sensor Type: Security Violation Sensor

Sensor Type Code: 06h

Reading Type: 6Fh

Table 2 – Security Violation Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Secure Mode Violation	Secure Mode Violation	PLAT0022
00h	Deassert	Secure Mode Violation		N/A
01h	Assert	Pre-boot User Password Violation	Pre-boot User password violation	PLAT0024
01h	Deassert	Pre-boot User Password Violation		N/A
02h	Assert	Pre-boot Setup Password Violation	Pre-boot Setup password violation	PLAT0026
02h	Deassert	Pre-boot Setup Password Violation		N/A
03h	Assert	Network Boot Password Violation	Network Boot Password Violation	PLAT0028
03h	Deassert	Network Boot Password Violation		N/A
04h	Assert	Password Violation	Password Violation	PLAT0030
04h	Deassert	Password Violation		N/A
05h	Assert	Out-of-band Password Violation	Out-of-band Password Violation	PLAT0032
05h	Deassert	Out-of-band Password Violation		N/A

100 ## 5.3 Processor Sensor

101 Sensor Type: Processor Sensor

102 Sensor Type Code: 07h

103 Reading Type: 6Fh

104 **Table 3 – Processor Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	IERR	Processor Failed – IERR	PLAT0042
00h	Deassert	IERR	Processor Recovered From IERR	PLAT0043
01h	Assert	Thermal Tripped	Over Temperature Condition Detected for Processor	PLAT0036
01h	Deassert	Thermal Tripped	Over Temperature Condition Removed for Processor	PLAT0037
02h	Assert	FRB1/BIST Failure	Processor Failed – FRB1/BIST	PLAT0044
02h	Deassert	FRB1/BIST Failure	Processor Recovered from FRB1/BIST	PLAT0045
03h	Assert	FRB2/Hang in POST Failure	Processor Failed – FRB2/POST	PLAT0046
03h	Deassert	FRB2/Hang in POST Failure	Processor Recovered from FRB2/Hang in POST Failure	PLAT0047
04h	Assert	FRB3 Initialization Failure	Processor Failed – FRB3	PLAT0048
04h	Deassert	FRB3 Initialization Failure	Processor Recovered from FRB3 Initialization Failure	PLAT0049
05h	Assert	Configuration Error	Processor Configuration Mismatch	PLAT0062
05h	Deassert	Configuration Error	Processor Recovered – Configuration Mismatch	PLAT0063

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
06h	Assert	Uncorrectable CPU Complex asserted	SM BIOS Uncorrectable CPU Complex Error asserted	PLAT0816
06h	Deassert	Uncorrectable CPU Complex deasserted	SM BIOS Uncorrectable CPU Complex Error deasserted	PLAT0817
07h	Assert	Presence	Processor Added	PLAT0034
07h	Deassert	Presence	Processor Removed	PLAT0035
08h	Assert	Disabled	Processor Disabled	PLAT0061
08h	Deassert	Disabled	Processor Enabled	PLAT0060
09h	Assert	Terminator Presence	Processor Terminator Detected	PLAT0064
09h	Deassert	Terminator Presence	Processor Terminator Not Detected	PLAT0065
0Ah	Assert	Throttled	Processor Degraded	PLAT0038
0Ah	Deassert	Throttled	Processor Not Degraded	PLAT0039

5.4 Power Supply Sensor

Sensor Type: Power Supply Sensor

Sensor Type Code: 08h

Reading Type: 6Fh

Table 4 – Power Supply Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Presence	Power Supply Added	PLAT0084
00h	Deassert	Presence	Power Supply Removed	PLAT0085
01h	Assert	Failure	Power Supply Failed	PLAT0086
01h	Deassert	Failure	Power Supply Failed deasserted	PLAT0087
02h	Assert	Predictive Failure	Power Supply failure predicted	PLAT0088

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
02h	Deassert	Predictive Failure	Power Supply failure no longer predicted	PLAT0089
03h	Assert	Input Lost	Power Supply input lost	PLAT0100
03h	Deassert	Input Lost	Power Supply input normal	PLAT0099
04h	Assert	Input Lost or Out of Range	Power Supply input lost or out of range	PLAT0096
04h	Deassert	Input Lost or Out of Range	Power Supply input normal	PLAT0097
05h	Assert	Input Present but Out of Range	Power Supply input out of range	PLAT0098
05h	Deassert	Input Present but Out of Range	Power Supply input normal	PLAT0099
06h	Assert	Configuration Error	Power Supply Configuration Error	PLAT0104
06h	Deassert	Configuration Error	Power Supply configuration is OK	PLAT0105

5.5 Power Unit Sensor

Sensor Type: Power Unit Sensor

Sensor Type Code: 09h

Reading Type: 6Fh

240VA Power down Error with offset 02h Asset, Power Unit power down error is due to a safety interlock (chassis switch).

Table 5 – Power Unit Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Power Off	Power Unit Disabled	PLAT0106
00h	Deassert	Power Off	Power Unit Enabled	PLAT0107
01h	Assert	Power Cycle	Power Unit power cycled	PLAT0108
01h	Deassert	Power Cycle	N/A	N/A
02h	Assert	240VA Power Down Error	Power Unit power down error	PLAT0110

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
02h	Deassert	240VA Power Down Error	Power Unit power down error recovery	PLAT0111
03h	Assert	Interlock Power Down Error	Power Unit power down error	PLAT0110
03h	Deassert	Interlock Power Down Error	Power Unit power down error recovery	PLAT0111
04h	Assert	Power Lost Error	Power Unit power lost	PLAT0112
04h	Deassert	Power Lost Error	Power Unit power restored	PLAT0113
05h	Assert	Soft Power Control Failure	Power Unit soft power control failed	PLAT0114
05h	Deassert	Soft Power Control Failure	Power Unit soft power control recovered	PLAT0115
06h	Assert	Power Unit Failure	Power Unit failed	PLAT0116
06h	Deassert	Power Unit Recovered	Power Unit recovered	PLAT0117
07h	Assert	Predictive Failure	Power Unit Predictive Failure	PLAT0118
07h	Deassert	Predictive Failure	Power Unit no longer Predicted to Fail	PLAT0119

5.6 Memory Sensor

Sensor Type: Memory Sensor

Sensor Type Code: 0Ch

Reading Type: 6Fh

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123 **Table 6 – Memory Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Correctable ECC	Memory Corrected Error Detected	PLAT0124
00h	Deassert	Correctable ECC		N/A
01h	Assert	Uncorrectable ECC	Memory uncorrectable error detected	PLAT0138
01h	Deassert	Uncorrectable ECC	Memory uncorrectable error recovered	PLAT0139
02h	Assert	Parity Error	Memory Parity Error Detected	PLAT0134
02h	Deassert	Parity Error	Memory Parity Error Recovered	PLAT0135
03h	Assert	Scrub Failed (stuck bit)	Memory Scrub Failure	PLAT0136
03h	Deassert	Scrub Failed (stuck bit)	Memory Scrub Failure Recovered	PLAT0137
04h	Assert	Device Disabled	Memory Disabled	PLAT0131
04h	Deassert	Device Disabled	Memory Enabled	PLAT0130
05h	Assert	ECC Logging Limit Reached	Memory Logging Limit Reached	PLAT0144
05h	Deassert	ECC Logging Limit Reached	Memory Logging Limit Removed	PLAT0145
06h	Assert	Presence	Memory Added	PLAT0128
06h	Deassert	Presence	Memory Removed	PLAT0129
07h	Assert	Configuration Error	Memory DIMM Configuration Error	PLAT0126
07h	Deassert	Configuration Error	Memory DIMM Configuration Error Recovery	PLAT0127
08h	Assert	Spare	Memory double chip sparing initiated	PLAT0140
08h	Deassert	Spare	Memory double chip sparing concluded	PLAT0141
09h	Assert	Throttled	Memory Throttled	PLAT0142

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
09h	Deassert	Throttled	Memory no longer Throttled	PLAT0143
0Ah	Assert	Critical Overtemperature	Over Temperature Condition Detected for Memory	PLAT0146
0Ah	Deassert	Critical Overtemperature	Over Temperature Condition Removed for Memory	PLAT0147

5.7 Drive Bay Slot Sensor

Sensor Type: Drive Bay Slot Sensor

Sensor Type Code: 0Dh

Reading Type: 6Fh

Table 7 – Drive Bay Slot Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Drive Presence	Drive Added	PLAT0536
00h	Deassert	Drive Presence	Drive Removed	PLAT0163
01h	Assert	Drive Fault	Drive Disabled due to fault	PLAT0537
01h	Deassert	Drive Fault	Drive Enabled	PLAT0539
02h	Assert	Predictive Failure	Array Failure Predicted	PLAT0538
02h	Deassert	Predictive Failure	Array Failure no longer Predicted	PLAT0510
03h	Assert	Hot Spare	Hot Spare Enabled	PLAT0170
03h	Deassert	Hot Spare	Hot Spare Disabled	PLAT0171
04h	Assert	Consistency Check in Progress	Consistency Check Begun	PLAT0172
04h	Deassert	Consistency Check in Progress	Consistency Check Completed	PLAT0173
05h	Assert	In Critical Array	Array Critical	PLAT0174
05h	Deassert	In Critical Array	Critical Array Recovered	PLAT0175

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
06h	Assert	In Failed Array	Failed Array	PLAT0176
06h	Deassert	In Failed Array	Failed Array restored	PLAT0177
07h	Assert	Rebuild in Progress	Rebuild in Progress	PLAT0178
07h	Deassert	Rebuild in Progress	Rebuild Completed	PLAT0179
08h	Assert	Rebuild Aborted	Rebuild Aborted	PLAT0180
08h	Deassert	Rebuild Aborted		N/A

5.8 System Firmware Progress Sensor

Sensor Type: System Firmware Progress Sensor

Sensor Type Code: 0Fh

Reading Type: 6Fh

For the System Firmware Progress Sensor the implementation may either use the generic message for the offset as shown in Table 8. Or it may use a more specific message based on the Event Data 2 field of the PET as show in Table 9.

Table 8 – System Firmware Progress Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	POST Error	Post Error	PLAT0184
00h	Deassert	POST Error	Post completed normally	PLAT0185
01h	Assert	System Firmware Hang	System Firmware Hang	PLAT0186
01h	Deassert	System Firmware Hang	System Firmware completed normally	PLAT0187
02h	Assert	System Firmware Progress	System Firmware Progress	PLAT0188
02h	Deassert	System Firmware Progress		N/A

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141 **Table 9 – System Firmware Progress Sensor PET to Platform Message Registry Mapping**
142 **Including Event Data 2**

Offset	Event Data 2	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h		Assert	POST Error	Post Error	PLAT0184
	00h	Assert	Unspecified System Firmware Error During POST	Unspecified system firmware error during POST	PLAT0836
	01h	Assert	No memory detected	No System Memory	PLAT0794
	02h	Assert	System has no usable memory	No usable system memory	PLAT0838
	03h	Assert	Unrecoverable hard-disk/TAPI/IDE Device Failure During POST	Unrecoverable hard-disk/TAPI/IDE device failure	PLAT0840
	04h	Assert	Motherboard failure	Unrecoverable system board failure	PLAT0795
	05h	Assert	Unrecoverable Diskette Subsystem Failure During POST	Unrecoverable diskette subsystem failure	PLAT0842
	06h	Assert	Unrecoverable Hard-disk Controller Failure During POST	Unrecoverable hard-disk controller failure	PLAT0844
	07h	Assert	Unrecoverable keyboard failure	Unrecoverable PS/1 or USB keyboard failure	PLAT0764
	08h	Assert	Removable Boot Media Not Found During POST	Removable boot media not found	PLAT0846
	09h	Assert	Unrecoverable Video Controller Failure During POST	Unrecoverable video controller failure	PLAT0848
	0Ah	Assert	No video device detected	No video device detected	PLAT0766
	0Bh	Assert	Firmware BIOS (ROM) Corruption During POST	Firmware (BIOS) ROM corruption failure	PLAT0850
	0Ch	Assert	CPU voltage mismatch	CPU voltage mismatch	PLAT0050
	0Dh	Assert	CPU Speed Matching Failure During POST	CPU speed matching failure	PLAT0852
00h		Deassert	POST Error	Post completed normally	PLAT0185
01h		Assert	System Firmware Hang	System Firmware Hang	PLAT0186
01h		Deassert	System Firmware Hang	System Firmware completed normally	PLAT0187
02h		Assert	System Firmware Progress	System Firmware Progress	PLAT0188
	00h	Assert	System Firmware Progress - Unspecified Event	Unspecified System Firmware Progress	PLAT0854
	00h	Deassert			N/A
	01h	Assert	System Firmware Progress - Memory Initialization (Entry)	Memory Initialization (Entry)	PLAT0720
	01h	Deassert	System Firmware Progress - Memory Initialization (Exit)	Memory Initialization (Exit)	PLAT0721

Offset	Event Data 2	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
	02h	Assert	System Firmware Progress - HD Initialization (Entry)	Hard-disk initialization (Entry)	PLAT0722
	02h	Deassert	System Firmware Progress - HD Initialization (Exit)	Hard-disk initialization (Exit)	PLAT0723
	03h	Assert	System Firmware Progress - Secondary Processor(s) Initialization (Entry)	Secondary Processor(s) Initialization (Entry)	PLAT0856
	03h	Deassert	System Firmware Progress - Secondary Processor(s) Initialization (Exit)	Secondary Processor(s) Initialization (Exit)	PLAT0857
	04h	Assert	System Firmware Progress - User Authentication	User Authentication	PLAT0724
	04h	Deassert			N/A
	05h	Assert	System Firmware Progress - User initiated setup (Entry)	User initiated setup (Entry)	PLAT0726
	05h	Deassert	System Firmware Progress - User initiated setup (Exit)	User initiated setup (Exit)	PLAT0727
	06h	Assert	System Firmware Progress - USB resource configuration (Entry)	USB resource configuration (Entry)	PLAT0728
	06h	Deassert	System Firmware Progress - USB resource configuration (Exit)	USB resource configuration (Exit)	PLAT0729
	07h	Assert	System Firmware Progress - PCI resource configuration (Entry)	PCI resource configuration (Entry)	PLAT0730
	07h	Deassert	System Firmware Progress - PCI resource configuration (Exit)	PCI resource configuration (Exit)	PLAT0731
	08h	Assert	System Firmware Progress - Option ROM initialization (Entry)	Option ROM initialization (Entry)	PLAT0732
	08h	Deassert	System Firmware Progress - Option ROM initialization (Exit)	Option ROM initialization (Exit)	PLAT0733
	09h	Assert	System Firmware Progress - Video initialization (Entry)	Video initialization (Entry)	PLAT0734
	09h	Deassert	System Firmware Progress - Video initialization (Exit)	Video initialization (Exit)	PLAT0735
	0Ah	Assert	System Firmware Progress - Cache initialization (Entry)	Cache initialization (Entry)	PLAT0736
	0Ah	Deassert	System Firmware Progress - Cache initialization (Exit)	Cache initialization (Exit)	PLAT0737
	0Bh	Assert	System Firmware Progress - SMBus Initialization (Entry)	SMBus Initialization (Entry)	PLAT0858
	08h	Deassert	System Firmware Progress - SMBus Initialization (Exit)	SMBus Initialization (Exit)	PLAT0859
	0Ch	Assert	System Firmware Progress - Keyboard controller initialization (Entry)	Keyboard controller initialization (Entry)	PLAT0738

Offset	Event Data 2	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
	0Ch	Deassert	System Firmware Progress - Keyboard controller initialization (Exit)	Keyboard controller initialization (Exit)	PLAT0739
	0Dh	Assert	System Firmware Progress - Embedded Controller/Management Controller Initialization (Entry)	Embedded Controller/Management Controller Initialization (Entry)	PLAT0860
	0Dh	Deassert	System Firmware Progress - Embedded Controller/Management Controller Initialization (Exit)	Embedded Controller/Management Controller Initialization (Exit)	PLAT0861
	0Eh	Assert	System Firmware Progress - Docking Station Attachment	Docking Station Attachment	PLAT0862
	0Fh	Deassert			N/A
	0Fh	Assert	System Firmware Progress - Dock enable (Entry)	Dock enable (Entry)	PLAT0750
	0Fh	Deassert	System Firmware Progress - Dock enable (Exit)	Dock enable (Exit)	PLAT0751
	10h	Assert	System Firmware Progress - Docking Station Ejection	Docking Station Ejection	PLAT0863
	10h	Deassert			N/A
	11h	Assert	System Firmware Progress - Dock disable (Entry)	Dock disable (Entry)	PLAT0752
	11h	Deassert	System Firmware Progress - Dock disable (Exit)	Dock disable (Exit)	PLAT0753
	12h	Assert	System Firmware Progress - Call OS Wake vector	Call OS Wake vector	PLAT0762
	12h	Deassert			N/A
	13h	Assert	System Firmware Progress - Start OS boot process	Start OS boot process	PLAT0760
	13h	Deassert			N/A
	14h	Assert	System Firmware Progress - Motherboard initialization (Entry)	Motherboard initialization (Entry)	PLAT0740
	14h	Deassert	System Firmware Progress - Motherboard initialization (Exit)	Motherboard initialization (Exit)	PLAT0741
	16h	Assert	System Firmware Progress - Floppy initialization (Entry)	Floppy initialization (Entry)	PLAT0742
	16h	Deassert	System Firmware Progress - Floppy initialization (Exit)	Floppy initialization (Exit)	PLAT0743
	17h	Assert	System Firmware Progress - Keyboard Test (Entry)	Keyboard Test (Entry)	PLAT0744
	17h	Deassert	System Firmware Progress - Keyboard Test (Exit)	Keyboard Test (Exit)	PLAT0745
	18h	Assert	System Firmware Progress - Pointing device test (Entry)	Pointing device test (Entry)	PLAT0746
	18h	Deassert	System Firmware Progress - Pointing device test (Exit)	Pointing device test (Exit)	PLAT0747

Offset	Event Data 2	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
	19h	Assert	System Firmware Progress - Primary Processor Initialization (Entry)	Primary Processor Initialization (Entry)	PLAT0864
	19h	Deassert	System Firmware Progress - Primary Processor Initialization (Exit)	Primary Processor Initialization (Exit)	PLAT0865
02h		Deassert	System Firmware Progress		N/A

5.9 Event Logging Sensor

Sensor Type: Event Logging Disabled Sensor

Sensor Type Code: 10h

Reading Type: 6Fh

Table 10 – Event Logging Disabled Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Correctable Memory Error Logging Disabled	Memory Logging Disabled	PLAT0192
00h	Deassert	Correctable Memory Error Logging Disabled	Memory Logging Enabled	PLAT0193
01h	Assert	Event Logging Disabled	Event Logging Disabled	PLAT0194
01h	Deassert	Event Logging Disabled	Event Logging Enabled	PLAT0195
02h	Assert	Log Cleared	Log Cleared	PLAT0200
02h	Deassert	Log Cleared		N/A
03h	Assert	All Event Logging Disabled	All Event Logging Disabled	PLAT0196
03h	Deassert	All Event Logging Disabled	All Event Logging Enabled	PLAT0198
04h	Assert	Log Full	Log Full	PLAT0202
04h	Deassert	Log Full	Log no longer full	PLAT0203
05h	Assert	Log Almost Full	Log Almost Full	PLAT0204
05h	Deassert	Log Almost Full		N/A

5.10 System Event Sensor

Sensor Type: System Event Sensor

Sensor Type Code: 12h

Reading Type: 6Fh

Table 11 – System Event Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	System Reconfigured	System Reconfigured	PLAT0210
00h	Deassert	System Reconfigured		N/A
01h	Assert	OEM System Boot Event	OEM System Boot Event	PLAT0212
01h	Deassert	OEM System Boot Event		N/A
02h	Assert	Unknown System Hardware Failure	Unknown System Hardware Failure	PLAT0214
02h	Deassert	Unknown System Hardware Failure	Unknown System Hardware failure recovered	PLAT0215
03h	Assert	Auxiliary Log Entry Event	Auxiliary Log Entry Event	PLAT0216
03h	Deassert	Auxiliary Log Entry Event		N/A
04h	Assert	PEF Action Executed	PEF Action Executed	PLAT0218
04h	Deassert	PEF Action Executed		N/A
05h	Assert	Timestamp Clock Synch	Timestamp Clock Synch	PLAT0220
05h	Deassert	Timestamp Clock Synch		N/A

5.11 Critical Interrupt Sensor

Sensor Type: Critical Interrupt Sensor

Sensor Type Code: 13h

Reading Type: 6Fh

158 **Table 12 – Critical Interrupt Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Front Panel NMI / Diagnostic Interrupt	Front Panel NMI / Diagnostic Interrupt	PLAT0222
00h	Deassert	Front Panel NMI / Diagnostic Interrupt		N/A
01h	Assert	Bus Timeout	Bus Timeout	PLAT0224
01h	Deassert	Bus Timeout	Bus Timeout Recovered	PLAT0225
02h	Assert	I/O Channel Check NMI	I/O Channel Check NMI	PLAT0226
02h	Deassert	I/O Channel Check NMI	I/O Channel Check NMI Recovered	PLAT0230
03h	Assert	Software NMI	Software NMI	PLAT0228
03h	Deassert	Software NMI	Software NMI Recovered	PLAT0230
04h	Assert	PCI PERR	PCI PERR	PLAT0232
04h	Deassert	PCI PERR	PCI PERR Recovered	PLAT0233
05h	Assert	PCI SERR	PCI SERR	PLAT0234
05h	Deassert	PCI SERR	PCI SERR Recovered	PLAT0235
06h	Assert	EISA Fail Safe Timeout	EISA Fail Safe Timeout	PLAT0236
06h	Deassert	EISA Fail Safe Timeout	EISA Fail Safe Timeout Recovered	PLAT0237
07h	Assert	Bus Correctable Error	Bus Correctable Error	PLAT0238
07h	Deassert	Bus Correctable Error	Bus Correctable Error Recovered	PLAT0239
08h	Assert	Bus Uncorrectable Error	Bus Uncorrectable Error	PLAT0240
08h	Deassert	Bus Uncorrectable Error	Bus Uncorrectable Error Recovered	PLAT0241
09h	Assert	Fatal NMI	Fatal NMI	PLAT0242
09h	Deassert	Fatal NMI Recovered	Fatal NMI Recovered	PLAT0243
0Ah	Assert	Bus Fatal Error	Bus Fatal Error	PLAT0244

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
0Ah	Deassert	Bus Fatal Error	Bus Fatal Error Recovered	PLAT0245
0Bh	Assert	Bus Degraded	Bus Degraded	PLAT0246
0Bh	Deassert	Bus Degraded	Bus No Longer Degraded	PLAT0247

5.12 Button/Switch Sensor

Sensor Type: Button/Switch Sensor

Sensor Type Code: 14h

Reading Type: 6Fh

Table 13 – Button/Switch Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Power Button	Power Button Pressed	PLAT0248
00h	Deassert	Power Button	Power Button Released	PLAT0249
01h	Assert	Sleep Button	Sleep Button Pressed	PLAT0250
01h	Deassert	Sleep Button	Sleep Button Released	PLAT0251
02h	Assert	Reset Button	Reset Button Pressed	PLAT0252
02h	Deassert	Reset Button	Reset Button Released	PLAT0253
03h	Assert	FRU Latch	FRU Latch Opened	PLAT0254
03h	Deassert	FRU Latch	FRU Latch Closed	PLAT0255
04h	Assert	FRU Service Request	FRU Service Request	PLAT0256
04h	Deassert	FRU Service Request	FRU Service Request Completed	PLAT0257

5.13 Chip Set Sensor

Sensor Type: Chip Set Sensor

Sensor Type Code: 19h

Reading Type: 6Fh

168 **Table 14 – Chip Set Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Soft Power Control Failure	Soft Power Control Failure	PLAT0258
00h	Deassert	Soft Power Control Failure Recovered	Software Power Control Recovered	PLAT0259

169 ## 5.14 Cable/Interconnect Sensor

170 Sensor Type: Cable/Interconnect Sensor

171 Sensor Type Code: 1Bh

172 Reading Type: 6Fh

173 **Table 15 – Cable/Interconnect Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Connection	Cable Connected	PLAT0262
00h	Deassert	Connection	Cable Disconnected	PLAT0263
01h	Assert	Configuration Error	Interconnect Configuration Error	PLAT0266
01h	Deassert	Configuration Error	Interconnect Configuration Recovered	PLAT0267

174 ## 5.15 System Boot Initiated Sensor

175 Sensor Type: System Boot Initiated Sensor

176 Sensor Type Code: 1Dh

177 Reading Type: 6Fh

178 **Table 16 – System Boot Initiated Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Power Up	Power On	PLAT0272
00h	Deassert	Power Up		N/A
01h	Assert	Hard Reset	Hard Reset	PLAT0274
01h	Deassert	Hard Reset		N/A
02h	Assert	Warm Reset	Warm Reset	PLAT0276
02h	Deassert	Warm Reset		N/A

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
03h	Assert	User Requested PXE Boot	PXE Boot Requested	PLAT0278
03h	Deassert	User Requested PXE Boot		N/A
04h	Assert	Automatic Boot to Diagnostic	Diagnostics Boot Requested	PLAT0280
04h	Deassert	Automatic Boot to Diagnostic		N/A
05h	Assert	OS/Run-Time Software Initiated Hard Reset	Power-cycle Hard	PLAT0274
05h	Deassert	OS/Run-Time Software Initiated Hard Reset		N/A
06h	Assert	OS/Run-Time Software Initiated Warm Reset	Power-cycle-Soft	PLAT0276
06h	Deassert	OS/Run-Time Software Initiated Warm Reset		N/A
07h	Assert	System Restart	System Restart Requested	PLAT0282
07h	Deassert	System Restart	N/A	N/A

5.16 Boot Error Sensor

Sensor Type: Boot Error Sensor

Sensor Type Code: 1Eh

Reading Type: 6Fh

Table 17 – Boot Error Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	No Bootable Media	No Bootable Media	PLAT0286
00h	Deassert	No Bootable Media		N/A
01h	Assert	Non-bootable Diskette	non-bootable Diskette	PLAT0288

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
01h	Deassert	Non-bootable Diskette		N/A
02h	Assert	PXE Server Not Found	PXE Server Not Found	PLAT0290
02h	Deassert	PXE Server Not Found		N/A
03h	Assert	Invalid Boot Sector	Non-bootable Media	PLAT0288
03h	Deassert	Invalid Boot Sector		N/A
04h	Assert	Timeout Waiting for User to Select Boot Source	User-timeout on boot	PLAT0292
04h	Deassert	Timeout Waiting for User to Select Boot Source		N/A

5.17 OS Boot Sensor

Sensor Type: OS Boot Sensor

Sensor Type Code: 1Fh

Reading Type: 6Fh

Table 18 – OS BOOT Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	A: Boot Completed	Boot from floppy	PLAT0296
00h	Deassert	A: Boot Completed		N/A
01h	Assert	C: Boot Completed	Boot from local drive completed	PLAT0298
01h	Deassert	C: Boot Completed		N/A
02h	Assert	PXE Boot Completed	PXE Boot completed	PLAT0300
02h	Deassert	PXE Boot Completed		N/A
03h	Assert	Diagnostic Boot Completed	Diags Boot Completed	PLAT0302
03h	Deassert	Diagnostic Boot Completed		N/A

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
04h	Assert	CD-ROM Boot Completed	CD Boot Completed	PLAT0304
04h	Deassert	CD-ROM Boot Completed		N/A
05h	Assert	ROM Boot Completed	ROM Boot completed	PLAT0306
05h	Deassert	ROM Boot Completed		N/A
06h	Assert	Boot Completed	Boot Completed	PLAT0312
06h	Deassert	Boot Completed		N/A

5.18 OS Stop/Shutdown Sensor

Sensor Type: OS Stop/Shutdown Sensor

Sensor Type Code: 20h

Reading Type: 6Fh

193 **Table 19 – OS Stop/Shutdown Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Critical Stop During OS Load	Critical Stop During OS Load	PLAT0320
00h	Deassert	Critical Stop During OS Load		N/A
01h	Assert	Run-time Critical Stop	Run-time Critical Stop	PLAT0322
01h	Deassert	Run-time Critical Stop		N/A
02h	Assert	OS Graceful Stop	OS Graceful Stop	PLAT0324
02h	Deassert	OS Graceful Stop		N/A
03h	Assert	OS Graceful Shutdown	OS Graceful Shutdown begun	PLAT0326
03h	Deassert	OS Graceful Shutdown	OS Graceful Shutdown completed	PLAT0327
04h	Assert	Soft Shutdown Initiated by PEF	OS Graceful Shutdown begun	PLAT0326
04h	Deassert	Soft Shutdown Initiated by PEF	OS Graceful Shutdown completed	PLAT0327
05h	Assert	Agent Not Responding	Agent Not Responding	PLAT0328
05h	Deassert	Agent Not Responding	Agent Responding	PLAT0329

194 ## 5.19 Slot Sensor

195 Sensor Type: Slot Sensor

196 Sensor Type Code: 21h

197 Reading Type: 6Fh

198 **Table 20 – Slot Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Fault Status	Fault	PLAT0330
00h	Deassert	Fault Status	Fault condition removed	PLAT0331

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
01h	Assert	Identify Status	Identify Enabled	PLAT0332
01h	Deassert	Identify Status	Identify Disabled	PLAT0333
02h	Assert	Installed	Installed	PLAT0334
02h	Deassert	Installed	Empty	PLAT0336
03h	Assert	Ready for Installation	Ready for Installation	PLAT0338
03h	Deassert	Ready for Installation		N/A
04h	Assert	Ready for Removal	Ready for Removal	PLAT0340
04h	Deassert	Ready for Removal		N/A
05h	Assert	Power is Off	Power is Off	PLAT0342
05h	Deassert	Power is Off	Power is On	PLAT0344
06h	Assert	Removal Requested	Removal Requested	PLAT0346
06h	Deassert	Removal Requested		N/A
07h	Assert	Interlock Active	Interlock Active	PLAT0348
07h	Deassert	Interlock Active	Interlock De-asserted	PLAT0349
08h	Assert	Slot Disabled	Slot Disabled	PLAT0350
08h	Deassert	Slot Disabled	Slot Enabled	PLAT0351
09h	Assert	Slot Holds Spare Device	Slot holds spare	PLAT0352
09h	Deassert	Slot Holds Spare Device	Slot no longer holds spare	PLAT0353

5.20 System ACPI Power State Sensor

Sensor Type: System ACPI Power State

Sensor Type Code: 22h

Reading Type: 6Fh

Table 21 – System ACPI Power State Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	S0/G0	System Enabled	PLAT0354
00h	Deassert	S0/G0		N/A
01h	Assert	S1 State	Sleep – light	PLAT0356

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
01h	Deassert	S1 State		N/A
02h	Assert	S2 State	Sleep – light	PLAT0356
02h	Deassert	S2 State		N/A
03h	Assert	S3 State	Standby	PLAT0360
03h	Deassert	S3 State		N/A
04h	Assert	S4 State	Hibernate – off soft	PLAT0358
04h	Deassert	S4 State		N/A
05h	Assert	S5/G2 Soft-off	Soft – off	PLAT0362
05h	Deassert	S5/G2 Soft-off		N/A
06h	Assert	S4/S5 Soft-off	Soft – off	PLAT0362
06h	Deassert	S4/S5 Soft-off		N/A
07h	Assert	G3/Mechanical Off	Hard – off	PLAT0364
07h	Deassert	G3/Mechanical Off		N/A
08h	Assert	Sleeping in an S1	Sleep – light	PLAT0356
08h	Deassert	Sleeping in an S1		N/A
09h	Assert	G1 Sleeping	Sleep – G1	PLAT0366
09h	Deassert	G1 Sleeping		N/A
0Ah	Assert	S5 Entered by Override	Soft – off	PLAT0362
0Ah	Deassert	S5 Entered by Override		N/A
0Bh	Assert	Legacy ON	Power On	PLAT0272
0Bh	Deassert	Legacy ON		N/A
0Ch	Assert	Legacy OFF	Hard – off	PLAT0364
0Ch	Deassert	Legacy OFF		N/A

5.21 Watchdog 2 Sensor

Sensor Type: Watchdog 2 Sensor

Sensor Type Code: 23h

Reading Type: 6Fh

The *Platform Watchdog Profile* (DSP1040) introduced the new class CIM_PlatformWatchdogService, which is used instead of CIM_Watchdog. Older implementations, however, may still be using CIM_Watchdog. Additional messages were added to DSP8007 that use CIM_PlatformWatchdogService.

211 If an implementation follows DSP1040, then the messages using CIM_PlatformWatchdogService should
212 be used. Table 23 contains the mappings of messages that use CIM_Watchdog.

213 **Table 22 – Watchdog 2 Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Timer Expired	Watchdog Timer Expired	PLAT0368
00h	Deassert	Timer Expired	Watchdog Timer Reset	PLAT0369
01h	Assert	Reboot	Reboot by Watchdog	PLAT0370
01h	Deassert	Reboot		N/A
02h	Assert	Power Off	Power off by Watchdog	PLAT0372
02h	Deassert	Power Off		N/A
03h	Assert	Power Cycle	Power Cycle by Watchdog	PLAT0374
03h	Deassert	Power Cycle		N/A
08h	Assert	Timer Interrupt	Watchdog Timer interrupt occurred	PLAT0376
08h	Deassert	Timer Interrupt		N/A

214

215 Table 23 contains the message mappings that use CIM_PlatformWatchdog Service. For offset 00h
216 Watchdog Timer Expired, the Event Data 3 field in the IPMI PET may contain additional information about
217 the watchdog. Event Data 3 for this sensor may contain the “Timer use at expiration”. If the Event Data 3
218 information is present in the PET alert the implementation may choose to use the alternate messages
219 listed in Table 23 instead of the generic message PLAT0820. These additional messages are only
220 defined for CIM_PlatformWatchdogService and not CIM_Watchdog.

221 **Table 23 – Watchdog 2 Sensor PET to Platform Message Registry Mapping using Platform**
222 **Watchdog Service**

Offset	Event Data 3	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h		Assert	Timer Expired	Platform Watchdog Timer expired	PLAT0828
	1h		Platform Watchdog Timer used for BIOS FRB2 expired	Platform Watchdog Timer used for BIOS FRB2 expired	PLAT0898
	2h		Platform Watchdog Timer used for BIOS/POST expired	Platform Watchdog Timer used for BIOS/POST expired	PLAT0900
	3h		Platform Watchdog Timer used for OS Loader has expired	Platform Watchdog Timer used for OS Loader has expired	PLAT0902

Offset	Event Data 3	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
	4h		Platform Watchdog Timer used for SMS/OS has expired	Platform Watchdog Timer used for SMS/OS has expired	PLAT0904
	5h		Platform Watchdog Timer used by OEM has expired	Platform Watchdog Timer used by OEM has expired	PLAT0906
00h		Deassert	Timer Expired	Platform Watchdog Timer Reset	PLAT0821
01h		Assert	Reboot		
				Reboot by Platform Watchdog	PLAT0822
01h		Deassert	Reboot		N/A
02h		Assert	Power Off	Poweroff by Platform Watchdog	PLAT0824
02h		Deassert	Power Off		N/A
03h		Assert	Power Cycle	Power Cycle by Platform Watchdog	PLAT0826
03h		Deassert	Power Cycle		N/A
08h		Assert	Timer Interrupt	Platform Watchdog Timer interrupt occurred	PLAT0828
08h		Deassert	Timer Interrupt		N/A

5.22 Platform Alert Sensor

Sensor Type: Platform Alert Sensor

Sensor Type Code: 24h

Reading Type: 6Fh

Table 24 – Platform Alert Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Generated Page	Generated Page Alert	PLAT0378
00h	Deassert	Generated Page		N/A
01h	Assert	Generated LAN Alert	Generated LAN Alert	PLAT0380
01h	Deassert	Generated LAN Alert		N/A
02h	Assert	Generated Event Trap	Generated Event Trap	PLAT0382
02h	Deassert	Generated Event Trap		N/A
03h	Assert	Generated SNMP Trap	Generated SNMP Trap	PLAT0384
03h	Deassert	Generated SNMP Trap		N/A

5.23 Entity Presence Sensor

Sensor Type: Entity Presence Sensor

Sensor Type Code: 25h

Reading Type: 6Fh

Table 25 – Entity Presence Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry ID
00h	Assert	Presence	Present	PLAT0390
00h	Deassert	Presence	Absent	PLAT0392
01h	Assert	Absent	Absent	PLAT0392
01h	Deassert	Absent	Present	PLAT0390
02h	Assert	Disable	Disabled	PLAT0394
02h	Deassert	Disable	Enabled	PLAT0395

5.24 LAN Sensor

Sensor Type: LAN Sensor

Sensor Type Code: 27h

Reading Type: 6Fh

Table 26 – LAN Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	LAN Heartbeat Lost	LAN Heartbeat Lost	PLAT0396
00h	Deassert	LAN Heartbeat Lost	LAN Heartbeat Detected	PLAT0397
01h	Assert	LAN Heartbeat	LAN Heartbeat Detected	PLAT0397
01h	Deassert	LAN Heartbeat	LAN Heartbeat Lost	PLAT0396

5.25 Management Subsystem Health Sensor

Sensor Type: Management Subsystem Health Sensor

Sensor Type Code: 28h

Reading Type: 6Fh

242 **Table 27 – Management Subsystem Health Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Sensor Access Degraded/Unavailable	Sensor Unavailable or degraded	PLAT0398
00h	Deassert	Sensor Access Degraded/Unavailable	Sensor returned from degraded/unavailable	PLAT0399
01h	Assert	Controller Access Degraded/Unavailable	Controller unavailable or degraded	PLAT0400
01h	Deassert	Controller Access Degraded/Unavailable	Controller returned from degraded/unavailable	PLAT0401
02h	Assert	Management Controller Off-line	Management Controller Off-line	PLAT0402
02h	Deassert	Management Controller Off-line	Management Controller Enabled	PLAT0405
03h	Assert	Management Controller Unavailable	Management Controller Disabled	PLAT0404
03h	Deassert	Management Controller Unavailable	Management Controller Enabled	PLAT0405
04h	Assert	Sensor Failure	Sensor Failed	PLAT0406
04h	Deassert	Sensor Failure	Sensor returned from degraded/unavailable /failure	PLAT0399
05h	Assert	FRU Failure	FRU Failed	PLAT0408
05h	Deassert	FRU Failure	FRU Recovered	PLAT0409

243 ## 5.26 Battery Sensor

244 Sensor Type: Battery Sensor

245 Sensor Type Code: 29h

246 Reading Type: 6Fh

247 **Table 28 – Battery Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Is Low	Battery level is critically low	PLAT0424
00h	Deassert	Is Low	Battery level no longer critically low	PLAT0427
01h	Assert	Failed	Battery Failed	PLAT0432
01h	Deassert	Failed	Battery Recovered	PLAT0433
02h	Assert	Presence	Battery Added	PLAT0431

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
02h	Deassert	Presence	Battery Removed	PLAT0430

248

249 5.27 Session Audit Sensor

250 Sensor Type: Session Audit Sensor

251 Sensor Type Code: 2Ah

252 Reading Type: 6Fh

253 **Table 29 – Session Audit Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Session Activation	Session Audit activated	PLAT0435
00h	Deassert	Session Activation	Session Audit Deactivated	PLAT0434
01h	Assert	Session Deactivation	Session Audit Deactivated	PLAT0434
01h	Deassert	Session Deactivation	Session Audit activated	PLAT0435

254 5.28 Version Change Sensor

255 Sensor Type: Version Change Sensor

256 Sensor Type Code: 2Bh

257 Reading Type: 6Fh

258 Table 31 contains the Version Change Sensor PET to Platform Message Registry generic mappings that
259 do not use any event data 2 or 3 data.

260 **Table 30 – Version Change Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Hardware Changed	Hardware Changed	PLAT0436
00h	Deassert	Hardware Changed		N/A
01h	Assert	Firmware or Software Changed	Firmware or Software Changed	PLAT0438
01h	Deassert	Firmware or Software Changed		N/A
02h	Assert	Hardware Incompatibility	Hardware Incompatibility	PLAT0440
02h	Deassert	Hardware Incompatibility	Hardware Compatible	PLAT0441

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
03h	Assert	Firmware or Software Incompatibility	Firmware or Software Incompatibility	PLAT0442
03h	Deassert	Firmware or Software Incompatibility	Firmware and Software Compatible	PLAT0443
04h	Assert	Invalid/Unsupported Hardware Version	Invalid/Unsupported Hardware Version	PLAT0444
04h	Deassert	Invalid/Unsupported Hardware Version	Valid/Supported Hardware Version	PLAT0445
05h	Assert	Invalid/Unsupported Firmware/Software Version	Invalid/Unsupported Firmware/Software Version	PLAT0446
05h	Deassert	Invalid/Unsupported Firmware/Software Version	Valid/Supported Firmware/Software Version	PLAT0447
06h	Assert	Successful Hardware Change	Successful Hardware Change	PLAT0448
06h	Deassert	Successful Hardware Change		N/A
07h	Assert	Successful Software or F/W Change	Successful Software or Firmware Change	PLAT0450
07h	Deassert	Successful Software or F/W Change		N/A

For Offset 07h Successful Software or Firmware Change, the implementation may use the more general message PLAT0450 or may provide more detail regarding the component's software or firmware that changed using message PLAT0868. Table 31 contains the Version Change Sensor PET to Platform Message Registry mappings extended for Offset 07h and the use of event data 2.

Table 31 – Version Change Sensor PET to Platform Message Registry Mapping

Offset	Event Data 2	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h		Assert	Hardware Changed	Hardware Changed	PLAT0436
00h		Deassert	Hardware Changed		N/A
01h		Assert	Firmware or Software Changed	Firmware or Software Changed	PLAT0438
01h		Deassert	Firmware or Software Changed		N/A
02h		Assert	Hardware Incompatibility	Hardware Incompatibility	PLAT0440
02h		Deassert	Hardware Incompatibility	Hardware Compatible	PLAT0441
03h		Assert	Firmware or Software Incompatibility	Firmware or Software Incompatibility	PLAT0442
03h		Deassert	Firmware or Software Incompatibility	Firmware and Software Compatible	PLAT0443
04h		Assert	Invalid/Unsupported Hardware Version	Invalid/Unsupported Hardware Version	PLAT0444

Offset	Event Data 2	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
04h		Deassert	Invalid/Unsupported Hardware Version	Valid/Supported Hardware Version	PLAT0445
05h		Assert	Invalid/Unsupported Firmware/Software Version	Invalid/Unsupported Firmware/Software Version	PLAT0446
05h		Deassert	Invalid/Unsupported Firmware/Software Version	Valid/Supported Firmware/Software Version	PLAT0447
06h		Assert	Successful Hardware Change	Successful Hardware Change	PLAT0448
06h		Deassert	Successful Hardware Change		N/A
07h		Assert	Successful Software or F/W Change	Successful Software or Firmware Change	PLAT0450
			Successful Software or Firmware Change on Managed System Element	Successful Software or Firmware Change on Managed System Element	PLAT866
	01h – 08h	Assert	Software or Firmware Change on Management Controller	Software or Firmware Change on Management Controller	PLAT0868
	09h	Assert	System Firmware (EFI / BIOS) Change	System Firmware (EFI / BIOS) Change	PLAT0870
	0Ah	Assert	SMBIOS Change	SMBIOS Change	PLAT0872
	0Bh	Assert	Operating System Change	Operating System Change	PLAT0874
	0Ch	Assert	Operating System Loader Change	Operating System Loader Change	PLAT0876
	0Eh	Assert	Management Software Agent Change	Management Software Agent Change	PLAT0878
	0Fh	Assert	Management Software Application Change	Management Software Application Change	PLAT0880
	10h	Assert	Management Software Middleware Change	Management Software Middleware Change	PLAT0882
	11h	Assert	Programmable Hardware Change (e.g. FPGA)	Programmable Hardware Change (e.g. FPGA)	PLAT0884
	12h	Assert	Board/FRU Module Change	Board/FRU Module Change	PLAT0886
	13h	Assert	Board/FRU Component Change	Board/FRU Component Change	PLAT0888
	14h	Assert	Board/FRU Replaced with Equivalent Version	Board/FRU Replaced with Equivalent Version	PLAT0890
	15h	Assert	Board/FRU Replaced with Newer Version	Board/FRU Replaced with Newer Version	PLAT0892
	16h	Assert	Board/FRU Replaced with Older Version	Board/FRU Replaced with Older Version	PLAT0894
	17h	Assert	Board/FRU Hardware Configuration Change	Board/FRU Hardware Configuration Change	PLAT0896
07h		Deassert	Successful Software or F/W Change		N/A

5.29 FRU State Sensor

Sensor Type: FRU State Sensor

269 Sensor Type Code: 2Ch

270 Reading Type: 6Fh

271 **Table 32 – FRU State Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Not Installed	FRU not installed	PLAT0464
00h	Deassert	Not Installed	FRU installed	PLAT0465
01h	Assert	Inactive (in standby or 'hot spare' state)	FRU inactive	PLAT0471
01h	Deassert	Inactive (in standby or 'hot spare' state)		N/A
02h	Assert	Activation Request	FRU activation requested	PLAT0466
02h	Deassert	Activation Request		N/A
03h	Assert	Activation in Progress	FRU activation in progress	PLAT0468
03h	Deassert	Activation in Progress		N/A
04h	Assert	Active	FRU active	PLAT0467
04h	Deassert	Active		N/A
05h	Assert	Deactivation Request	FRU deactivation requested	PLAT0470
05h	Deassert	Deactivation Request		N/A
06h	Assert	Deactivation in Progress	FRU deactivation in progress	PLAT0472
06h	Deassert	Deactivation in Progress		N/A
07h	Assert	Communication Lost	FRU communication lost	PLAT0474
07h	Deassert	Communication Lost		N/A

272 ## 5.30 Type 1 (Numeric/Threshold) Sensor

273 Sensor Type: Type 1 (Numeric/Threshold) Sensor

274 Sensor Type Code: 01h

275 Reading Type: 01-0Ch

276 **Table 33 – Type 1 (Numeric/Threshold) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Lower Non-critical – going low asserted	Lower Non-critical sensor going low asserted	PLAT0476
00h	Deassert	Lower Non-critical – going low deasserted	Lower Non-critical sensor going low deasserted	PLAT0477
01h	Assert	Lower Non-critical – going high asserted	Lower Non-critical sensor going high asserted	PLAT0478
01h	Deassert	Lower Non-critical – going high deasserted	Lower Non-critical sensor going high deasserted	PLAT0479
02h	Assert	Lower Critical – going low asserted	Lower Critical sensor going low asserted	PLAT0480
02h	Deassert	Lower Critical – going low deasserted	Lower Critical sensor going low deasserted	PLAT0481
03h	Assert	Lower Critical – going high asserted	Lower Critical sensor going high asserted	PLAT0482
03h	Deassert	Lower Critical – going high deasserted	Lower Critical sensor going high deasserted	PLAT0483
04h	Assert	Lower Non-recoverable – going low asserted	Lower Non-recoverable sensor going low asserted	PLAT0484
04h	Deassert	Lower Non-recoverable – going low deasserted	Lower Non-recoverable sensor going low deasserted	PLAT0485
05h	Assert	Lower Non-recoverable – going high asserted	Lower Non-recoverable sensor going high asserted	PLAT0486
05h	Deassert	Lower Non-recoverable – going high deasserted	Lower Non-recoverable sensor going high deasserted	PLAT0487
06h	Assert	Upper Non-critical – going low asserted	Upper Non-critical sensor going low asserted	PLAT0488

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
06h	Deassert	Upper Non-critical – going low deasserted	Upper Non-critical sensor going low deasserted	PLAT0489
07h	Assert	Upper Non-critical – going high asserted	Upper Non-critical sensor going high asserted	PLAT0490
07h	Deassert	Upper Non-critical – going high deasserted	Upper Non-critical sensor going high deasserted	PLAT0491
08h	Assert	Upper Critical – going low asserted	Upper Critical sensor going low asserted	PLAT0492
08h	Deassert	Upper Critical – going low deasserted	Upper Critical sensor going low deasserted	PLAT0493
09h	Assert	Upper Critical – going high asserted	Upper Critical sensor going high asserted	PLAT0494
09h	Deassert	Upper Critical – going high deasserted	Upper Critical sensor going high deasserted	PLAT0495
0Ah	Assert	Upper Non-recoverable – going low asserted	Upper Non-recoverable sensor going low asserted	PLAT0496
0Ah	Deassert	Upper Non-recoverable – going low deasserted	Upper Non-recoverable sensor going low deasserted	PLAT0497
0Bh	Assert	Upper Non-recoverable – going high asserted	Upper Non-recoverable sensor going high asserted	PLAT0498
0Bh	Deassert	Upper Non-recoverable – going high deasserted	Upper Non-recoverable sensor going high deasserted	PLAT0499

5.31 Type 2 (Discrete) Sensor

Sensor Type: Type 2 (Discrete) Sensor

Sensor Type Code: 02h

Reading Type: 01-0Ch

282 **Table 34 – Type 2 (Discrete) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Transition to idle	Sensor transition to idle	PLAT0500
00h	Deassert	Transition to idle		N/A
01h	Assert	Transition to active	Sensor transition to active	PLAT0502
01h	Deassert	Transition to active		N/A
02h	Assert	Transition to busy	Sensor transition to busy	PLAT0504

283 ## 5.32 Type 3 (Discrete) Sensor

284 Sensor Type: Type 3 (Discrete) Sensor

285 Sensor Type Code: 03h

286 Reading Type: 01-0Ch

287

288 **Table 35 – Type 3 (Discrete) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	State deasserted	Sensor state deasserted	PLAT0509
00h	Deassert	State deasserted	Sensor state asserted	PLAT0508
01h	Assert	State asserted	Sensor state asserted	PLAT0508
01h	Deassert	State asserted	Sensor state deasserted	PLAT0509

289 ## 5.33 Type 4 (Discrete) Sensor

290 Sensor Type: Type 4 (Discrete) Sensor

291 Sensor Type Code: 04h

292 Reading Type: 01-0Ch

293

294 **Table 36 – Type 4 (Discrete) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Predictive failure deasserted	Sensor predictive failure deasserted	PLAT0511
00h	Deassert	Predictive failure deasserted	Sensor predictive failure asserted	PLAT0512
01h	Assert	Predictive failure asserted	Sensor predictive failure asserted	PLAT0512
01h	Deassert	Predictive failure asserted	Sensor predictive failure deasserted	PLAT0511

295 ## 5.34 Type 5 (Discrete) Sensor

296 Sensor Type: Type 5 (Discrete) Sensor

297 Sensor Type Code: 05h

298 Reading Type: 01-0Ch

299 **Table 37 – Type 5 (Discrete) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Limit not exceeded	Sensor limit not exceeded	PLAT0513
00h	Deassert	Limit not exceeded	Sensor limit exceeded	PLAT0512
01h	Assert	Limit exceeded	Sensor limit exceeded	PLAT0512
01h	Deassert	Limit exceeded	Sensor limit not exceeded	PLAT0513

300 ## 5.35 Type 6 (Discrete) Sensor

301 Sensor Type: Type 6 (Discrete) Sensor

302 Sensor Type Code: 06h

303 Reading Type: 01-0Ch

304 **Table 38 – Type 6 (Discrete) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Performance met	Sensor performance met	PLAT0514
00h	Deassert	Performance met	Sensor performance lags	PLAT0516
01h	Assert	Performance lags	Sensor performance lags	PLAT0516
01h	Deassert	Performance lags	Sensor performance met	PLAT0514

305 ## 5.36 Type 7 (Discrete) Sensor

306 Sensor Type: Type 7 (Discrete) Sensor

307 Sensor Type Code: 07h

308 Reading Type: 01-0Ch

309

310 **Table 39 – Type 7 (Discrete) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Transition to OK asserted	Sensor transition to OK asserted	PLAT0518
00h	Deassert	Transition to OK deasserted		N/A
01h	Assert	Transition to non-critical from OK asserted	Sensor transition to non-critical from OK asserted	PLAT0520
01h	Deassert	Transition to non-critical from OK deasserted	Sensor transition to non-critical from OK deasserted	PLAT0521
02h	Assert	Transition to critical from less severe asserted	Sensor transition to critical from less severe asserted	PLAT0522
02h	Deassert	Transition to critical from	Sensor transition to	PLAT0523

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
		less severe deasserted	critical from less severe deasserted	
03h	Assert	Transition to non-recoverable from less severe asserted	Sensor transition to non-recoverable from less severe asserted	PLAT0524
03h	Deassert	Transition to non-recoverable from less severe deasserted	Sensor transition to non-recoverable from less severe deasserted	PLAT0525
04h	Assert	Transition to non-critical from more severe asserted	Sensor transition to non-critical from more severe asserted	PLAT0526
04h	Deassert	Transition to non-critical from more severe deasserted	Sensor transition to non-critical from more severe deasserted	N/A
05h	Assert	Transition to critical from Non-recoverable asserted	Sensor transition to critical from Non-recoverable asserted	PLAT0528
05h	Deassert	Transition to critical from Non-recoverable deasserted	Sensor transition to critical from Non-recoverable deasserted	N/A
06h	Assert	Transition to non-recoverable asserted	Sensor transition to non-recoverable asserted	PLAT0530
06h	Deassert	Transition to non-recoverable deasserted	Sensor transition to Non-recoverable deasserted	PLAT0531
07h	Assert	Monitor	Sensor monitor	PLAT0532
07h	Deassert	Monitor		N/A
08h	Assert	Informational	Sensor	PLAT0534

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
			informational	
08h	Deassert	Informational		N/A

5.37 Type 8 (Discrete) Sensor

Sensor Type: Type 8 (Discrete) Sensor

Sensor Type Code: 08h

Reading Type: 01-0Ch

Table 40 – Type 8 (Discrete) Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Device removed	Device removed	PLAT0537
00h	Deassert	Device removed		N/A
01h	Assert	Device inserted	Device inserted	PLAT0536
01h	Deassert	Device inserted		N/A

5.38 Type 9 (Discrete) Sensor

Sensor Type: Type 9 (Discrete) Sensor

Sensor Type Code: 09h

Reading Type: 01-0Ch

Table 41 – Type 9 (Discrete) Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Device disabled	Device disabled	PLAT0539
00h	Deassert	Device disabled		N/A
01h	Assert	Device enabled	Device enabled	PLAT0538
01h	Deassert	Device enabled		N/A

5.39 Type A (Discrete) Sensor

Sensor Type: Type A (Discrete) Sensor

323 Sensor Type Code: 0Ah

324 Reading Type: 01-0Ch

325 **Table 42 – Type A (Discrete) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Transitioned to running	Sensor transitioned to running	PLAT0540
00h	Deassert	Transitioned to running		N/A
01h	Assert	Transitioned to in-test	Sensor transitioned to in-test	PLAT0542
01h	Deassert	Transitioned to in-test		N/A
02h	Assert	Transitioned to power off	Sensor transitioned to power off	PLAT0544
02h	Deassert	Transitioned to power off		N/A
03h	Assert	Transitioned to on-line	Sensor transitioned to on-line	PLAT0546
03h	Deassert	Transitioned to on-line		N/A
04h	Assert	Transitioned to off-line	Sensor transitioned to off-line	PLAT0548
04h	Deassert	Transitioned to off-line		N/A
05h	Assert	Transitioned to off-duty	Sensor transitioned to off-duty	PLAT0550
05h	Deassert	Transitioned to off-duty		N/A
06h	Assert	Transitioned to a degraded state	Sensor transitioned to a degraded state	PLAT0552
06h	Deassert	Transitioned to a degraded state		N/A
07h	Assert	Transitioned to power save state	Sensor transitioned to power save state	PLAT0554
07h	Deassert	Transitioned to power		N/A

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
		save state		
08h	Assert	Install error	Sensor install error	PLAT0556
08h	Deassert	Install error		PLAT0557

5.40 Type B (Redundant) Sensor

Sensor Type: Type B (Redundant) Sensor

Sensor Type Code: 0Bh

Reading Type: 01-0Ch

330 **Table 43 – Type B (Redundant) Sensor PET to Platform Message Registry Mapping**

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	Fully redundant	Fully Redundant	PLAT0561
00h	Deassert	Fully redundant		N/A
01h	Assert	Redundancy lost asserted	Redundancy Lost asserted	PLAT0802
01h	Deassert	Redundancy lost deasserted	Redundancy Lost deasserted	PLAT0803
02h	Assert	Redundancy degraded asserted	Redundancy Degraded asserted	PLAT0804
02h	Deassert	Redundancy degraded deasserted	Redundancy Degraded deasserted	PLAT0805
03h	Assert	Non-redundant: sufficient from redundant asserted	Non-Redundant: Sufficient Resources from Degraded or Full Redundant asserted	PLAT0806
03h	Deassert	Non-redundant: sufficient from redundant deasserted	Non-Redundant: Sufficient Resources from Degraded or Full Redundant asserted	PLAT0807
04h	Assert	Non-redundant: sufficient from insufficient asserted	Non-redundant: Sufficient Resources from Insufficient Resources asserted	PLAT0808
04h	Deassert	Non-redundant: sufficient from insufficient deasserted	Non-redundant: Sufficient Resources from Insufficient Resources deasserted	PLAT0809
05h	Assert	Non-redundant: insufficient	Non-redundant: Insufficient	PLAT0810

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
		asserted	Resources asserted	
05h	Deassert	Non-redundant: insufficient asserted	Non-redundant: Insufficient Resources deasserted	PLAT0811
06h	Assert	Redundancy degraded from fully redundant asserted	Redundancy Degrated from Fully Redundant asserted	PLAT0812
06h	Deassert	Redundancy degraded from fully redundant deasserted	Redundancy Degrated from Fully Redundant deasserted	PLAT0813
07h	Assert	Redundancy degraded from non-redundant asserted	Redundancy Degraded from Non-redundant asserted	PLAT0814
07h	Deassert	Redundancy degraded from non-redundant deasserted	Redundancy Degraded from Non-redundant deasserted	PLAT0815

5.41 Type C (Discrete) Sensor

Sensor Type: Type C (Discrete) Sensor

Sensor Type Code: 0Ch

Reading Type: 01-0Ch

Table 44 – Type C (Discrete) Sensor PET to Platform Message Registry Mapping

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
00h	Assert	D0 power state	Sensor indicates device transitioned to D0 power state	PLAT0562
00h	Deassert	D0 power state		N/A
01h	Assert	D1 power state	Sensor indicates device transitioned to D1 power state	PLAT0564

Offset	Assert/ Deassert	Event Message Label	Use Case	Platform Message Registry MessageID
01h	Deassert	D1 power state		N/A
02h	Assert	D2 power state	Sensor indicates device transitioned to D2 power state	PLAT0566
02h	Deassert	D2 power state		N/A
03h	Assert	D3 power state	Sensor indicates device transitioned to D3 power state	PLAT0568
03h	Deassert	D3 power state		N/A

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ANNEX A
(informative)

Change Log

Version	Date	Description
1.0.0	2009-05-13	DMTF Standard Release
1.1.0	2009-11-02	Added mappings for many of the Deassertions. Updated the Type B (Redundant) Sensor. Added PET definition and normative references to the IPMI and ASF specifications. Updated description in section 5 and using full Message ID in "Platform Message Registry ID" column in the tables. Renamed columns to "Platform Message Registry MessageID" to more clearly define what it means. Updated reference to DSP8007 to list a resolvable URL to the version of the registry that is referenced. The version 1.1. URL was used: http://schemas.dmtf.org/wbem/messageregistry/1/dsp8007_1.1.xml Put all 1.1.0 change log in one row. Add Acronyms for: ASF, CIM, IPMI, DASH and SMASH Remove the references DSP0004, DSP1001, and DSP1054. Also statement referring to DSP1001. Remove subclass headers subclauses 2.1 (Approved References) and 2.2 (Other References) and all the references just go under 2 Normative References.
1.2.0	2010-10-21	Added additional mappings for System Firmware Progress. Updated the Watchdog to list alternate set of messages for CIM_PlatformWatchService instead of CIM_Watchdog. Added alternate more specific message for Version Change Sensor/Sensor Type Code: 2Bh Offset 07h. Added additional mappings for Watchdog Timer expired and Version Change offset 07h. Fixed reference to Table 21 in section 5.21. Fixed message label for message PLAT0840. Changed "SM Bus" to SMBus. Added Dr. Hemal Shaw and Perry Vincent to the list of Contributors. Fixed message numbering that was a mistake in DSP8007 1.2.0. Split tables with Event Data 2/3 into two tables: the old table and a new one with additional mappings based on offsets. Removed entries (Event Data 2/3) for reserved cases.