**# Title:**

Clarify HW Error Notification Structure for SDEI errors

**# Status:**

Draft

**# Document:**

ACPI 6.4 specification

**# License:**

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**# Summary of the change**

Clarify the fields in Hardware Error Notification Structure (Table 18.14) when the error Type is = 11 (SDEI)

**# Benefits of the change**

The HW Error Notification Structure (ACPI 6.4, Table 18.14) has a general reference to Arm SDEI spec for Type = 11 (SDEI). However, some of the fields defined in this table have special meaning (or are ignored) per the SDEI spec:

* Vector: Defined by the SDEI spec to be the "SDEI Event Number"
* These other fields are ignored for SDEI events: Configuration Write Enable, Poll Interval, Switch To Polling Threshold Value, Switch To Polling Threshold Window, Error Threshold Value, Error Threshold Window

A clarification is needed in the ACPI spec to make sure this information is captured with reference to the SDEI spec.

**# Impact of the change**

* Just a spec reference / clarification to match the SDEI spec. No impact to OS or FW implementations

**# Detailed description of the change [normative updates]**

* Insertions in **green**
* Removals in ~~red~~

**18.3.2.9 Hardware Error Notification**

This table describes the notification mechanism associated with a hardware error source.

Table 18.14: Hardware Error Notification Structure

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Byte Length** | **Byte Offset** | **Description** |
| Type | 1 | 0 | Identifies the notification type:  0 - Polled  1 - External Interrupt  2 - Local Interrupt  3 - SCI  4 - NMI  5 - CMCI  6 - MCE  7 - GPIO-Signal  8 - ARMv8 SEA  9 - ARMv8 SEI  10 - External Interrupt - GSIV  11 - Software Delegated Exception –For definition of the fields in this structure for this type, see Links to  ACPI-Related Documents (http://uefi.org/acpi) under the  heading, “SDEI Specification    All other values are reserved |
| .. | … | … | … |
| Vector | 4 | 8 | Interrupt vector. For type 10 “External Interrupt - GSIV”, this  field specifies the GSIV triggered by the error source.  For type 11 “Software Delegated Exception”, this field specifies the SDEI event number (**s**ee the SDEI Specification) |
| … | … | … | … |