

## Proposal for the Device Statistic Information Additions Device Freefall Statistics Group

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This document shows the list of candidates of device freefall statistic information to be included in the Device Statistic Information Log. Each of the candidates will be reviewed and included in the standard after approval. Supporting of each of the item on the list is optional.

### Summary of Device Statistic Information Candidates:

1. Device Statistic Information Header
2. Total Number of Freefall Events Detected by The Device (Lifetime)
3. Number of Freefall Events Detected Where the Magnitude of the Event Exceeds the Maximum Rating of the Device (Lifetime)

Freefall Event: An acceleration event that causes the device to initiate self-protection.

Device Statistic Information Table

Byte Offset	Bit	4. Description
0		Device Statistic Information Header
		Description: When T13 decides to make a new revision to this structure
		Update Criteria: When event occurs
		Measurement Units: Number sequence
		Initialization: Set to 0001h at the factory
	63:48	Revision number
	47:0	Reserved
8		Total Number of Freefall Events Detected by The Device (Lifetime)
		Description: This counter is incremented by one when a Freefall event is detected
		Update Criteria: When event occurs
		Measurement Units: Freefall event
		Initialization: Cleared to zero at the factory
	63	1=valid statistic data

	62:56	Reserved
	55:32	Reserved
	31:0	Unsigned DWORD Total Number of Freefall Events Detected by The Device (Lifetime)
16		Number of Freefall Events Detected Where the Magnitude of the Event Exceeds the Maximum Rating of the Device (Lifetime)
		Description: The device internal setting determine the level of the freefall event is in a high level that might cause data error to occur
		Updated Criteria: When event occurs
		Measurement Units: High freefall event
		Initialization: Cleared to zero at the factory
	63	1=valid statistic data
	62:56	Reserved
	55:32	Reserved
	31:0	Unsigned DWORD Number of High Freefall Events (Lifetime)