



**Trusted Computing Group - Storage Work Group  
Storage Interface Interactions Specification (SIIS) FAQ**

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**August 2015**

**Q. What is the Storage Work Group?**

A. The Storage Work Group is an organization within the Trusted Computing Group. It consists of TCG member companies with interests in the implementation of the Trusted Computing Group's methodologies for storage. For more information on the Storage Work Group, please see the documents at [www.trustedcomputinggroup.org](http://www.trustedcomputinggroup.org)

**Q. What is the TCG Storage Interface Interactions Specification?**

A. SIIS specifies how the TCG Storage Core Specification and the Storage Security Class (SSC) specifications interact with industry standards for storage device interfaces and transports. It maps trusted storage device errors to interface-specific errors, maps interface-specific resets to device resets, describes interface-specific commands used to deliver commands to the device and retrieve data from the device, and interactions with some interface-specific features.

**Q. Who would use the TCG SIIS document?**

A. The TCG SIIS document should be used by anyone implementing a TCG Storage Core Specification and a TCG SSC (e.g. Optical, Opal or Enterprise SSC). The storage device interfaces supported include, but are not limited to ATA, SCSI, UFS, NVMe, eMMC and ATAPI.

**Q. What is the relationship of the TCG SIIS document to other TCG specifications?**

A. The SIIS document is currently referenced by the TCG Storage Architecture Core Specifications and by TCG Storage SSCs.

**Q. Where can you obtain copies of the TCG SIIS document and related TCG specifications?**

A. The SIIS document is available at [www.trustedcomputinggroup.org](http://www.trustedcomputinggroup.org)

**Q. Have you taken into account existing standards such as those for SCSI and ATA? How are you working with other standards bodies?**

A. Yes. The SIIS document was developed with advice from industry experts that are TCG members and participants in the JEDEC, NVM Express, and the INCITS T10 (SCSI) and T13 (ATA/ATAPI) standards committees.

**Q. Will products based on the TCG SIIS work in today's PC architectures?**

A. Yes. Operation in legacy environments was a primary concern in the development of the document.

**Q. Does the TCG SIIS address flash drives and other portable storage devices?**

A. Yes. The SIIS addresses any type of storage device on the supported interfaces, transports, and above mentioned SSCs.

**Q. Does the SIIS describe the interaction between TCG security and interface-specific security protocols?**

A. Yes. The interaction between the ATA security feature set and TCG security is described in the SIIS.

**Q. Which versions of SIIS have been published?**

A. Versions 1.00, 1.01, 1.02, 1.03 and 1.04 have been published. An errata has been published for version 1.03.

**Q. How does SIFS version 1.01 differ from SIFS version 1.00?**

A. Version 1.01 added support for USB and UAS interfaces, clarified the Locking interactions with the ATA Security and Sanitize Device feature sets, and added support for the ATA Sense Data Reporting feature set.

**Q. How does SIFS version 1.02 differ from SIFS version 1.01?**

A. Support was added for the NVM Express (NVMe) interface.

**Q. How does SIFS version 1.03 differ from SIFS version 1.02?**

A. Support was added for interfaces (UAS, UFS, eMMC), interactions with Sanitize commands and the ATA Sense Data Reporting feature set, definition of Maximum LBA, corrections to NVMe, and several minor clarifications.

**Q. What is the purpose of the errata for version 1.03?**

A. The errata for version 1.03 publishes corrections to error mappings for NVMe.

**Q. How does SIFS version 1.04 differ from SIFS version 1.03?**

A. Version 1.04 includes modifications to the interactions between Opal SSC and the Sanitize Feature Set, modifications to the interactions between Enterprise SSC and the Sanitize Feature Set, updates to NVMe reset mappings, corrections to NVMe error mappings, as well as some editorial cleanup.