

DriveMaster 11

NVMe/SATA/SAS Mass Storage Test Tool

Major Features

- Support NVMe Spec. v2.3
 - Support SANITIZE NAMESPACE, GET FEATURE with DWORD 13
 - Support GET/SET FEATURE with FID = 22h, 23h, 24h, 25h
 - Support GET LOG with LID = 19h, 1Dh, 1Eh, 1Fh, 25h, 7Fh
- Support TCG Key Per I/O SSC
 - Support IF_SEND/RECEIVE with Security Protocol 3
 - Support Clear Single MEK, Clear All MEK
 - Support Get Nonce
- Support KMIP
 - Support KMIP Operations: DISCOVER VERSIONS, QUERY, IMPORT
 - Support KMIP Request Message Encoding
 - Support KMIP Request/Response Message Decoding
- Update the algorithm to properly handle the leftover entries when Host Memory Buffer Minimum Descriptor Entry Size is non-zero
- Add the decode to
 - Admin Commands with Opcode 21h/22h/25h/28h/29h/2Ah/2Dh/31h/35h/38h/39h/3Dh/3Eh/41h/42h/45h/85h/88h/89h/8Ch
 - IO commands with Opcode 12h/18h/1Dh/7Fh
- Update the handling to "MDTS and Size Limits Exclude Metadata"
- Add the better handling to error count during the initialization after Power Cycle
- Add the handling to support the 64-Bit value in "MsgVal" retrieved from Edit-box of Message Box
- Add the handling not to display the Interpretation of the returned data if TCG GET_COMID_RESPONSE is completed successfully but the returned request code is not defined
- Add the handling to properly decode TCG Table UID 0x00001201-0x00001603 between the different SSCs of OPAL and KPIO and limit the decode for DataStoreYYYY up to YYYY=700h

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New Major Features
V11.0.1950

Provide numbers of variables to easily retrieve the data returned from

- New Fields in IDENTIFY, GET LOG, GET FEATURE
- TCG Level0 Discovery Feature Code 0x305 and 0x40A, New Fields in Host/TPer Properties
- KMIP Response Message

Support User Friendly Interpretation on

- New NVMe Status Code
 - Generic Command Status Type (00h): 2Bh, 2Ch
 - Command Specific Status Type (01h): 3Ch, 3Dh, 3Eh, 3Fh, 40h, 41h
- The data returned from
 - GET LOG with LID = 19h, 1Dh, 25h, 80h
 - GET LOG with Persistent Event (LID = 0Dh): Event Type = 0Eh, 0Fh
- TCG Level 0 Discovery
 - Key Per I/O SSC Feature
 - Namespace Key Per I/O Capabilities Feature
 - Logical Port Locking Feature
- TCG GET_COMID_RESPONSE Status/State in Response Payload from
 - Verify ComID Valid
 - Stack Reset
 - Clear Single MEK
 - Clear All MEK
- KMIP Request Message and Response Message

Update NVMe Device Info to support

- GET FEATURE with FID = 22h, 23h, 24h, 25h
- GET LOG with LID = 19h, 1Dh, 25h, 80h

Command Control Panel

- NVMe Tab
 - GET/SET FEATURE: Add FID = 22h, 23h, 24h, 25h
 - GET LOG: Add LID = 19h, 1Dh, 1Eh, 1Fh, 25h, 7Fh
- TCG Tab
 - DEV CAP: Add the handling to check the support of OPAL v2.30
 - COMID:
 - Support GET_COMID and VERIFY_COMID_VALID
 - Support dynamic COMID
 - Provide the info on the support of ComID management, Number of ComIDs, and Base ComID, Static and Dynamic ComIDs if any
 - TPER RESET:
 - Add the handling to check the support of TPER_RESET command
 - Set "ProgrammaticResetEnable" to TRUE before invoking TPER_RESET command
 - Allow the user to choose whether to keep "ProgrammaticResetEnable" as TRUE after TPER_RESET
 - STACK RESET: Add the handling to allow the user to input Extended ComID to be reset if DUT supports dynamic ComID or multiple ComIDs