



## Explore What’s New in DriveMaster 11

### Latest Release

#### DriveMaster Release

DriveMaster 11: V11.0.1950 *(New)*

#### Test Suite Release

ULINK NVMe Protocol Test Suite: v8.0  
 ULINK NVMe Regression Test Suite: v7.0  
 ULINK SATA/ATA Protocol Test Suite: v10.0  
 ULINK SATA/ATA Regression Test Suite: v9.5  
 SATA-IO Device Digital: v5.0  
 SATA-IO Host Digital: v3.0  
 ULINK SAS/SCSI Protocol Test Suite: v4.5  
 ULINK SAS/SCSI Regression Test Suite: v6.0  
  
 ULINK TCG/IEEE1667 Opal Family SSC Protocol Test Suite: v12.0  
 TCG Opal Family SSC Application Note Test Suite: v6.0  
 TCG Opal Family SSC Multiple Namespaces Protocol Test Suite: v3.0  
 SWG TCG Opal Family Certification Test Suite: v7.0  
 ULINK TCG Enterprise SSC Protocol Test Suite: v5.5  
 TCG Enterprise SSC Application Note Test Suite: v6.0

### DriveMaster 11 NVMe *New*

#### Highlights of DriveMaster 11 NVMe include:

##### 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 and 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

##### 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

##### 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

##### Update NVMe Device Info to support

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

To purchase DriveMaster 11 or renew your test suites, please visit our [Contact Page](#) or contact your **ULINK representative**.

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