



## Explore The Latest Features in ULINK's Test Suites!

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### Latest Release

#### DriveMaster Release

DriveMaster 10: v10.1.1900

#### Test Suite Release

ULINK NVMe Protocol Test Suite: v8.0 **(New)**

ULINK NVMe Regression Test Suite: v7.0 **(New)**

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 **(New)**

ULINK TCG/IEEE1667 Opal Family SSC Protocol Test Suite: v12.0 **(New)**

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

#### Test Reporter

Test Reporter: v4.4.1

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## ULINK NVMe Protocol Test Suite Updates

### Highlights of v8.0 include:

Add the checking on whether DM is successfully re-initiated after REST before IDENTIFY is sent

Add the handling to support the size limit w/DATASET MANAGEMENT/WRITE ZERO/WRITE UNCORRECTABLE/VERIFY reported by IDFY\_CTRLR\_NVM even if DUT does not support NVMe v2.0 or above

### SANITIZE

- Add the support to GETLOG w/more LIDS
- Add the support to GETF/SETF w/more FIDS

### IDENTIFY

- Add the support to CNS=09h/0Ah/17h
- Add the support to allow CNS=0/5/8 w/NSID=FFFFFFFFh to be completed successfully if DUT does not support Namespace Management per NVMe v2.1

### GETLOG

- Add the support to LID=1Ah-1Ch and 20h-23h
- Add more handling to take care of the DWORD alignment requirement of Page Offset
- Add the support to LID=10h/11h in the case "Get Log w/Page Offset = Not DW Aligned" and "Get Log w/Page Offset = Larger than Page Size"
- Add the support to "Persistent Event Log w/Action = 02h/03h" and clarify the existing case of "Persistent Event Log" w/Action = 00h
- Add more handling to when to retry GETLOG w/Persistent Event Log

### GETSETF

- Add the support to FID = 1Bh/1Ch/1Dh/1Eh/85h
- Enhance the handling to identify the scopes other than Namespace & Controller and properly handle the setting of NSID for FIDs per the different scopes

### GENNVM

- Add the new test cases in WRITE ZERO
  - ✓ w/NLB = WZDSL-1/ WZDSL and DEAC = 1
  - ✓ w/DEAC = 0/1 and NSZ=1
- Add the handling to take care of the scenario that WZSL/WUSL/VSL is less than MDTs when WRITE ZERO/WRITE UNCORRECTABLE/VERIFY in ONCS = 0 in

the case w/NLB=MDTS in WRITE ZERO/WRITE UNCORRECTABLE/VERIFY

## **FWDNLD**

- Add the handling to tolerate the command abort of Firmware Commit if the host attempts to commit firmware without activation (i.e. ActOpt=00h) to the active firmware slot and more than 1 Firmware Slots are available per NVMe v2.1

## **DST**

- Add the new test cases related to "Host-Initiated Refresh"

## **PWRMGT**

- Add the handling to take care of the zero value in Enter/Exit Latency for more reasonable Max. transition time between power states
- Add the retrieval and display of the new fields ("Emergency Power Fail Recovery/Vault Time/Scale" and "Forced Quiescence Vault Time/Scale") in PowerState Descriptors and add the handling to calculate/display the corresponding time in Second per the raw data of the new fields retrieved

## **NSATMGT**

- Add the support to IDENTIFY w/CNS=1Ah/1Bh/1Fh

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## **ULINK NVMe Regression Test Suite Updates**

### **Highlights of v7.0 include:**

**Add the checking on whether DM is successfully re-initiated after REST before IDENTIFY is sent**

**Add the handling to support the size limit w/DATASET MANAGEMENT/WRITE ZERO/WRITE UNCORRECTABLE/VERIFY reported by IDFY\_CTRLR\_NVM even if DUT does not support NVMe v2.0 or above**

## **SANITIZE**

- Add the support to GETLOG w/more LIDS
- Add the support to GETF/SETF w/more FIDS

## **JedecWL/PWRMGT**

- Add the handling to save "JedecWL\_Client/ENT\_Cfg.txt", "PwCycle\_RdmCmds/DataCmp/FullDiskScan\_Cfg.txt" to RFIInfo when these "\_Cfg.txt" files are taken effect

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## ULINK SAS/SCSI Regression Test Suite Updates

### Highlights of v6.0 include:

#### JedecWL/PWRMGT

- Add the handling to save "JedecWL\_Client/ENT\_Cfg.txt", "PwCycle\_RdmCmds/DataCmp/FullDiskScan\_Cfg.txt" to RFIInfo when these "\_Cfg.txt" files are taken effect

#### JedecWL

- Fixed the failure "Error: offset BEYOND the size of the buffer"
  - Fixed the data prepared for UNMAP due to Big Endian order over SCSI-IF
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## ULINK TCG/IEEE1667 Opal Family SSC Protocol Test Suite Updates

### Highlights of v12.0 include:

Add the handling to check the support of OPAL v2.30

**A6\_MethodRegression:** update the related cases to use the TCG Reserved Token (0E4h) as an invalid token instead of 0E0h

**A12\_Get\_objAdmiSP\_GramChk:** add the handling to set the maximum column value to 80h(=DPCR) for the TPerInfo table if DUT supports C\_PIN Enhancement feature set in Case A12-3-1-7-6/7

**C3\_Get\_ObjTable\_AdminSP\_All/C3\_Get\_ObjTable\_LockSP\_All:** add the handling to mark the test case as "Fail" if status code is non-zero when invoking Get() method

**C5\_GetACL\_Table\_LockSP\_All:** add the support to ACE\_MBRControl\_Set\_DoneToDOR if Ruby device supports the MBRControl table

**D1\_ACESet:** add the handling to take care of the session timeout when invoking ACE.Set() method with more than 200 entries

**D5\_MBRControlSet:** Add the handling to check if the range length exceeds Namespace Preferred Write Granularity and Maximum Data Transfer Size (MDTS) when issuing NVMe Write command

#### BlockSID:

- Add the handling to check bit 0 of CMIC field in Identify Controller

- Skip Case 13/14 for PCIe warm reset (PERST#) if DUT contains more than one NVM subsystem port

#### **C\_PIN\_ENH\_Basic:**

- Add the handling to skip the related cases if the TryLimit/Persistence Configurable bits for the corresponding authorities are set to zero
- Add the handling in Case15 to take care of more than 200 Authorities when invoking Authority.Next() method

#### **C\_PIN\_ENH:**

- Add the handling to assign the correct InvokingUID when setting a new value in the C\_PIN table
- Add the handling in Case 11-14 to check the support of Admin1 in the AdminSP and skip these cases if Admin1 authority is not supported
- Correctly handle creating a new PIN that exceeds the maximum length

#### **SingleUserMode:**

- Add the handling in Case 31/95 to take care of more than 200 LockingRanges
- Add the handling if Case 57 failed to set PIN value of Admin1 authority in the LockingSP back to the MSID's PIN
- Add the handling to skip the related cases if starting session failed in Case 65

**Add the handling to revert the TPer to Original Factory State at the end of the batch run**

**Add the handling to take care of cases where the number of sectors exceeds 255 for ATA 28-bit read/write commands during data comparison**

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