

ReleaseOrder ID: SCGCQ01698118
Headline: GCA Release: FREEBSD_MPT_GEN35_PHASE_7.0 - 20.00.00.00 Free BSD Driver
Release Version: 20.00.00.00
UCM Project: FREEBSD_MPT_GEN35_PHASE_7.0
UCM Stream: FREEBSD_MPT_GEN35_PHASE_7.0_Rel
Release Type: GCA
State: Deployed
Release Baseline: FREEBSD_MPT_GEN35_PHASE_7.0-2018-04-10-20.00.00.00_REL_1523354204@ISAS35
Release Date: 26-APR-18
Date Generated: Oct 01, 2019

Release History

▪ [SCGCQ01621976 - Beta Release: FREEBSD_MPT_GEN35_PHASE_7.0 - 19.255.02.00 Free BSD Driver](#)

ReleaseOrder ID: SCGCQ01621976 [Open In CQWeb](#)
Headline: Beta Release: FREEBSD_MPT_GEN35_PHASE_7.0 - 19.255.02.00 Free BSD Driver
Release Version: 19.255.02.00
UCM Project: FREEBSD_MPT_GEN35_PHASE_7.0
UCM Stream: FREEBSD_MPT_GEN35_PHASE_7.0_Rel
Release Type: Beta
State: Test_Complete
Release Baseline: FREEBSD_MPT_GEN35_PHASE_7.0-2018-03-07-19.255.02.00_REL_1520486048@ISAS35
Release Date: 02-APR-18
Date Generated: Oct 01, 2019

Defects Fixed (1):

ID: SCGCQ01595551
Headline: FreeBSD mpr Phase 7: newfs filesystem creation is failing on the DIF Type 2 drives.
Description Of Change: * Disabled EEDP support for DIF Type2 drives in driver (and so driver won't set RDPROTECT/WRPROTECT bit in CDB) since this requires 32 byte CDB and FreeBSD kernel is unaware of the EEDP support and it won't send 32 byte CDBs.
* Kept the EEDP handling logic same as Linux driver,
* After diag reset, updating the EEDP capability for each target by calling xpt_async() API with reason code 'AC_ADVINFO_CHANGED'. For this reason code in driver's async callback function driver sends READ CAPACITY LONG command to the drives to get drive protection information.
Issue Description: FreeBSD OS is issuing READ10/Write10 commands and DIF type 2 drives expects READ(32)/WRITE(32) commands when RDPROTECT/WRPROTECT bit are enabled in the CDBs and so we observing READ10/WRITE10 commands are getting failed with 'ILLEGAL REQUEST with INVALID operation code' sense key. And so newfs file system creation was failing.
Steps To Reproduce: Steps which were followed are mentioned below

Have a controller (Fury) with PI and 4K_PI drives connected to it.

1) Boot to FreeBSD 10.3, FreeBSD 11.0
2)Create a filesystem using newfs /dev/daX command

Observation: Creation fails with the error newfs: wtfs: 512 bytes at sector 1172123567: Invalid argument