

**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

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## Release History

• [SCGCQ01621976 - Beta Release: FREEBSD\\_MPT\\_GEN35\\_PHASE\\_7.0 - 19.255.02.00 Free BSD Driver](#)

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**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

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### 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: wtf: 512 bytes at sector 1172123567: Invalid argument

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