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This Firmware Release Note describes the changes and improvements for the CMD CQD-220/223 SCSI Host Adapter boards.

CQD-220/TM,	CQD-223/TM	F220Y1B3A, F220Y2B3A
CQD-220/M,	CQD-223/M	F22001F3A, F22002F3A
CQD-220/T,	CQD-223/T	F220T1F3A, F220T2F3A
CQD-240/TM,	CQD-243/TM	F220Y1B3A, F220Y2B3A
CQD-240/M,	CQD-243/M	F22001F3A, F22002F3A
CQD-240/T,	CQD-243/T	F220T1F3A, F220T2F3A

Improvements:

1. This option is included for the purpose of "number of blocks per drive" compatibility with other vendor's controllers when interchanging removable optical media between drives controlled by different host adapters. It permits the user to adjust the RCT size so the total number of blocks reported by CMD's disk matches the number of blocks reported by other vendor's controller. The more blocks reserved for RCT the less blocks appear to the system. RCT stands for Replacement Caching Table used for bad block replacement. All drives on the board with this option enabled will have the same RCT size.

Y = Set the RCT size

RCT size = off standard 1 block for RCT

RCT size = on RCT size determined by user (1 to 255 blocks)

Note: To interchange between CMD's own controllers set the TRUNCATE option on both controllers to be same (on or off).

2. To multi-host with other CMD boards, the device type must be the same.

A = Set the RA type. The available types are RA70,80,82,82,90,92,RC25

This option allows you to set the media type of the disk drive that the adapter reports to the operating system. The purpose for this option is for the following reasons:

- a. multi-hosting with other CMD controllers that only report drives as RA82.
- b. supporting large drives on operating systems that do not know of certain device types such as the RA92.

Another setting, the TRUNCATE of both boards must match so the total blocks of the drive matches from both hosts.

Bug Fixes:

1. Fixed problem when a blank tape is initialized on Exabyte drives with VMS 6.1. The symptom would be tape run-away loop in which the Exabyte activity LED would be on constantly.
2. Utility Tape Test hangs up while writing filemark with Exabyte 2618 firmware. This only happens with the on-board utility tape test.
3. Drive spinup: Extended timers for drive spin-up for those drives

that take a long time to spin up. For those drives who return check condition on a spin up command, the command is issued again.

4. Issue the Spin-up command to the drive when LSI-11 autoboots at (771000G or 773000G). This is only used with LSI-11 CPUs without boot roms.