Subject: MMC-4 prevent/allow media removal definition conflicts with MMC-3 / SPC-2 / SPC-3 From: "David Burg" <dburg@nero.com> Date: Thu, 22 Apr 2004 12:04:37 +0200 To: "T10 Reflector" <T10@t10.org>

* From the T10 Reflector (<u>t10@t10.org</u>), posted by: * "David Burg" <<u>dburg@nero.com></u> * Hello,

As I had some trouble to monitor user eject requests of different MMC devices implementing of the prevent/allow media removal, I had a look at the changes in MMC specification and found the following conflict:

- MMC-3:

"Table 49 - Commands for Multi-Media Logical Units" says, "Command name: PREVENT ALLOW MEDIUM REMOVAL; Op Code: 1Eh; Reference: SPC-2". SPC-2 defines bits 0 and 1 of byte 4 of the PREVENT ALLOW MEDIUM REMOVAL command as "PREVENT" field. SPC-2 says then "PREVENT values 10b and 11b are valid only when the RMB bit and the MCHNGR bit are both equal to one in the standard INQUIRY data.". SPC-3 (r07) says the same.

Note: Devices I could test here (and which have no media changer) response in standard inquiry data with RMB bit to one and MCHNGR bit to zero.

- MMC-4:

"6.18 PREVENT ALLOW MEDIUM REMOVAL Command"/"Table 329 - PREVENT ALLOW MEDIUM REMOVAL CDB" defines bits 0 and 1 (resp.) of byte 4 of the PREVENT ALLOW MEDIUM REMOVAL command as 'Prevent' and 'Persistent' (resp.). Persistent prevent state is set with both bits to 1 (as described in "Table 330 - State Selection").

Then, in "4.1.7 Removable medium", is said "While in the Persistent prevent state, the Logical Unit shall generate Events upon receipt of a User Eject request." - I understand this as if I want to receive eject request notification with Get Event/Status Notification command, I need to set the "Persistent prevent" state.

But... On a device where MCHNGR bit is zero, according to MMC-3/SPC-2, value 11b for 'PREVENT' field is invalid! And indeed, I have a few devices here that rejects my Prevent/Allow Media Removal command with check condition, Sense Key: 05h (Illegal Request), Sense Code: 24h 00h (Invalid field in CDB).

I am twice confused because in MMC-3, I can found the same note about "Persistent prevent" note in "4.1.6 Removable medium" but I not understand how I can set this "Persistent prevent" state according to MMC-3.

So, what should I do to lock the door and receive notification of user eject requests (so I can put the medium in a clean state, unlock the door, and eject)?

Best regards,

David Burg

PS: MMC-2 refers to SPC (1) for Prevent/Allow Media Removal. SPC-1 says the same as SPC-2 and SPC-3 ("Prevent values 10b and 11b are valid only when the RMB bit and the Mchngr bit are both equal to one in the standard INQUIRY data.")

David Burg

Software Development, InCD Project Leader

Ahead Software AGphone: +49 (0)7248 911 862 (direct line)Im Stoeckmaedle 18fax: +49 (0)7248 911 88876307 Karlsbademail: dburg@nero.comGermanyhttp://www.nero.com
