

Feature Status Reporting

To: X3T13 Technical Committee
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 Subj: Proposal for adding feature status to INEDNTIFY DEVICE commands in ATA/ATAPI-4

To pick up the pieces from the proposal made by Richard Schnell of Apple (D96123R0), I propose the following.

In the IDENTIFY DEVICE, IDENTIFY DEVICE DMA, and IDENTIFY PACKET DEVICE responses the following be added.

Word	F/V	
82	F	Command set/feature supported. If words 82 and 83 = 0000h or FFFFh command set notification is not supported. 15- Reserved 10 1=disable ECC supported 9 1=SERVICE interrupt supported 8 1=release interrupt supported 7 1=look-ahead supported 6 1=disable retries supported 5 1=write cache supported 4 1=supports PACKET command feature set 3 1=supports power management feature set 2 1=supports removable feature set 1 1=supports security feature set 0 1=supports SMART feature set
83	F	Command set/feature supported. If words 82 and 83 = 0000h or FFFFh command set notification is not supported. 15 Shall be cleared to zero 14 Shall be set to one 13-0 Reserved
84	V	Command set/feature enabled. If words 84 and 85 = 0000h or FFFFh command set enabled notification is not supported. 15- Reserved 10 1= ECC enabled 9 1=SERVICE interrupt enabled 8 1=release interrupt enabled 7 1=look-ahead enabled 6 1=retries enabled 5 1=write cache enabled 4 reserved 3 reserved 2 reserved 1 1= security feature set enabled 0 1= SMART feature set enabled

85	F	<p>Command set/feature enabled. If words 84 and 85 = 0000h or FFFFh command set enabled notification is not supported.</p> <p>15 Shall be cleared to zero 14 Shall be set to one 13-0 Reserved</p>
86	V	<p>Command set/feature default. If words 86 and 87 = 0000h or FFFFh command set default notification is not supported.</p> <p>15- Reserved 10 1= ECC enabled after power-up/reset 9 1=SERVICE interrupt enabled after power-up/reset 8 1=release interrupt enabled after power-up/reset 7 1=look-ahead enabled after power-up/reset 6 1=retries enabled after power-up/reset 5 1=write cache enabled after power-up/reset 4 reserved 3 reserved 2 reserved 1 1= security feature set enabled after power-up/reset 0 1= SMART feature set enabled after power-up/reset</p>
87	F	<p>Command set/feature default. If words 86 and 87 = 0000h or FFFFh command set default notification is not supported.</p> <p>15 Shall be cleared to zero 14 Shall be set to one 13-0 Reserved</p>