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From Daniel Loski
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Re: MODE SENSE Options Page A

The following proposal had been submitted in August 86, but did not proceed.

OPTIONS Page code A

Bit / Byte	7	6	5	4	3	2	1	0
0	R	R	Page Code = Ah					(0Ah)
1	Page Length (in bytes)							TBD

GROUP of Commands Supported

2	G7	G6	G5	G4	G3	G2	G1	G0

The target shall set the corresponding G bit to one if it supports at least one command in the group. G0 and G1 shall always be set to one as some commands in these two groups 0 and 1 are mandatory.

Supported Commands in Group 0 (Operation Codes 00 to 1F)

3	OP7	OP6	OP5	OP4	OP3	OP2	OP1	OP0
4	OPF	OPE	OPD	OPC	OPB	OPA	OP9	OP8
5	OP17	OP16	OP15	OP14	OP13	OP12	OP11	OP10
6	OP1F	OP1E	OP1D	OP1C	OP1B	OP1A	OP19	OP18

The target shall set the corresponding OP bit to one for each command that it supports in the group. The previous 4 bytes may only be returned if the G bit is set to one in the byte 2 (Group of commands supported).

Supported Commands in Group 1 (Operation Codes 20 to 3F)

7	OP7	OP6	OP5	OP4	OP3	OP2	OP1	OP0
8	OPF	OPE	OPD	OPC	OPB	OPA	OP9	OP8
9	OP17	OP16	OP15	OP14	OP13	OP12	OP11	OP10
10	OP1F	OP1E	OP1D	OP1C	OP1B	OP1A	OP19	OP18

The previous 4 bytes may only be returned if the G bit is set to one in the byte 2 (Group of commands supported).

For each group 2 to 7 supported, 4 bytes per group are returned with the same format as above. The last byte of these groups of 4 bytes is referenced as "n".

BITS in the Control Byte Supported

n+1							FLAG	LINK

Messages Supported

n+2	M07	M06	M05	M04	M03	M02	M80-6	M80
n+3	M-R	M0E	M0D	M0C	M0B	M0A	M09	M08
n+4	M01-VU	M01-R	M01-5	M01-4	M01-3	M01-2	M01-1	M01-0

The target shall set the corresponding M bit to one for each message that it supports.
The message 00 Command Complete, being mandatory, is not represented.
The M80 bit indicates if the Identify message is supported.
The M80-6 bit indicates if the target supports disconnect/reconnect (set to one) or not (set to zero).
The M02 through M0C bits indicate if the corresponding message is supported.
The M-R bit indicates if any reserved message is implemented by the target.
If any of the bits of the n+4 byte are set to one, it indicates which Extended message is supported.
The M01-0 through M01-5 bits indicate which Extended Message code is supported. M01-R bit indicates if any reserved code is implemented. M01-VU bit indicates if any Vendor Unique code is implemented.

Sense keys supported

n+5	SK7	SK6	SK5	SK4	SK3	SK2	SK1	SK0
n+6	SKF	SKE	SKD	SKC	SKB	SKA	SK9	SK8

The target shall set the corresponding SK bit to one for each Sense Key that it supports.

Optional Bits in the commands Supported

n+7				Fmtdata	Cmplst	BlkVfy	BytChk	Reladr
n+8				PF				SP

Format Unit Command Variations supported

n+9	V	Reserved	0	0	0
n+10	V	Reserved	1	0	0
n+11	V	Reserved	1	0	1
n+12	V	Reserved	1	1	0
n+13	V	Reserved	1	1	1

The V bit set to one indicates which Defect List Format is supported by the target.