MDB-RS232 Commands for Controlling the MDB AGE Verification

(Test with ICT DCM5 AgeVerification Device)

Command	HEX code	Description	
RESET	68H	Command for Age Verification to self-reset	
SETUP	69H	Request for age verification setup information	
Expansion	6FH	00	Request ID
		FF	Switch On / Off of Age Verification

Switch On / Off of Age Verification

This command is used to switch On or Off the age verification and to setup the minimum testing age within the device. While in state "on" each inserted media is checked and the result is messaged to the VMC.

After the VMC is powered on, the command ON or OFF will be sent to the age verification device.

● For example, Command to Switch ON the Age verification on more than or equal 18 years order

VMC Command: 6F FF 05 06 12 44 52 41 56 60   (Setup the Age limit is Hex:12,So Age should be bigger than 18)

Reply：   FF 05 06 00 44 52 41 56 50 87

● For example, Command to Switch ON the Age verification on more than or equal 43 years order

VMC Command: 6F FF 05 06 35 44 52 41 56 60   (Setup the Age limit is Hex:35,So Age should be bigger than 43)

Reply: FF 05 06 00 44 52 41 56 50 87

Start to swipe the card

Age verification device will report the data to the VMC

Sample data set1:   68 FF 06 07 **00** 00 44 52 41 56 53

(Invalid card, Age information is not available on the customer card)

Sample data set2:   68 FF 06 07 **0E** 10 44 52 41 56 53

(Valid card, The customer is not allowed to buy the product, because the age information on the card is less than the value in DRAVP)

Sample data set3:   68 FF 06 07 **1E** 10 44 52 41 56 53

(Valid card, The customer is allowed to buy the product, because the age information on the customer card is equal or greater than the value in DRAVP)

68	Z1	Z2	Z3	Z4 (Feature byte1)	Z5 (Feature byte2)	Z6	Z7	Z8	Z9	Z10
68	FF	06	07	00	00	44	52	41	56	53
68	FF	06	07	0E	10	44	52	41	56	53
68	FF	06	07	1E	10	44	52	41	56	53

You can compare the received data with the protocol screenshot below. For detailed protocols, you can read MDB details V4.3 version

Diagnostics Response (FFH)	Age (0x06)	length	feature byte 1	feature byte 2	Ident
Z1	Z2	Z3	Z4	Z5	Z6-Z10

Z1 : DIAGNOSTICS Response

Z2 : Age verification status

Z3 : length, the number of bytes of this command, not including Z1-Z3, therefore set to 7

b0=0: A customer card is not in reading position, but may be
b0=1: A customer card is in reading position

b1=0: Age information is not available on the customer card

Z1 : DIAGNOSTICS Response

Z2 : Age verification status

Z3 : length, the number of bytes of this command, not including Z1-Z3, therefore set to 7

b0=0: A customer card is not in reading position, but may be
b0=1: A customer card is in reading position

b1=0: Age information is not available on the customer card
b1=1: Age information is available on the customer card

b2=0: Age verification is not possible (MSAM error or no MSAM)
b2=1: Age verification is possible (MSAM ok and present)

b3=0: The age level from DRAVP command can't be checked
b3=1: The age level from DRAVP command (or a higher value) can be checked

b4=0: The customer is not allowed to buy the product, because the age information on the card is less than the value in DRAVP
b4=1: The customer is allowed to buy the product, because the age information on the customer card is equal or greater than the value in DRAVP

b5=0: reserved, should be set to zero
b6=0: Age verification information *) is valid

b6=1: Age verification information *) is invalid and set to 0, because age verification is under progress (busy)
b7=0: A customer card is not inserted
b7=1: A customer card is inserted, but may not be in reading position (refer to b0)

b0…b3: Reserved, should be set to 0

b4=1: Age verification done by private ident media 1

b5=1: Age verification done by private ident media 2
b6=1: Age verification done by driving license reader

b7=1: Age verification done by public cash card

Z6-Z10 Ident "DRAVS" (hex 0x44 0x52 0x41 0x56 0x53)

*) Age verification information refers to feature byte 1 (b1…b4) and feature byte 2 (all bits)

**) must be valid only, if age verification is positively checked (b4=1 of feature byte 1)

If a DRAVS response with positive checked age information sent from the age verification device, the VMC will enable the vend for selected product for typically 30 seconds. This duration should be programmable.

PC software for Pro version MDB-RS232