

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	1/26

CIM-1XXX & CHM-1XXX DLL Manual

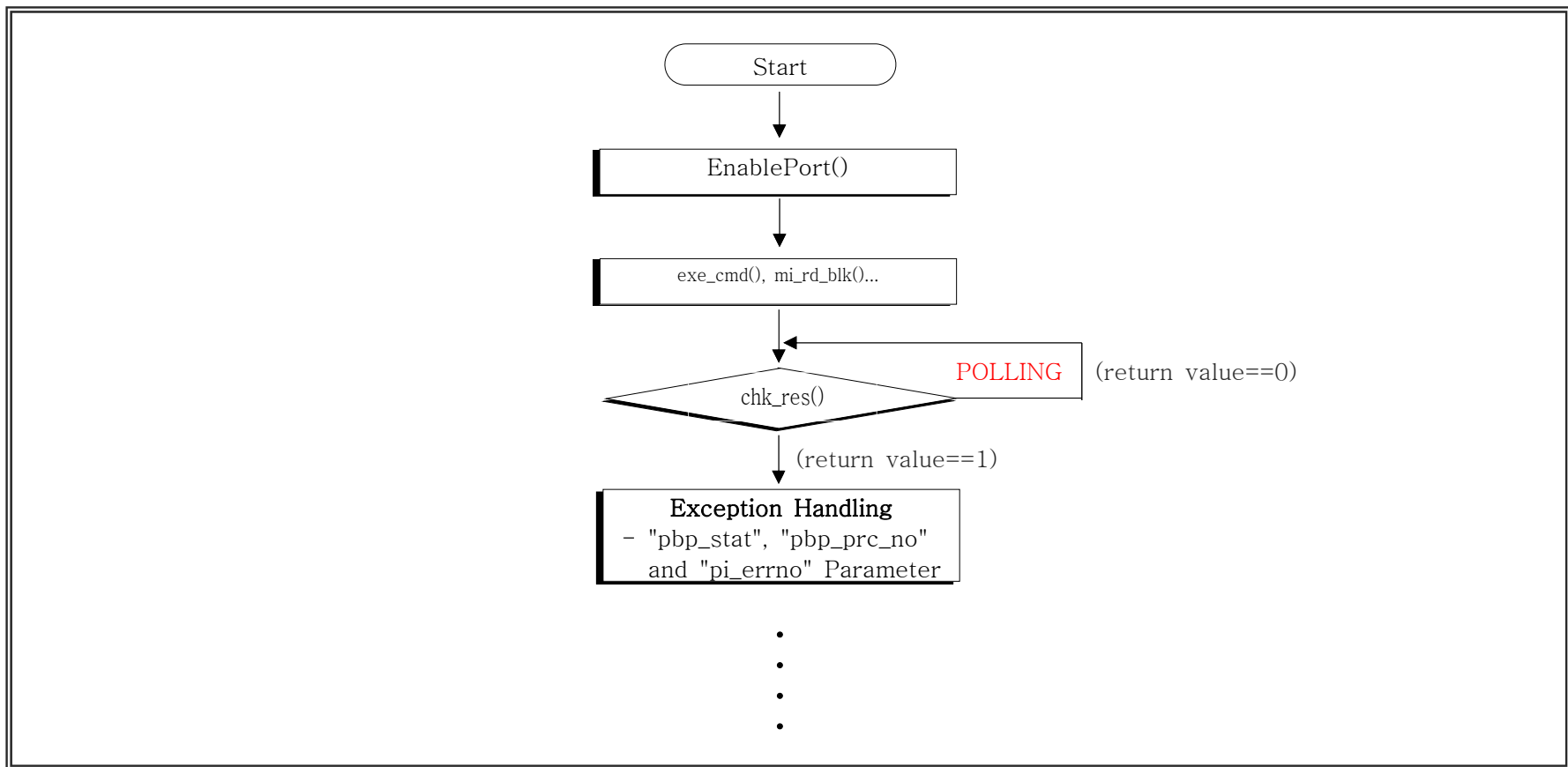
REVISION HISTORY

CHECK	DATE	DESCRIPTION	REV	PAGE
1	2004.11	First edition.	1.00	
2	2005.3	Modify the thread function.	1.01	
3	2005.9	Spell words correctly.	1.02	
4				
5	2005.12.1	SAM commands have been added	1.04	
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KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	2/26

\$. "kyt_5xxx.dll" Library

- Library for Windows NT4.0/2000/XP.
- Terminal: CIM-1XXX, KYT-5XXX, CIM-6600, CCM-4600,
- Notice: BYTE==unsigned char, UINT==unsigned int, ULONG==unsigned long, NULL==0x00.
- See this document with the SPEC.



- Flow Chart -

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	3/26

@. EnablePort()

- Set the serial port to communicate with the terminal.

* PROTOTYPE

- BOOL EnablePort(char* port, BYTE size, BYTE parity, BYTE stopbit, DWORD baudrate, BYTE control)

* PARAMETERS(Refer to "struct _DCB" in the MSDN.)

- port : ex) "COM1", "COM2", ...
- size : Number of bits/byte, 4~8.
- parity : 0~4=None,Odd,Even,Mark,Space.
- stopbit : 0,1,2 = 1, 1.5, 2.
- baudrate : Baudrate at which running.
- control : 0,1,2,3 = None, XOn/XOff, RTS/CTS, Both.

* RETURN

- Normal: 1
- Error : 0

* DETAIL

- ex) EnablePort("COM1", 8, 0, 0, 38400, 0);

=====

@. DisablePort()

- Close the serial port to communicate with the terminal.

* PROTOTYPE

- BOOL DisablePort()

* PARAMETERS : void

* RETURN :

- Normal: 1

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	4/26

- Error : 0

=====

@. exe_cmd()

- Transmit the command at the terminal.

* PROTOTYPE

- int exe_cmd(BYTE *pbp_cmd, BYTE *pbp_dat, UINT piu_dat_len);

* PARAMETERS : Refer to the spec.

- pbp_cmd: The Pointer of the buffer that 3 Byte instruction(Cm0, Cm1 and Cm2)is filled.

- pbp_dat: The Pointer of the buffer that Data(Data field in the Command structure) of the command is filled.

- piu_dat_len: The length of Data.

* RETURN

- 0 : Parameter Error

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

* DETAIL

- It retry 3 time to the automatic when a communication obstacle happens.

- This function can execute all command that is written on the Spec.

=====

@. chk_res()

- Check finishing the execution about the request command. And read the result values about the request command.

* PROTOTYPE

- int chk_res(BYTE *pbp_res, UINT *pipu_res_len, BYTE * pbp_prc_no, int *pi_errno);

* PARAMETERS

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	5/26

- pbp_res: The Pointer of the buffer to take the result value of the request command(Refer to "DATA" Field of the SPEC).
- res_len: The length of pbp_res
- pbp_prc_no: The variable for save the sequence number of the request command to process.
- pi_errno
 - . Normal: 0
 - . Error : etc(Refer Error Code List.)

* RETURN

- 0: Don't finish the processing.
- 1: Finish the processing.

* DETAIL

- If(pi_errno!=0): You must handle that error
- If(pi_errno==2000): Negative Response save Negative Code(2Byte) in pbp_res variable.

=====

@. exe_stop()

- Stop process about request command.

* PROTOTYPE

- void exe_stop()

* PARAMETERS : void

* RETURN : void

* DETAIL

- If you must stop the execution because of the time is delayed.
Call exe_stop() function.

=====

@. call_src_ver()

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	6/26

- Display source version of the dll program into the Message Box.

* PROTOTYPE

- void call_src_ver()

* PARAMETERS : void

* RETURN : void

=====

=====

@. model()

- Check the model number of the terminal.

* PROTOTYPE

- int model();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

* DETAIL

- "pbp_res" parameter of chk_res() function: Model number(7 Byte ASCII).

=====

@. fw_version()

- Check the firmware version of CIM-1000.

* PROTOTYPE

- int fw_version();

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	7/26

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

* DETAIL

- "pbp_res" parameter of chk_res() function: Firmware version(5 Byte ASCII).

=====

@. chk_stack()

- Check the status of the Stacker.

* PROTOTYPE

- int chk_stack();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. card_position()

- Check the card location.

* PROTOTYPE

- int card_position();

* PARAMETERS : void

* RETURN

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	8/26

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. set_rtc()

- Set or check "RTC IC".

* PROTOTYPE

- int set_rtc(BYTE pb_mode, BYTE* pbp_dat);

* PARAMETERS

- pb_mode
 - .pb_mode==0x01: Setting mode.
 - .pb_mode==0x02: Check mode.
- pbp_dat(Refer to the Spec)
 - .If(pb_mode==0x01): "pbp_dat" buffer is composed of 7 Byte BCD.
 - pbp_dat[0]: High-Year(ex: 0x20)
 - pbp_dat[1]: Low-Year(0x00 ~ 0x99)
 - pbp_dat[2]: Month(0x01 ~ 0x12)
 - pbp_dat[3]: Day(0x01 ~ 0x31)
 - pbp_dat[4]: Hour(0x00 ~ 0x23)
 - pbp_dat[5]: Minute(0x00 ~ 0x 59)
 - pbp_dat[6]: Second(0x00 ~ 0x 59)
 - .If(pb_mode==0x02): pbp_dat = NULL.

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	9/26

=====

@. capture_time()

- Set or check "Capture Time".

* PROTOTYPE

- int capture_time(BYTE pb_mode, BYTE pb_time);

* PARAMETERS

- pb_mode

.pb_mode==0x01: Setting mode.

.pb_mode==0x02: Check mode.

- pb_time

.If(pb_mode==0x01)-

pb_time == 0x00: 0 second

pb_time == 0x01: 10 second

pb_time == 0x02: 20 second

pb_time == 0x03: 30 second

pb_time == 0x04: 40 second

pb_time == 0x05: 50 second

pb_time == 0x06: 60 second

.If(pb_mode==0x02): pb_time = 0.

* RETURN

- 0 : Parameter Error.

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

* DETAIL

-

=====

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	10/26

@. rty_cnt()

- Set or check "Retry Count".

* PROTOTYPE

- int rty_cnt(BYTE pb_mode, BYTE pb_cnt);

* PARAMETERS

- pb_mode
 - .pb_mode==0x01: Setting mode.
 - .pb_mode==0x02: Check mode.
- pb_cnt
 - .If(pb_mode==0x01)-
 - pb_cnt == 0x00: Don't Retry.
 - pb_cnt == 0x01: 1 Times
 - pb_cnt == 0x02: 2 Times
 - pb_cnt == 0x03: 3 Times
 - .If(pb_mode==0x02): pb_cnt = 0.

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

* DETAIL

-

=====

@. buzz_manual()

- Set User Buzz (CMD: C40)

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	11/26

* PROTOTYPE

- int buzz_manual(BYTE pb_mode, BYTE* pbp_dat)

* PARAMETERS

- pb_mode

.pb_mode==1: Set Buzz ON

.pb_mode==2: Set Buzz OFF

- pbp_dat: The Pointer of the buffer that 5 Byte Data is filled.

.1 Byte: Buzz Count(0: Continuous, 1 ~ 100: Buzz 1~100 times occur)

.2 Byte: On Time

- 100 ~ 10000: Buzz sound active time (milli second)

.2 Byte: Off Time

- 100 ~ 10000: Buzz sound non active time (milli second)

* RETURN

- 0 : Parameter Error.

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. baudrate()

- Set the baud rate of the terminal.

* PROTOTYPE

- int baudrate(BYTE pb_pm);

* PARAMETERS

- pb_pm

.pb_pm==0x01: 9600 Bps.

.pb_pm==0x02: 19200 Bps.

.pb_pm==0x03: 38400 Bps.

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	12/26

.pb_pm==0x04: 57600 Bps.

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result).

=====

@. card_stk_mov()

- Take a card from stacker and move it to reader/writer module.

* PROTOTYPE

- int card_stk_mov(BYTE pb_stk, BYTE pb_mdl);

* PARAMETERS

- pb_stk
 - .pb_stk==0x01: Stacker1. (CIM-1XXX & CHM-1XXX)
 - .pb_stk==0x02: Stacker2.
 - .pb_stk==0x03: Auto.
- pb_mdl
 - .pb_mdl==0x01: MSRW module.
 - .pb_mdl==0x02: IC module.
 - .pb_mdl==0x03: RF module.

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result).

=====

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	13/26

@. card_mov()

- Move a card to reader/writer module.

* PROTOTYPE

- int card_mov(BYTE pb_pm);

* PARAMETERS

- pb_pm
.pb_pm==0x01: MSRW module.
.pb_pm==0x02: IC module.
.pb_pm==0x03: RF module.

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. card_eject()

- Eject a card to the front.

* PROTOTYPE

- int card_eject();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

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KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	14/26

@. card_drop()

- Completely eject the card to the front . (CMD: C36)

* PROTOTYPE

- int card_drop();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. card_capture()

- Takes a card to bin box(Capture).

* PROTOTYPE

- int card_capture();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. ms_rd()

- Read the Magnetic Card Track to be selected.

* PROTOTYPE

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	15/26

- int ms_rd(BYTE pb_tr);

* PARAMETERS

- pb_tr

.pb_tr==0x00: All Track.

.pb_tr==0x01: Track 1.

.pb_tr==0x02: Track 2.

.pb_tr==0x03: Track 3.

* RETURN

- 0 : Parameter Error.

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. ms_wt()

- Write the data at Magnetic Card Track to be selected.

* PROTOTYPE

- int ms_wt(BYTE pb_tr, BYTE *pbp_dat, UINT piu_dat_len);

* PARAMETERS

- pb_tr

.pb_tr==0x01: Track 1.

.pb_tr==0x02: Track 2.

.pb_tr==0x03: Track 3.

.pb_tr==0x11: Track 1(Take a card from stacker).

.pb_tr==0x12: Track 2(Take a card from stacker).

.pb_tr==0x13: Track 3(Take a card from stacker).

- pbp_dat: The Pointer of the buffer that the Data to write is filled.

- piu_dat_len: The length of Data.

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	16/26

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. ms_clean()

- Clean the Magnetic Head mounted inside MSRW Module.

* PROTOTYPE

- int ms_clean();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. ic_reset()

- Reset the IC card and receive the ATR from card.

* PROTOTYPE

- int ic_reset();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	17/26

@. ic_exe()

- Control the card conforming to the ISO 7816 T=0 / T=1, ISO 7816 -4 standard directly.

* PROTOTYPE

- int ic_exe(BYTE *pbp_dat, UINT piu_dat_len);

* PARAMETERS

- pbp_dat: The Pointer of the buffer that Data(Data field in the Command structure) of the command is filled.
- piu_dat_len: The length of Data.

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. mi_rd_blk()

- Read RF card data and Secret Key in block range

* PROTOTYPE

- int mi_rd_blk(BYTE pb_sct, BYTE pb_blk);

* PARAMETERS

- pb_sct: Sector(0x00~0x0F).
- pb_blk: Block(0x00~0x03).

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	18/26

=====

@. mi_wt_blk()

- Write RF card data in block range.

* PROTOTYPE

- int mi_wt_blk(BYTE pb_sct, BYTE pb_blk, BYTE *pbp_dat);

* PARAMETERS

- pb_sct: Sector(0x00~0x0F).
- pb_blk: Block(0x00~0x03).
- pbp_dat: The Pointer of the buffer that the Data to write is filled.(16BYTE)

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. mi_rd_sct()

- Read RF card data in sector range.

* PROTOTYPE

- int mi_rd_sct(BYTE pb_sct);

* PARAMETERS

- pb_sct: Sector(0x00~0x0F).

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	19/26

=====

@. mi_wt_sct()

- Write RF card data in sector range(except Sector 0)

* PROTOTYPE

- int mi_wt_sct(BYTE pb_sct, BYTE *pbp_dat);

* PARAMETERS

- pb_sct: Sector(0x00~0x0F).
- pbp_dat: The Pointer of the buffer that "Write Data" is filled.(51BYTE, Refer to SPEC)

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

* REMARKS

- e.g)

Block 0- 303132333435363738393A3B3C3D3E3F

Block 1- 404142434445464748494A4B4C4D4E4F

Block 2- 505152535455565758595A5B5C5D5E5F

pbp_dat- 00303132333435363738393A3B3C3D3E3F01404142434445464748494A4B4C4D4E4F

02505152535455565758595A5B5C5D5E5F

=====

@. mi_bal_inc()

- Increment the balance of card to the specified amount.

* PROTOTYPE

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	20/26

- int mi_bal_inc(BYTE pb_sct, BYTE pb_blk, ULONG plu_value);

* PARAMETERS

- pb_sct: Sector(0x00~0x0F).
- pb_blk: Block(0x00~0x03).
- plu_value: Value.

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. mi_bal_dec()

- Decrement the balance of card to the specified amount.

* PROTOTYPE

- int mi_bal_dec(BYTE pb_sct, BYTE pb_blk, ULONG plu_value);

* PARAMETERS

- pb_sct: Sector(0x00~0x0F).
- pb_blk: Block(0x00~0x03).
- plu_value: Value.

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. mi_cng_tm_key()

- Change 'Secret Key' of the terminal into new key.

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	21/26

* PROTOTYPE

- int mi_cng_tm_key(BYTE pb_sct, BYTE *pbp_dat);

* PARAMETERS

- pb_sct: Sector(0x00~0x0F).
- pbp_dat: The Pointer of the buffer that "KEY A and KEY B" is filled.(12 BYTE, Refer to SPEC)

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. mi_cng_all_tm_key()

- Change 'Secret Key' to all the same key value.

* PROTOTYPE

- int mi_cng_all_tm_key(BYTE *pbp_dat);

* PARAMETERS

- pbp_dat: The Pointer of the buffer that "KEY A and KEY B" is filled.(12 BYTE, Refer to SPEC)

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. mi_cng_tm_key_of_set()

- Change 'Secret Key' to a new key from Key Set Number.

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	22/26

* PROTOTYPE

- int mi_cng_tm_key_of_set(BYTE pb_set, BYTE pb_sct, BYTE *pbp_dat);

* PARAMETERS

- pb_set : Key set.
 .0x00: Key Set 0.
 .0x01: Key Set 1.
 .0x02: Key Set 2.
- pb_sct: Sector(0x00~0x0F).
- pbp_dat: The Pointer of the buffer that "KEY A and KEY B" is filled.(12 BYTE, Refer to SPEC)

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. mi_cng_all_tm_key_of_set()

- Change 'Secret Key' to all the same key value from Key Set Number.

* PROTOTYPE

- int mi_cng_all_tm_key_of_set(BYTE pb_set, BYTE *pbp_dat);

* PARAMETERS

- pb_set : Key set.
 .0x00: Key Set 0.
 .0x01: Key Set 1.
 .0x02: Key Set 2.
- pbp_dat: The Pointer of the buffer that "KEY A and KEY B" is filled.(12 BYTE, Refer to SPEC)

* RETURN

- 0 : Parameter Error.

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	23/26

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

@. mi_cng_card_key()

- Change RF card 'Secret Key' to other key.

* PROTOTYPE

- int mi_cng_card_key(BYTE pb_sct, BYTE pb_access, BYTE *pbp_dat);

* PARAMETERS

- pb_sct: Sector(0x00~0x0F).
- pb_access: 1 (Constant value)
- pbp_dat: The Pointer of the buffer that "KEY A, B and Access Condition" is filled.(16 BYTE, Refer to SPEC)

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

@. mi_sel_key()

- Choose the key type between KEY A and KEY B.

* PROTOTYPE

- int mi_sel_key(BYTE pb_index);

* PARAMETERS

- pb_index
 - .pb_index==0x01: KEY A.(Default)
 - .pb_index==0x02: KEY B.

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	24/26

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

=====

@. mi_det()

- RF card detect in antenna area (and read Card Serial Number:4 BYTE HEX)

* PROTOTYPE

- int mi_det();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

* REMARKS

- KYT-5XXX does Detection Command to the automatic. Therefore do not use this function for detection.
Use "mi_det() function" just to read Card Serial Numbers.

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\$. Error Code List

- 1 : No ACK Error
- 2 : TIMEOUT Error
- 3 : NAK Error
- 2000 : Negative Error
- 102 : Compulsion termination Error

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	25/26

106 : Packet Frame Error

107 : BCC Error

108 : Transmission Error

\$. Implement the Manager Program.

1.Open and set the serial port by call EnablePort() function in“cim_1000.dll”.

2.Call exe_cmd(), ms_rd(),... function according to the deed to do.

The Returned value(pbp_prc_no) in an each function is the sequence number about that request command.

It is utilized to confirm whether it is the result about the request when you read the result of the request command.

3. For confirm the result about the request. First you ckeck finishing the execution about the request by chk_res() function. if that finished the execution. Process the result values.

4.If you must stop the execution because of the time is delayed. Call exe_stop() function.

5.Call DisablePort() function if you close the serial port.

6. If you changes the setup of the serial port. call EnablePort() function again.

KYTronic Corp.,Ltd.	PROJECT NAME	DATE	REVISION	PAGE
	CIM-1XXX & CHM-1XXX	2010-08-26	1.03	26/26

But you must call DisablePort() function for close the existing serial port before call

EnablePort() function.