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## KYT – 20XX DLL Manual

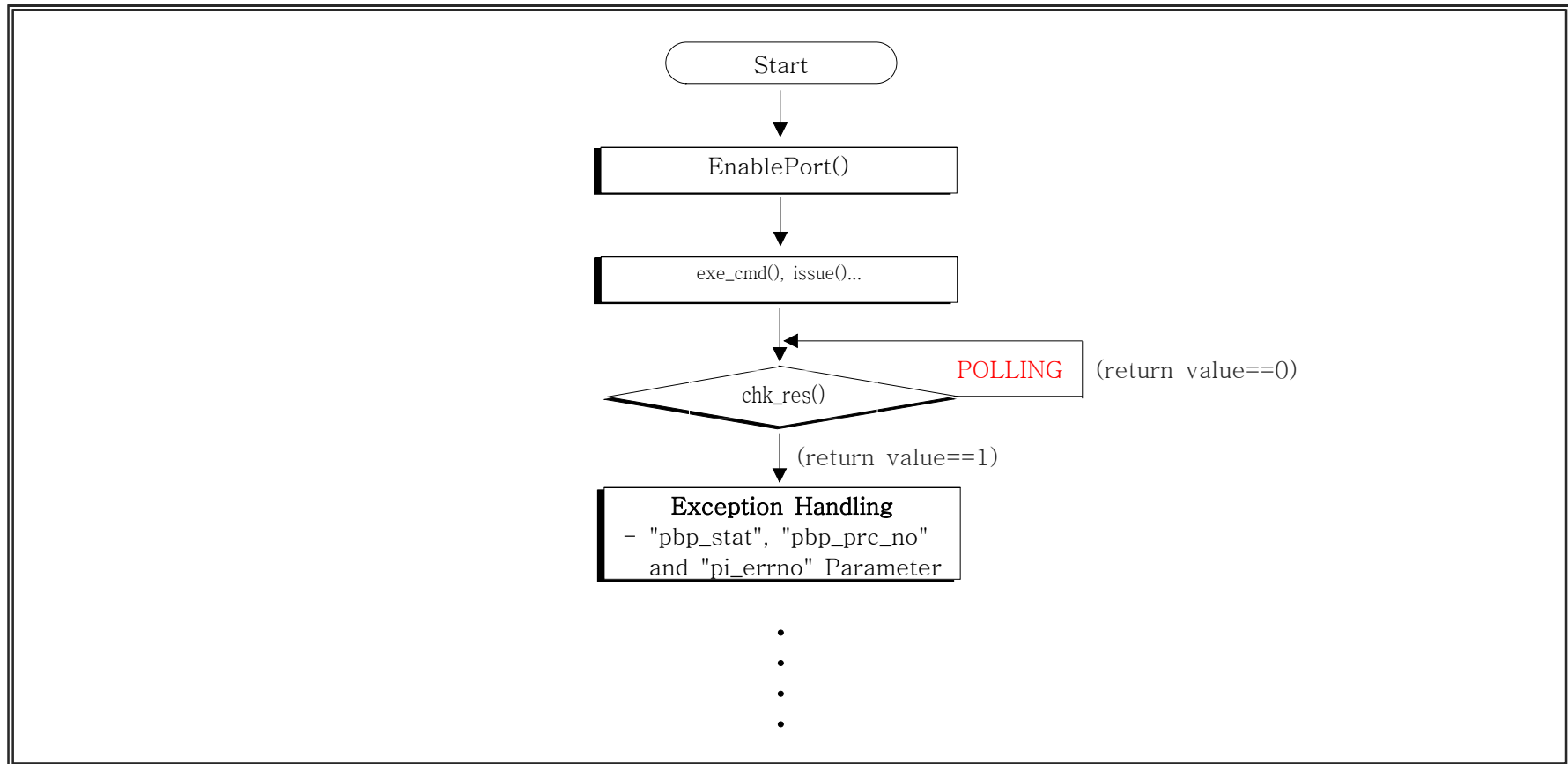
### REVISION HISTORY

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\$. "kyt\_20XX.dll" Library

- Library for Windows NT4.0/2000/XP and Windows 98/Millennium.
- Notice: BYTE==unsigned char, UINT==unsigned int.



- Flow Chart -

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#### @. 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

- e.g) EnablePort("COM1", 8, 0, 0, 9600, 0);

#### @. DisablePort()

- Close the serial port to communicate with the terminal.

#### \* PROTOTYPE

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- BOOL DisablePort()

\* PARAMETERS : void

\* RETURN :

- Normal: 1

- Error : 0

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@. exe\_cmd()

- Transmit the command at the terminal.

\* PROTOTYPE

- int exe\_cmd(BYTE pb\_cmd);

\* PARAMETERS : Refer to the spec.

- pb\_cmd

- . pb\_cmd==0x30: Error Clear.
- . pb\_cmd==0x31: Status Request
- . pb\_cmd==0x40: Stacker #1 Out
- . pb\_cmd==0x41: Stacker #2 Out
- . pb\_cmd==0x42: Auto Issue
- . pb\_cmd==0x43: Capture
- . pb\_cmd==0x44: Feed In
- . pb\_cmd==0x45: Feed Out
- . pb\_cmd==0x46: Stop
- . pb\_cmd==0x47: Stack1 Wait
- . pb\_cmd==0x48: Stack2 Wait
- . pb\_cmd==0x49: Auto Wait

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- . pb\_cmd==0x4a: Feed Out Sol
- . pb\_cmd==0x50: Set the Baud rate to 9600 BPS.
- . pb\_cmd==0x51: Set the Baud rate to 19200 BPS.
- . pb\_cmd==0x60: Version.

\* 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.

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@. chk\_res()

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

\* PROTOTYPE

- int chk\_res(unsigned char \*pbp\_stat, unsigned char \* pbp\_prc\_no, int \*pi\_errno);

\* PARAMETERS

- pbp\_stat: The Pointer of the buffer to take the status value(2BYTE) of the terminal.
  - . if the command is "0x60"(Indicate Firmware Version) : Firmware Version
  - . other command : status value of the terminal.(Refer to the spec)
- pbp\_prc\_no: The variable for save the sequence number of the request command to process.(1 byte)
- pi\_errno
  - . Normal: 0

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. Error : etc(Refer to the Error Code List.)

\* RETURN

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

=====

@. 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.

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@. call\_src\_ver()

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

\* PROTOTYPE

- void call\_src\_ver()

\* PARAMETERS : void

\* RETURN : void

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@. clr()

- Error Clear.

\* PROTOTYPE

- int clr();

\* 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.)

=====

@. rqt()

- Status Request.

\* PROTOTYPE

- int rqt();

\* 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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@. issue()

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- Issue the card.

\* PROTOTYPE

- int issue(BYTE pb\_stk);

\* PARAMETERS

- pb\_stk==1: Stacker #1 OUT
- pb\_stk==2: Stacker #2 OUT
- pb\_stk==3: Auto Issue

\* 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.)

=====

@. set\_baudrate()

- Set the Baud rate.

\* PROTOTYPE

- int set\_baudrate(BYTE pb\_pm);

\* PARAMETERS

- pb\_pm==0x50: 9600 BPS
- pb\_pm==0x51: 19200 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.)



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@. card\_apture()

- Make Motor #3 run backward to take card back to Bin box.

\* PROTOTYPE

- int card\_apture();

\* 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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@. card\_wait()

- move the card to "Move Senseor" for a next operation.

\* PROTOTYPE

- int card\_wait(BYTE pb\_pm);

\* PARAMETERS

- pb\_pm==1: Stack1 Wait.
- pb\_pm==1: Stack2 Wait
- pb\_pm==1: Auto Wait.

\* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether

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it is the result about request when you read the result.)

=====

@. fw\_version()

- Indicate Firmware Version.

\* PROTOTYPE

- int fw\_version();

\* 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.)

=====

%. Notice(Refer to the spec)

- All command send "Status Request Command" to the automatic for "busy flag" inspection.(set\_baudrate() Function excludes.)

\$. Error Code List

1 : No ACK Error

2 : TIMEOUT Error

3 : NAK Error

2000 : Negative Error

102 : Compulsion termination Error

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106 : Packet Frame Error

107 : BCC Error

\$. Implement the Manager Program.

1.Open and set the serial port by call EnablePort() function in“kyt\_20XX.dll”.

2.Call rqt(), issue(),... function according to the deed to do.

The Returned value(pbp\_prc\_no) in an each function(exe\_cmd, issue ..) 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.

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

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

EnablePort() function.