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1 $. "kyt_21xx.dll" Library (SUPPORT MODEL: KYT-21XX, KYT-25XX, CMT-101X)
2     - Library for Windows NT4.0/2000/XP and Windows 98/Millennium.
3     - Notice: BYTE==unsigned char, UINT==unsigned int.
4 =====
5
6 @. EnablePort()
7     - Set the serial port to communicate with the terminal.
8
9 * PROTOTYPE
10     - BOOL EnablePort(char* port, BYTE size, BYTE parity, BYTE stopbit
11         , DWORD baudrate, BYTE control)
12 * PARAMETERS(Refer to "struct _DCB" in the MSDN.)
13     - port      : ex) "COM1", "COM2", ...
14     - size      : Number of bits/byte, 4~8.
15     - parity    : 0~4=None,Odd,Even,Mark,Space.
16     - stopbit   : 0,1,2 = 1, 1.5, 2.
17     - baudrate  : Baudrate at which running.
18     - control   : 0,1,2,3 = None, XOn/XOff, RTS/CTS, Both.
19 * RETURN
20     - Normal: 1
21     - Error : 0
22 * DETAIL
23     - ex) EnablePort("COM1", 8, 0, 0, 9600, 0);
24 =====
25
26 @. DisablePort()
27     - Close the serial port to communicate with the terminal.
28
29 * PROTOTYPE
30     - BOOL DisablePort()
31 * PARAMETERS : void
32 * RETURN      :
33     - Normal: 1
34     - Error : 0
35 =====
36
37 @. exe_cmd()
38     - Transmit the command at the terminal.
39
40 * PROTOTYPE
41     - int exe_cmd(BYTE pb_cmd);

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42 * PARAMETERS : Refer to the spec.
43     - pb_cmd
44         . pb_cmd==0x30: Error Clear.
45         . pb_cmd==0x31: Status Request
46         . pb_cmd==0x40:
47             - In the case of KYT-21XX and KYT-25XX: Issue the card.
48             - In the case of CMT-101X: Collect the card.
49         . pb_cmd==0x50: Set the Baud rate to 9600 BPS.
50         . pb_cmd==0x51: Set the Baud rate to 19200 BPS.
51
52     In the case of KYT-21XX and KYT-25XX
53         .pb_pm==0xF0: Card drop(Default)
54         .pb_pm==0xF1: When issued, a card stops 3mm away from finish sensor.
55         .pb_pm==0xF2: When issued, a card stops 18mm away from finish sensor(-5 mm, +1.5 mm).
56         .pb_pm==0xF3: When issued, a card stops 36mm away from finish sensor(-8 mm, +1.5 mm).
57         .pb_pm==0xF4: When issued, a card stops 54mm away from finish sensor(-10 mm,+1.5 mm).
58
59     In the case of CMT-101X
60         .pb_pm==0xF0: Non
61         .pb_pm==0xF1: Set the card's Waiting time(1 Second).
62         .pb_pm==0xF2: Set the card's Waiting time(2 Second).
63         .pb_pm==0xF3: Set the card's Waiting time(3 Second).
64         .pb_pm==0xF4: Set the card's Waiting time(4 Second).
65         .pb_pm==0xF5: Set the card's Waiting time(5 Second).
66         .pb_pm==0xF6: Set the card's Waiting time(6 Second).
67         .pb_pm==0xF7: Set the card's Waiting time(7 Second).
68         .pb_pm==0xF8: Set the card's Waiting time(8 Second).
69         .pb_pm==0xF9: Set the card's Waiting time(9 Second).
70 * RETURN
71     - 0      : Parameter Error.
72     - 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether
73         it is the result about request when you read the result.)
74 * DETAIL
75     - It retry 3 time to the automatic when a communication obstacle happens.
76     - This function can execute all command that is written on the Spec.
77 =====
78
79 @. chk_res()
80     - Check finishing the execution about the request command. And read
81         the result values about the request command.
82

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83 * PROTOTYPE
84     - int chk_res(unsigned char *pbp_stat, unsigned char * pbp_prc_no, int *pi_errno);
85 * PARAMETERS
86     - pbp_stat: The Pointer of the buffer to take the status value(1BYTE) of the terminal.
87         . if the command is "0x31" or "0x40"      : status value of the terminal.(Refer to the spec)
88         . other command                          : 0
89     - pbp_prc_no: The variable for save the sequence number of the request command to process.
90     - pi_errno
91         . Normal: 0
92         . Error : etc(Refer to the Error Code List.)
93 * RETURN
94     - 0:   Don't finish the processing.
95     - 1:   Finish the processing.
96 * DETAIL
97     - If(pi_errno!=0): You must handle that error.
98     - If(pi_errno==2000): Negative Response save Negative Code(2Byte) in pbp_res variable.
99 =====
100
101 @. exe_stop()
102     - Stop process about request command.
103
104 * PROTOTYPE
105     - void exe_stop()
106 * PARAMETERS : void
107 * RETURN      : void
108 * DETAIL
109     - If you must stop the execution because of the time is delayed.
110       Call exe_stop() function.
111 =====
112
113 @. call_src_ver()
114     - Display source version of the dll program into the Message Box.
115
116 * PROTOTYPE
117     - void call_src_ver()
118 * PARAMETERS : void
119 * RETURN      : void
120 =====
121
122 @. clr()
123     - Error Clear.

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124
125 * PROTOTYPE
126     - int clr();
127 * PARAMETERS : void
128 * RETURN
129     - 0      : Parameter Error.
130     - 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether
131         it is the result about request when you read the result.)
132 =====
133
134 @. rqt()
135     - Status Request.
136
137 * PROTOTYPE
138     - int rqt();
139 * PARAMETERS : void
140 * RETURN
141     - 0      : Parameter Error.
142     - 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether
143         it is the result about request when you read the result.)
144 =====
145
146 @. issue()
147     - In the case of KYT-21XX and KYT-25XX, Issue the card.
148     - In the case of CMT-101X, Collect the card.
149
150
151
152 * PROTOTYPE
153     - int issue();
154 * PARAMETERS : void
155 * RETURN
156     - 0      : Parameter Error.
157     - 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether
158         it is the result about request when you read the result.)
159 =====
160
161 @. set_baudrate()
162     - Set the Baud rate.
163
164 * PROTOTYPE

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165     - int set_baudrate(BYTE pb_pm);
166 * PARAMETERS
167     - pb_pm==0x50: 9600 BPS (default)
168     - pb_pm==0x51: 19200 BPS
169 * RETURN
170     - 0       : Parameter Error.
171     - 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether
172         it is the result about request when you read the result.)
173 =====
174
175 @. set_issue()
176     - In the case of KYT-21XX and KYT-25XX, Set the card issuing length.
177     - In the case of CMT-101X, Set the card's Waiting time
178 * PROTOTYPE
179     - int set_issue(BYTE pb_pm);
180 * PARAMETERS
181     - pb_pm
182         In the case of KYT-21XX and KYT-25XX
183         .pb_pm==0xF0: Card drop(Default)
184         .pb_pm==0xF1: When issued, a card stops 3mm away from finish sensor.
185         .pb_pm==0xF2: When issued, a card stops 18mm away from finish sensor(-5 mm, +1.5 mm).
186         .pb_pm==0xF3: When issued, a card stops 36mm away from finish sensor(-8 mm, +1.5 mm).
187         .pb_pm==0xF4: When issued, a card stops 54mm away from finish sensor(-10 mm,+1.5 mm).
188         In the case of CMT-101X
189         .pb_pm==0xF0: Non
190         .pb_pm==0xF1: 1 Second.
191         .pb_pm==0xF2: 2 Second
192         .pb_pm==0xF3: 3 Second
193         .pb_pm==0xF4: 4 Second
194         .pb_pm==0xF5: 5 Second
195         .pb_pm==0xF6: 6 Second
196         .pb_pm==0xF7: 7 Second
197         .pb_pm==0xF8: 8 Second
198         .pb_pm==0xF9: 9 Second
199 * RETURN
200     - 0       : Parameter Error.
201     - 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether
202         it is the result about request when you read the result.)
203 =====
204
205

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206 \$. Error Code List

207

208 1 : No ACK Error

209 2 : TIMEOUT Error

210 3 : NAK Error

211 102 : Compulsion termination Error

212 106 : Packet Frame Error

213 107 : BCC Error

214 2000 : Negative Error

215

216

217 \$. Implement the Manager Program.

218

219 1.Open and set the serial port by call EnablePort() function in "kyt_21xx.dll" .

220

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

222

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

224

225 request command.

226

227 It is utilized to confirm whether it is the result about the request when you read the

228

229 result of the request command.

230

231 3. For confirm the result about the request. First you ckeck finishing the execution

232

233 about the request by chk_res() function. if that finished the execution. Process the result values.

234

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

236

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

238

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

240

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

242

243 EnablePort() function.