

Passport and Thai ID Auto Form Filler

(PassIDform)

User Manual

Version 1.21



R&D Computer System Co.,Ltd.

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Getting Started with PassIDform

Introduction to PassIDform

PassIDform is a program for reading passport information with the Passport Reader. Then fill the document forms that appear on the screen automatically as if the user entered the data by typing from a keyboard. This will save time in typing and prevent typing errors.

The program can also read Thai ID cards with the Smart Card Readers then fill the document forms.

The Readers that can be used with this program are as follows.

- Passport Reader PFK8800, PFK8800L, PFK8800LR, PFK8800LS and PFK8800LRS
- Passport Reader PFK3300 and PFK3300R
- Thai ID Card Reader TFK-2700R and TFK-2700RB

Find the features of each passport reader model from the table below.

Reader Model	Read MRZ with OCR	Read document page	Read with UV	Read e-Passport with RFID	Read Thai ID card
PFK8800	✓	✓	-	-	(buy TFK2700RB)
PFK8800L	✓	✓	✓	-	(buy TFK2700RB)
PFK8800LR	✓	✓	✓	✓	(buy TFK2700RB)
PFK8800LS	✓	✓	✓	-	✓
PFK8800LRS	✓	✓	✓	✓	✓
PFK3300	✓	-	-	-	(buy TFK2700RB)
PFK3300R	✓	-	-	✓	(buy TFK2700RB)
PFK3302R2S	✓	-	-	✓	✓ (has 2 ports)

Because each reader model has different features, so it will support commands for reading passport differently. For example, the reader without RFID will not support the RFID commands. The reader which cannot read document page (such as PFK3300, PFK3300R and PFK3302R2S) will not support the command for pasting or saving a document page also.

Program Requirements

- Personal computer (PC) running with Windows XP, Vista, 7, 8, 10 or 11

PassIDform Program Installation

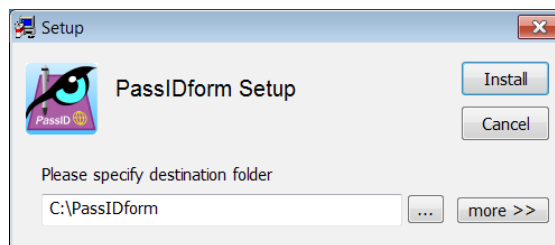
Before using PassIDform, the using computer should be installed with the reader driver first. Then install

the program after that. Both the reader driver and the PassIDform program can be downloaded from www.rd-comp.com.

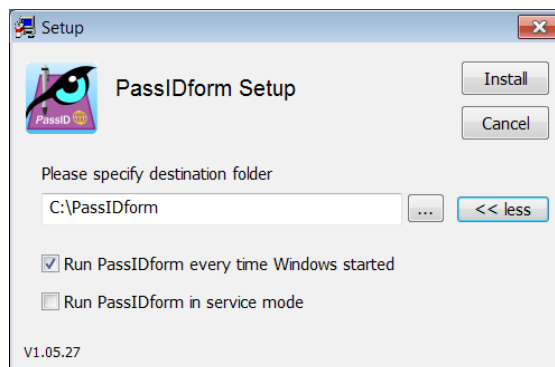
For the Smart Card Reader, normally we do not need to install the driver because Windows will automatically install the driver as soon as we plug the reader into the system.

For the Passport Reader, we have to manually install the drivers. We can install the drivers either before or after the PassIDform program installation. If we did not install before, when the program installation is almost finish, it will show a warning message before restarting Windows. After restarting and the PassIDform program is working ready, then we should continue installing the reader drivers. See more details at [Driver Installation for the Passport Reader](#)

After finishing the driver installation and the reader is ready, we can install the program. Run the Setup.exe program included in the downloaded software. The program will display the following screen:

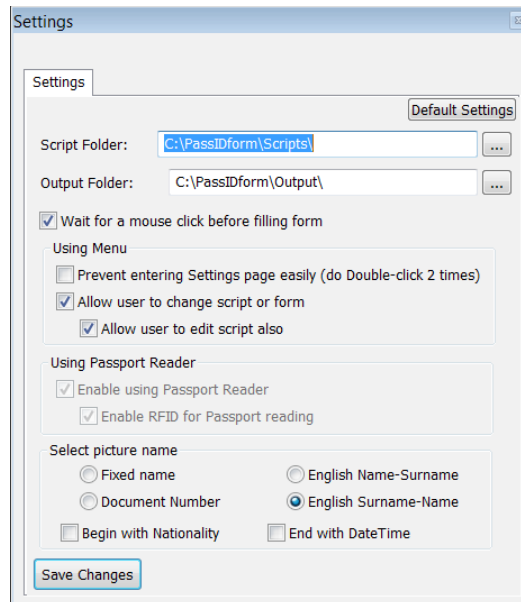


- In general, to make the program run automatically, the user can just only select the folder and press the **Install** button. In case you want to change the installation, you need to press the "**more >>**" button to view the hidden options. The screen is as follows.



- The meaning of the options are
 - **Run PassIDform every time Windows started** Allow the program to run automatically every time Windows starts. (Usually selected)
 - **Run PassIDform in service mode** If the form that you want to fill is run with the administrator privilege, you will have to choose this option in order for the program to work in the same high privilege as the administrator by running in service mode.

- By pressing the **Install** button, the program will copy files and install it into Windows until it is successful. We will need to restart the Windows for the installation to work.
- After a successful restarting Windows, the PassIDform program will start automatically (as with the ***Run PassIDform every time Windows started*** option). The program will check that if there is no previous setting, it will display the settings screen as shown:



Initial Settings

Now user have to do initial settings to make the program work as desired. These settings can be changed later. The setting options are as follows.

- **Scripts Folder** Specify the folder containing scripts to be used in filling the form.
- **Output Folder** Specify the folder holding data read from the reader. (At this time, there are only picture data)
- **Wait for a mouse click before filling form** Option for the program to wait for the user to do a mouse click at the form before filling data every time.
- **Prevent entering Settings page easily (do Double-click 2 times)** Usually, the "Setup" screen is accessed from the main menu screen by a single mouse click. If you want to prevent users from accessing the "Settings" screen easily, choose this option. This will allow only using the mouse to press the Double Click twice in a short time to enter the "Settings" screen.
- **Allow user to change Script or Form** Use to hide the menu from the user to enter the **Choose Script and Form** screen which will avoid them from changing unintentionally.
- **Allow user to edit Script also** use to hide the menu (in the **Choose Script and Form** screen) from the user to edit the script unintentionally.

- **Enable using Passport Reader** Option for the PassIDform program to stop using the currently used Passport Reader for a while so that other program can use this Passport Reader. (Doing this by deselecting this option)
- **Enable RFID for passport reading** For the Passport Reader that can read RFID, we can choose not to use RFID for passport reading (by deselecting this option). This will increase the reading speed.
- **Select picture name** When we use a script command to save the picture to file, such as SavePhoto, P_SaveFace, or P_SavePage command. This will create the picture file in the data folder. To make the picture name different from each other, you should name the picture file relative to the read data. We can select the format according to the options as shown. See more details in the [Setting Options to Save Picture Files](#) topic.

After setting up, the program will work normally. See how to use the program in the next section.

Note:

To make sure that the installed program is updated and can be used with the newly purchased readers, the program also have a process to check for the latest license automatically during startup. You need to make sure that you have enabled Windows to connect to the Internet before.

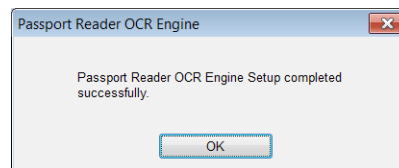
Driver Installation for the Passport Reader

To make the passport reader ready for working with the PassIDform program, we have to install the drivers for the passport reader. It can be done by running the installation program included in the program set you received or downloaded. The installation will depend on the reader models as follows.

Driver Installation for PFK88XX Model

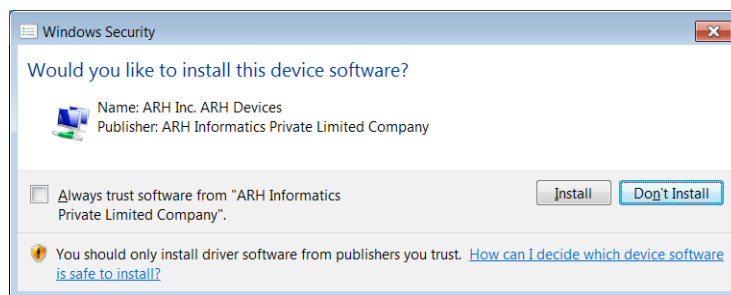
Run `Install_PFK88_Driver.bat` which is a Batch File that will install 2 drivers as follows.

1. **procr-x.x.x.x.msi** (x.x.x.x is the driver version number, such as 2.0.4.148) After finishing this driver installation you will see the following screen.



Press **OK** button then the second driver will be installed.

2. **pr-x.x.x.x-x86.msi** (x.x.x.x is the driver version number, such as 2.1.7.0) During this driver installation you will see the screen like this.



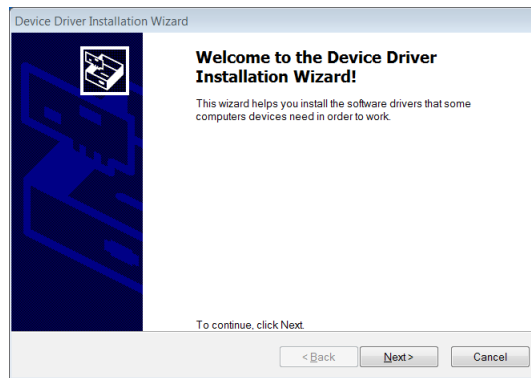
Press **Install** button every time you see the screen like this until the installation is complete. When the program ask you to restart your computer, press **Yes** button.



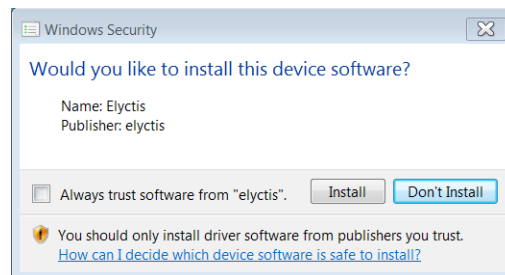
When the system is restarted and Windows has found the reader, the reader is ready to be used.

Driver Installation for PFK33XX Model

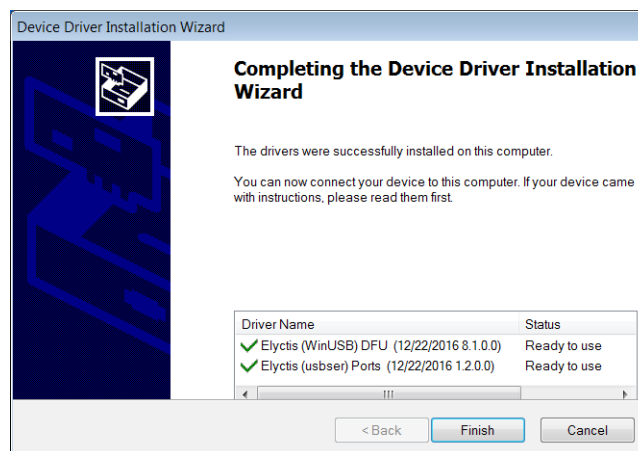
Run `Install_PFK33_Driver.bat`. At the beginning you will see the following screen.



Press **Next** button to install. During the driver installation you will see the screen like this.



Press **Install** button every time you see the screen like this until the installation is complete and the program show the last screen.



Press **Finish** to finish installation.

Using PassIDform

Program Working Process

How the program works

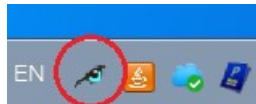
- user puts a passport on the Passport Reader or inserts the card into the Smart Card Reader
- The program will read the data from the passport or Thai ID card automatically.
- The read data will be filled on the form on the screen. Beginning from the position where the cursor appears and by using the script to determine how to fill data.

About the script file

The script file is a text file that determines how to print data from an ID card or from a passport in the specified format, and then move the cursor to the next text box by which key. Because this script depends on which form going to be used, which is different from the others. So users need to prepare themselves. Learn how to write scripts by following the examples provided. And see the description on the [Writing Scripts for Reading Thai ID Cards](#) topic, or [Writing Scripts for Reading Passports](#) topic.

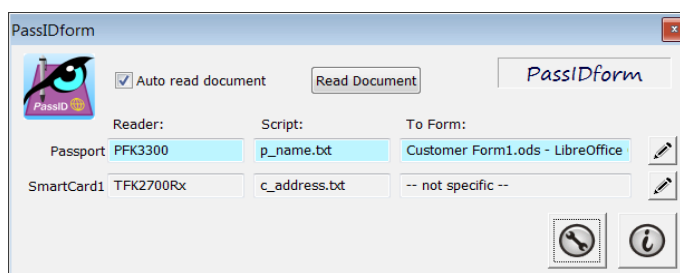
Main Menu

When the program is running we will see the Hawk Eye icon in the Windows Taskbar at the bottom right corner of the screen as shown.




- ◆ *If you do not see this icon because it is hidden, you should set Windows to not hide the icon of PassIDform program for ease of use. Otherwise, you have to press the expansion button first. After that you can click the program icon.*
- ◆ *If during the installation you have not set the PassIDform option to run every time the system started, you need to run the program by yourself. (Click the icon on the Desktop or the Windows program menu)*

We can open the main menu of the program by using the mouse left-click at the program icon. The main menu screen looks like this:



From the picture, we will see a list of all the found readers under the **Reader** column. Under the **Scripts** column are the script files for the reader. And under the **To Form** column are the name of the forms that will be filled with data from the script.

We can change the reader name, or change the script, or select a new form by clicking the button at the end of the row.  This will open the **Choose script and form** window. Read more details at [Choose Script and Form](#).

For the **Auto read document** option, it is normally selected because when we insert the Thai ID card or put a passport on the reader, the program will read the data and work immediately. But if we do not want to read immediately, we must deselect this option. When we want to read, then press the **Read Document** button.

In the main menu screen, there are two more buttons which have the following functions.

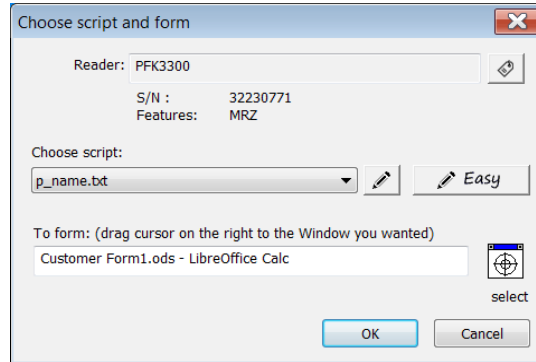


Settings For going to **Settings** window for setting program options which are the same as the first default settings described in the [PassIDform Program Installation](#).



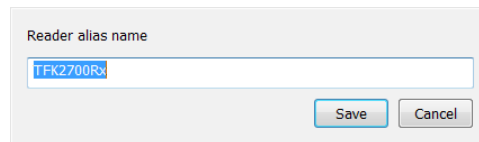
About For showing information about program version and others. Read more details at [About \(About the program\)](#)

Choose Script and Form



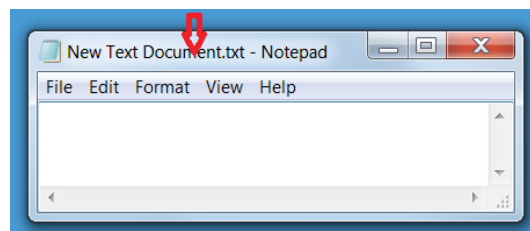
From this screen, we can configure the following:

- **Reader** Normally, if we have not set a reader name, the program will automatically set itself from the model name of the reader. But if we want a reader name that we can easily understand, just click the button at the end. Then the program will display the screen for us to set a new reader name as shown in the following picture.



By entering the reader name and pressing the **Save** button, the reader name will be changed as desired. But if you want to change the name back to the default name, you must clear the last name to blank and click **Save**. The default reader name will come back.

- **Choose script** We can select the script that matches the form you want to use. The program will display the list of script files that we have prepared in the specified folder. (Set in the settings page)
- **To form** When the user wants the program to automatically pop up the form, user must specify the form name also. Specifying the name of the form is done by specifying the Caption name or Window Name, which is the text at the top of the window of the program. We do not need to type all the characters explicitly but only the name must be identified and different from other windows.



From this picture, the form name for this form is “New Text Document.txt – Notepad”

There are 2 ways to enter name, by typing it yourself or by using a mouse. To use the mouse, you have to place the mouse cursor over the bullseye icon which has word **"select"** under that like this.



Then hold down the left-mouse button and drag the icon over the top edge of the Window you wanted. Then release the mouse button. The program will copy the Window name (or Caption) to put in the text box. This will help us not to fill it in by ourselves and prevent mistakes.


Note:

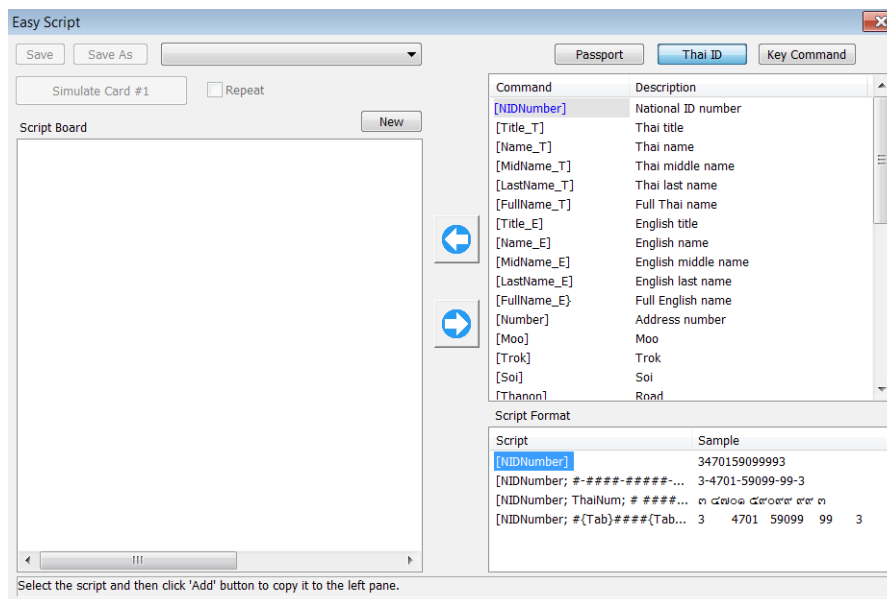
- In choosing a form, the program will only search from the opened window. It may be minimized or hidden behind. If the form program is closed (the form window is also closed). In this case, the PassIDform program cannot pop up the form. So it cannot be used.

- To prevent mistakes, we should set the option **“Wait for a mouse click before filling form”** on the **Settings** page. This will make the program stops after the form is popped up then wait for the user to click the mouse at the beginning of the form.

Creating an easy script by using Easy Script

Creating an easy script means creating a string of command line by line with one command per line. Adding or removing commands is done by line also.

Creating an easy script can be done by clicking  button within the **Choose Script and Form** window, then the program will open the Easy Script window like this:

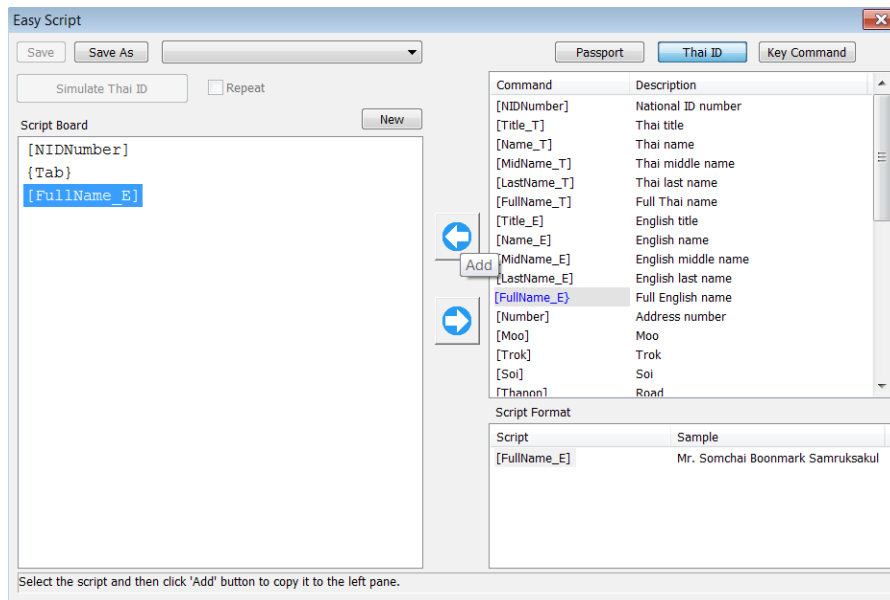


On the right of the Easy Script window above, we can see the program showing a list of commands. The command lists are divided into 3 pages, which we can be selected by pressing the buttons at the top of the table, which are as follows.

- **Passport** To show commands about reading the data from the passport.
- **Thai ID** To show commands about reading the data from the Thai ID card.

- **Key Command** To show commands about typing the keyboard.

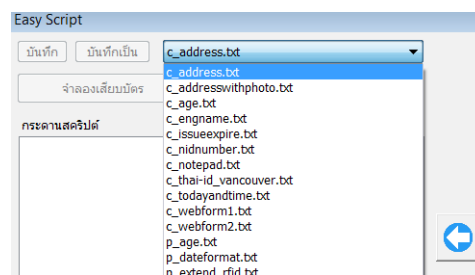
Each time we click the command, the formats of using that command will be shown in the below table. When we select the command format we wanted and then click the left arrow button, which is the ‘Add’ button, the program will copy that command format to the **Script Board** on the left and place it at the line after the cursor line.



Deleting the unwanted command line from the Script Board can be done by using mouse to select that line and then click at the right arrow button, which is the ‘Delete’ button, the program will delete that line from the Script Board immediately.

After finishing writing the script, click ‘Save As’ button to save this script to a new file as specified by the user.

To modify the existing script files, click on the desired script file like this.




When we finish editing the script, press the "Save" button to write back to the same file.

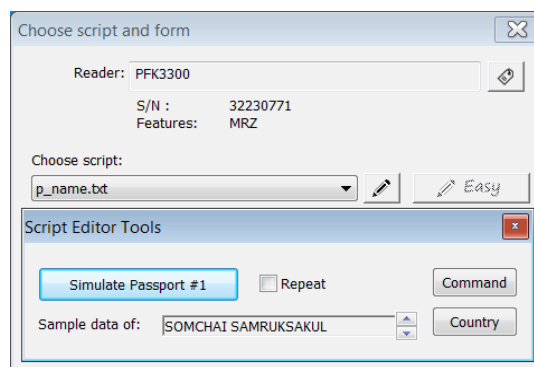
After the script file is saved successfully, we can test the script file by pressing the “Simulate Card” button. The program will load the sample data to simulate as if the data was read from the real card and then wait for the user to click on the desired form.

The “**New**” button is used when you want to start a new script. The program will clear all the current editing scripts from the “**Script Board**”.

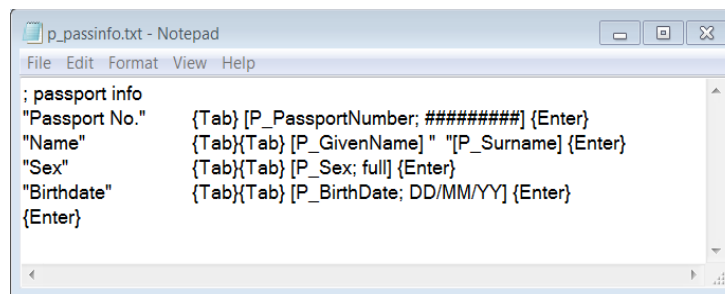
Detailed Editing Script File

For detailed editing script file, the user can edit the script file directly. So the user can write the script in any format without limitation.

By clicking the  button at the end of the selected script within the **Choose Script and Form** window, the program will open the selected script file with the Notepad program for user to edit and will also show the **Script Edit Tools** window at the bottom of the **Choose Script and Form** window like the following window:



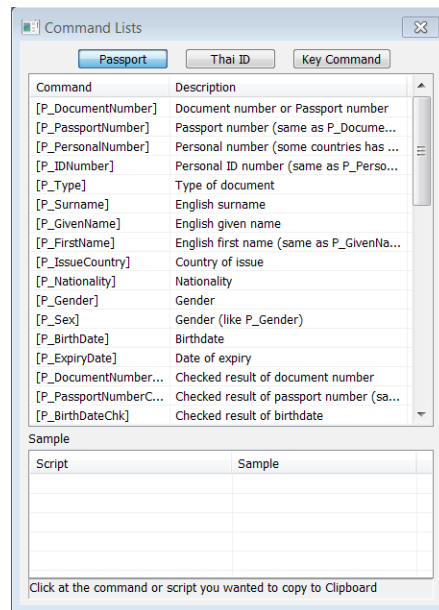
The **Script Editor Tools** window



The script open by the Notepad program

From the **Script Editor Tools** window, we can see the “**Simulate Card**” button which is used for testing the script with the prepared sample data like the “**Simulate Card**” button on the **Easy Script** window. In this window the program also shows the name of the simulating person and we can select the simulating person by using the up/down arrow buttons at the end of the name.

And to help users know how to write the script, users can browse the script commands by pressing the “**Command**” button which will display the screen like this.



The **Command Lists** above are like the command lists in the **Easy Script** window but have more commands.

Note:

On the **Script Editor Tools** window, there is another button called **Country** that will be shown when we select the script with the Passport command. It will show the Country List to help facilitate writing the country code like in **[P_IssueCountry.List]** command.

Setting Options to Save Picture Files

Normally, the name of the picture file saved from different commands always be different from others, even if the option is set to **Fixed name**. For example:

Command	For Fixed name
P_SaveFace	PassID_Face.jpg
P_SaveFaceRFID	PassID_FaceRFID.jpg
SavePhoto	PassID_Photo.jpg
P_SavePage	PassID_Page.jpg

To make the file name different between each person. On the [Settings](#) page, there are the options as follows.

- **Fixed name** For a fixed file name. The previous file will be replaced by the latest file.
- **Document Number** Use ID Number for Thai ID Card. Use passport number for passport.

- **English Name-Surname** Use English first name and then last name connected together with a '-'
- **English Surname-Name** Use English last name and then first name connected together with a '-'
- **Begin with Nationality** Use 3 character code of Nationality for passport or use THA for Thai ID Card to be the leading characters.
- **End with Date Time** Ending name with the date and time.

The last 2 options can be used together with other options. Except for the **Fixed name** option.

Sample picture file names are as follows.

ERIKA_MUSTERMANN_PageIR.jpg ;[P_SavePageIR] command, **English Name-Surname** option
 3551831436256_Photo.jpg ;[SavePhoto] command, **Document Number** option
 L898902C3_Face-180123-180109.jpg ;[P_SaveFace] command, **Document Number** option, and
End with Date Time option

About (About the program)



From this screen, we will see the version name of the program, folder for saving pictures, license information and, finally, the "**Update License**" button. This is used to update the license information to be the latest so that the program will work with the new reader we just bought. No need to download the latest version of the program to install. Before making an update, you need to check your internet connection before.

Note:

Normally, we do not need to update the license ourselves because the program automatically updates via the internet every time it is started. But if your system is not connected to the Internet all the time. You need to be connected to the Internet first, and then update it yourself.

Using Program with Administrator Controlled

In case of using PassIDform program within an organization that has an administrator who is responsible for installing and setting programs for other users to work. Other users will not be able to change the settings. In using this way, during Windows logon every users including administrator must provide with different usernames and passwords. The account type of the normal users must not be administrator, so that they can not modify the program.

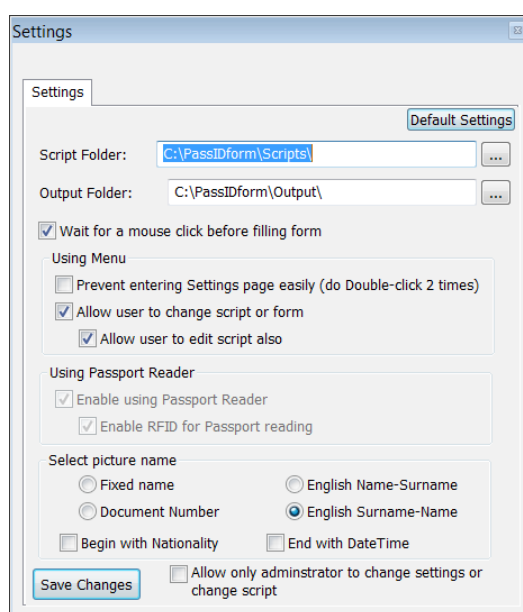
Therefore, in order to set up the PassIDform program, it must be done by an administrator or a user with an administrator privilege which can be done as follows.

1. **Exit the currently running PassIDform program.** Done by using the mouse right-click at the program icon in the Taskbar and select the Exit menu to end the program
2. **Run the PassIDform program with administrator privileges.** There are two ways to do this: First, select the menu "**PassIDform as Admin**" (done by clicking the Windows **Start** button)

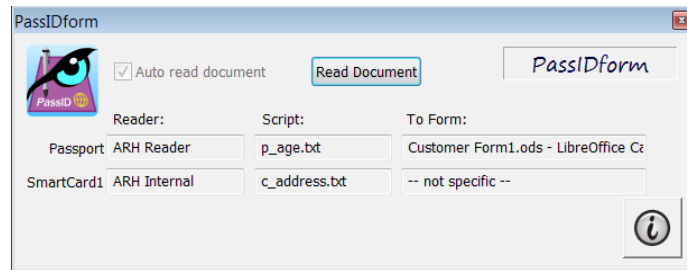
The second method is done by using the mouse right-click at the PassIDform icon on the desktop and then select "**Run as administrator**" menu. (If you do not login to Windows using administrator name, you must provide username and password of the administrator now.)

- ◆ *Begin from Windows 7, even if you logon as an administrator, the programs called up still do not have full administrator rights, because Windows has a control system called "User Account Control" to limit. So to run the PassIDform as administrator must be done by using the methods mentioned above.*

After running PassIDform with administrator privileges, the Settings screen will show as follows.



The options as seen on the Settings screen for the administrator are almost the same as for general users except the **"Allow only administrator to change settings or change script"** option which only exists for administrator. We should select this option because the settings value including the selected script, which will be used by other users, but can not be changed by users because the **Settings** button and the **Choose Script and Form** buttons will be hidden as follows.



This picture is showing the main menu of the general users which the administrator has selected the **"Allow only administrator to change settings or change script"** option before.

Writing Scripts for Reading Thai ID Cards

The script for reading Thai ID cards looks like the following examples.

Script example 1

```
; send to notepad
"เลขบัตร" [NIDNumber; #-#####-##-#] {Enter}
"ชื่อ " {Tab} [Title_T] " " [Name_T] {Tab} [LastName_T] {Enter}
"เพศ " {Tab} [Gender; ThaiChar; FFF] {Enter}
"เลขที่ " {Tab} [Number; ThaiNum] {Enter}
"ตำบล/แขวง " {Tab} [Tambon; ThaiNum] {Enter}
"อำเภอ/เขต " {Tab} [Amphoe] {Enter}
"จังหวัด" {Tab} [Changwat] {Enter}
"วันเกิด " {Tab} [BirthDate; [NatNum1][$-41E][~buddhist] วัน NNNN ที่ D MMMM GGYYYY] {Enter}
{Enter}
```

Script example 2

```
; for outlook express
[Name_E]{Tab}[MidName_E]{Tab}[LastName_E]{Tab}[Title_T]
{Ctrl}{Tab}
[Number]" "[Thanon]" "[Tambon]" "[Amphoe]{Tab}
[Changwat]{Tab}{Tab}{Tab}
"Thailand" {Ctrl}{Tab} {Ctrl}{Tab}
[Wait; 20] {Tab}{Tab}{Tab}{Tab}
[BirthDate; " "{Right}M{Right}D{Right}Y]
```

Script example 3

```
; send to calc with photo
"บัตรประชาชนเลขที่ " {Tab} [NIDNumber; ": ""#-#####-##-#"""] {Enter}
"วันเกิด " {Tab} [BirthDate; ThaiNum; [~buddhist] วัน NNNN ที่ D MMMM GGYYYY] {Enter}
"อายุ " {Tab} [Age; Y] ปี "M" เดือน" {Enter}
"ชื่อ (ไทย)" {Tab} [Title_T] " " [NAME_T] {Tab} [SURNAME_T] {Enter}
"รูป" {Tab} [Photo] {Esc} {Enter}
```

Writing Script Explanation

- The script is a Text File with many lines and ending each line by just pressing Enter
- The command in square brackets [...] is used for printing data from the document (Thai ID card or passport), such as [Name_E], or other commands such as [Wait; 20] etc.
- The command in braces {} is a keystroke command to press keyboard directly such as {Enter}, {Tab}, etc.
- The text in quotation marks "" is the text that will be printed directly, such as "name".
- ';' in front of any message is considered a comment and the program will skip working from behind ';' to the end of the line.

- Any text beyond those marks will not be interpreted as a command and can be used as a comment also.

Command for Reading Thai ID Cards

Command Format

[Command; Parameters; Format]

Command is a command for reading card information, or other command

Parameters are command extensions which may be present or not present. If none is present, the default value will be used. If there are more than one value, separate each value by a ','

Format is the printing format. It is a string with special characters which may include some texts or some keyboard commands.

If the command does not contain any parameters, we don't have to put a ';' at the end of the command.

Command Description

Command	Meaning
[NIDNumber]	National ID number
[Title_T]	Thai title
[Name_T]	Thai name
[MidName_T]	Thai middle name
[LastName_T]	Thai last name
[FullName_T]	Full Thai Name
[Title_E]	English title
[Name_E]	English name
[MidName_E]	English middle name
[LastName_E]	English last name
[FullName_E]	Full English Name
[Number]	Address number
[Moo]	Moo
[Trok]	Trok (Alley)
[Soi]	Soi (Alley)
[Thanon]	Road
[Tambon]	Subdistrict
[Amphoe]	District
[Changwat]	Province
[Address]	Address
[PostCode]	Postal Code, ZIP code
[Gender]	Gender

[Sex]	
[BirthDate]	Birthdate
[IssuePlace]	Place of issue
[IssueDate]	Date of issue
[ExpiryDate]	Date of expiry
[Photo]	Read photo from card to clipboard then press Ctrl-V
[SavePhoto]	Save photo from card to file
[Changwat.List]	List of province
[Changwat.Num]	Order of Changwat in the list of province
[Title_T.List]	List of Thai title
[Title_T.Num]	Order of Title_T in the list of Thai title
[Title_E.List]	List of English title
[Title_E.Num]	Order of Title_E in the list of English title
[Gender.Num] [Sex.Num]	1=male, 2=female, 3=unspecified
[Today]	Present date
[Time]	Present time
[Age]	Age
[KeyDelay]	Delay after each key in ms
[Wait]	Wait for ms

All commands can be divided into groups as follows.

1. Command Group - Number

NIDNumber Thai ID card number

Parameter: *optional*

ThaiNum Show Thai numbers

Format: *optional*

Represents each digit. Other characters will be filled as typed

Example:

Script	Result
[NIDNumber; #-#####-##-#]	3-4701-59099-99-3
[NIDNumber; ThaiNum; # ##### ## #]	๓ ๔๗๐๑ ๕๙๐๙๙ ๙๙ ๓
[NIDNumber; #{Tab}#####{Tab}##{Tab}#]	3 4701 59099 99 3

2. Command Group - Name

Title_T Thai title

Name_T Thai name

MidName_T Thai middle name

LastName_T Thai last name

FullName_T Full Thai name

Title_E English title

Name_E English name

MidName_E English middle name

LastName_E English last name

FullName_E Full English name

Parameter: WithSpace Add 1 space at the end

Blank="String" Text will be displayed if data is blank (rather than leave it empty)

Format: *none*

Example:

Script	Result
[Name_E]	Somchai
[Title_T] [Name_T; WithSpace] [LastName_T]	นายสมชาย สามัคคีผล
[FullName_T]	นายสมชาย บุญมาก สามรักสกุล
[FullName_E]	Mr. Somchai Boonmark Samruksakul

3 Command Group - Address

Number Address number

Moo Moo

Trok Trok (Alley)

Soi Soi (Alley)

Thanon Road

Tambon Subdistrict

Amphoe District

Changwat Province

Address Address

PostCode Postal Code, ZIP code

Parameter: ThaiNum Show Thai numbers

 Prefix Show a brief prefix such as ต. (for Tambon), ซ. (For Soi)

 PrefixLong Show long prefixes such as ตำบล (for Tambon) etc.

 Blank="String" Text will be displayed if data is blank (rather than leave it empty)

 KorTorMor Only for [Changwat] command to show "กทม." instead of "กรุงเทพมหานคร"

 WithSpace Add 1 space at the end

For "กรุงเทพมหานคร", it is always never preceded by "จังหวัด" or "จ." And will use prefixes as "แขวง" and "เขต" for Tambon and Amphoe in Bangkok, regardless of whether the parameters are Prefix or PrefixLong.

For [Trok], there will always be only Prefix and PrefixLong as "ตรอก"

Format: none

Example:

Script	Result
[Number]	123/45
[Moo; Prefix; ThaiNum]	ม.๗
[Trok; Prefix]	ตรอกสว่างจิตร์
[Amphoe; Prefix]	เขตห้วยขวาง
[Changwat; KorTorMor]	กทม.
[Soi; Prefix; Blank="ไม่มี"]	ช.สบายใจ หรือ ไม่มี
[Number; WithSpace][Moo; Prefix; WithSpace] [Trok; Prefix; WithSpace][Soi; Prefix]	123/45 ม.7 ตรอกสว่างจิตร์ ช.สบายใจ
[Address; Prefix; WithSpace] [PostCode]	77/11 ม.7 ตรอกสว่างจิตร์ ช.สบายใจ ถ.สุทธิสาร แขวงสามเสนนอก เขตห้วยขวาง กรุงเทพมหานคร 10310
[PostCode]	10310

4. Command Group - Gender

Gender/Sex Gender

Parameter: *optional*

ThaiChar Show Thai characters such as Thai day or Thai month

Format: *optional* If no format, it will be abbreviated as "M", "F", "X" (English) or "♂", "♀", "-" (Thai)

F Use "M", "F", "X" for English or "♂", "♀", "-" for Thai

F. Use "M.", "F.", "X." For English or "♂.", "♀.", "-" for Thai

Full Show Male, Female, Unspecified. FFF can be used instead.

"01" Print "0" for male, "1" for female (print nothing if Gender is unspecified)

"123" Print "1" for male, "2" for female, "3" for unspecified

Example:

Script	Result
[Gender; F]	M
[Sex; Full]	Male
[Gender; ThaiChar; FFF]	ชาย
[Gender; "12"]	1

5. Command Group - Date

BirthDate Birthdate

IssueDate Date of issue

ExpiryDate Date of expiration

Parameter: *optional*

ThaiChar Show Thai characters such as Thai day or Thai month

ThaiNum Show Thai numbers (and also Thai characters)

Format: *optional* If not exists, format is "YYMMDD".

See more details at [Format of Date and Time](#).

6. Command Group - Other Information

IssuePlace Place of issue

Parameter: *none*

Format: *none*

7. Command Group - Paste Picture via Clipboard

Photo Paste the face photo from the Thai ID card

Parameter: *none*

Format: *optional*

XmmmmYnnnn Set the size in pixels, mmmm px in width, nnnn px in height

 If only X or Y exists, the program will automatically calculate the remaining value.

Wm.mmHn.nn Set the size in inches with 2 decimal places, m.mm inches in width, n.nn inches in height. Maximum is 9.99 inches. If only W or H exists, the program automatically calculates the remaining values.

Example:

Script	Result
[Photo; X200Y250]	paste a face photo with the size of 200 X 250 pixels
[Photo; X150]	paste a face photo 150 pixels wide
[Photo; H0.82]	paste a face photo 0.82 inches high
[Photo; W0.7H1.2]	paste a face photo 0.7 inches wide, 1.2 inches high

8. Command Group - Save Picture Files

SavePhoto Save face photo file from the Thai ID card

Parameter: *none*

Format: *none*

9. Command Group - Create Table Lists

Changwat.List Create a table list of provinces for using with the [Changwat.Num] command

Title_T.List Create a table list of Thai Title, for using with the [Title_T.Num] command

Title_E.List Create a table list of English Title, for using with the [Title_E.Num] command

Parameter: List of data and separate each item with a comma

Format: *none*

Example: [Title_T.List; นาย,นาง,น.ส.]

10. Command Group - Numeric Variables

Sex.Num/Gender.Num 1 = male, 2 = female, 3 = unspecified

Changwat.Num Variable of order of province name in the table from [Changwat.List] with value begin from 1

Title_T.Num Variable of order of Thai Title in the table from [Title_T.List]

Title_E.Num Variable of order of Thai Title in the table from [Title_E.List]
 BirthDate.D, BirthDate.M, BirthDate.Y
 IssueDate.D, IssueDate.M, IssueDate.Y
 ExpiryDate.D, ExpiryDate.M, ExpiryDate.Y
 Today.D, Today.M, Today.Y
 Age.D, Age.M, Age.Y

Variable values of day, month, and year from BirthDate, IssueDate, ExpiryDate, Today, and Age

.D is the date number or number of days with value of 0 to 31

.M is the month number or the number of months with value of 0 to 12

.Y is the AD year or number of years with value of 0 to 9999

These numeric variables are used with the keyboard command, to control how many times to press the key. See more details at [Conditional Keystrokes](#).

11. Command Group - Special Commands

KeyDelay Delay time of each character entered in ms (1/1000 seconds). If not specified, 0 ms will be used.

Wait To wait in ms (1/1000 seconds)

Parameter: nnnn Waiting time in ms (1/1000 seconds)

Format: *none*

Example: [KeyDelay; 50] Delay 50 ms for each character

[Wait; 2000] Wait for 2000 ms (equals 2 seconds) and then proceed to the next command

Today Today's date

Parameter: *optional*

ThaiChar Show Thai characters such as Thai day or Thai month

ThaiNum Show Thai numbers (and also Thai characters)

Format: *optional* If not exists, format is "YYMMDD"

See more details at [Format of Date and Time](#)

Time Current time

Parameter: *optional*

ThaiNum Show Thai numbers (and also Thai characters)

Format: *optional* If not exists, use the "HH:MM" format

See more details at [Format of Date and Time](#)

Age Age

Parameter: *optional*

ThaiNum Show Thai numbers

Format: D Show Days 1-31 or ๑-๓๑ (ThaiNum)

M Show 1-12 or ๑-๑๒ months (ThaiNum)

Y Show year 0-999 or ๐-๙๙๙ (ThaiNum)

Example: [Age; Y]

[Age; ThaiNum; Y “Year” M “Month”]

Format of Date and Time

Format of date and time is similar to date and time formats used in spreadsheet program, such as Calc or Excel, so most formats can be copied into scripts.

Date Format

For a command about a date (excluding the Time command), the following variables can be used:

D	Show 1-31 or ๑-๓๑ (ThaiNum)
DD	Show 01-31 or ๐๑-๓๑ (ThaiNum)
M	Show 1-12 or ๑-๑๒ months (ThaiNum)
MM	Show 01-12 or ๐๑-๑๒ (ThaiNum)
MMM	Show Jan-Dec or (ThaiChar)
MMMM	Show January-December or January-December (ThaiChar)
YY	Show year 00-99 or ๐๐-๙๙ (ThaiNum)
YYYY	Show 1900-9999 or ๑๙๐๐-๙๙๙๙ (ThaiNum)
NN	Show Sun-Sat or ๐๑.-๐๗. (ThaiChar)
NNNN	Show Sunday-Saturday or ๐๑ที่ติดย-๐๗ที่ติดย (ThaiChar)
GG	Show the word 'ค.ศ.' or 'พ.ศ.'

There are also special prefixes like

[~buddhist]	Show in BD year (normally is the AD year)
[NatNum1][\$-41E]	Show Thai numbers (and Thai characters)

For example

Script	Result
[BirthDate; ThaiNum; DD/MM/YY]	๐๕/๑๑/๑๒
[BirthDate; ThaiChar; D MMM YYYY]	05 พ.ย. 2012
[BirthDate; ThaiChar; [~buddhist]วัน NNNN ที่ D MMMM YYYY]	วันจันทร์ที่ 5 พฤศจิกายน 2555

Time Format

For command about time, it has the following variables:

HH	Show hours 0-23 or 1-12 (with AM/PM)
MM	Show minutes 0-59
SS	Show seconds 0-59
AM/PM	Show AM or PM

For example

Script	Result
[Time; HH:MM u.]	13:37 u.
[Time; ThaiNum; HH:MM:SS]	๑๓:๓๗:๔๖
[Time; HH:MM:SS AM/PM]	01:37:46 PM

Keyboard Commands

Beside the command as mentioned above, you may also need to control the cursor to move to the next position or press another key on the keyboard. This is done by using the Keyboard command to press the keyboard key. The format of the command is a command key under braces { } as follows.

Command	Meaning
{Up}	Press Up key
{Down}	Press Down key
{Left}	Press Left key
{Right}	Press Right key
{Home}	Press Home key
{End}	Press End key
{PgUp}	Press PgUp key
{PgDn}	Press PgDn key
{Tab}	Press Tab key
{Enter}	Press Enter key
{Esc}	Press Esc key
{Sp}	Press Space key
{Space}	Press Space key
{BS}	Press Backspace key
{BKSP}	Press Backspace key

Command	Meaning
{Del}	Press Delete key
{Ins}	Press Insert key
{Ctrl}	Press Ctrl key
{Alt}	Press Alt key
{Shift}	Press Shift key
{WinKey}	Press Win key
{F1} ถึง {F12}	Press F1 to F12 key
{NumLock}	Press Num Lock key
{Scroll}	Press Scroll Lock key
{Break}	Press Break key
{Add}	Press Keypad +
{Subtract}	Press Keypad -
{Multiply}	Press Keypad *
{Divide}	Press Keypad /

If to press key more than once is required, you can specify the number of times after the command with a space in between, for example, {Del 9} will press Del key 9 times, or {Shift} {Tab 13} will hold down Shift key and press Tab 13 times.

Caution, if you use {Ctrl}"F", the result is equal to {Ctrl} {Shift}"f" because uppercase F is to hold

down Shift key while f is pressed. So if you do not want to press the Shift key, you must use lowercase f.

Conditional Keystrokes

In case you need to fill out a form with a menu selection which is not a fill in the blank like in the past, such as a gender selection of "ชาย" (male) or "หญิง" (female) as shown below.

เพศ : ☒ ชาย ☐ หญิง

In this case, if you choose the "หญิง" (female) option, you have to press the Right Arrow key once. If you choose the "ชาย" (male) option, you do not have to press any key. Then go to the next field by pressing the Tab key. To do this, you have to use data as a variable. It is then converted to a number for the number of keystrokes.

Data as variables are those explained in the group "Numerical variable" such as [Gender.Num], and so on. We can enter a mathematical equation using the plus, minus, multiplication, division signs including parentheses (). For example

Script	Meaning
{Right Gender.Num-1}	Press the right arrow key zero times for "ชาย"(male) and one time for "หญิง"(female)
{Down BirthDate.D-1}	Press the down arrow key according to the day of BirthDate minus 1
{Down BirthDate.Y+(543-2480+1)}	Year of birth is converted to BD year(plus 543), subtracted by 2480, plus 1 (the table starts from 2480), used as a number of times to press Down key.
[Title_T.List; นาย,นาง,น.ส.] {Right Title_T.Num-1}	Defines the Title_T.List table and then presses the right arrow key according to the order of Title_T in the table minus 1.

Script example with conditional keystrokes

Script example 4

; web form 1

[Changwat.List; กระบี่,กรุงเทพมหานคร,กาญจนบุรี,กาฬสินธุ์,กำแพงเพชร,ขอนแก่น,จันทบุรี,ฉะเชิงเทรา,ชัยนาท,ชัยภูมิ,ชุมพร,ชลบุรี,เชียงใหม่,เชียงราย,ตรัง,ตราด,ตาก,นครนายก,นครปฐม,นครพนม,นครราชสีมา,นครศรีธรรมราช,นครสวรรค์,นราธิวาส,น่าน,นนทบุรี,บุรีรัมย์,ประจวบคีรีขันธ์,ปทุมธานี,ปราจีนบุรี,ปัตตานี,พะเยา,พระนครศรีอยุธยา,พังงา,พิจิตร,พิษณุโลก,เพชรบุรี,เพชรบูรณ์,แพร่,พัทลุง,ภูเก็ต,มหาสารคาม,มุกดาหาร,แม่ฮ่องสอน,ยโสธร,ยะลา,ร้อยเอ็ด,ระนอง,ระยอง,ราชบุรี,ลพบุรี,ลำปาง,ลำพูน,เลย,ศรีสะเกษ,สกลนคร,สงขลา,สมุทรสาคร,สมุทรปราการ,สมุทรสงคราม,สระแก้ว,สระบุรี,สิงห์บุรี,สุโขทัย,สุพรรณบุรี,สุราษฎร์ธานี,สุรินทร์,สตูล,หนองคาย,หนองบัวลำภู,อำนาจเจริญ,อุดรธานี,อุตรดิตถ์,อุทัยธานี,อุบลราชธานี,อ่างทอง,อื่น ๆ]

[Title_T]" "[Name_T]" "[LastName_T] {Tab}
{Down BirthDate.D-1} {Tab}
{Down BirthDate.M-1} {Tab}
{Down BirthDate.Y+543-2480+1} {Tab}

```
[Age; Y] {Tab}
{Right Gender.Num-1} {Tab}
{Tab} ; picture
[Number]" "[Moo; Prefix]" "[Soi; Prefix]" "[Tambon; Prefix] {Tab}
[Amphoe; Prefix] {Tab}
{Down Changwat.Num} {Tab}
```

From the example, you will see the [Changwat.List] command , which is the data table of provinces. This is a very long command with many lines of text and enclosed with]

Selecting a province by using {Down Changwat.Num} which will select the province by pressing the Down key in the order of that province in the table.

Script example 5

```
; web form2

[Title_T.List; นาย,นาง,น.ส.]

[NIDNumber; #####] {Tab}
{Right Title_T.Num-1} {Tab}
[NAME_T] {Tab} [LastName_T] {Tab}
[Name_E] {Tab} [LastName_E] {Tab}
```

From the example, the [Title_T.List] command, which is the data table of Thai Title. This will be used in the command {Right Title_T.Num-1} to select the data by pressing the Right key.

Writing Scripts for Reading Passports

The script for reading passports looks like the following examples.

Script example 1

```
; age
"Name"    {Tab} [P_GivenName] " "[P_Surname] {Enter}
"Age"     {Tab} [Age; Y" years "M" months"] {Enter}
"Birthdate" {Tab} [P_BirthDate; NN D MMM YYYY] {Enter}
{Enter}
```

Script example 2

```
; script for showing on Calc

"Passport No. " {Tab} [P_PassportNumber;#####] {Enter}
"Name          " {Tab} [P_GivenName] {Enter}
"Surname       " {Tab} [P_Surname] {Enter}
[P_Face; X100] {Esc} {Tab}
[P_Page; X300] {Esc} {Tab} {Tab} {Tab}
[P_PageIR; W3.0] {Esc} {Tab} {Tab} {Tab}
```

Writing Script Explanation

- The script is a Text File with many lines and ending each line by just pressing Enter
- The command in square brackets [...] is used for printing information from a document (Thai ID card or passport), such as [Name_E], or other commands such as [Wait; 20] etc.
- The command in braces {} is a keystroke command to press keyboard directly such as {Enter}, {Tab}, etc.
- The text in quotation marks "" is the text that will be printed directly, such as "name".
- ';' in front of any message is considered a comment and the program will skip working from behind ';' to the end of the line.
- Any text beyond those marks will not be interpreted as a command and can be used as a comment also.

Command for Reading Passports

Command Format

[Command; Parameters; Format]

Command is a command for reading card information, or other command

Parameter are command extensions which may be present or not present. If none is present, the default value will be used. If there are more than one value, separate each value by a ','

Format is the printing format. It is a string with special characters which may include some texts or

some keyboard commands.

If the command does not contain a parameter, we don't have to put a ';' at the end of the command.

Command Description

Command	Meaning
[P_DocumentNumber] [P_PassportNumber]	Document number or Passport number
[P_PersonalNumber] [P_IDNumber]	Personal number (some countries has no data)
[P_Type]	Type of document
[P_Surname]	English surname
[P_GivenName] [P_FirstName]	English given name
[P_FullName]	Full English Name
[P_IssueCountry]	Country of issue
[P_Nationality]	Nationality
[P_Gender] [P_Sex]	Gender
[P_BirthDate]	Birthdate
[P_ExpiryDate]	Date of expiry
[P_DocumentNumberChk] [P_PassportNumberChk]	Checked result of document number
[P_BirthDateChk]	Checked result of birthdate
[P_ExpiryDateChk]	Checked result of expiry date
[P_PersonalNumberChk] [P_IDNumberChk]	Checked result of Personal Number
[P_TotalChk]	Checked result of all
[P_Face]	Place face picture (auto select)
[P_FaceW]	Place face picture (White)
[P_FaceRFID]	Place face picture (RFID)
[P_Page] [P_PageW]	Place document page (White)
[P_PageIR]	Place document page (Infrared)
[P_PageUV]	Place document page (Ultraviolet)
[P_SaveFace]	Save face picture (auto select)
[P_SaveFaceW]	Save face picture (White)
[P_SaveFaceRFID]	Save face picture (RFID)
[P_SavePage] [P_SavePageW]	Save document page (White)
[P_SavePageIR]	Save document page (Infrared)

[P_SavePageUV]	Save document page (Ultraviolet)
[P_MRZ1]	MRZ data line 1
[P_MRZ2]	MRZ data line 2
[P_IssueCountry.List]	List of country of issue
[P_IssueCountry.Num]	Order of P_IssueCountry in list of country of issue
[P_Nationality.List]	List of nationality
[P_Nationality.Num]	Order of P_Nationality in list of nationality
[P_Gender.Num] [P_Sex.Num]	1=male, 2=female, 3=unspecified
[P_Type.Num]	1=passport, 2=visa, 3=others
[P_MRZRFID]	MRZ data (RFID)
[P_BirthPlaceRFID]	Birth place (RFID)
[P_TitleRFID]	Title (RFID)
[P_AuthorityRFID]	Authority (RFID)
[P_IssueDateRFID]	Date of issue (RFID)
[P_AddressRFID]	Address (RFID)
[P_TelephoneRFID]	Telephone (RFID)
[P_ProfessionRFID]	Profession (RFID)
[P_SurnameTRFID]	Thai surname (RFID)
[P_GivenNameTRFID] [P_FirstNameTRFID]	Thai given name (RFID)
[P_TitleTRFID]	Thai title (RFID)
[P_TitleTRFID.List]	List of Thai title
[P_TitleTRFID.Num]	Order of P_TitleTRFID in the list of P_TitleTRFID.List
[P_HeightTRFID]	Height (centimetres)
[Today]	Present date
[Time]	Present time
[Age]	Age
[KeyDelay]	Delay after each key in ms
[Wait]	Wait for ms

All commands can be divided into groups as follows.

1. Command Group - Number

P_DocumentNumber Document Number or Passport Number which composed of letters or numbers

P_PassportNumber Passport number (like P_DocumentNumber)

P_PersonalNumber Personal number which composed of letters or numbers. Some countries may not have this information.

P_IDNumber ID Number (like P_PersonalNumber)

Parameter: *optional*

ThaiNum Show Thai numbers

Blank="String" Text will be displayed if data is blank (rather than leave it empty)

Format: *optional*

represents each digit, other characters will be filled as typed

Example:

Script	Result
[P_DocumentNumber]	A12345678
[P_PersonalNumber; #####-####-####-####]	3721-1709-6034-2768
[[P_DocumentNumber;ThaiNum;# # # # # # # #]	A ๑ ๒ ๓ ๔ ๕ ๖ ๗ ๘

2. Command Group - Document Type

P_Type Document Type, not more than 2 characters

Parameter: *none*

Format: *optional*

Full Shown in full name, "Passport type Px" and "Visa type Vx". Other type code like A, C, I will be shown as "Document type Xx".

Example:

Script	Result
[P_Type]	P or VX
[P_Type; full]	Passport type PD

3 Command Group - Name

P_Surname English surname or last name

P_GivenName English first name or given name

P_FirstName English first name (like P_GivenName)

P_FullName Full English Name

Parameter: **WithSpace** Add 1 space at the end
 Blank="String" Text will be displayed if data is blank (rather than leave it empty)

Format: *none*

Example:

Script	Result
[P_GivenName; WithSpace] [P_Surname]	ERIKA MUSTERMANN
[P_FullName]	ERIKA MUSTERMANN

4. Command Group - Country

P_IssueCountry Country of origin, 3 character country codes as defined by ICAO

P_Nationality Nationality, 3 character country codes, as defined by the ICAO

Parameter: *none*

Format: *optional*

Full Shown in full name of the country

People for [P_Nationality] command, to show Nationality in English

Example:

Script	Result
[P_IssueCountry]	SWE, THA
[P_Nationality;Full]	Sweden, Thailand
[P_Nationality;Full;People]	Swedish, Thai
[P_Nationality;People]	Swedish, Thai

Parameter "People" can be used with or without parameter "Full". But using together will make the script compatible with the previous version program.

5. Command Group - Gender

P_Gender/P_Sex Gender

Parameter: *optional*

ThaiChar Show Thai characters such as Thai day or Thai month

Format: *optional* If no format, it will be abbreviated as "M", "F", "X" (English) or "♂", "♀", "-" (Thai)

F Use "M", "F", "X" for English or "♂", "♀", "-" for Thai

F. Use "M.", "F.", "X." For English or "♂.", "♀.", "-" for Thai

Full Show Male, Female, Unspecified. FFF can be used instead.

"01" Print "0" for male, "1" for female (prints nothing if Gender is unspecified)

"123" Print "1" for male, "2" for female, "3" for unspecified

Example:

Script	Result
[P_Gender]	M or F
[P_Gender; ThaiChar; Full]	ชาย
[P_Sex; "012"]	0 or 1 or 2

6 Command Group - Date

P_BirthDate Birthdate

P_ExpiryDate Date of expiration

Parameter: *optional*

ThaiChar Show Thai characters such as Thai day or Thai month

ThaiNum Show Thai numbers (and also Thai characters)

Format: *optional* If not exists, format is "YYMMDD".

See more details at [Format of Date and Time](#)

7. Command Group - Data Verification

P_DocumentNumberChk Document Number verification result

P_PassportNumberChk Passport Number verification result (like P_DocumentNumberChk)

P_BirthDateChk Birthdate verification result

P_ExpiryDateChk Expiration date verification result

P_PersonalNumberChk Personal Number verification result

P_TotalChk Verification result of all document

Parameter: *none*

Format: *yes*

"TrueText", "FalseText" when TrueText is the text that will be displayed when the verification result is valid, and FalseText is the text that will be displayed when the verification result is incorrect.

Format:

Script	Result
[P_DocumentNumberChk;"T","F"]	T or F
[P_ExpiryDateChk; "1","0"]	1 or 0
[P_PersonalNumberChk; "True","False"]	True or False
[P_TotalChk; "Correct","Wrong"]	Correct or Wrong

8. Command Group - Paste Pictures via Clipboard.

P_Face	Paste the photo file with the automatic selection from RFID chip (P_FaceRFID) or data page taken with white light (P_FaceW), respectively
P_FaceW	Paste the face photo taken with the white light
P_FaceRFID	Paste the face photo read from the RFID chip
P_Page	Paste the document page picture taken with the white light
P_PageW	Paste the document page picture taken with the white light (same as P_Page)
P_PageIR	Paste the document page picture taken with IR
P_PageUV	Paste the document page picture taken with UV
Parameter:	<i>none</i>
Format :	If there is no format, it will paste with the original size XmmmmYnnnn Set the size in pixels, mmmm px in width, nnnn px in height If only X or Y exists, the program will automatically calculate the remaining value. Wm.mmHn.nn Set the size in inches with 2 decimal places, m.mm inches in width, n.nn inches in height. Maximum is 9.99 inches. If only W or H exists, the program automatically calculates the remaining values.

- Note:**
- P_FaceRFID command can be used only with the reader which supports RFID
 - P_PageUV command can be used only with the reader which supports UV
 - P_FaceW, P_PageW, P_PageIR command can be used only with the reader which can read document page (**PFK3300, PFK3300R and PFK3302R2S cannot**)

Example:

Script	Result
[P_Face]	pastes a face photo in the original size
[P_Face; X200 Y250]	pastes a face photo with 200 X 250 pixels
[P_Page;X1500]	pastes the document page 1500 pixels wide
[P_Page; H0.82]	pastes the document page 0.82 inches high
[P_PageIR;W3.5H4.5]	pastes the document page picture taken with IR, 3.5 inches wide, 4.5 inches high

9. Command Group - Save Picture Files

P_SaveFace	Save the photo file with the automatic selection from RFID chip (P_FaceRFID) or data page taken with the white light (P_FaceW), respectively
P_SaveFaceW	Save the face photo taken with the white light
P_SaveFaceRFID	Save the face photo read from the RFID chip
P_SavePage	Save the document page picture taken with the white light
P_SavePageW	Work like P_SavePage

P_SavePageIR Save the document page picture taken with IR
P_SavePageUV Save the document page picture taken with UV

Parameter: *none*

Format: *none*

Note: - P_SaveFaceRFID command can be used only with the reader which supports RFID
- P_SavePageUV command can be used only with the reader which supports UV
- P_SaveFaceW, P_SavePageW, P_SavePageIR command can be used only with the reader
which can read document page (**PFK3300 and PFK3300R cannot**)

10. Command Group - Raw Data

P_MRZ1 MRZ data line 1

P_MRZ2 MRZ data line 2

Parameter: *none*

Format: *none*

Example: [P_MRZ1] Print MRZ line 1
 [P_MRZ2] Print MRZ line 2

11. Command Group - Create Table Lists

P_IssueCountry.List Create a table list of country of issue for using with the [P_IssueCountry.Num]
command

P_Nationality.List Create a table list of nationality for using with the [P_Nationality.Num] command

Parameter: List of 3 character country codes as defined by ICAO with comma separated

Format: *none*

Example: [P_IssueCountry.List;THA,CHN,JPN] ; table list of country of issue
 [P_Nationality.List;AUS,CAN,D,EGY,IND,THA] ; table list of nationality

12. Command Group - Numeric Variables

P_Sex.Num/

P_Gender.Num 1 = male, 2 = female, 3 = unspecified

P_Type.Num 1 = Passport, 2 = Visa, 3 = Other Documents

P_IssueCountry.Num Variable of order of P_IssueCountry in the table from [P_IssueCountry.List] with value
begin from 1

P_Nationality.Num Variable of order of P_Nationality in the table from [P_Nationality.List] with value
begin from 1

P_BirthDate.D, P_BirthDate.M, P_BirthDate.Y

P_ExpiryDate.D, P_ExpiryDate.M, P_ExpiryDate.Y

Today.D, Today.M, Today.Y

Age.D, Age.M, Age.Y

Variable values of day, month, and year from BirthDate, IssueDate, ExpiryDate, Today, and Age

.D is the date number or number of days with value of 0 to 31

.M is the month number or the number of months with value of 0 to 12

.Y is the AD year or number of years with value of 0 to 9999

These numeric variables are used with the keyboard command, to control how many times to press the key. See more details at [Conditional Keystrokes](#)

13. Command Group - Special Commands

KeyDelay Delay time of each character entered in ms (1/1000 seconds). If not specified, 0 ms will be used.

Wait To wait in ms (1/1000 seconds)

Parameter: nnnn Waiting time in ms (1/1000 seconds)

Format: none

Example: [KeyDelay; 50] Delay 50 ms for each character

[Wait; 2000] Wait for 2000 ms (equals 2 seconds) and then proceed to the next command

Today Today's date

Parameter: optional

ThaiChar Show Thai characters such as Thai day or Thai month

ThaiNum Show Thai numbers (and also Thai characters)

Format: Optional If not exists, format is "YYMMDD".

See more details at [Format of Date and Time](#)

Time Current time

Parameter: optional

ThaiNum Show Thai numbers (and also Thai characters)

Format: optional If not exists, use the "HH:MM" format.

See more details at [Format of Date and Time](#)

Age Age

Parameter: optional

ThaiNum Show Thai numbers

Format: D Show Days 1-31 or ๑-๓๑ (ThaiNum)

M Show 1-12 or ๑-๑๒ months (ThaiNum)

Y Show year 0-999 or ๐-๙๙๙ (ThaiNum)

Example: [Age; Y]

[Age; ThaiNum; Y “Year” M “Month”]

14. Commands for the Passport Reader that can read RFID

P_MRZRFID MRZ data from RFID (no Parameter and Format)

P_BirthPlaceRFID Place of birth read from RFID (no Parameter and Format)

P_TitleRFID Title read from RFID (no Parameter and Format)

P_AuthorityRFID Authority read from RFID (no Parameter and Format)

P_IssueDateRFID Date of issue read from RFID (same Parameter and Format like P_BirthDate)

P_TitleRFID.List Create a table list of Title for using with the [P_TitleRFID.Num] command

P_TitleRFID.Num Variable of order of P_TitleRFID in the table from [P_TitleRFID.List] with value begin from 1

P_IssueDate_RFID.D, P_IssueDate_RFID.M, P_IssueDate_RFID.Y Variable values of day, month, and year

P_AddressRFID Address (no Parameter and Format, the passport of some countries no have this data)

P_TelephoneRFID Telephone (no Parameter and Format, the passport of some countries no have this data)

P_ProfessionRFID Profession (no Parameter and Format, the passport of some countries no have this data)

15. Commands for reading RFID from Thai Passports only

(only supported models, new Thai Passports do not have these data)

P_SurnameTRFID Thai surname

P_GivenNameTRFID Thai given name

P_FirstNameTRFID Thai first name (like P_GivenNameTRFID)

P_TitleTRFID Thai title

P_TitleTRFID.List Create a table list of Thai Title for using with the [P_TitleTRFID.Num] command

P_TitleTRFID.Num Variable of order of P_TitleTRFID in the table from [P_TitleTRFID.List] with value begin from 1

P_HeightTRFID Height (centimetres)

Parameter: *optional*

ThaiNum Show Thai numbers

Format: *optional*

Show in metres unit

Show in centimetres unit

Example: [P_HeightTRFID]

[P_HeightTRFID; ThaiNum; #.##]

Format of Date and Time

Format of date and time is similar to date and time formats used in spreadsheet program, such as Calc or Excel, so most formats can be copied into scripts.

Date Format

For a command about a date (excluding the Time command), the following variables can be used:

D	Show 1-31 or ๑-๓๑ (ThaiNum)
DD	Show 01-31 or ๐๑-๓๑ (ThaiNum)
M	Show 1-12 or ๑-๑๒ months (ThaiNum)
MM	Show 01-12 or ๐๑-๑๒ (ThaiNum)
MMM	Show Jan-Dec or (ThaiChar)
MMMM	Show January-December or January-December (ThaiChar)
YY	Show year 00-99 or ๐๐-๙๙ (ThaiNum)
YYYY	Show 1900-9999 or ๑๙๐๐-๙๙๙๙ (ThaiNum)
NN	Show Sun-Sat or ๑.-๗. (ThaiChar)
NNNN	Show Sunday-Saturday or อาทิตย์-เสาร์ (ThaiChar)
GG	Show the word 'ค.ศ.' or 'พ.ศ.'

There are also special prefixes like

[~buddhist] Show in BD year (normally is the AD year)
[NatNum1][\$-41E] Show Thai numbers (and Thai characters)

For example

Script	Result
[P_BirthDate; DD/MM/YY]	05/11/12
[P_BirthDate; ThaiChar; D MMM YYYY]	05 พ.ย. 2012
[P_ExpiryDate; NNNN D MMMM YYYY]	Tuesday 31 October 2017

Time Format

For command about time, it has the following variables:

HH	Show hours 0-23 or 1-12 (with AM/PM)
MM	Show minutes 0-59
SS	Show seconds 0-59
AM/PM	Show AM or PM

For example

Script	Result
[Time; HH:MM น.]	13:37 น.
[Time; ThaiNum; HH:MM:SS]	๑๓:๓๗:๔๖
[Time; HH:MM:SS AM/PM]	01:37:46 PM

Keyboard Commands

Beside the command as mentioned above, you may also need to control the cursor to move to the next position or press another key on the keyboard. This is done by using the Keyboard command to press the keyboard key. The format of the command is a command key under braces { } as follows.

Command	Meaning	Command	Meaning
{Up}	Press Up key	{Del}	Press Delete key
{Down}	Press Down key	{Ins}	Press Insert key
{Left}	Press Left key	{Ctrl}	Press Ctrl key
{Right}	Press Right key	{Alt}	Press Alt key
{Home}	Press Home key	{Shift}	Press Shift key
{End}	Press End key	{WinKey}	Press Win key
{PgUp}	Press PgUp key	{F1} ถึง {F12}	Press F1 to F12 key
{PgDn}	Press PgDn key	{NumLock}	Press Num Lock key
{Tab}	Press Tab key	{Scroll}	Press Scroll Lock key
{Enter}	Press Enter key	{Break}	Press Break key
{Esc}	Press Esc key	{Add}	Press Keypad +
{Sp}	Press Space key	{Subtract}	Press Keypad -
{Space}	Press Space key	{Multiply}	Press Keypad *
{BS}	Press Backspace key	{Divide}	Press Keypad /
{BKSP}	Press Backspace key		

If to press key more than once is required, you can specify the number of times after the command with a space in between, for example, {Del 9} will press Del key 9 times, or {Shift} {Tab 13} will hold down Shift key and press Tab 13 times.

Caution, if you use {Ctrl}"F", the result is equal to {Ctrl} {Shift}"f" because uppercase F is to hold down Shift key while f is pressed. So if you do not want to press the Shift key, you must use lowercase f.

Conditional Keystrokes

In case you need to fill out a form with a menu selection which is not a fill in the blank like in the past, such as a gender selection of "ชาย" (male) or "หญิง" (female) as shown below.

In this case, if you choose the "หญิง" (female) option, you have to press the Right Arrow key once. If you choose the "ชาย" (male) option, you do not have to press any key. Then go to the next field by pressing the Tab key. To do this, you have to use data as a variable. It is then converted to a number for the number of keystrokes.

Data as variables are those explained in the group "**Numeric Variables**" such as [Gender.Num], and so on. We can enter a mathematical equation using the plus, minus, multiplication, division signs including parentheses (). For example

Script	Result
{Right P_Gender.Num-1}	Press the right arrow key zero times for "ชาย"(male) and one time for "หญิง"(female)
{Down P_BirthDate.D-1}	Press the down arrow key according to the day of P_BirthDate minus 1
{Down P_BirthDate.Y+(543-2480+1)}	Year of birth is converted to BD year(plus 543), subtracted by 2480, plus 1 (the table starts from 2480), used as a number of times to press Down key

Script example with conditional keystrokes

Script example 3

```
; pps web form1
[P_Name]" [P_Surname] {Tab}
{Down P_BirthDate.D-1} {Tab}
{Down P_BirthDate.M-1} {Tab}
{Down P_BirthDate.Y+(543-2480+1)} {Tab}
[Age; Y] {Tab}
[Wait; 1000]
{Right P_Gender.Num-1} {Tab}
{Tab} ; picture
```

From the example, you will see the usage of P_BirthDate.D, P_BirthDate.M, P_BirthDate.Y, P_Gender.Num as number of times to press the keys

Trouble Shooting

Question

Install PassIDform to run at startup on Windows 7, but when I restarted Windows, I did not see the program icon in the Taskbar.

Answer

Usually when the program starts, you will see the start screen of the program for a moment. Then the Hawk Eye icon will be shown in the Taskbar after that. If you see the startup screen but do not see the icon, it is possible that it was hidden by Windows. Click Show hidden icons on the System Tray (at the far right of the Taskbar), then the hidden icons will appear. You should also set to display the program icon all the time as well. So not to be confused later.

Question

Why does the program not read the card, but we can see the reader name appears on the main menu screen.

Answer

May be the card is incorrectly inserted. During card insertion, the gold contacts of the card must be visible. For example, if the reader is a horizontal one, you have to turn the card up to see the golden chip. If the reader is a vertical one, you have to turn the card with the golden chip face to you. And on insertion, the golden chip side must be inserted first.

Question

Why a newly bought reader cannot be used with the old installed program?

Answer

There are two reasons.

- The program you have installed does not have the latest license information and does not know the new reader.
Normally, we do not need to update the license because it automatically updates every time it is started, via the Internet. But if your system is not connected to the Internet at all times, you need to connect to the Internet first and then update yourself by going to the About page and clicking the "Update license" button.
- The new reader is not compatible with this program. In the case of the Thai ID card reader, make sure that it is the TFK model. In the case of the passport reader, please check that it is the PFK model. Other readers beside these will not work.

Question

Why on some forms, the program cannot fill the data, while others can be filled normally.

Answer

This may be because the form that you want to fill is run with the administrator privilege. You must reinstall the program again and select "Run PassIDform in service mode" option during installation. By doing this, the program will run in the same high privilege as the administrator and can fill that form.

Question

While filling form, the filled data did not match the script written and found some letters missing.

Answer

This can be caused by the form program works a lot slower than normal. You should add the command [KeyDelay; 50] at the beginning of the script. Try to adjust the delay from 50 to be more or less numbers as appropriate. This delay will make filling the form slower.

Some cases have found that the incorrect data is always at the same position in the form. This means that at that position, it is too slow to receive the data. In this case, you should add the [Wait; 200] command to that position, which will tell the program to stop and wait momentarily before continuing. You may have to try to adjust the delay time 200 more or less as appropriate.

Question

When sample script files are installed, why cannot they be changed or overwritten?

Answer

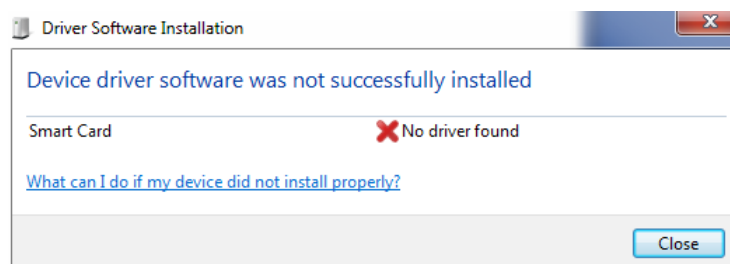
This may be because the sample scripts installed are from the CD which are set to read-only. Then we have to save to the different name before saving.

Question

On Windows 7, during reading a Thai ID card or a passport, then a message showing "Installing device driver software" appears like this.



And after clicking at that message, another window appears like this.



This will occur every time during reading.

Answer

Caused by the Plug and Play system of Windows that tries to install the smart card driver (not the reader driver) which is not necessary for using the PassIDform program. However, on Windows 10, this problem will not be encountered.

To fix this, use the “SmartCardDrvOff.exe” program to turn off the automatic driver installation for the smart card. This program is available in the Tools folder of the CD or the PassIDform program downloaded. After running this program, click at the “Add Registry Setting” menu and then restart the Windows.



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