

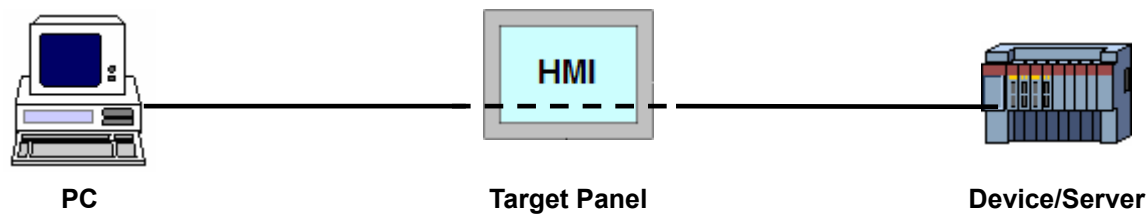
CHAPTER 17

USING TOOLS

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17.1. Setting/Starting/Ending Transparent Communication

Transparent communication is a serial port communication method used to link a PC and a device/server for control and data acquisition through a target panel, as shown below. The target panel in the link is just like a transparent device that makes the communication work as if a PC is connected to the device/server directly.



17.1.1. Setting Transparent Communication

To make the target panel transparent and acquire or control the device data on the PC, you need to set Transparent Communication.

To set Transparent Communication, click Tools to bring up the Tools sub-menu in the menu bar. Then, click Set Transparent Communication...in the Tools sub-menu.

The following is an example of a link illustration and Set Transparent Communication dialog.

The link illustration shows a PC on the left with a callout 'PC Port (COM1)'. A line connects the PC to an HMI box. A callout 'Panel's Transparent Port (COM1)' points to the HMI box. Another line connects the HMI box to a rack of modules labeled 'FATEK FBs/FBe (9600/7/1/EVEN)'. A callout 'Panel's Target Port (COM2)' points to the HMI box.

Set Transparent Communication

Link Settings

PC Port: Communications Port (COM1)

Get Info. from Panel via PC Port

Panel's Transparent Port: COM1

Panel's Target Port: COM2

Target Port Settings

Link Name: Link 1

Controller Brand Name: Fatek Automation Corp.

Controller Model Name: FATEK FBs/FBe

Baudrate: 9600 Data bits: 7 Stop bits: 1 Parity check: EVEN


Start Transparent Communication

End Transparent Communication

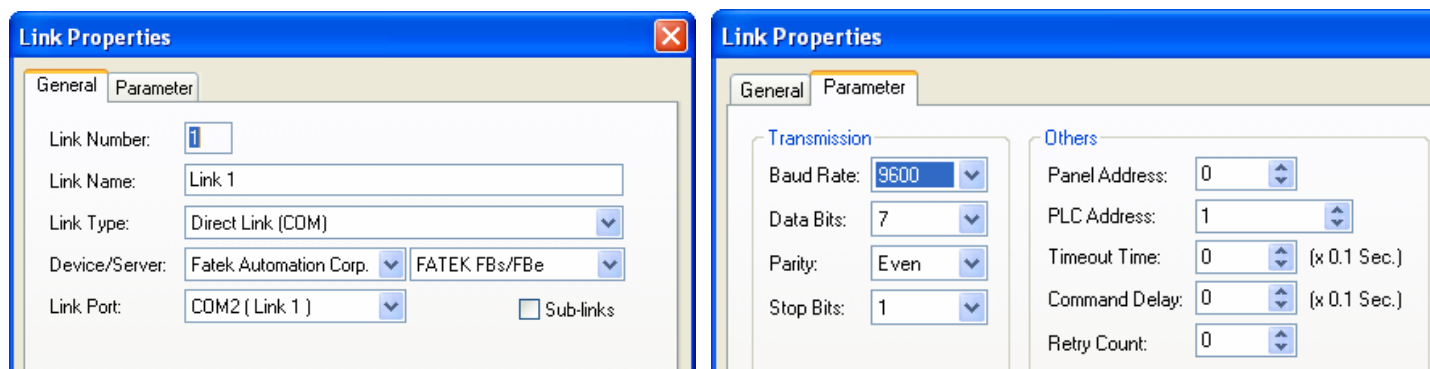
OK Cancel

Select a COM port of the target panel that is used to connect to the Device/Server

Note that the communication parameters setting in the dialog must be identical to the communication parameters of the Device/Server.

If the target panel has an application with the link settings that are exactly the same as the real connection between the target panel and a Device/Server, the user only needs to press  button to get all the communication parameters from the panel before starting the transparent communication.

The following is an example of the link settings between the target panel and a Device/Server




Note: The communication parameters setting in the Link Properties dialog must be identical to the communication parameters of the Device/Server.

If the target panel has no application or if the link settings are not the same as the actual connection, the user needs to redefine the communication parameter in the dialog before starting the transparent communication.

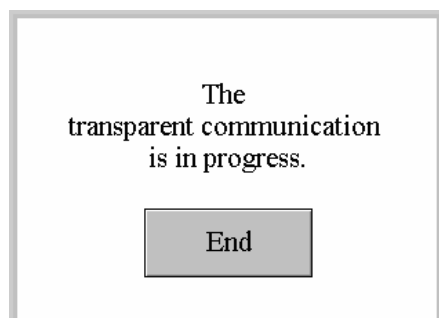
17.1.2. Starting/Ending Transparent Communication

■ Start Transparent Communication

To start transparent communication, you can do one of the following:


- 1) Click the  button in the Set Transparent Communication dialog
- 2) Click Tools to bring up the Tools sub-menu from the menu bar. Then, click Start Transparent Communication in the Tools sub-menu.

If communication is successfully established, the target panel will display the following dialog, and then you can control and acquire the device data with the PC.




■ End Transparent Communication

To end transparent communication, you can do one of the following:


- 1) Click the  button in the Set Transparent Communication dialog in the software.
- 2) Click Tools to bring up the Tools sub-menu in the menu bar. Then, click End Transparent Communication in the Tools sub-menu.
- 3) Click the End button on the dialog that is shown on the target panel

17.2. Data Transfer Helper (DTH)

Data Transfer Helper (DTH) is an independent executable program. It helps you retrieve/update application data through a serial port or Ethernet port

To run the DTH, choose Start > All Programs > “The software” >  Data Transfer Helper (DTH).

You can use DTH to download recipe data or OS & AP in a specified file from the PC to the HMI. With DTH, you can also get logged data, logged operations, alarm counts, logged alarms, recipe data, OS & AP from the HMI, and save the data in a specified file on the PC. The following dialog is an example of the Data Transfer Helper:

 Data Transfer Helper (DTH) V1.2.74

Welcome to the Data Transfer Helper

What do you want to do with the Panel?

Operation Type

☒ Get logged data (.csv)

☐ Get logged operations (.csv)

☐ Get alarm counts (.csv)

☐ Get logged alarms (.csv)

☐ Get recipe data (.csv)

☐ Update recipe data (.csv)

☐ Get recipe data (.prd)

☐ Update recipe data (.prd)

☐ Get OS & AP (.prp)

☐ Update OS & AP (.prp)

How do you want to connect to the Panel?

Link Settings

☐ Serial Port (COM)

☒ Ethernet

IP Address:

192.168.10.163 -- PV070-WST

What is your password?

Password:

xxxxxxxx

Status

Abort

To continue, click Next.

< Back

Next >

Finish

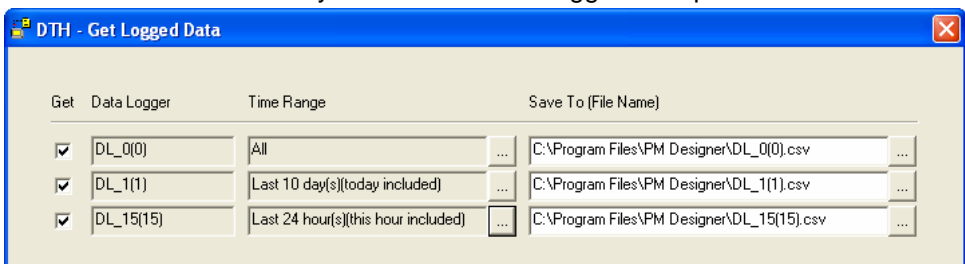


Cancel

The following table describes each property in the Download Data to Panel dialog.

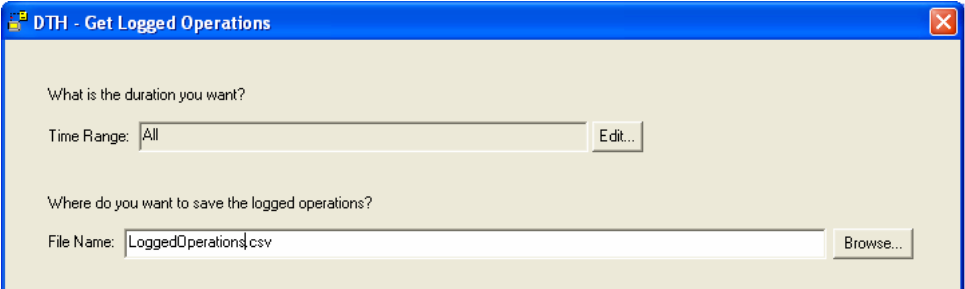
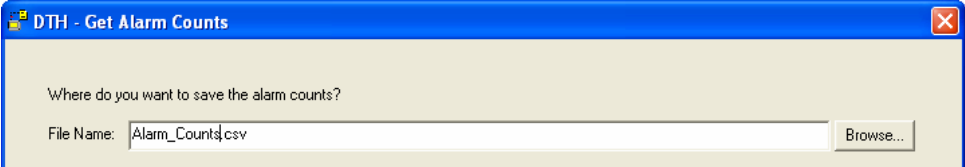
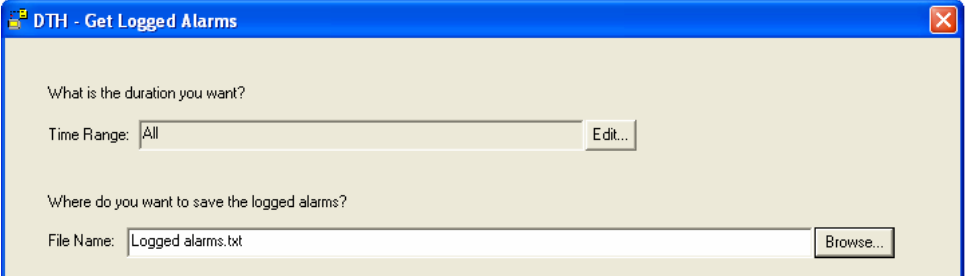
Property	Description						
Operation Type	Select an operation you want to perform with the target panel						
Link Settings	Select the communication port that is used to connect to the target panel. <table border="1"> <thead> <tr> <th>Communication Port</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Serial Port (COM)</td><td>Use the serial port to perform the operation and select a communication port and the baud rate used. <input checked="" type="radio"/> Serial Port (COM) <input type="radio"/> Ethernet Port: <input type="text" value="Communications Port (COM1)"/> Baud Rate: <input type="text" value="115200"/> </td></tr> <tr> <td>Ethernet</td><td>Use the Ethernet to perform the operation. Type the IP Address where the target panel is located, or choose a recently connected entry from the list. <input type="radio"/> Serial Port (COM) <input checked="" type="radio"/> Ethernet IP Address: <input type="text" value="192.168.10.163 -- PV070-WST"/> </td></tr> </tbody> </table>	Communication Port	Description	Serial Port (COM)	Use the serial port to perform the operation and select a communication port and the baud rate used. <input checked="" type="radio"/> Serial Port (COM) <input type="radio"/> Ethernet Port: <input type="text" value="Communications Port (COM1)"/> Baud Rate: <input type="text" value="115200"/>	Ethernet	Use the Ethernet to perform the operation. Type the IP Address where the target panel is located, or choose a recently connected entry from the list. <input type="radio"/> Serial Port (COM) <input checked="" type="radio"/> Ethernet IP Address: <input type="text" value="192.168.10.163 -- PV070-WST"/>
Communication Port	Description						
Serial Port (COM)	Use the serial port to perform the operation and select a communication port and the baud rate used. <input checked="" type="radio"/> Serial Port (COM) <input type="radio"/> Ethernet Port: <input type="text" value="Communications Port (COM1)"/> Baud Rate: <input type="text" value="115200"/>						
Ethernet	Use the Ethernet to perform the operation. Type the IP Address where the target panel is located, or choose a recently connected entry from the list. <input type="radio"/> Serial Port (COM) <input checked="" type="radio"/> Ethernet IP Address: <input type="text" value="192.168.10.163 -- PV070-WST"/>						
Password	Enter a valid password of user level 8 or higher						
Status	Display the transmission status and progress.						
Abort	Stop the communication						
Next	Click the button to start the operation and do the settings for the selected operation if communication is established successfully.						
Finish	Exit the dialog.						
Cancel	Cancel the operation.						

17.2.1. Operation Settings

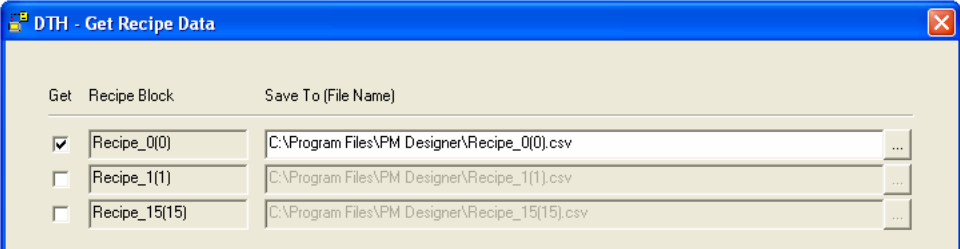
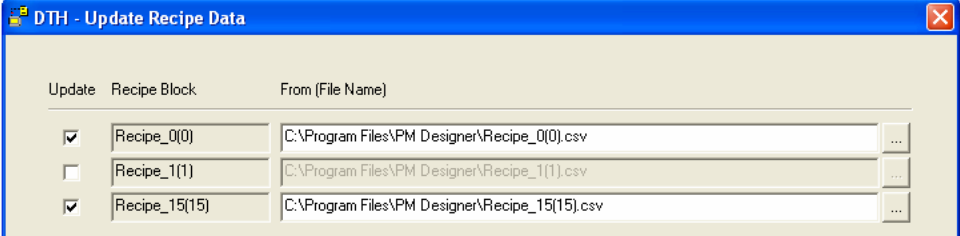
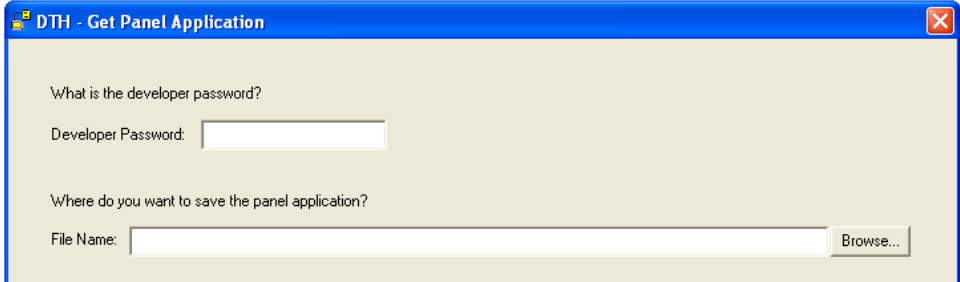
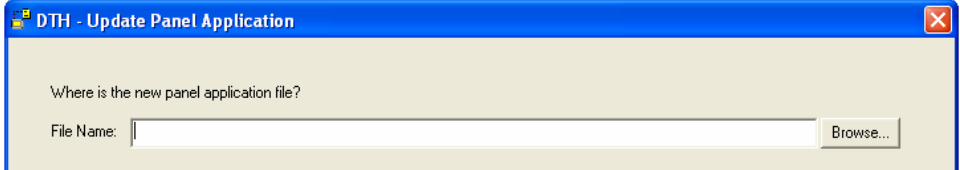
The following table lists all the operation types supported by DTH and shows how to make the settings for each type.

Operation Type	Settings
Get logged data (.csv/.txt)	<p>Saves the data collected by the selected data logger in a specified file.</p>  <p>The above dialog lists all the data loggers in the application. You may do the following in the dialog:</p> <ul style="list-style-type: none"> • Check the data logger you want to get the data from. • Click  button in Time Range to bring up the Time Range dialog to specify the duration of the collected data. For more about the Time Range dialog, please see Section 17.2.3. • Type in a file name or click  button of Save To (File Name) to bring up the Open File dialog to specify the file name.

Continued

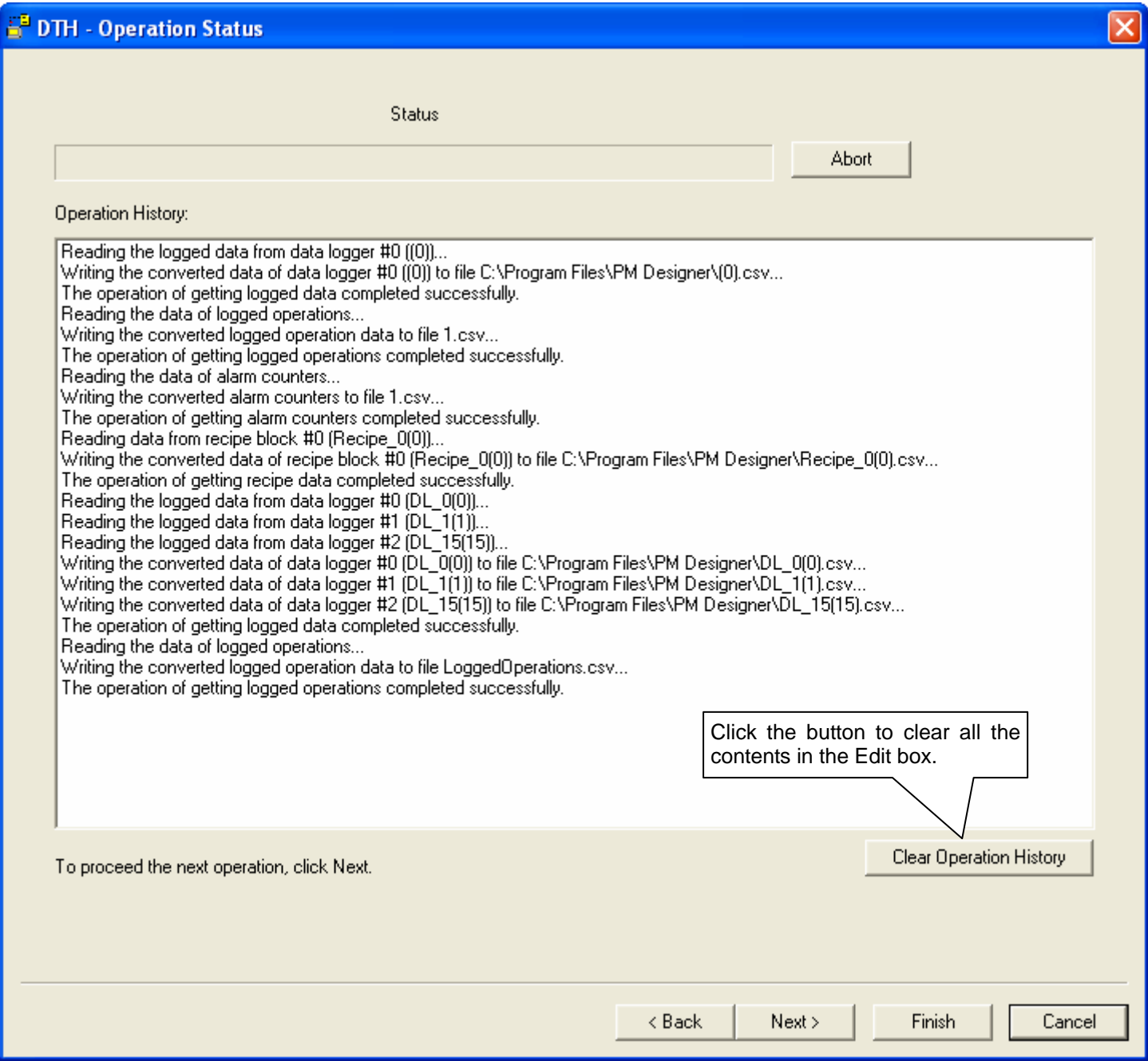
Operation Type	Settings
Get logged operations(.csv/.txt)	<div><p>Saves the operation history in a text file or a csv file.</p></div> <p>You need to do the following in the dialog:</p> <ul style="list-style-type: none">Click Edit... button to bring up the Time Range dialog to specify the duration of the operation history data. For more about the Time Range dialog, please see Section 17.2.3.Type in a file name or click Browse... button to bring up the Open File dialog to specify the file name.
Get alarm counts(.csv/.txt)	<div><p>Saves the alarm counts in a text file or a csv file.</p></div> <p>Type in a file name or click Browse... button to bring up the Open File dialog to specify the file name in CSV or TXT format</p>
Get logged alarms(.csv/.txt)	<div><p>Saves the alarm history in a text file or a csv file.</p></div> <p>You may do the following in the dialog:</p> <ul style="list-style-type: none">Click Edit... button of Time Range to bring up the Time Range dialog to specify the duration of the alarm history data. For more about the Time Range dialog, please see Section 17.2.3.Type in a file name or click Browse... button to bring up the Open File dialog to specify the file name.

Continued

Operation Type	Settings
Get recipe data(.csv/.txt/.prd)	<p>Saves the data of the specified recipe block in a file using the CSV/TXT/PRD format.</p>  <p>The above dialog lists all the recipe blocks in the application. You may do the following in the dialog:</p> <ul style="list-style-type: none"> • Check the recipe block you want to get the data from. • Type in a file name or click ... button of Save To (File Name) to bring up the Open File dialog to specify the file name.
Update recipe data(.csv/.txt/.prd)	<p>Updates the data of the selected recipe block from a CSV or TXT or PRP file.</p>  <p>The above dialog lists all the recipe blocks in the application. You may do the following in the dialog:</p> <ul style="list-style-type: none"> • Check the recipe block you want to update the data of. • Type in a file name or click ... button of Save To (File Name) to bring up the Open File dialog to specify the file name.
Get OS & AP (.prp)	<p>You need to enter a valid developer password to get and save the system programs and application runtime data in a specified PRP file..</p> 
Update OS & AP(.prp)	<p>Updates the system programs and the application runtime data from a specified PRP file. The original system programs and the application runtime data are replaced by the new ones.</p> 

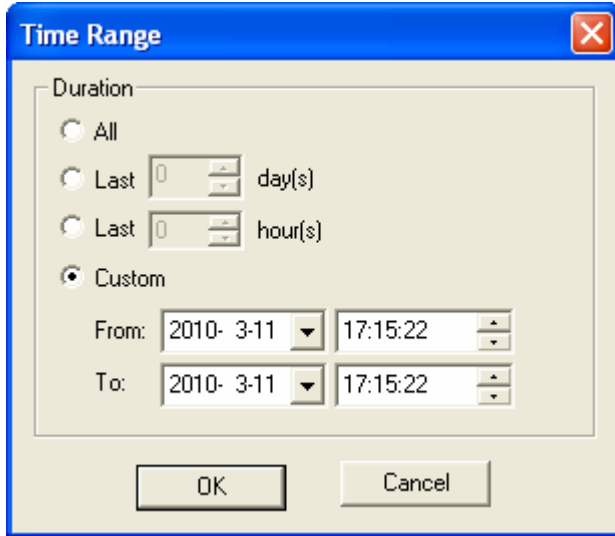
17.2.2. Operation Status

All the operation history and status will be shown in the Operation Status dialog. The following is an example of the Operation Status dialog.



17.2.3. Time Range

The Time Range dialog is used to set up the time duration of the collected data.



The following table describes each property in the Time Range dialog.

Property	Description
All	Select this option to get all the data from the associated memory.
Last day(s)	Select this option to get the data during the last number of days. If you want to include today, check the Include today option.
Last hour(s)	Select this option to get the data during the last number of hours. If you want to include the current hour, check the Include current hour option.
Custom	Select this option to customize the duration. You need to specify the start date and time and the end date and time

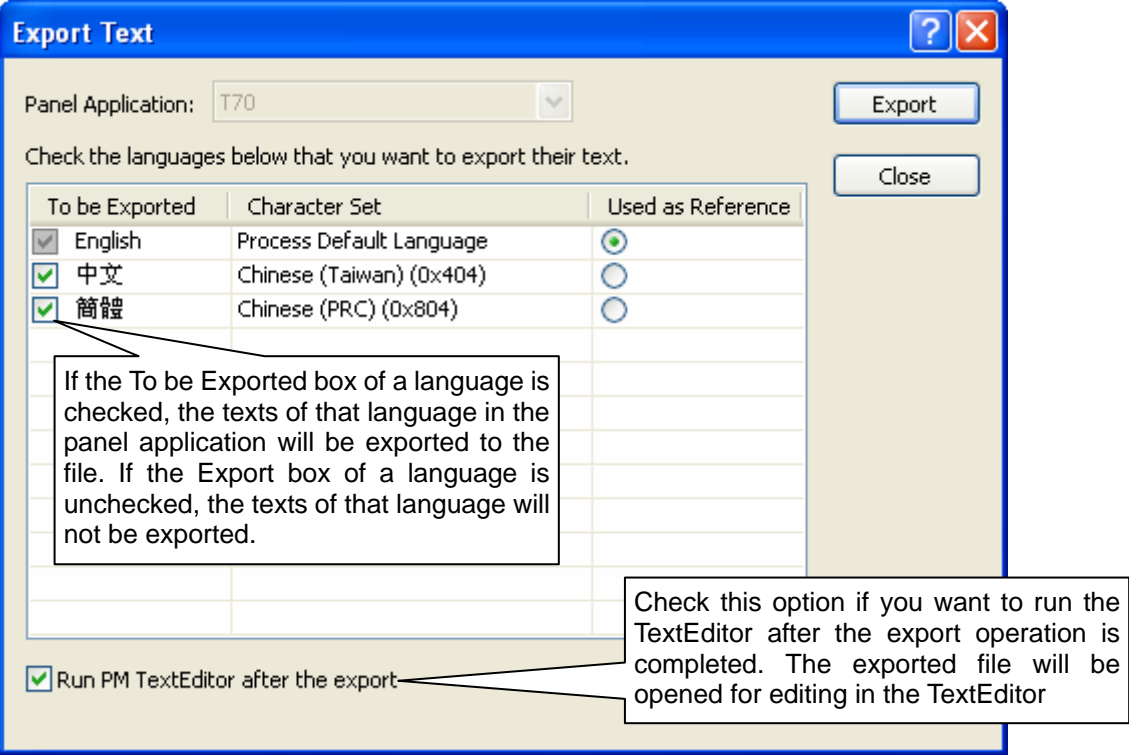
17.3. TextEditor

17.3.1. Exporting Text

You can export texts from the current panel application to a panel text file (PTX). The PTX file can be opened and edited in the TextEditor. For more about the TextEditor, please see details in [Section 17.3.3](#).

To export texts of the panel application, click Tools to bring up the Tools sub-menu from the menu bar. And then click Export Text...in the Tools sub-menu.

The following is an example of the Export Text dialog.



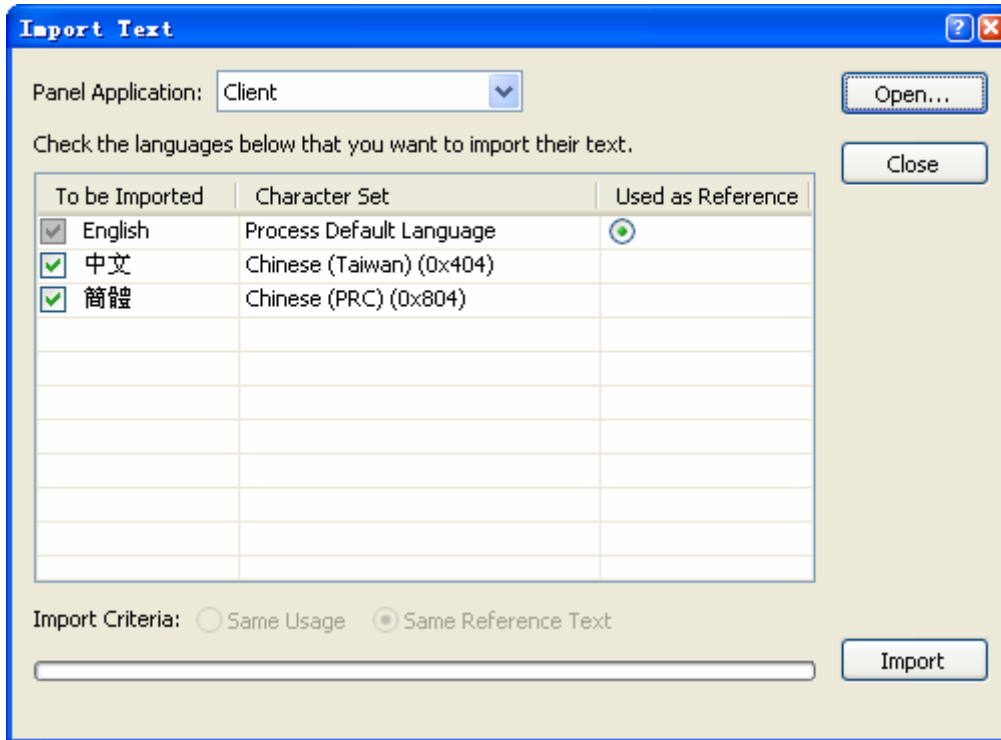
Note: If the application only uses a single language, the export text operation will be invalid.

17.3.2. Importing Text

You can import or export texts from a panel text file (PTX) to the selected panel application.

To import texts to the panel application, click Tools to bring up the Tools sub-menu in the menu bar. Then, click Import Text...in the Tools sub-menu.


The following is an example of the Import Text dialog.



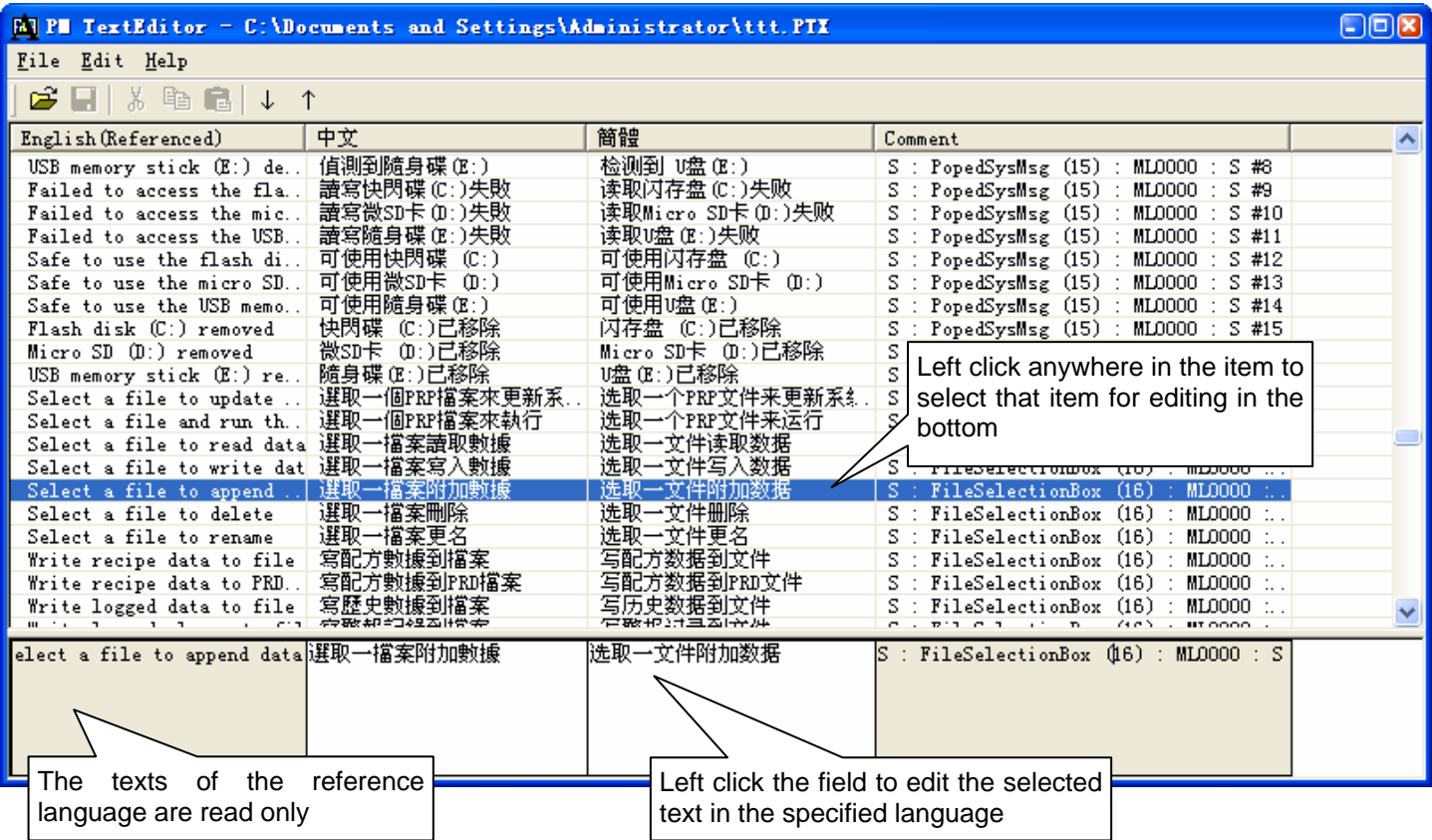
The following table describes each property in the Import Text dialog.

Property	Description
Panel Application	Select a panel application where you want to save the imported texts.
To be Imported	Check the languages of the text you want to be imported.
Open...	Click the button to open the PTX file. Note: The panel application must contain the same language name as the reference language name specified in the imported PTX file. Otherwise, the file is not allowed to be imported.
Close	Close the dialog.
Import Criteria	Select the Same Usage option to import texts to the destination with the same usage as the source in the file. Select the Same Reference Text option to import texts to the destination with the same reference text.
Import	Click the button to import all the selected texts.

17.3.3. TextEditor

TextEditor is an independent executable program. It is used to edit all the screen texts in multi-languages
To run TextEditor, choose Start > All Programs > “The software” >  TextEditor. Alternatively, click Tools to bring up the Tools sub-menu from the menu bar. Then, click TextEditor in the Tools sub-menu.








The following is an example of the TextEditor:



The screenshot shows the TextEditor application window titled "TextEditor - C:\Documents and Settings\Administrator\text.PTX". The window contains a table with four columns: English (Referenced), 中文, 簡體, and Comment. The table lists various system messages and actions in three languages. A callout box points to the table with the text: "Left click anywhere in the item to select that item for editing in the bottom". Another callout box points to the bottom of the table with the text: "The texts of the reference language are read only". A third callout box points to the 'Comment' column with the text: "Left click the field to edit the selected text in the specified language".

English (Referenced)	中文	簡體	Comment
USB memory stick (E:) de...	偵測到隨身碟 (E:)	检测到 U盘 (E:)	S : PopedSysMsg (15) : ML0000 : S #8
Failed to access the fla...	讀寫快閃碟 (C:)失敗	读取闪存盘 (C:)失败	S : PopedSysMsg (15) : ML0000 : S #9
Failed to access the mic...	讀寫微SD卡 (D:)失敗	读取Micro SD卡 (D:)失败	S : PopedSysMsg (15) : ML0000 : S #10
Failed to access the USB...	讀寫隨身碟 (E:)失敗	读取U盘 (E:)失败	S : PopedSysMsg (15) : ML0000 : S #11
Safe to use the flash di...	可使用快閃碟 (C:)	可使用闪存盘 (C:)	S : PopedSysMsg (15) : ML0000 : S #12
Safe to use the micro SD...	可使用微SD卡 (D:)	可使用Micro SD卡 (D:)	S : PopedSysMsg (15) : ML0000 : S #13
Safe to use the USB memo...	可使用隨身碟 (E:)	可使用U盘 (E:)	S : PopedSysMsg (15) : ML0000 : S #14
Flash disk (C:) removed	快閃碟 (C:)已移除	闪存盘 (C:)已移除	S : PopedSysMsg (15) : ML0000 : S #15
Micro SD (D:) removed	微SD卡 (D:)已移除	Micro SD卡 (D:)已移除	S : PopedSysMsg (15) : ML0000 : S #16
USB memory stick (E:) re...	隨身碟 (E:)已移除	U盘 (E:)已移除	S : PopedSysMsg (15) : ML0000 : S #17
Select a file to update ...	選取一個PRF檔案來更新系...	选取一个PRF文件来更新系...	S : FileSelectionBox (16) : ML0000 : S #18
Select a file and run th...	選取一個PRF檔案來執行	选取一个PRF文件来运行	S : FileSelectionBox (16) : ML0000 : S #19
Select a file to read data	選取一檔案讀取數據	选取一文件读取数据	S : FileSelectionBox (16) : ML0000 : S #20
Select a file to write dat	選取一檔案寫入數據	选取一文件写入数据	S : FileSelectionBox (16) : ML0000 : S #21
Select a file to append ...	選取一檔案附加數據	选取一文件附加数据	S : FileSelectionBox (16) : ML0000 : S #22
Select a file to delete	選取一檔案刪除	选取一文件删除	S : FileSelectionBox (16) : ML0000 : S #23
Select a file to rename	選取一檔案更名	选取一文件更名	S : FileSelectionBox (16) : ML0000 : S #24
Write recipe data to file	寫配方數據到檔案	写配方数据到文件	S : FileSelectionBox (16) : ML0000 : S #25
Write recipe data to PRD...	寫配方數據到PRD檔案	写配方数据到PRD文件	S : FileSelectionBox (16) : ML0000 : S #26
Write logged data to file	寫歷史數據到檔案	写历史数据到文件	S : FileSelectionBox (16) : ML0000 : S #27
Write logged data to PRD...	寫歷史數據到PRD檔案	写历史数据到PRD文件	S : FileSelectionBox (16) : ML0000 : S #28

The following table lists all the buttons on the toolbar.


Icon	Tool Tip	Description
	Open	Open the PTX file which saved all the screen texts in multi-language. You can create the PTX file by using Export Text Tool provided by the software. Please see details about Export Text in Section 17.3.1 .
	Save	Save the current PTX file.
	Cut	Cut the selection and put it on the Clipboard.
	Copy	Copy the selection and put it on the Clipboard.
	Paste	Place the Clipboard contents on to the current screen.
	Alt+Dn	Move the selection down from the previous item
	Alt+Up	Move the selection up from the next item

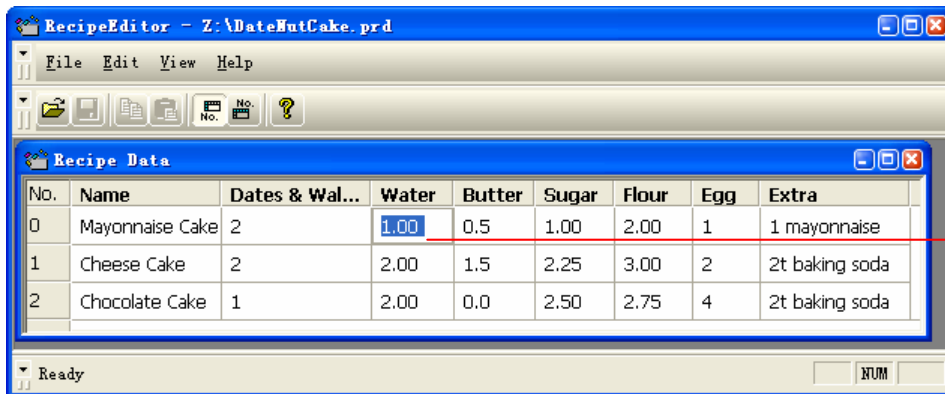
17.4. Recipe Editor

Recipe Editor is an independent executable program. It can be used to view and edit recipe data saved as a PRD file on the PC.

To run the Recipe Editor, choose Start > All Programs > “The software” >  RecipeEditor.


You can display the recipe data row-wise or column wise.

The following is an example of RecipeEditor displayed row-wise. You can click the  button on the toolbar or use the Row-wise command in the View menu. Row-wise means that the recipe number is used to index the row.



►► To edit the recipe data, left click the cell and key in the value you want.

Note that any value unmatched with the predefined format will cause an error when using the recipe at the runtime.

The following is an example of the RecipeEditor displayed column-wise. You can click the  button on the toolbar or use the Column-wise command in the View menu. Column-wise means that the recipe number is used to index the column.

