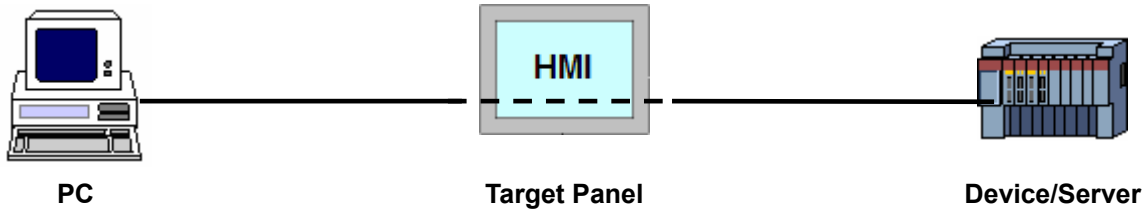
CHAPTER 17

# USING TOOLS

# 17.1. Setting/Starting/Ending Transparent Communication

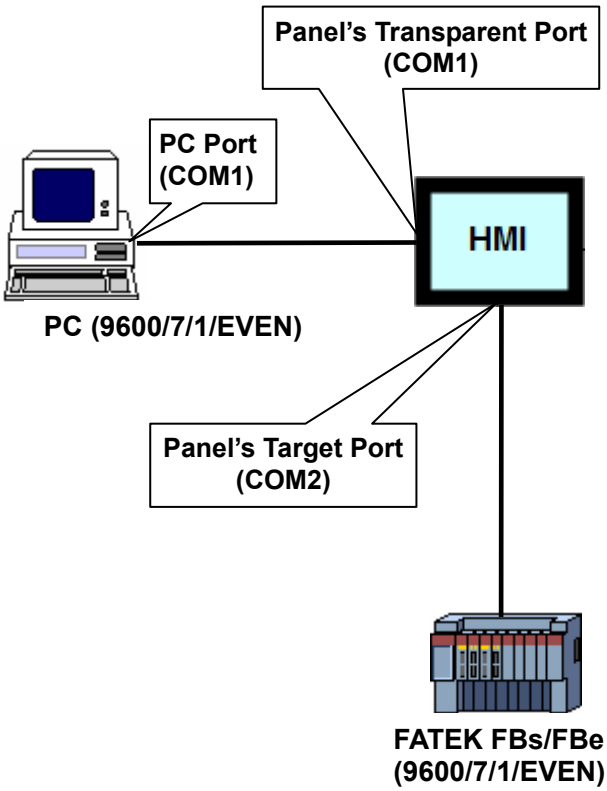
The transparent communication is a serial port communication method used to link a PC and a device/server for control and data acquisition through a target panel, as shown below. The target panel in the link is just like a transparent device that makes the communication work like a PC connected to the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

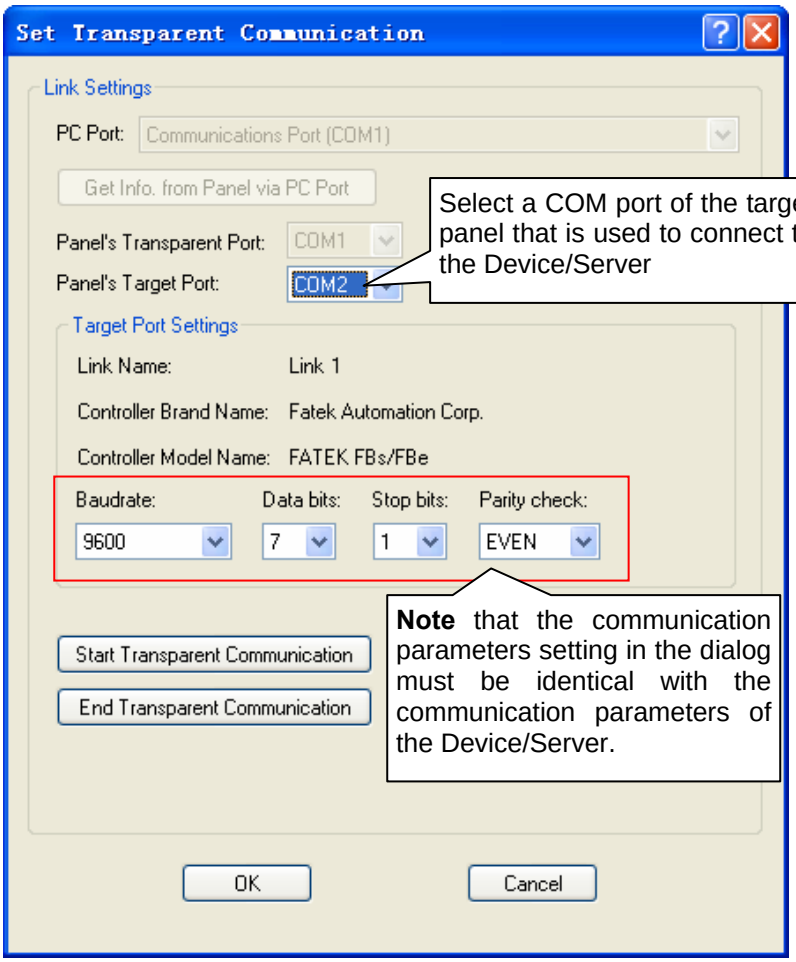



## 17.1.1. Setting Transparent Communication

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

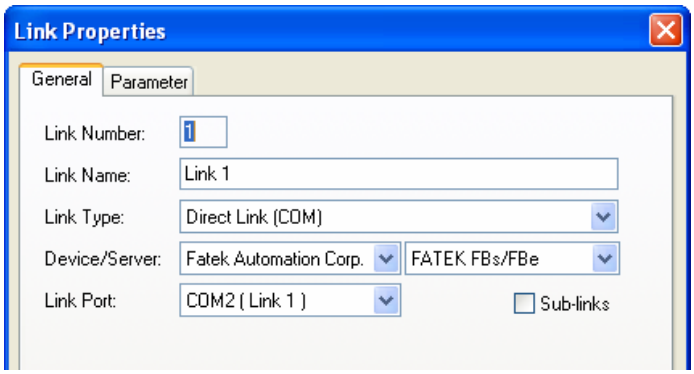
To set transparent communication, click Tools to bring up the Tools sub-menu in the menu bar. And then click Set Transparent Communication…in the Tools sub-menu.
The following is an example of a link illustration and Set Transparent Communication dialog.

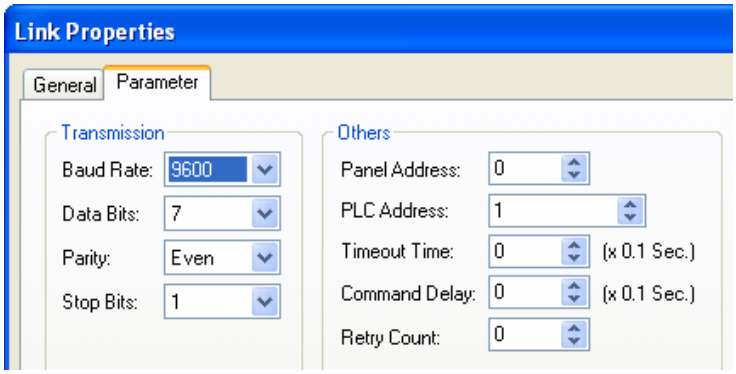


If the target panel has an application with the link settings that is exactly same as the real connection between the target panel and a Device/Server, the user only needs to press [Get Info. from Panel via PC Port] button to get all the communication parameters from the panel before starting the transparent communication.

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




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

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

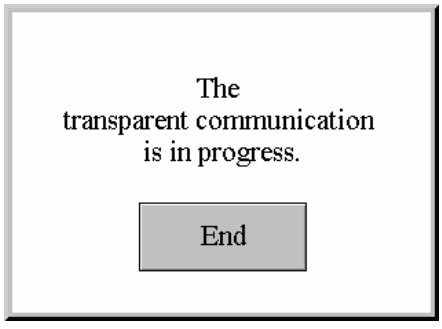
## 17.1.2. Starting/Ending Transparent Communication

**■ Start Transparent Communication**

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

1) Click the [Start Transparent Communication] button in the Set Transparent Communication dialog
2) Click Tools to bring up the Tools sub-menu in the menu bar. And then click Start Transparent Communication in the Tools sub-menu.

If the communication is established successful, the target panel will show the following dialog and then you can control and acquire the device data on the PC.




**■ End Transparent Communication**

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

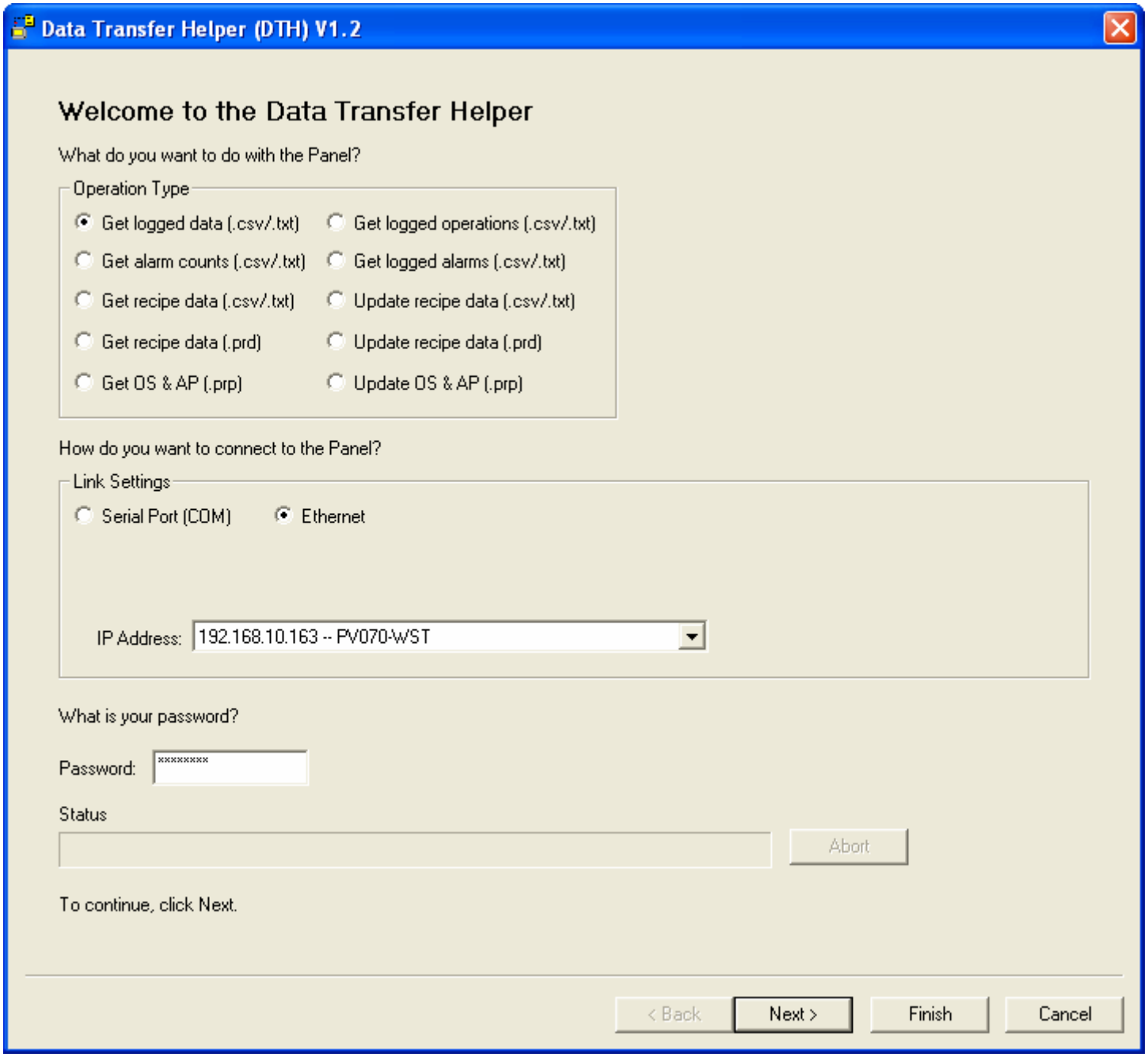
1) Click the [End Transparent Communication] button in the Set Transparent Communication dialog in the software.
2) Click Tools to bring up the Tools sub-menu in the menu bar. And then click End Transparent Communication in the Tools sub-menu.
3) Click End button on the dialog that is shown on the target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

## 17.2. Data Transfer Helper (DTH)

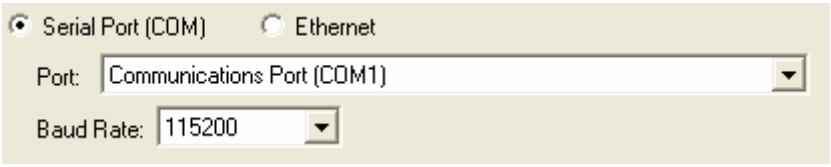
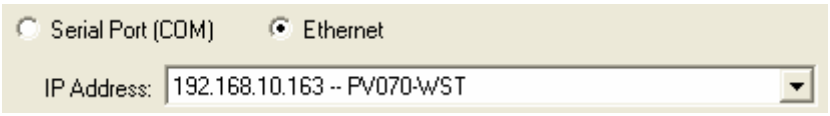
Data Transfer Helper (DTH) is an independent executable program. It helps you get/update application data through serial port or Ethernet port

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

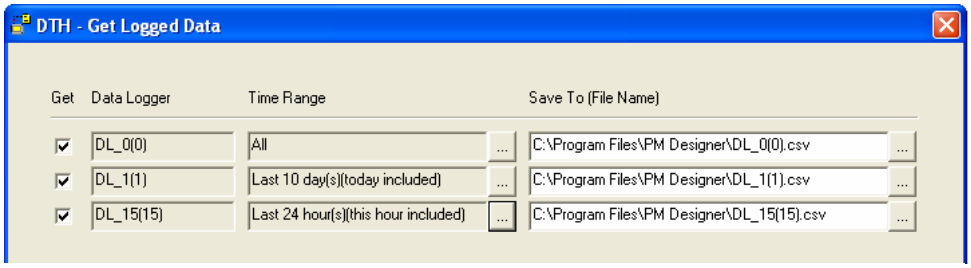


The following table describes each property in the Download Data to Panel Dialog.

<table>
<tr><th>Property</th><th>Description</th></tr>
<tr><td>Operation Type</td><td>Select an operation you want to do with the target panel</td></tr>
<tr><td>Link Settings</td><td>Select the communication port that is used to connect to the target panel.
<table>
<tr><th>Communication Port</th><th>Description</th></tr>
<tr><td>Serial Port (COM)</td><td>Use serial port to do the operation and select communication port and the used baud rate.<br> 
</td></tr>
<tr><td>Ethernet</td><td>Use the Ethernet to do the operation. Type the IP Address where the target panel locates, or click a recent connected entry from the list.<br> 
</td></tr>
</table></td></tr>
<tr><td>Password</td><td>Enter a valid password of user level 8 or higher</td></tr>
<tr><td>Status</td><td>Display the transmission status and progress.</td></tr>
<tr><td>Abort</td><td>Stop the communication</td></tr>
<tr><td>Next</td><td>Click the button to start the operation and do the settings for the selected operation if the communication is established successfully.</td></tr>
<tr><td>Finish</td><td>Exit the dialog.</td></tr>
<tr><td>Cancel</td><td>Cancel the operation.</td></tr>
</table>

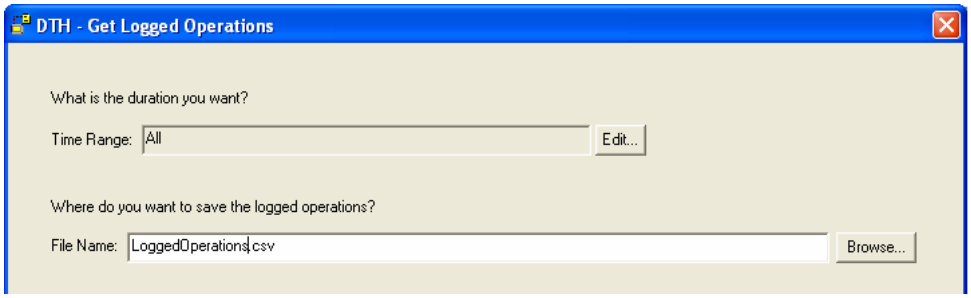
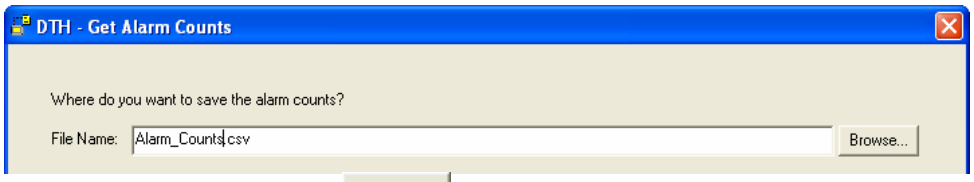
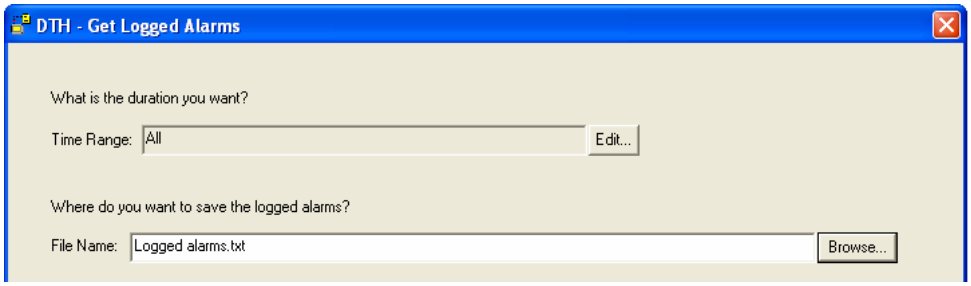
## 17.2.1. Operation Settings

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

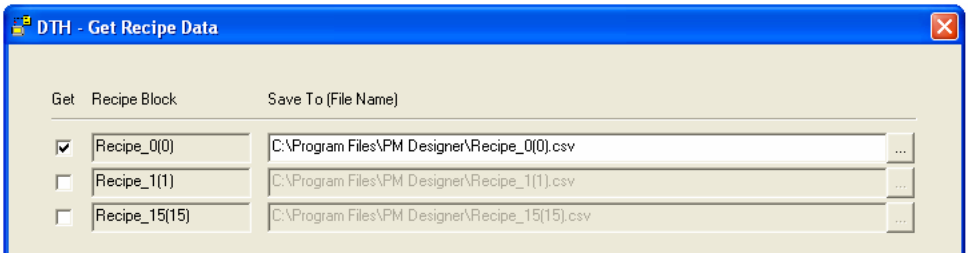
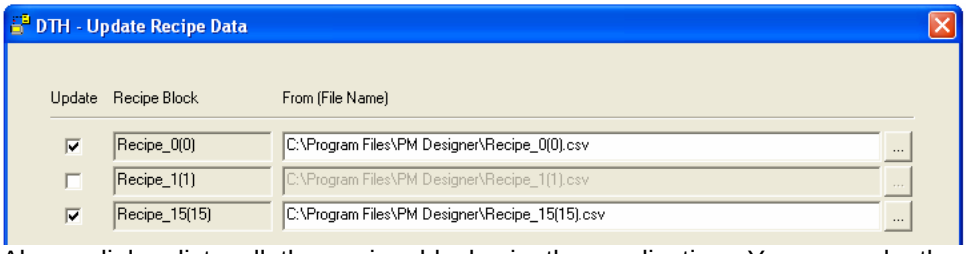
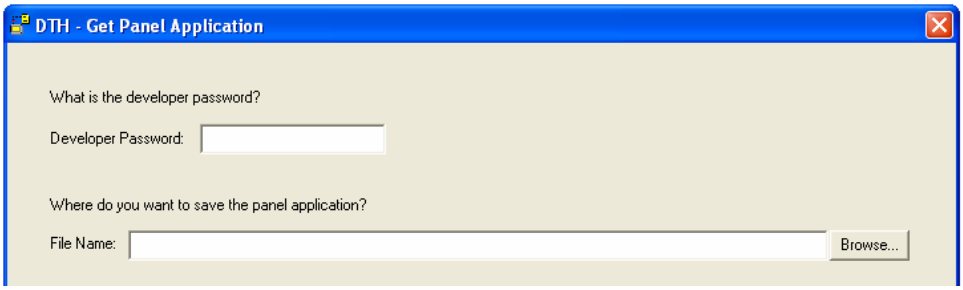
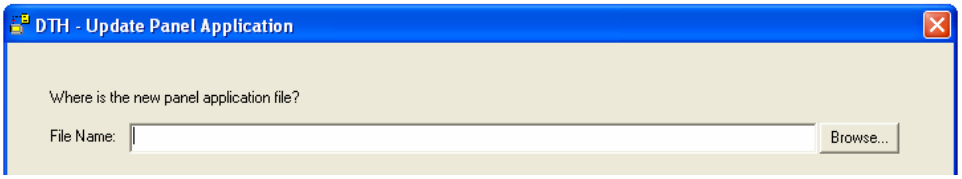
<table>
<tr><th>Operation Type</th><th>Settings</th></tr>
<tr><td>Get logged data (.csv/.txt)</td><td>Saves the data collected by the selected data logger in a specified file.<br> 

Above dialog lists all the data loggers in the application. You may do the followings in the dialog:<br>
• Check the data logger you want to get the data from.<br>
• Click ... button of Time Range to bring up the Time Range dialog to specify the duration of the collected data. About Time Range dialog, please see Section 17.2.3<br>
• 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.</td></tr>
</table>

Continued

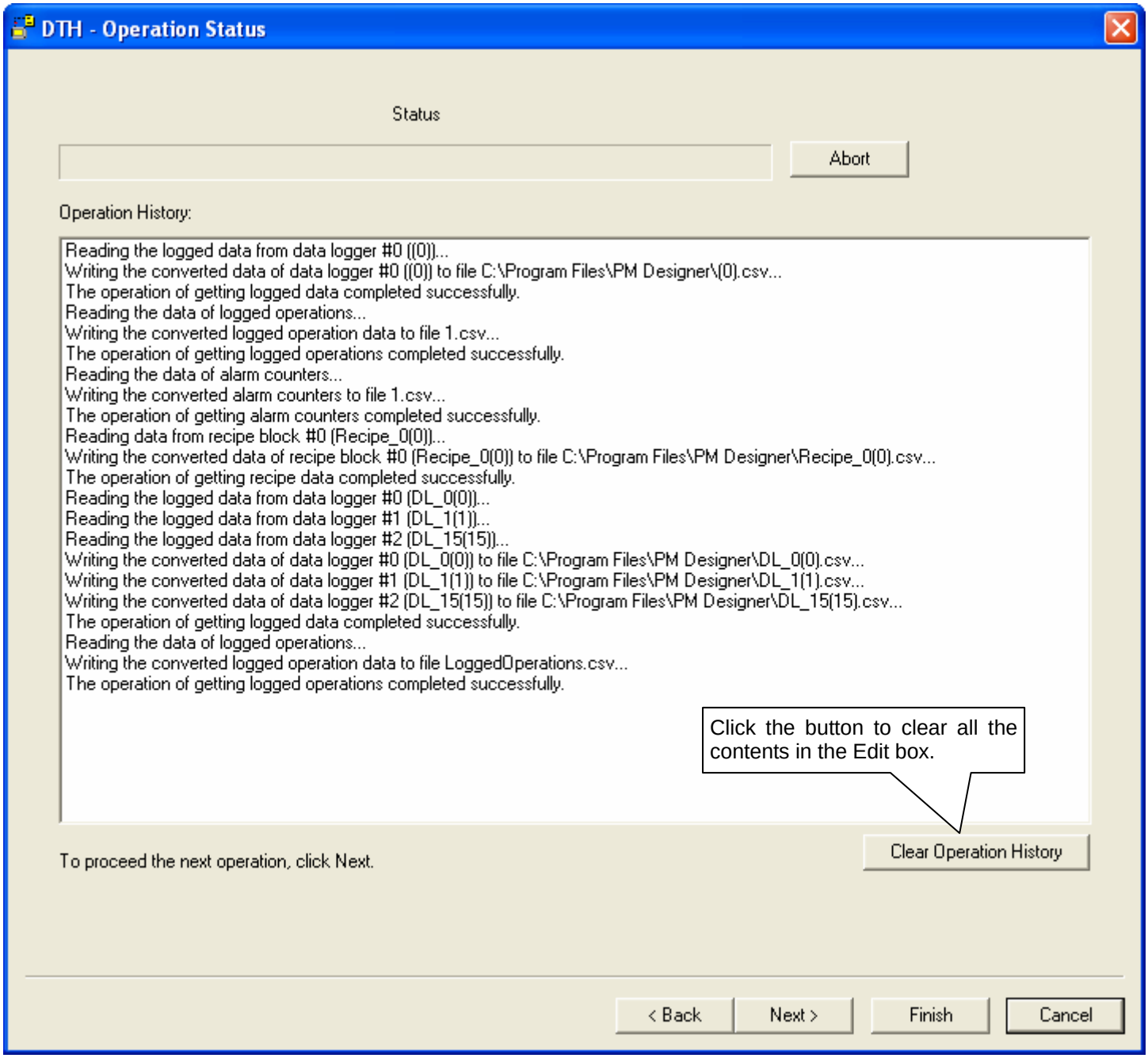
| Operation Type | Settings |
|---|---|
| Get logged operations(.csv/.txt) | Saves the operation history in a text file or a csv file.<br>  <br><br>You need to do the followings in the dialog:<br>• Click Edit... button to bring up the Time Range dialog to specify the duration of the operation history data. About Time Range dialog, please see Section 17.2.3<br>• 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) | Saves the alarm counts in a text file or a csv file.<br>  <br><br>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 |
| Get logged alarms(.csv/.txt) | Saves the alarm history in a text file or a csv file.<br>  <br><br>You may do the followings in the dialog:<br>• Click Edit... button of Time Range to bring up the Time Range dialog to specify the duration of the alarm history data. About Time Range dialog, please see Section 17.2.3<br>• 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) | Saves the data of the specified recipe block in a file using the CSV/TXT/PRD format.<br>  <br><br>Above dialog lists all the recipe blocks in the application. You may do the followings in the dialog:<br>• Check the recipe block you want to get the data from.<br>• 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) | Updates the data of the selected recipe block from a CSV or TXT or PRP file.<br>  <br><br>Above dialog lists all the recipe blocks in the application. You may do the followings in the dialog:<br>• Check the recipe block you want to update its data.<br>• 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) | You need to enter a valid develop password to get and save the system programs and the application runtime data in a specified PRP file..<br>  <br> |
| Update OS & AP(.prp) | 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.<br>  <br> |

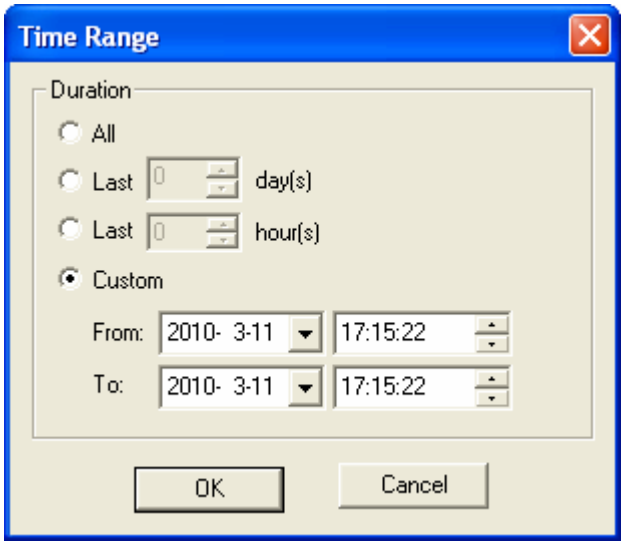
## 17.2.2. Operation Status

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 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 in 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 Include today option. |
| Last hour(s) | Select this option to get the data during the last number of hour. If you want to include current hour, check Include current hour option. |
| Custom | Select this option to custom the duration. You need to specify the start date and time and end date and time |

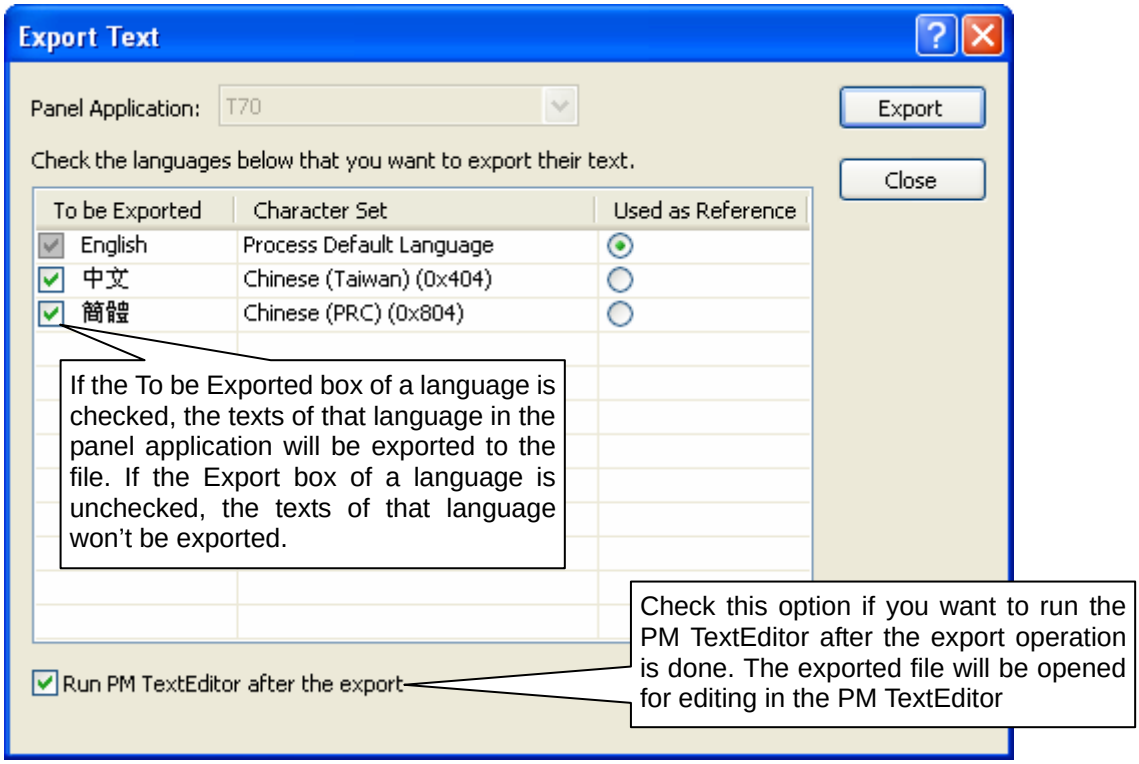
## 17.3. PM TextEditor

### 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 PM TextEditor. About PM 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 in the menu bar. And then click Export Text…in the Tools sub-menu.

The following is an example of the Export Text dialog.



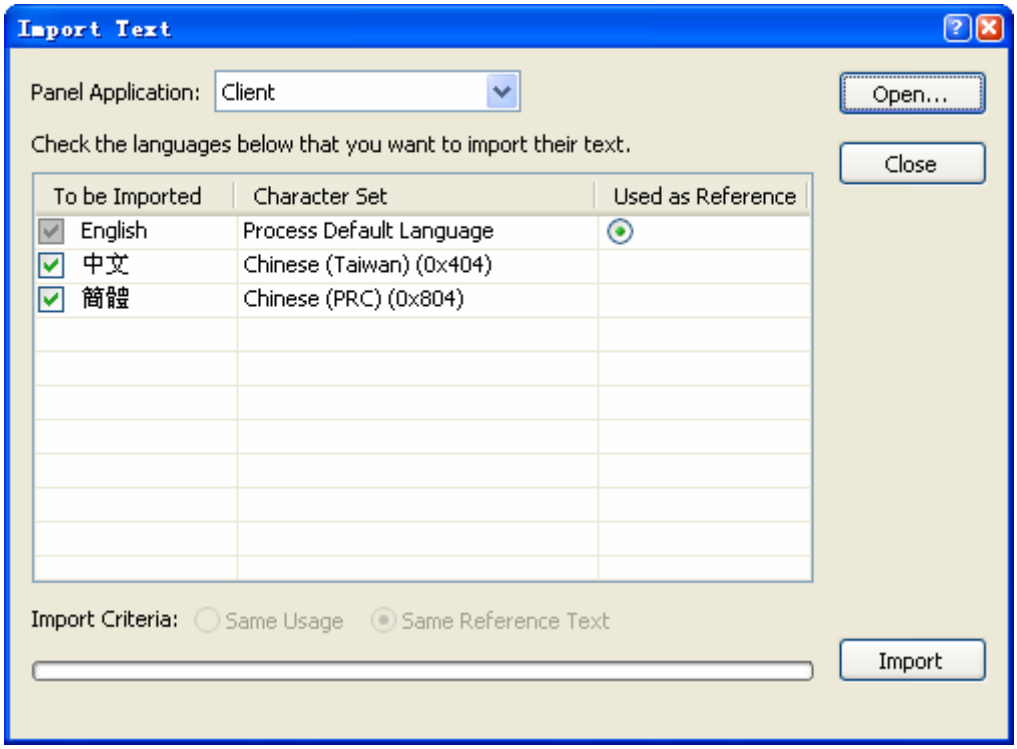

**Note:** If the application only uses single language, the export text operation is invalid.

## 17.3.2. Importing Text

You can import 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. And then click Import Text…in the Tools sub-menu.

The following is an example of the Import Text dialog.



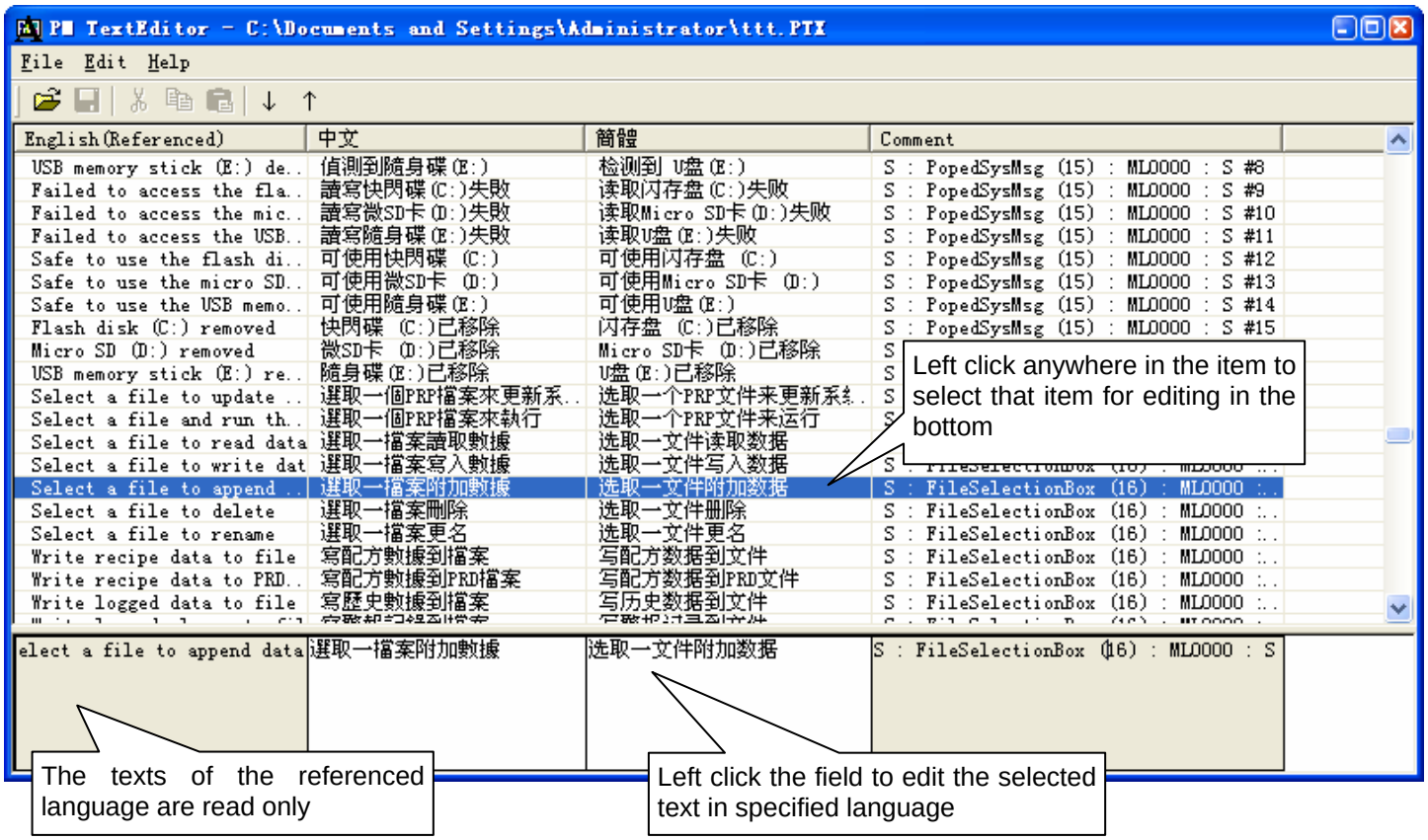

The following table describes each property in the Import Text Dialog.

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

### 17.3.3. PM TextEditor

PM TextEditor is an independent executable program. It is used to edit all screen texts in multi-languages

To run the PM TextEditor, choose Start > All Programs > “The software” > PMTextEditor. Or in the menu bar, click Tools to bring up the Tools sub-menu. And then click PM TextEditor in the Tools sub-menu. The following is an example of the PM TextEditor.




The following table lists all the buttons on the toolbar.

| Icon | Tool Tip | Description |
|---|---|---|
| | Open | Open PTX file which saves 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 the current screen. |
| ↓ | Alt+Dn | Move up the selection to the previous item |
| ↑ | Alt+Up | Move down the selection to the next item |

## 17.4. Recipe Editor

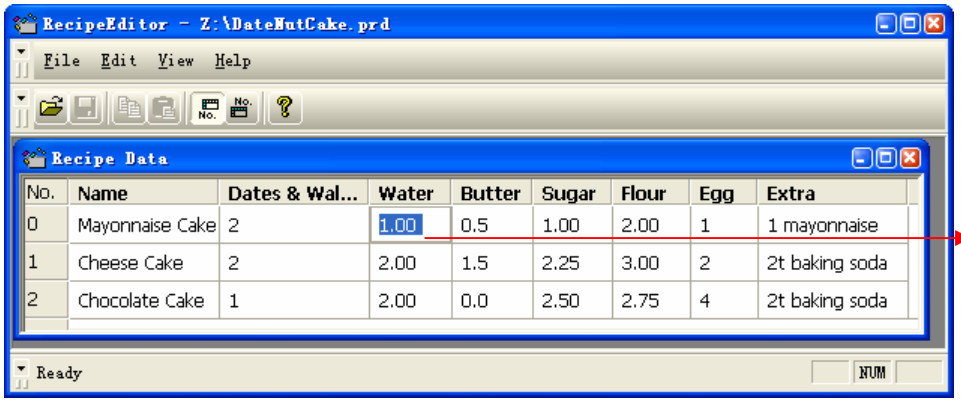
Recipe Editor is an independent executable program. It can be used to view and edit recipe data saved in a PRD file on PC.

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

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

The following is an example of RecipeEditor in row-wise. The row wise means the recipe number is used to index the row.

You can click the button on the toolbar or use the Row-wise command in the View menu to make the recipe data display in row-wise.




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

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

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