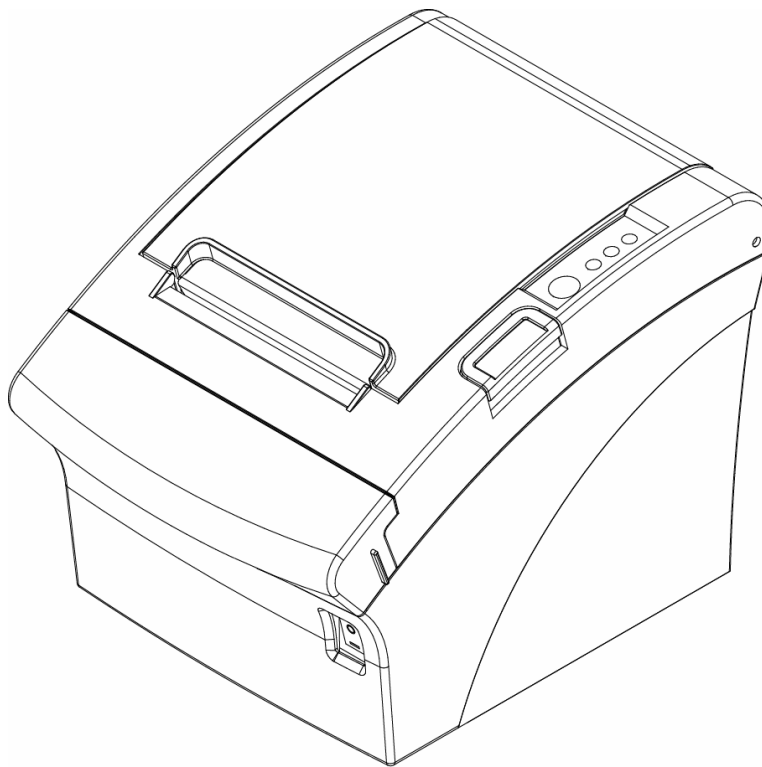


METAPACE

Virtual Memory Switch Manager Manual

Metapace T-3

Thermal Printer
Rev. 1.00



<http://www.metapace.com>

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1. Manual Information

The purpose of this manual is to provide information on the operation and usage instructions of the Virtual Memory Switch Manager Utility for the Metapace Thermal Printers.

We at Metapace maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

2. Usage Environment

2-1 Operating System

Following operating systems are supported for usage.

- Microsoft Windows 98
- Microsoft Windows Millennium Edition
- Microsoft Windows 2000
- Microsoft Windows XP (32bit/64bit)
- Microsoft Windows 2003 Server (32bit/64bit)
- Microsoft Windows Embedded For Point Of Service
- Microsoft Windows VISTA (32bit/64bit)
- Microsoft Windows 7 (32bit/64bit)

2-2 Interface

Use of this Utility is supported on the following Interface.

- Serial (RS-232)
- Parallel
- USB
- Ethernet

3. Ready to VMSM

VMSM is included in the enclosed CD, and Latest file versions can be downloaded from the Metapace website.

(www.metapace.com)

4. Usage of VMSM

4-1 Printer Communication Setting

To use the VMSM (Virtual Memory Switch Manager), It is necessary to set the status of communication between Printer and PC.

- 1) Run the “VMSM for Metapace T-3 (V1.X.X).exe” file.
- 2) Upon initiation of the program, the following pop-up window will appear.

The screenshot shows a window titled 'Interface Type' with four radio buttons: SERIAL (selected), PARALLEL, USB, and Ethernet. Below this is a 'Communication Setting' section with several dropdown menus: Port (COM1), Baud Rate (9600), Data Bits (8), Parity (None), Stop Bits (1), and Flow Control (Hardware). To the right of these settings are five buttons: 'Check Communication', 'Self Test', 'Run Manager', 'Command Test Editor', and 'Exit'. At the bottom left, there are input fields for 'IP' and 'Port' (containing the number 0).

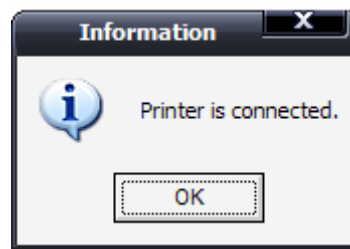
- 3) Select the Interface Type.

- SERIAL
- PARALLEL
- USB
- Ethernet

In the Serial Interface, match the communication setting (COM Port Number and Baud Rate) to those of the Printer.

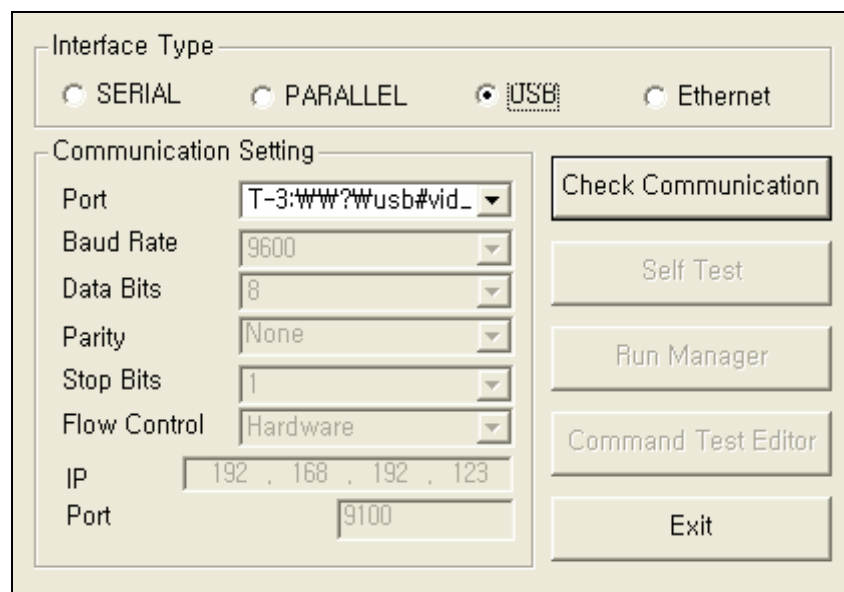
Virtual Memory Switch Manager

- 4) Click the “Check Communication” button, and Check the Current Communication Status.
If there is no problem between PC and Printer, the following message will appear.



* If the message doesn't appear, restart the program.

- 5) If communication is okay, the Self Test button, Run Manager button and Command Test Editor button become available for selection.

A configuration window for the Virtual Memory Switch Manager. It has a title bar and a main area with several sections. The 'Interface Type' section at the top has four radio buttons: 'SERIAL', 'PARALLEL', 'USB' (which is selected), and 'Ethernet'. Below this is the 'Communication Setting' section, which contains several dropdown menus: 'Port' (showing 'T-3:WW?Wusb#vid_'), 'Baud Rate' (showing '9600'), 'Data Bits' (showing '8'), 'Parity' (showing 'None'), 'Stop Bits' (showing '1'), and 'Flow Control' (showing 'Hardware'). At the bottom left, there are two text input fields: 'IP' (containing '192 , 168 , 192 , 123') and 'Port' (containing '9100'). On the right side of the window, there are five buttons stacked vertically: 'Check Communication', 'Self Test', 'Run Manager', 'Command Test Editor', and 'Exit'.

[Self Test]: Pressing this button prints the self-test page of the printer.

[Run Manager]: Pressing this button opens a window for memory switch settings of the printer.

[Command Test Editor]: Pressing this button opens a window for command test of the printer.

4-2 Getting the Memory Switch Status of the Printer

1) If the Communication Setting is OK, click the “Run Manager” button.

The screenshot shows a dialog box titled "Virtual Memory Switch Manager". It has two main sections: "Interface Type" and "Communication Setting".

Interface Type: Four radio buttons are present: SERIAL, PARALLEL, USB (which is selected), and Ethernet.

Communication Setting: This section contains several fields and buttons:

- Port:** A dropdown menu showing "T-3:WW?Wusb#vid_".
- Baud Rate:** A dropdown menu showing "9600".
- Data Bits:** A dropdown menu showing "8".
- Parity:** A dropdown menu showing "None".
- Stop Bits:** A dropdown menu showing "1".
- Flow Control:** A dropdown menu showing "Hardware".
- IP:** A text field containing "192 , 168 , 192 , 123".
- Port:** A text field containing "9100".
- Buttons:** On the right side of the "Communication Setting" section, there are five buttons: "Check Communication", "Self Test", "Run Manager" (which is highlighted with a dotted border), "Command Test Editor", and "Exit".

2) Click the “Get Status” button. It gets the status of the Printer Setting.

The screenshot shows a dialog box titled "Printer Status". It has a blue title bar with a close button (X) in the top right corner. The dialog is divided into two tabs: "Memory switch" and "Printer Setting" (which is selected).

Printer Setting Tab:

- Virtual Memory Switch Status Display:** A section containing eight rows, each with a label "[PIN 1] Reserved" through "[PIN 8] Reserved" and a corresponding dropdown menu.
- MSW:** A text field containing "1".
- Navigation:** Two buttons labeled "< Back" and "Next >".
- Progress:** A label "Progress :" followed by a progress bar.
- Buttons:** On the right side, there are two groups of buttons:
 - Setup Status:** Four buttons: "Print Status", "Print Full Codepage", "Get Status" (highlighted with a dotted border), and "Set Status".
 - User Status Setting:** Three buttons: "Save Status", "Load Status", and "Initialize Status".
 - Exit:** A single button at the bottom right.

Virtual Memory Switch Manager

- 3) The “Memory switch” Tab in the Printer Status window displays the current virtual memory switch settings of the printer, and allows new settings to be defined.

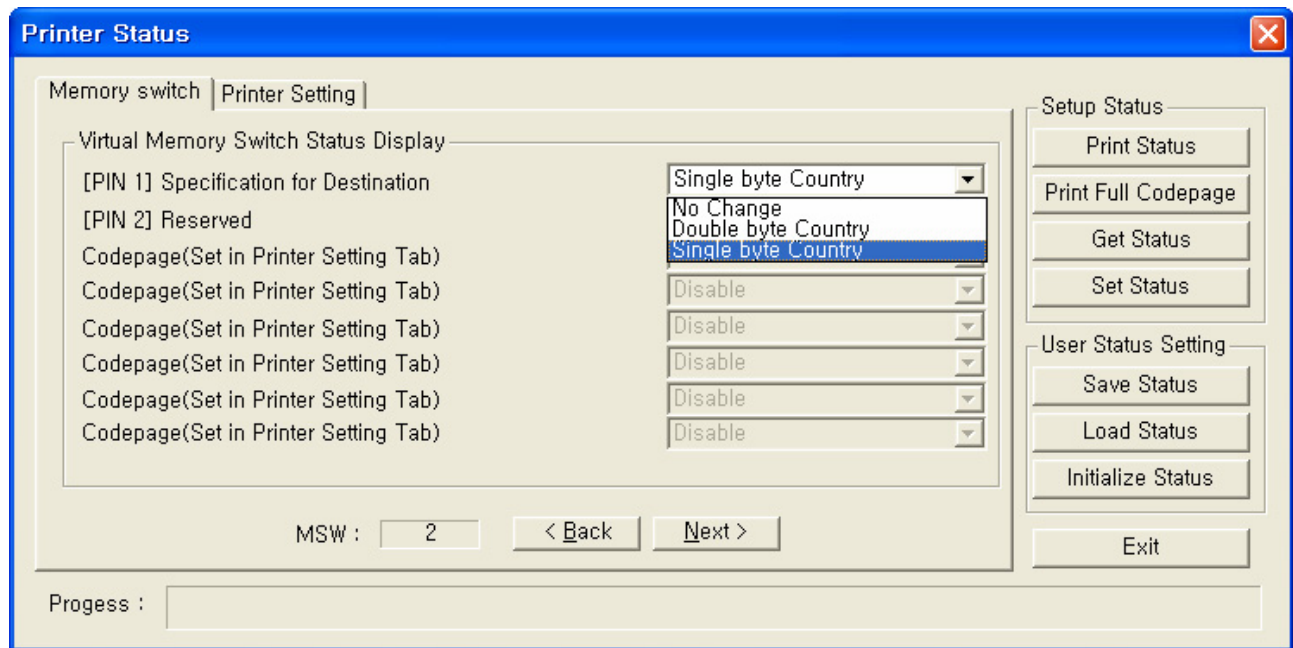
The screenshot shows the 'Printer Status' window with the 'Memory switch' tab selected. The window has a blue title bar and a close button. The main area is divided into two sections: 'Memory switch' and 'Printer Setting'. The 'Memory switch' section contains a 'Virtual Memory Switch Status Display' with a list of settings: 'Print Speed (Set in Printer Setting Tab)', '[PIN 3] Reserved', '[PIN 4] Reserved', '[PIN 5] Reserved', '[PIN 6] Reserved', '[PIN 7] Reserved', and '[PIN 8] Reserved'. Each setting has a dropdown menu currently set to 'Disable'. Below this list is a 'MSW' field with a value of '1' and buttons for '< Back' and 'Next >'. The 'Printer Setting' section is empty. On the right side, there are two groups of buttons: 'Setup Status' (Print Status, Print Full Codepage, Get Status, Set Status) and 'User Status Setting' (Save Status, Load Status, Initialize Status). At the bottom right is an 'Exit' button. A 'Progress' bar is at the bottom left.

- 4) The “Printer Setting” Tab displays Serial communication settings, printer information, and code page information, and allows new settings to be defined.

The screenshot shows the 'Printer Status' window with the 'Printer Setting' tab selected. The window has a blue title bar and a close button. The main area is divided into two sections: 'Memory switch' and 'Printer Setting'. The 'Memory switch' section is empty. The 'Printer Setting' section contains several settings: 'Printer Model : Metapace T-3', 'Firmware Version : V00.41 STB 121010', 'Language : PC437', 'Double byte Font selection' (dropdown set to 'No Change'), 'Emulation' (dropdown set to 'Emulation 1 [Default]'), 'Default Code Page' (dropdown set to 'PC437 (USA: Standard Europe)'), 'Single Byte Font Selection' (dropdown set to 'Font A (12x24)'), 'Power Save Mode' (radio buttons for 'Disable' and 'Enable', with 'Disable' selected), 'Entrance time(sec) : 48', and 'Print Speed' (dropdown set to 'Print speed 3 [Default]'). On the right side, there are two groups of buttons: 'Setup Status' (Print Status, Print Codepage, Get Status, Set Status) and 'User Status Setting' (Save Status, Load Status, Initialize Status). At the bottom right is an 'Exit' button. A 'Progress' bar is at the bottom left.

4-3 Setting the memory switch status of the Printer

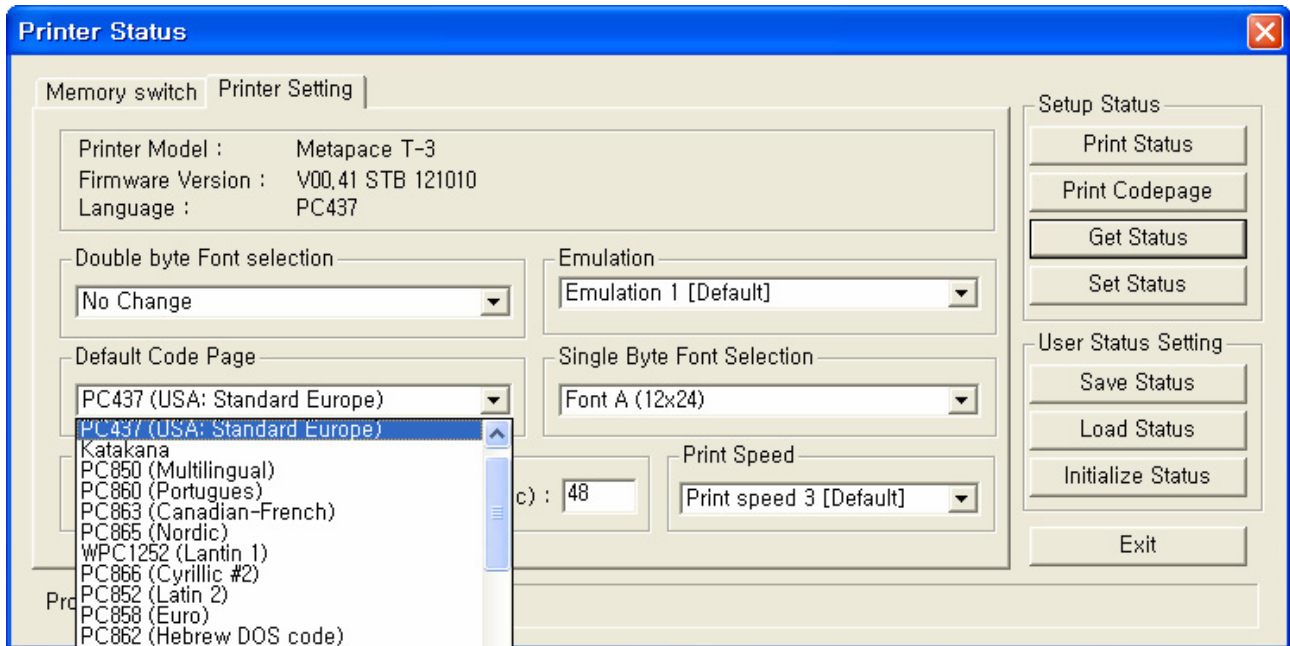
After getting the memory switch status of the printer, the status of the printer can be modified.



- 1) "Get Status"
Pressing this button displays the current memory switch settings read from the printer.
- 2) "Set Status"
Pressing this button allows the user to designate switch settings of the printer.
- 3) "Save Status"
Pressing this button saves the current memory switch settings to file.
- 4) "Load Status"
Pressing this button loads and displays the previously-saved memory switch settings file.
- 5) "Initialize Status"
Pressing this button resets the memory switch settings.

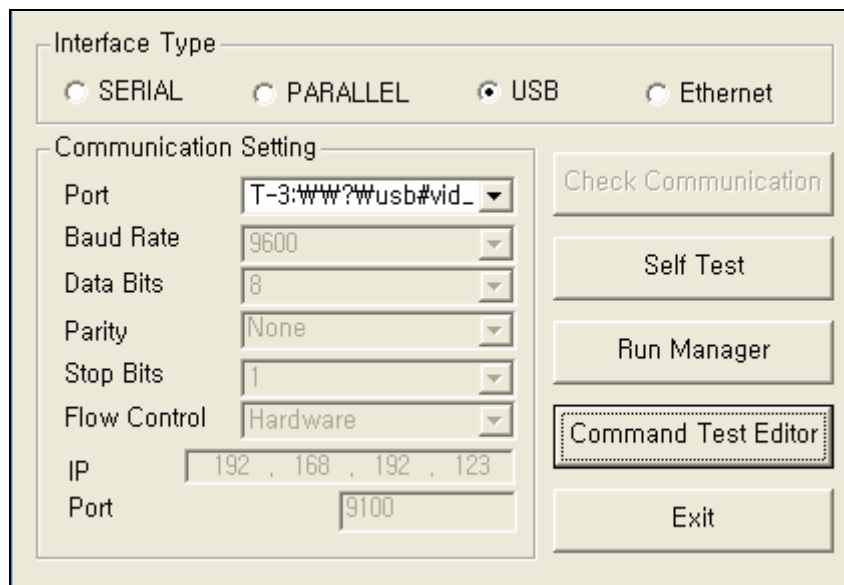
6) "Default Code Page Combo Box"

The user may select and set the default code page. However, for T-3 printers, this function is available only if the Nation Set Management Combo Box is set to STD.



4-4 Using the Command Test Editor

1) If the Communication Setting is OK, click the "Command Test Editor" button.



Virtual Memory Switch Manager

- 2) If the “Command Test Editor” button is pressed, the following dialog box will appear. Using this Dialog, the user can write and edit the command and send to the printer. Each button of “Printing Option” and “Etc” group can insert commands to edit box. Also “Write Command” button can transfer these commands to the printer. To verify the result of sending the command can use the “Print Test String” button.

The screenshot shows the "Command Test Editor" dialog box. It has a title bar with a close button. The main area contains a text box for the command, with a label "Command (Hex Value, Ex: 1d 61 ff 0a)". To the right of the text box are two buttons: "Write to the Printer" and "Write Command". Below these is a "Test Printing" section with a "Print Test String" button. A note below the text box says: "* After Editing the Command, Click the Command Write Button to send the Printer". Below the note is a "Printing Option" section with a "Font" group containing "Font A", "Font B", "Line Spacing", and "Select Codepage" buttons, and "Bold" and "Underline" checkboxes. There is also an "Alignment" group with "Left Alignment", "Center Alignment", and "Right Alignment" buttons. To the right of the alignment buttons is a "Cut and Feeding" group with "Paper Cut" and "Feed" buttons. Below the "Printing Option" section is an "Etc" section with an "NV Image" group containing a "Print NV Image" button, and a "Cash Drawer" group containing "Open Drawer1 50ms(2pin)" and "Open Drawer2 50ms(5pin)" buttons. At the bottom of the dialog are four buttons: "Clear", "Save", "Load", and "Close".

Command Test Editor

Command (Hex Value, Ex: 1d 61 ff 0a)

Write to the Printer

Write Command

Test Printing

Print Test String

* After Editing the Command, Click the Command Write Button to send the Printer

Printing Option

Font

Font A Font B Line Spacing Select Codepage

Alignment

Left Alignment Center Alignment Right Alignment

Cut and Feeding

Paper Cut Feed

Etc

NV Image

Print NV Image

Cash Drawer

Open Drawer1 50ms(2pin) Open Drawer2 50ms(5pin)

Clear Save Load Close