



T27 eXpress Enterprise Print Manager

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Book1 - Print Manager

T27 eXpress Print Manager

The T27 eXpress Print Manager is used to manage, configure and monitor print jobs initiated through the T27 eXpress Enterprise emulator.

Note: All menu selections described below have a corresponding button on the toolbar.

File menu

The File menu contains the controls to connect, configure, add and delete printer environments.

Start/Stop Selected Printer

Use this control to start and stop selected printer services.

Configure Selected Printer

Use this control to change the configuration settings for the selected printer.

Add New Printer

Use this control to add a new printer environment to the Print Manager.

Delete Selected Printer

Use this control to delete a selected printer.

Change Settings Location

This selection allows the maintenance of configuration settings in one location for all users of this software or in individual locations for each user.

Close

Use this control to close the T27 eXpress Print Manager.

View menu

The View menu contains the control that allows you to view the progress of a selected print environment.

Show Selected Printer Window

Use this selection to display the PTS dialog. This dialog displays the status, bytes printed and bytes printed since the service was first started.

If a trace option was configured for the printer environment, use this selection to initiate the trace option selected.

Options

The Options menu has one selection to be used for obtaining a transport trace at the request of KMSYS Worldwide Support Personnel.

Transport Trace

Select this option to initiate a Transport Trace. Use this option only when directed by KMSYS Support Personnel.

T27 eXpress Print Server Configuration

Environment tab

This tab is used to establish the printing environment.

Printer Environment

The controls in this group are used to equate a configured route to the environment name. To assign a route, select a configured route that will be used as a printer from the Available Connection Routes list box and press the Assign Selected Routes button. If a route has not been configured previously, click the Configure button to start the QPort TCP/IP Visual Configuration program and configure a new route. Note: Choose PRINTER as the Terminal Type for the new route.

Name

The environment name may be any name of your choosing.

Select Connection Point (Destination)

From this drop-down list box, select a configured destination to be used when the screen is opened. If additional destinations are required, use the **Configure Connections** button.

Configure Connections

Click this button to configure the virtual destinations required to connect to a host. When complete, use the **Select Connection Point** drop-down list box to link a newly configured destination.

Station Name

In this text box, enter a station name as configured in COMS on the mainframe. This name will be passed to the ClearPath MCP host.

Open on startup

Check this box to cause the environment to connect automatically to the host on Print Service Manager startup.

Use keep-alive

Keep-alive will attempt to reconnect when the network connection is lost due to inactivity or line problems. The first retry will occur immediately and subsequent attempts occur every minute thereafter until the connection is re-established or the print server is closed.

Auto-reconnect idle minutes (0 for none)

You can configure an inactivity interval, at which point the connection will close and reopen. Specify the interval in minutes (60 recommended). If zero (the default) is entered, this feature is disabled. Normally, no reopen occurs during printing; however, a low paper supply or other condition causing a print interruption could allow for an interval reopen.

Trace on Start Option

Use one of the mutually exclusive option buttons in this group to trace the connection activity to the host.

Destination Device tab

This tab is used to link the printer environment to a local or network printer. The tab is also used to select the type of printing, printer orientation and page size.

Printing Method

In this group, choose one of three printing methods.

Normal Windows Printing

Set this option if the output is to be sent to the printer using a Windows print driver. Note: This option should not be selected if there are any embedded formatting codes in the data; e.g., do not use for passthrough printing.

Windows Print Bypass

Set this option to bypass the Windows printing and send directly to the printer. This option should be set for passthrough printing.

Print to File

Set this option if the output is to be saved in a PC file.

Spooling

Set the spooling option to specify whether the print should be sent directly to the printer or spooled to disk before printing.

Windows Printer

From this drop-down list box, select an installed printer driver.

Select Font

Click this button to select from all fonts installed on this PC.

Printer Orientation

Set the printer orientation to either Portrait or Landscape.

Page Size

Set the page size to the desire number of Columns and Lines.

Processing tab

This tab is used to specify the means by which print data is handled coming from the host.

Data Compression Method

In this group, choose the compression method that is supported.

None

No compression takes place.

Standard T27 Method

Supports repeated spaces being compressed by the host program using an escape sequence. The host program sends the escape character (hex 1B) followed by an open bracket, a number representing the number of spaces compressed and the letter "a" that acts as the terminating character of the escape sequence. For example, the compressed string, "<ESC>[12a", expands to 12 consecutive spaces.

This is the normal method for T27 operations.

Tab Method

Supports repeated spaces being compressed using a tab character (hex 09) followed by a number representing the number of spaces compressed. For example, the compressed string, "<TAB>12", expands to 12 consecutive spaces.

Timeout

Use this spin box to specify how long the Print Service Manager will wait for additional print data before automatically closing the printer.

Misc.

The options in this group may be used to identify and convert special character sequences in the print data.

Support ESC ESC P Redirection

Check this box if the host program is supplying printer redirection escape sequences to a file. For example, "<ESC><ESC>Pc:\adir\afile.txt<CR>" will redirect the print to the file, afile.txt, in the directory, adir, on the c: drive.

Convert CR to CR LF (Windows print bypass only)

Check this box to convert any single "<CR>" return to a "<CR><LF>".

Strip ASCII Control Characters (ASCII 00-31)

Check this box to eliminate any ASCII special characters (ASCII 00 through 31).

Host to Printer Character Translations

Optionally use the entries in this table to specify the ASCII characters that eXpress Enterprise is to substitute when receiving special ASCII characters from the host.

Host Char.

In this column, enter the decimal representation of the anticipated ASCII host character.

Print Char. 1 through Print Char. 4

In these columns, enter the decimal representation of the ASCII replacement character(s) sent to the printer.

Example of translating the tilde (~) to the Esc character:

Host Char	Print Char 1
126	27

Note: For additional rows in the table, click the **Add Row** button. The new row inserts at the bottom of the table. Use the **Delete Row** button to delete a selected row.

Character Translation Table

From this drop-down list box, select the desired character set.

Edit Character Translation

Press this button to select and edit character translation sets for specific countries.

Print File Options tab

This tab is used to direct printed output to a printer and/or file.

Print to

Click one of three mutually exclusive radio buttons in this group: 1) Printer Only (default), 2) Printer and file or 3) File only.

File Name Option

Select one of two mutually exclusive options in this group: 1) by prompting for file name or 2) automatically use date and time.

Default File Path

Click the Browse button to change the destination path of the print file. The default is the Windows desktop.

Note: To Print or Reprint a file, the desired Printer must be Started. There will be a "Reprint" button at the bottom of the Print Service dialog. That button brings up a dialog that allows the user to select a printer and a file. Once OK'ed, the file will be printed. The file does not have to be processed using the original printer configuration that was used when it was created.

Reprint from File

Use this dialog box to select a printer and print file for printing.

Select Printer

From this list box, select the destination printer.

Reprint File

Enter the path and file name of the file to be printed, or use the Browse button to select the file.

Character Translation

This window provides the ability to select and edit character translation sets for specific countries.

Select/Create Translation Tables

This group allows you to maintain the tables for character translation.

Currently selected table

This box displays the currently selected table.

Select Table Name

Select the translation set (the default is NO TRANSLATION) for your locality.

Add

To add a translation set, click the **Add** button. A second window will appear where you may enter a country name that will correspond to the translation set.

Edit

To change one or more characters in a translation set, highlight a country name using the left mouse button or the up/down arrow keys and edit a character with the controls on the right under **Edit Character Translation Table**.

Delete

To delete a translation set, highlight a country name using the left mouse button or the up/down arrow keys and click the **Delete** button.

Edit Character Translation Table

This group allows you to specify host character and local character pairs for translation on all data received from, or sent to, the host during an **eXpress Enterprise** session.

Character translation table

Select an existing character in the translation table using the scroll bar, mouse and/or up/down arrow keys. Type any changes into the two text boxes (**Host** and **Local**) at the bottom of the window.

Add Char

To add a new character, select each of the two text boxes (**Host** and **Local**) at the bottom of the window, enter the new values and click the **Add Char** button.

Delete Char

To delete an existing character, select a character in the translation table using the scroll bar, mouse and/or up/down arrow keys and click the **Delete Char** button.

Move Up

Use this button to move the selected character in the translation table up one entry.

Move Down

Use this button to move the selected character in the translation table down one entry.

Edit Selected Character

Use the controls in this group to enter the codes for the selected character.

Host

Enter the character code as it appears on the host.

Local

Enter the character code as it appears on the PC.

Character Edit Mode

Select one of two options for entering the character codes, above: Decimal or Hexadecimal.

Import

Use this button to import an existing character translation file (.ini).

Export

Use this button to save the current character translation configuration to a file.

Change Settings Location

The purpose of this feature is to allow all users of a single machine (Windows system) to use the same configuration settings for the T27 eXpress Enterprise terminal emulator and/or the eXpress Connect host connections. By default, all emulator settings are saved in files for the current user, which allows multiple users on the same machine to have their own individual settings.

In some cases, it may be desirable to have one set of configuration settings used by all users of the machine. One reason for common settings is so that the configuration settings can be established once for all users, instead of for each individual user; however, users should **NOT** be allowed to make configuration changes once they are set. There should only be one person allowed to maintain the configuration. If common configuration settings are desired, the emulator settings will be stored in common files and removed from current user.

Use this dialog to switch the location of the T27 eXpress Enterprise configuration settings. The settings may be stored in such a manner as to allow multiple users of a single Windows system to maintain their individual configurations. When individual configurations are to be maintained (the default), the settings are placed under *<Current User>* in Application Data. On the other hand, if it is desirable for all users of the system to use the same configuration, an option is available to move those settings to the common location, "All Users". Note: See the %APPDATA% system variable.

Note: "*<Current User>*" will be the user-id used to log on to Windows.

The dialog acts as a toggle between *<Current User>* and All Users; i.e., if your settings are currently stored in *<Current User>*, the message will indicate that they be moved to All Users; if they are in All Users, the move would be to *<Current User>*.

Screen and General Settings

Select an option in this group to move the screen and general settings.

Current Location

The option set when the dialog first appears represents the location currently used to house the configuration files. To move the settings, select the opposing option and click the **Apply** button.

Connection Settings

Select an option in this group to move the connection settings.

Current Location

The option set when the dialog first appears represents the location currently used to house the configuration files. To move the settings, select the opposing option and click the **Apply** button.

Book2 - Connections

eXpress Connections Configuration

Use this window to control the overall operation of the configuration process and to configure connections to a host, visually.

In the work area, there is a column of virtual destinations to hosts. At the top the column, there is a row of action buttons for managing the destinations (add, edit, duplicate, etc.).

The following is a description of each mouse action and button:

Mouse Actions

Select an Existing Virtual Destination

Use the left mouse button to select an existing virtual destination.

Edit an Existing Virtual Destination

Double-click the left mouse button on an existing virtual destination to open a configuration dialog to edit the required parameters.

Menus and Tool Bar Buttons

File

Save and Close

This selection saves changes made to the configuration and exits the eXpress Connect Virtual Configuration routine.

Print

This selection will print the eXpress Connect Visual Configuration window. The standard Windows **Print** dialog will appear allowing printer selection and property adjustments for the selected printer.

Cancel and Close

This selection discards any changes made and exits the configuration routine.

Edit

Sort

This selection will sort the virtual destinations in alphabetical order on the visual configuration window.

Help

Pressing this button pops up a menu with the following selections:

Contents

This selection displays the help Contents tab for the eXpress Connect configuration program.

About

This selection displays the copyright information about the eXpress Connect Visual Configuration.

Virtual Destinations

Use these controls to manage virtual destinations:

Add button

Add a new virtual destination.

Edit button

Edit the selected virtual destination.

Duplicate button

Duplicate the selected virtual destination.

Delete button

Delete the selected virtual destination.

Sort button

Sort the virtual destinations in the list in alphabetical order.

Move Up button

Move the selected virtual destination up in the list.

Move Down button

Move the selected virtual destination down in the list.

Edit Virtual Destination

Use this window to define a potential host.

Virtual Destination Id

This is the name of the configured Virtual Destination. Enter any meaningful name.

IP Address

In this text box, enter an IP address (in "dotted" notation or symbolic destination machine name) of a host.

When using a Host Gate Server from KMSYS Worldwide, this is the IP Address of the server – not the host.

Edit IP Address

Click this button to edit the IP address of the destination. Use the context sensitive help provided for further assistance.

IP Port Id

This is the IP port for your site (normally, 23). For SSL connections through Host Gateway Server (HGS) from KMSYS Worldwide, 992 is the accepted standard.

Connection Type

UNISYS (A-Series), UNIGATE (V-Series), Local (PCA) and KMSYS Host Gateway Server are currently the only supported connection types.

SSL Options

Note: This feature is not available for users of T27 eXpress IT. If encryption and authentication is required, please contact KMSYS Worldwide, Inc. for pricing on T27 eXpress Enterprise.

When utilizing the KMSYS **Host Gateway Server**, you may specify authentication and encryption. Authentication validates the connection between the client and host or server, respectively. For encrypted data, check the **Use Authentication** box.

Normally, the establishment of an SSL connection requires that the name in the host certificate match the address (FQDN/IP Address) used to make the connection. Sometimes, a site may require a host certificate created with a name different from its address. In this case, place the name on the certificate in the **Alternate Principal Name** field.

Book3 - Miscellaneous

Running Minimized

To run the T27 eXpress Plus Print Service Manager minimized, add the "m" option to the command line. Using to Windows task bar, locate and right click the icon titled "T27 eXpress Print Manager." Add the "m" option to the **Target** text box. For example:

```
"C:\Program Files\ ... \T27PrintManager.exe m"
```

Error Handling

WINSOCK Error	Explanation and Possible Action
"[10004] Interrupted system call"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10009] Bad file number"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10013] Permission denied"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10014] Bad address"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10022] Invalid argument"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10024] Too many open files"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10035] Operation would block"	In the unlikely event this error occurs, please call KMSYS Worldwide for assistance.
"[10036] Operation now in progress"	In the unlikely event this error occurs, please call KMSYS Worldwide for assistance.
"[10037] Operation already in progress"	In the unlikely event this error occurs, please call KMSYS Worldwide for assistance.
"[10038] Socket operation on non-socket"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10039] Destination address required"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10040] Message too long"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10041] Protocol wrong type for socket"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10042] Bad protocol option"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10043] Protocol not supported"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10044] Socket type not supported"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10045] Operation not supported on socket"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10046] Protocol family not supported"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10047] Address family not supported by protocol family"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10048] Address already in use"	IP Address conflict on network or stack. Seek assistance from your network administrator.
"[10049] Can't assign requested address"	IP Address conflict on network or stack. Seek assistance from your network administrator.
"[10050] Network is down"	Problem with TCP/IP network or stack. If eXpress Connect has been working, wait awhile. If eXpress Connect has <u>not</u> been working, seek assistance from your network administrator.
"[10051] Network is unreachable"	Problem with TCP/IP network or stack. If eXpress

	Connect has been working, wait awhile. If eXpress Connect has <i>not</i> been working, seek assistance from your network administrator.
"[10052] Net dropped connection or reset"	Problem with TCP/IP network or stack. If eXpress Connect has been working, wait awhile. If eXpress Connect has <i>not</i> been working, seek assistance from your network administrator.
"[10053] Software caused connection abort"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10054] Connection reset by peer"	In the unlikely event this error occurs, please call KMSYS Worldwide for assistance.
"[10055] No buffer space available"	Quit all Windows applications, exit Windows and reboot your PC.
"[10056] Socket is already connected"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10057] Socket is not connected"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10058] Can't send after socket shutdown"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10059] Too many references, can't splice"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10060] Connection timed out"	If this error occurs, try shutting down Windows and perform a hard boot (reset button or power-off/power-on) of your PC. If the problem persists, please call KMSYS Worldwide for assistance.
"[10061] Connection refused"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10062] Too many levels of symbolic links"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10063] File name too long"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10064] Host is down"	Remote system is not responding.
"[10065] No Route to Host"	There is no Route to remote system. Check address and router address.
"[10066] Directory not empty"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10067] Too many processes"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10068] Too many users"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10069] Disc Quota Exceeded"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10070] Stale NFS file handle"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10071] Too many levels of remote in path"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10091] Network SubSystem is unavailable"	If this error occurs, please call KMSYS Worldwide for assistance.
"[10092] WINSOCK DLL Version out of range"	WINSOCK must be version 1.1 or higher. Contact your WINSOCK vendor for a new version.
"[10093] Successful WSASTARTUP not yet performed"	If this error occurs, please call KMSYS Worldwide for assistance.
"[11001] Host not found"	If this error occurs, please call KMSYS Worldwide for assistance.
"[11002] Non-Authoritative Host not found"	If this error occurs, please call KMSYS Worldwide for assistance.
"[11003] Non-Recoverable Error_Handling: FORMERR, REFUSED, NOTIMP"	If this error occurs, please call KMSYS Worldwide for assistance.

"[11004] Valid name, no data record of requested type"

If this error occurs, please call KMSYS Worldwide for assistance.

Technical Support

If you are experiencing difficulties configuring eXpress Connect or are experiencing run-time difficulties, please consult the person responsible for maintaining communications at your site for assistance. If difficulties persist, please contact the Technical Support Group at KMSYS Worldwide, Inc. Obtain assistance over the Internet at www.kmsys.com, by email at support@kmsys.com or telephone at (770) 635-6363.

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