



Sun™ MTP J3270 User's Guide

Release 8.0

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650-960-1300

Part No. 816-5339-10
March 2003, Revision A

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Preface

This document describes how to install and use Sun™ MTP J3270 software. Sun MTP J3270 is a 3270 terminal emulator that provides support for 3278 models 2, 3, 4, and 5 in both extended and non-extended mode. Sun MTP J3270 allows you to connect to any Telnet 3270 (TN3270) server, such as Sun MTP running the `unikixtnemux` server.

How This Book Is Organized

Chapter 1 describes how to install the software.

Chapter 2 describes how to start and use the software.

Using UNIX Commands

This document does not contain information on basic UNIX® commands and procedures such as shutting down the system, booting the system, and configuring devices.

See one or more of the following for this information:

- *Solaris Handbook for Sun Peripherals*
- AnswerBook2™ online documentation for the Solaris™ operating environment
- Other software documentation that you received with your system

Typographic Conventions

Typeface ¹	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. % You have mail.
AaBbCc123	What you type, when contrasted with on-screen computer output	% su Password:
<i>AaBbCc123</i>	Book titles, new words or terms, words to be emphasized. Replace command-line variables with real names or values.	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> be superuser to do this. To delete a file, type <code>rm filename</code> .

¹ The settings on your browser might differ from these settings.

Shell Prompts

Shell	Prompt
C shell	<i>machine-name%</i>
C shell superuser	<i>machine-name#</i>
Bourne shell and Korn shell	\$
Bourne shell and Korn shell superuser	#

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Installing Sun MTP J3270

This chapter describes how to install the Sun MTP J3270 software.

Check the SunSolve website at <http://sunsolve.sun.com> on a regular basis for any Sun MTP J3270 patches that are available, and apply the recommended patches.

Prerequisites

For each Sun MTP region you wish to connect to with Sun MTP J3270, you must configure the `unikixtnemux` TN3270 server. Refer to the *Sun Mainframe Transaction Processing Software Configuration Guide* for instructions.

Sun MTP J3270 is written in the Java™ programming language. You must use at least the Java 1.4 runtime environment (JRE) at runtime. You can obtain a JRE for your platform at:

<http://java.sun.com>

Note – If you install the Windows InstallShield version of Sun MTP J3270, the JRE is included in the package.

Installing Sun MTP J3270

This section describes how to install Sun MTP J3270 on Solaris platforms and on Windows systems. Sun MTP J3270 is distributed in the following formats for different platforms on the client CD-ROM:

- A *.zip file is for use on Solaris and UNIX systems.
- A *.exe file is an InstallShield executable for Windows systems.

If you download a patch release from SunSolve, be sure to select the correct format for your hardware platform.

▼ To Install Sun MTP J3270 on Solaris Systems

1. **Locate the *.zip file that contains the Sun MTP J3270 software.**
2. **Use the zip command to uncompress the archive under the desired directory.**
Refer to the ZIP(1) man page for information about command options.

▼ To Install Sun MTP J3270 on Windows Systems

1. **Locate the *.exe file that contains the Sun MTP J3270 software.**
2. **Start the installation using either method:**
 - Double-click the *.exe file.
 - On the Windows desktop, select Start → Run, type the name of the Sun MTP J3270 executable, and click OK.
3. **Follow the on-screen directions to complete the installation, making sure to select the desired installation location.**

When the installation is complete, you can start Sun MTP J3270. See “Starting Sun MTP J3270” on page 3.

Note – You can use Sun MTP J3270 without having to reboot your system.

Using Sun MTP J3270

This chapter covers the following topics:

- “Starting Sun MTP J3270” on page 3
- “Command Line Parameters” on page 4
- “3270 Emulator Window” on page 6
- “Connecting to a 3270 System” on page 9
- “Specifying Keyboard Mapping” on page 11
- “Using Sun MTP J3270 in DBCS Mode” on page 13
- “Making an Association With an Internet Browser” on page 14

Starting Sun MTP J3270

This section describes how to start Sun MTP J3270 on various platforms.

▼ To Start Sun MTP J3270 on Solaris and UNIX Systems

1. **Change to the `bin` directory of the Sun MTP J3270 installation, or verify that the `bin` directory is in your path.**
2. **Type the `j3270` command with or without parameters.**
See “Command Line Parameters” on page 4.

▼ To Start Sun MTP J3270 on Windows Systems

- Use one of the following methods:

- On the Windows Start menu, select Start → Programs → Sun MTP J3270 8.0.0 → 3270 Terminal.
- Create a Windows shortcut to start the `j3270.exe` program.
- If you are in the Sun MTP J3270 `bin` directory or if the Sun MTP J3270 `bin` directory is in your path, type `j3270`.

With all of these methods, you can specify startup parameters. You can modify the properties of the Start button entry for the 3270 Terminal or the properties of a shortcut you created. At a command prompt, specify the options on the command line. “Command Line Parameters” on page 4 describes these parameters.

Command Line Parameters

You can start Sun MTP J3270 with a series of parameters. Supplying a URL or host and port causes the emulator to automatically attempt a connection to the specified host.

Format

```
j3270 [-h hostname [-p portnumber]] | [-u URL] [-m model] [-f font]  
[-n netname] [-t timeout-value] [-s print-style] [-c codepage] [-x]  
[-r [filename]]
```

where:

-h <i>hostname</i>	Name of TN3270 server host.
-p <i>portnumber</i>	Port number of TN3270 server. This is the same as the port number specified as the <code>TNServer*ListenPort</code> in the <code>unikixrc.cfg</code> file.
-u <i>URL</i>	TN3270 host and port specified as a URL. For example: <code>tn3270://myserver.com:2002</code>
-m <i>model</i>	Terminal model; valid values are: 2, 2-E, 3, 3E, 4, 4-E, 5, and 5-E. The default model is 2-E.
-f <i>font</i>	<i>font</i> is in the format <code>name.style.size</code> . For example: <code>-f Monospaced.PLAIN.12.</code>
-n <i>netname</i>	If you allow TN3270E, you can request a specific <i>netname</i> for this terminal.

<code>-t <i>timeout-value</i></code>	Host inactivity <i>timeout-value</i> in seconds. Sun MTP J3270 automatically disconnects from the host after a period of inactivity. Inactivity is determined from the last time any network activity between the host and Sun MTP J3270 occurred. The default is not to time out, which is the same as specifying <code>-t 0</code> .
<code>-s <i>print-style</i></code>	Style to use for printing. Valid values are: <ul style="list-style-type: none"> • <code>normal</code>: Print same as appears on screen • <code>whiteonblack</code>: Print in white on a black background • <code>blackonwhite</code>: Print in black on a white background • <code>coloronwhite</code>: Print in color on a white background The default is <code>normal</code> .
<code>-c <i>codepage</i></code>	<i>codepage</i> to use. One of the following: <ul style="list-style-type: none"> • IBM-037 (US English, Portuguese, Canadian French) • IBM-273 (German) • IBM-277 (Danish, Norwegian) • IBM-278 (Finnish, Swedish) • IBM-280 (Italian) • IBM-284 (Spanish) • IBM-285 (UK English) • IBM-297 (French) • IBM-500 (Belgian, Swiss German) • IBM-870 (Croatian, Czechoslovakian, Hungarian, Polish, Romanian, Serbian Latin, Slovak, Slovene) • IBM-875 (Greek) • IBM-930 (Japanese DBCS) • IBM-933 (Korean DBCS) • IBM-935 (Simplified Chinese DBCS) • IBM-937 (Traditional Chinese DBCS) • IBM-939 (Japanese DBCS) • IBM-1025 (Bulgarian, Macedonian, Serbian Cyrillic, Russian) • IBM-1026 (Turkish) • IBM-1047 (Open edition) • IBM-1140 (US English - Euro) • IBM-1141 (German - Euro) • IBM-1142 (Danish, Norwegian - Euro) • IBM-1143 (Finnish, Swedish - Euro) • IBM-1144 (Italian - Euro) • IBM-1145 (Spanish - Euro) • IBM-1146 (UK English - Euro) • IBM-1147 (French - Euro) • IBM-1148 (Multilingual - Euro) • IBM-1149 (Icelandic - Euro)

-x	Excludes the use of the TN3270E protocol when connecting to the remote system. Only TN3270 is used.
-r [<i>filename</i>]	Identifies the remote animation file to use. The file name is optional. If no file name is specified, Sun MTP J3270 uses the file <i>J3270-directory/etc/animation_command</i> . Remote animation is supported only on Windows platforms.

3270 Emulator Window

The emulator window has three parts: the menu bar, the emulator itself, and a status bar.

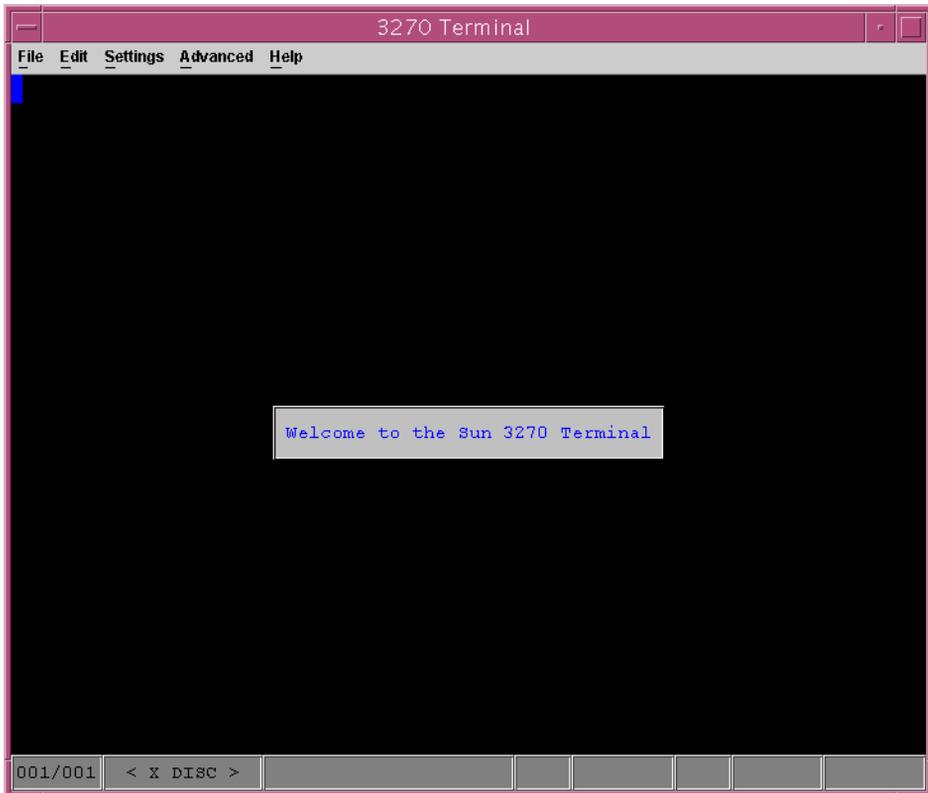


FIGURE 2-1 Disconnected Emulator

The Menu Bar

The emulator's menu bar has five items: File, Edit, Settings, Advanced, and Help.

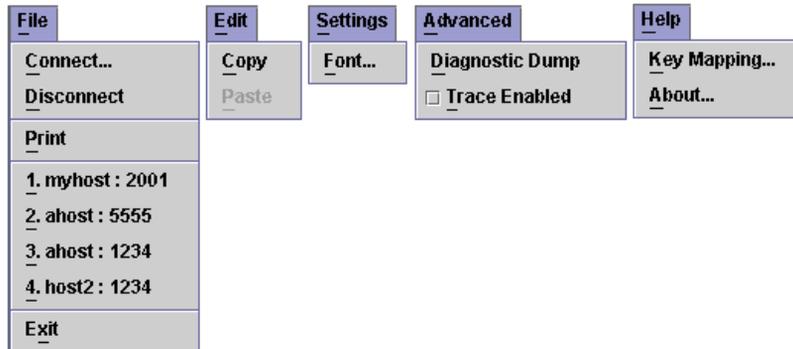


FIGURE 2-2 Menu Bar

The menu bar enables you to:

- Connect to a TN3270 system, if the emulator is in a disconnected state
- Disconnect from the currently connected system, if the emulator is in a connected state
- Print the current display
- Change the font of the display
- Display the current keyboard mapping
- Copy the screen to the system clipboard
- Paste the contents of the system clipboard to the emulator
- Capture diagnostic information

The File menu also displays the last four systems the emulator connected to. When the emulator is disconnected, clicking on one of the systems causes the emulator to attempt to connect to it.

The Emulator

When the emulator is connected, it responds to keyboard input like a standard 3270 terminal. For information on how 3270 keys are mapped to keys on your keyboard, see “Specifying Keyboard Mapping” on page 11.

By default, the terminal does not automatically disconnect (*timeout*) from a system that it is connected to. If you want it to automatically timeout, you must specify a terminal timeout value when starting Sun MTP J3270. See “Command Line Parameters” on page 4 for information about the timeout startup parameter.

The Status Bar

The status bar displays information about the terminal and is divided into sections.

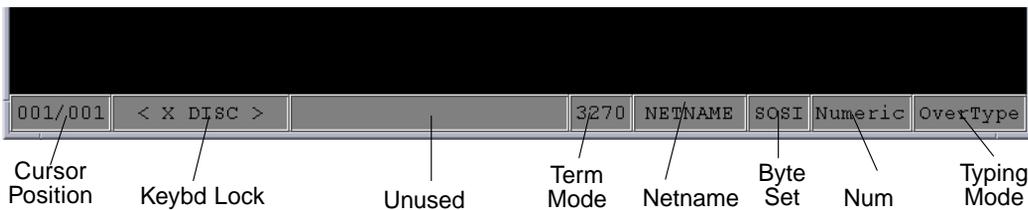


FIGURE 2-3 Status Bar

The labels in FIGURE 2-3 indicate each section of the status bar and are described in the following table:

Label	Description
Cursor Position	Indicates the row and column numbers of the cursor position.
Keybd Lock	Indicates if the keyboard is locked.
Unused	Indicates that this section is not used.
Term Mode	Indicates the terminal mode. Displays 3270, NVT, or SUSP.
Netname	indicates the netname of the terminal, if there is one.
Byte Set	The byte set of the field that the cursor is currently on: either SBCS (pure single byte), SOSI (a combination of single and double byte), or DBCS (pure double byte). These values are displayed only when the host is connected using a double-byte codepage. If the terminal is connected using a single-byte codepage, this area is blank.
Num	Indicates whether the field is numeric. Displays Numeric if the current field is numeric, or else it is blank.
Typing Mode	Indicates the typing mode. This displays either Insert or OverType.

Connecting to a 3270 System

If you specify the `-h hostname` or `-u URL` parameters when starting Sun MTP J3270, the emulator automatically attempts to connect to the specified host system. If you do not specify the `-h` or `-u` parameters, use the following procedure to connect to a host.

▼ To Connect to a Host

1. Start Sun MTP J3270 by selecting it on the Start menu or by typing `j3270` at a command prompt.

The terminal emulator window is displayed.

2. Select **File** → **Connect** to display the **Connect** window.

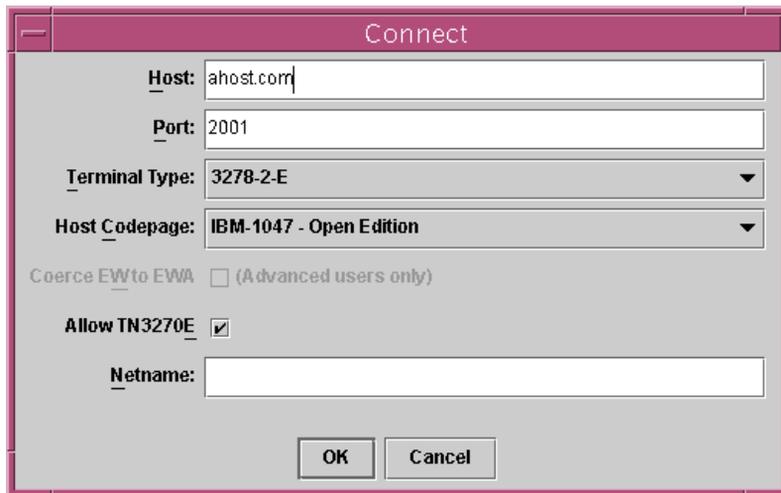


FIGURE 2-4 Emulator Connect Window

3. Set the attributes by typing values in the following fields:

- a. In the **Host** field, type the host name.

- b. Type a port number in the **Port** field; the default is **2001**.

This is the same as the port number specified as the `TNServer*ListenPort` in the `unikixrc.cfg` file.

- c. **Select a terminal type for the Terminal Type field using the drop-down menu; the default is 3278-2-E.**
- d. **Select a codepage for the Host Codepage field by using the drop-down menu.**
The default is IBM-1047 (Open Edition). The supported codepages are listed in “Command Line Parameters” on page 4.
- e. **The Coerce EW to EWA field is enabled only for Terminal types 3278-3, 3278-3-E, 3278-4, 3278-4-E, 3278-5, and 3278-5-E.**
Some TN3270 servers do not generate correct 3270 datastreams for these terminal types. When you check this box, Sun MTP J3270 displays the screens correctly.

Note – The coerce option is available only on the Connect window. There is no equivalent command line parameter.

- f. **Check or deselect the Allow TN3270E check box, which allows the use of the TN3270E protocol when connecting to the remote system.**
- g. **Type a value in the Netname field.**
If you checked Allow TN3270E, you can request a specific *netname* for the terminal.

4. Click Connect to start the connection process.

A message is displayed if Sun MTP J3270 fails to connect to the specified host. If you connect successfully, the first screen of the 3270 host is displayed.

Note – The last four systems that were connected to, either successfully or unsuccessfully, are displayed on Sun MTP J3270's File menu. Clicking on one of these entries causes Sun MTP J3270 to automatically attempt to connect to that host.

Copy and Paste

Use the copy action to copy the current emulator display to the clipboard of your operating system. To paste the contents of the system clipboard to the Pathway Terminal, use the paste action. The emulator cursor must be in a field that permits keyboard input to perform a successful paste operation.

By default, Ctrl-C can be used for the copy command and Ctrl-V for the paste command. These keystrokes can be remapped in the usual manner.

Specifying Keyboard Mapping

A real 3270 emulator has a number of special keys, such as Clear and Reset, that are not provided on the standard PC keyboard. Sun MTP J3270 maps certain keys and key combinations to the actions of these special keys.

▼ To View the Current Key Mapping

- On the emulator window, select **Help** → **Key Mapping**.

▼ To Change the Current Key Mapping

- **Edit the `.j3270.keymap.properties` file, which is located in your `$HOME` directory.**

The following example shows some lines from this file:

```
pressed.BACK_SPACE=backspace
shift.pressed.TAB=backtab
pressed.ESCAPE=pressClear
pressed.ENTER=pressEnter
ctrl.pressed.ENTER=newline
```

Each line in the `.j3270.keymap.properties` file maps one or more keystrokes to an action. Be careful when editing this file and be sure the keystrokes and action names are correct. If any actions are specified incorrectly, error messages are displayed when you start Sun MTP J3270.

It is permissible to map multiple keys to one action. For example, to map Ctrl-Z and Shift-Enter to the newline action, type the following lines in the properties file:

```
CTRL.pressed.Z=newline
SHIFT.pressed.ENTER=newline
```

Do not assign the same keystroke for two actions. For example the following lines, which attempt to assign Ctrl-Z to backspace and newline, will not work:

```
CTRL.pressed.Z=backspace
CTRL.pressed.Z=newline
```

You cannot change the key map while Sun MTP J3270 is running. You must stop Sun MTP J3270, edit the file, and restart Sun MTP J3270.

▼ To Restore the Key Mapping to the Default Values

1. **Stop Sun MTP J3270.**
2. **Delete the `.j3270.keymap.properties` file.**
3. **Restart Sun MTP J3270.**

The `.j3270.keymap.properties` file is automatically recreated.

Resizing Sun MTP J3270

When you resize Sun MTP J3270, it attempts to change the font size of the emulator, so that the emulator fits the specified size. This provides a simple way to make the emulator display more readable. However, it might result in an area smaller than the one you specified. If you are having difficulty achieving the results you want using this method, use the Font Dialog to specify a particular size.

Diagnostic Information

There is a dump function within Sun MTP J3270 to enable you to obtain diagnostic information about the current state of the terminal.

Note – This diagnostic information is primarily for the use of support personnel and is unlikely to be of direct interest to most users.

The diagnostic dump command saves Sun MTP J3270 diagnostic information to a file. The file is saved to the directory from which the Sun MTP J3270 was started. When you issue a dump, a message displays the file and directory name. The dump saves general information about the emulator, as well as the current screen. If tracing is turned on, the file will also contain the data flows from the emulator to the host and from the host to the emulator. The trace information is from the time tracing was started until the time the dump was taken.

Using Sun MTP J3270 in DBCS Mode

To use Sun MTP J3270 in (double-byte character set (DBCS) mode, choose one of the available DBCS codepages on the Connect window, or specify a DBCS codepage using the `-c` parameter of the `j3270` command.

Available 3270 Field Types

When running in DBCS mode, each 3270 field is one of the following types:

- A pure single-byte field
- A pure double-byte field
- A mixed single- and double-byte field known as a SOSI (shift-out, shift-in) field

Restrictions on a Pure Single-byte Field

A pure single-byte field can only contain single-byte characters. Any attempt to type a character into a pure single-byte field that is not a single-byte character results in a terminal alarm.

Restrictions on a Pure Double-byte Field

A pure double-byte field can only contain double-byte characters. A double-byte character occupies two display positions and is twice the physical width of a single-byte character. Any attempt to type a character that is not a double-byte character into a pure double-byte field results in a terminal alarm.

Note – A character is considered double-byte if its representation in the selected host codepage is two bytes.

Restrictions on Mixed (SOSI) Fields

A SOSI field can contain both single- and double-byte characters. You must enclose all double-byte characters in a SOSI field within a pair of SOSI characters.

- SO and SI characters each occupy a display position.
- An SO character appears as a less than symbol, <.
- An SI character appears as a greater than symbol, >.
- SO and SI characters are inserted automatically as a terminal user types. The terminal user does not have to enter them.
- Any keyboard entry operation that would leave DBCS characters outside an enclosing SOSI pair is invalid and is rejected with a terminal alarm; for example, deleting an SI character that would leave a DBCS character immediately adjacent to a single-byte character set (SBCS) character.
- An attempt to enter DBCS characters that does not leave room for the required SO and SI characters to be automatically inserted in the field is rejected with a terminal alarm; for example, typing a DBCS character in the last two display positions of a SOSI field.

Making an Association With an Internet Browser

Note – This section applies to users on Windows systems.

You can configure some web browsers so that any links to TN3270 hosts are started with Sun MTP J3270. When you click on the link, the browser starts Sun MTP J3270 and attempts to make a connection to the TN3270 system.

On your Windows system, associate files of type URL:TN3270 Protocol with `j3270 -u`. You must have Sun MTP J3270 in your path or you must specify the complete path name where the `j3270` executable is installed. Refer to Windows Help for instructions on associating files.

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