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Pathway Manager

Welcome to the online help and documentation for **Pathway Manager**.

Pathway Manager monitors, controls, and configures Tandem Pathway environments from a Windows workstation.

It provides a superior alternative to PATHCOM through its comprehensive range of graphical Pathway management functions.

More Information

[What's new](#)

[Key features](#)

[Reference information](#)

[Tasks and tips](#)

What's new

Pathway Manager Profiles

- Pathway Manager help no longer includes information about profiles. This information is now included in TOP help. This is because the capability to create and manage profiles is no longer available from Pathway Manager. TOP now includes the capability to create and manage user profiles that control access security to any system component available from TOP, including Pathway system components.

Email Support Using the SMTP Interface

- Configure email from Preferences window>Email tab
- Configure monitors to report a spooler event by email using the Monitor Send Email Details window. See About Monitoring.

Key features

More Information

Viewing Pathway Status
Using Groups to Manage Multiple Pathway Objects
Monitoring the Pathway Environment
Managing PATHMON Processes
Managing Server Classes and Processes
Managing TCPs
Managing Terminals
Managing Programs
Wizards
More information

Viewing Pathway Status

- You can view available PATHMON processes, and a snapshot of the components in the current **Pathway environment** on the main window.

This includes the name and status of the PATHMON process controlling the environment, and the number and status of server classes, terminal control processes (TCPs), and terminals.
- You can easily drag-and-drop to change from one Pathway environment to another.

Using Groups to Manage Multiple Pathway Objects

A **group** is a logical set of Pathway objects (and/or other groups) that is identified by a unique group identifier (ID). By creating a group, you can conveniently start and stop all the objects in the group in a single operation because selecting a group selects all objects in the group.

- You can list, add, copy, modify, and delete groups.

Monitoring the Pathway Environment

You can automatically monitor the Pathway environment by specifying **monitor definitions**.

- Pathway conditions that you can automatically monitor include PATHMON, server class, TCP, and terminal status, and the percentage of server classes, TCPs, and terminals in various states.
- Actions that Pathway Manager can automatically perform when a certain Pathway condition is met include flashing a window, sounding an alert, playing a sound file, displaying a user-defined message box, generating a user-defined EMS event, and issuing a PATHCOM or TACL command.
- You can list, add, copy, modify, delete, activate, and inactivate monitor definitions.

Managing PATHMON Processes

- You can list and modify **PATHMON processes**.
- You can display detailed information about each PATHMON process, including up-to-date statistics, and set the default process.
- You can start and shut down processes, reverse the roles of the primary and backup processes, and switch a primary process back to its initial CPU.
- You can display resource usage information.

Managing Server Classes and Processes

- You can list, add, modify, and delete **server classes**.
- You can display detailed information about each server class, including up-to-date statistics.
- You can start, stop, freeze, and thaw server classes.
- You can display server class resource usage information.

-
- You can list **server processes**.
 - You can display server process resource usage information.

Managing TCPs

- You can list, add, modify, and delete **TCPs**.
- You can display detailed information about each TCP.
- You can start and stop processes, reverse the roles of the primary and backup processes, switch a primary process back to its initial CPU, and refresh the TCP's code.
- You can display resource usage information.

Managing Terminals

- You can list, add, modify, and delete **terminals**.
- You can display detailed information about each terminal.
- You can start, stop, abort, restart (abort and start), suspend, and resume terminals.
- You can send and display pending tell messages.

Managing Programs

- You can list, add, modify, and delete **programs**.
- You can display detailed information about each program.
- You can run programs.

Wizards

Pathway Manager provides **wizards** for quickly and easily performing various Pathway tasks. Using wizards you can:

- Analyze a Pathway system and display real-time resource usage information.
- Generate a Pathway configuration script file for reconfiguring a Pathway system after a cold start
- Add new components (server classes, TCPs, terminals, and programs) to an existing Pathway system
- Configure and start a new Pathway system by generating command scripts to automate shutdown, cold start, warm start, and rebuild operations.

More information

Pathway Manager interacts with the Tandem Pathway environment. For more information, refer to the manuals available from Tandem Computers Inc. that discuss the Pathway environment.

Reference information

More Information

Logging on
Main window
Preferences window
Group windows
LinkMon List window
Monitor windows
PathMon windows
Program windows
Server Class and Server Process windows
TCP windows
Terminal windows
Common windows
Wizard windows
System Component Colors

Logging on

More Information

Configuration window
Logon window
Node Selection window

Configuration window

Use the **Configuration** window to specify the configuration parameters that Pathway Manager uses to establish a session with the MIP from this workstation.

- If the Logon History box from the Logon window shows one or more entries, you have previously established a session with the MIP. If so, Pathway Manager uses the parameters of the most recent entry. Click any other entry to select that entry and use its parameters instead.
- If the Logon History box from the Logon window is empty, either you have not previously established a session with the MIP or you have recently cleared the logon history information (for example, by clicking the Clear History button). You must specify the parameters you want to use before you can establish a session with the MIP.

More Information

Options box

Logon window

Use the **Logon** window to establish a session with the MIP from Pathway Manager. The default configuration parameters used to establish the session are displayed in the Current Configuration box.

More Information

Current Configuration box Logon box
Logon History box

Node Selection window

Use the **Node Selection** window to display and select nodes to use with Pathway Manager. You must select at least one node. Use the Node Selection box from the Preferences window to specify whether to display this window when you start Pathway Manager.

More Information

Nodes box

Main window

The main window provides access to all Pathway Manager menus, functions, and components. Colors indicate system component status.

More Information

| | |
|-----------------------------|------------------------------|
| Title bar | Menu bar |
| Session menu | PathMon menu |
| SvrClass menu | SvrProc menu |
| TCP menu | Term menu |
| Program menu | Group menu |
| Monitor menu | Wizard menu |
| Help menu | |
| Pathway environment display | Pathway Monitor box |
| Server Classes box and bar | Server Processes box and bar |
| TCPs box and bar | Terminals box and bar |
| Pathways box | Status bar |

Menus and commands

More Information

Session menu
PathMon menu
SvrClass menu
SvrProc menu
TCP menu
Term menu
Program menu
Group menu
Monitor menu
Wizard menu
Help menu

Session menu

The **Session** menu has the following commands for controlling your current session:

| | |
|--------------------|--|
| Logon | Displays the Logon window. Use this window to log on. |
| Nodes | Displays the Node Selection window. Use this window to select nodes to which to log on and display nodes that are connected, licensed, or available. |
| Preferences | Displays the Preferences window. Use this window to specify preferences. |
| Exit | Exits and logs you off. |

PathMon menu

The **PathMon** menu has the following commands for managing PATHMON processes:

| | |
|---------------------------------|---|
| List | Displays the PathMon List window. Use this window to list and manage PATHMON processes. |
| Display Details | Displays the PathMon Details window. Use this window to display detailed information about the current PATHMON process. |
| Set Default | Displays the Set Default Pathway window. Use this window to set the default PATHMON process. |
| Pathway CPU Distribution | Displays the Process Distribution window. |
| Pathway CPU Usage | Displays the Process CPU Usage window. |

SvrClass menu

The **SvrClass** menu has the following commands for managing server classes:

| | |
|-------------|---|
| Add | Adds a server class. |
| List | Displays server classes (all, in a certain state, from a group, or matching specific criteria). |

| | |
|-------------------------|--|
| Freeze | Freezes server classes (all, in a certain state, from a group, or matching specific criteria). |
| Thaw | Thaws server classes (all, in a certain state, from a group, or matching specific criteria). |
| Start | Starts server classes (all, in a certain state, from a group, or matching specific criteria). |
| Stop | Stops server classes (all, in a certain state, from a group, or matching specific criteria). |
| CPU Distribution | Displays the Process Distribution window, showing server class CPU distribution. |
| CPU Usage | Displays the Process CPU Usage window, showing server class CPU usage. |
| Request Rate | Displays the Request Rate window, showing server class request rates. |

SvrProc menu

The **SvrProc** menu has the following commands for managing server processes:

| | |
|-------------------------|--|
| List | Displays server processes (all or in a certain state). |
| CPU Distribution | Displays the Process Distribution window, showing server process CPU distribution. |
| CPU Usage | Displays the Process CPU Usage window, showing server process CPU usage. |

TCP menu

The **TCP** menu has the following commands for managing terminal control processes (TCPs):

| | |
|-------------------------|---|
| Add | Adds a TCP. |
| List | Displays TCPs (all, in a certain state, from a group, or matching specific criteria). |
| Start | Starts TCPs (all, in a certain state, from a group, or matching specific criteria). |
| Stop | Stops TCPs (all, in a certain state, from a group, or matching specific criteria). |
| Refresh Code | Refreshes TCP code (all, running, from a group, or matching specific criteria). |
| Primary | Switches TCPs to their initial CPU (all, running, from a group, or matching specific criteria). |
| Switch CPUs | Switches primary and backup TCPs (all, running, from a group, or matching specific criteria). |
| CPU Distribution | Displays the Process Distribution window, showing TCP CPU distribution. |
| CPU Usage | Displays the Process CPU Usage window, showing TCP CPU usage. |
| Request Rate | Displays the Request Rate window, showing TCP request rates. |

Term menu

The **Term** menu has the following commands for managing terminals:

| | |
|----------------------|--|
| Add | Adds a terminal. |
| List | Displays terminals (all, in a certain state, dynamic, from a group, or matching specific criteria). |
| Detailed List | Displays detailed information about terminals (all, in a certain state, dynamic, from a group, or matching specific criteria). |
| Start | Starts terminals (all, stopped, from a group, or matching specific criteria). |
| Stop | Stops terminals (all, in a certain state, dynamic, from a group, or matching specific criteria). |
| Abort | Aborts terminals (all, in a certain state, dynamic, from a group, or matching specific criteria). |
| Restart | Restarts (aborts plus starts) terminals (all, in a certain state, from a group, or matching specific criteria). |
| Suspend | Suspends terminals (all, running, dynamic, from a group, or matching specific criteria). |
| Resume | Resumes terminals (all, suspended, dynamic, from a group, or matching specific criteria). |
| Tell | Sends a tell message. |
| Tells Pending | Displays pending tell messages. |

Program menu

The **Program** menu has the following commands for managing programs:

| | |
|-------------|---|
| Add | Adds a program. |
| List | Displays programs (all, from a group, or matching specific criteria). |

Group menu

The **Group** menu has the following commands for managing groups:

- Add** Adds a group.
- List** Lists groups.
- Start** Starts the objects in a group.
- Stop** Stops the objects in a group.

Monitor menu

The **Monitor** menu has the following commands for managing monitor definitions:

- Add** Adds a monitor definition.
- List** Lists monitor definitions.
- Enabled** Enables automatic monitoring if ticked. Disables automatic monitoring if not ticked.

Wizard menu

The **Wizard** menu has the following commands for quickly and easily performing tasks:

- Resource View** Starts the Resource View wizard. This wizard displays real-time resource usage information.
- Generate Config Script** Starts the Generate Config Script wizard. This wizard generates a Pathway configuration script file (either a TACL obey file or a PATHCOM In file) for reconfiguring a Pathway system after a cold start.
- Configure New Component** Starts the Configure New Component wizard. This wizard can configure a new server class, TCP, terminal, or program.
- Configure New Pathway** Starts the Configure New Pathway wizard. This wizard configures and starts a new Pathway system, generating command scripts to automate shutdown, cold start, cool start, and rebuild operations.

Help menu

The **Help** menu has the following commands for getting help:

- Contents** Displays the Contents topic.
- Help on Main Window** Displays the Main window topic.
- Search for Help on** Used to search through a list of selected topics.
- How to Use Help** Displays the Contents for How to Use Help topic.
- About** Displays contact and version information.

Preferences window

More Information

- General tab
- Host Programs tab
- Email tab
- Advanced tab

General tab

More Information

- Host Timeout
- Monitor Log
- Node Selection
- Refresh Interval

Host Timeout

Host Timeout specifies the time period (in seconds) that Pathway Manager waits for a response from the Tandem host. You can specify a value from 1 through 32767. The default is 30 seconds.

Monitor Log

Monitor Log specifies details about the set of log files used to record Pathway Manager monitoring activity (when monitoring is enabled). Monitoring activity includes actions performed, responses received to host commands, and add, copy, modify, delete, activate, and inactivate operations.

- Prefix** Specifies the first part (prefix) of the log file name.
Specifies the maximum number of log files that are created and kept.
Size Specifies the maximum size of each log file in kilobytes.

Log files, which are text files, are created in the same directory as the Pathway Manager program file. A complete file name is the prefix plus a number from 1 through to the value specified in the **#** box. For example, if the prefix is "mon" and the **#** box specifies 5, the log files created are called mon1.log (created first), mon2.log, mon3.log, mon4.log, and mon5.log (created last).

When the last log file in the set (for example, mon5.log) reaches the size specified in the **Size** box, the first log file (mon1.log) is overwritten; when that log file (mon1.log) is full, the next log file in the set (mon2.log) is overwritten; and so the cycle continues.

Node Selection

Node Selection specifies whether to show the Node Selection window at logon.

There are at least two situations when you may want to display the Node Selection window at logon. First, to specify a different user ID for each outer node every time you start Pathway Manager. Second, to specify a different password for each user ID, if the password for each user ID is different from the password used to log on to the gateway node (for security, Pathway Manager does not save passwords and, by default, attempts to log on to each outer node using the gateway node password).

If you use the same user ID to log on to each node every time you start Pathway Manager or each user ID has the same password, then it is probably unnecessary to display this window when you start Pathway Manager.

Refresh Interval

Refresh Interval specifies the frequency (in seconds) at which Pathway Manager automatically refreshes the main window display. You can specify a value from 5 through 32767. The default is 30 seconds.

Host Programs tab

More Information

Background PATHCOM Server
EMSDIST Server
Interactive PATHCOM Server
PathMon

Background PATHCOM Server

Background PATHCOM Server specifies the following information:

- Program** Specifies the name of the program file on the Tandem host used to handle background PATHCOM requests by Pathway Manager. These are polling requests by Pathway Manager to update the main window.
CPU Specifies the number of the CPU (-1 through 15) running the PATHCOM process. A value of -1 specifies that the same CPU as the MIP is to be used.
Priority Specifies the priority of the PATHCOM process (-1, then 1 through 199). A value of -1 specifies that the same priority as the MIP is to be used.

EMSDIST Server

The **EMSDIST Server** box specifies the following information:

| | |
|-----------------|---|
| Program | Specifies the name of the program file on the Tandem host used to forward terminal status EMS messages to Pathway Manager. These messages are used by Pathway Manager to monitor terminal status. |
| CPU | Specifies the number of the CPU (-1 through 15) running the EMSDIST process. A value of -1 specifies that the same CPU as the MIP is to be used. |
| Priority | Specifies the priority of the EMSDIST process (-1, then 1 through 199). A value of -1 specifies that the same priority as the MIP is to be used. |

Interactive PATHCOM Server

Interactive PATHCOM Server specifies the following information:

| | |
|-----------------|--|
| Program | Specifies the name of the program file on the Tandem host used to handle interactive PATHCOM requests by Pathway Manager. |
| CPU | Specifies the number of the CPU (-1 through 15) running the PATHCOM process. A value of -1 specifies that the same CPU as the MIP is to be used. |
| Priority | Specifies the priority of the PATHCOM process (-1, then 1 through 199). A value of -1 specifies that the same priority as the MIP is to be used. |

PathMon

PathMon specifies the name of the program file on the Tandem computer system for the PATHMON process. This enables Pathway Manager to automatically detect the name of the PATHMON process on the Tandem system to which Pathway Manager is connected.

Email tab

Use the **Preferences** window - **Email** tab to specify email preferences.

More Information

Email Interface
Authentication Details
SMTP Authentication
SMTP Server
SMTP Port
POP Server
POP Port
Internet Email Address

Email Interface

Email Interface specifies the email interface to use when using Pathway Manager to send email:

Use MAPI Interface (if available)

Specifies the Messaging Application Programming Interface (MAPI) interface.

Use Lotus VIM Interface

Specifies the Lotus Vendor Independent Messaging (VIM) interface.

Use SMTP Interface

Specifies the Simple Mail Transport Protocol (SMTP) interface.

Notes

- If you change the email interface, you must restart The Operations Pack for the change to take effect
- If no interface is available, email is disabled from Pathway Manager.
- If you select an email interface and the interface is unavailable, Pathway Manager displays an alert.

Authentication Details

If email authentication is required, **Authentication Details** specifies the **Profile/Password** required to log on to the selected email server. Click **Save Password** to save the password.

SMTP Authentication

SMTP Authentication specifies whether SMTP authentication is required and whether it is performed using an SMTP server or POP server.

SMTP Server

SMTP Server specifies the name of the SMTP server, if this server is used to send email.

SMTP Port

SMTP Port specifies the port number of the SMTP server. The default is 25.

POP Server

POP Server specifies the name of the POP server, if this server is used for authentication.

POP Port

POP Port specifies the port number of the POP server. The default is 110.

Internet Email Address

Internet Email Address specifies the email address used to send email.

Advanced tab

More Information

Host Resources Control

Host Resources Control

Host Resources Control specifies the delay (in hundredths of a second) between SPI requests when refreshing the main window display. You can specify a value from 0 through 999. The default is 2. Specify 0 to disable the delay between requests. Increase the value to reduce the PathMon CPU busy rate.

Group windows

More Information

Group Add window
Group Copy window
Group Join window
Group List window
Group Modify window
Group Select window

Related Information

About Groups
Working with Groups

Group Add window

Use the **Group Add** window to add a group.

More Information

| | |
|---------------------|-------------------|
| Group box | Group Members box |
| Pathway Objects box | <-- Add button |
| Del --> button | |

Related Information

About Groups
Working with Groups

Group Copy window

Use the **Group Copy** window to copy a group.

More Information

| | |
|---------------------|-------------------|
| Group box | Group Members box |
| Pathway Objects box | <-- Add button |
| Del --> button | |

Related Information

About Groups
Working with Groups

Group Join window

Use the **Group Join** window to specify the group to which a server class, TCP, terminal, or program is added.

More Information

Groups box

Group List window

Use the **Group List** window to list groups in the Pathway system. Click to select an entry. Double-click an entry to display the Group Modify window.

More Information

| | |
|-------------------|--------------------|
| List box | Add button |
| Copy button | Delete button |
| Modify button | Print button |
| Programs button | Start Group button |
| Stop Group button | SvrClasses button |
| TCPs button | Terminals button |

Related Information

About Groups
Working with Groups

Group Modify window

Use the **Group Modify** window to modify the attributes of a group.

More Information

| | |
|---------------------|-------------------|
| Group box | Group Members box |
| Pathway Objects box | <-- Add button |
| Del --> button | |

Related Information

About Groups
Working with Groups

Group Select window

Use the **Group Select** window to select a group on which to perform an operation.

More Information

Group box

LinkMon List window

Use the **LinkMon List** window to list LINKMON processes that have links to the Pathway system.

More Information

| | |
|----------|-----------------------|
| List box | Pathway Monitor field |
|----------|-----------------------|

Refresh button

Refer to the `STATUS LINKMON` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Monitor windows

More Information

Monitor Add/Copy/Modify windows
Monitor List window
Monitor Send Email Details window

Related Information

About Monitoring
Monitoring Terminal Status
Monitoring the Pathway System

Monitor Add/Copy/Modify windows

Use the **Monitor Add/Copy/Modify** window to add, copy, or modify a monitor definition.

More Information

| | |
|---------------------|-------------------------------|
| Monitor ID box | Condition box |
| Actions box | Monitor alerts |
| Display message box | Generate EMS event |
| Issue host command | Repeat actions until resolved |
| Send email | |

Related Information

About Monitoring
Monitoring Terminal Status
Monitoring the Pathway System

Monitor List window

Use the **Monitor List** window to list monitor definitions.

More Information

| | |
|---------------|-------------------|
| List box | Activate button |
| Add button | Copy button |
| Delete button | Inactivate button |
| Modify button | Print button |

Related Information

About Monitoring
Monitoring Terminal Status
Monitoring the Pathway System

Monitor Send Email Details window

Use the **Monitor Send Email Details** window to specify details for the event message triggered by a monitor condition.

More Information

| | |
|---------------|-------------|
| Addresses box | Message box |
| Priority box | Session box |
| Subject box | |

Related Information

About Monitoring
Monitoring Terminal Status
Monitoring the Pathway System

PathMon windows

More Information

PathMon Details window
PathMon Info window
PathMon List window
PathMon Modify window
PathMon Primary window
PathMon Shutdown window
PathMon Start window
Pathway Limits window
Set Default Pathway window

PathMon Details window

Use the **PathMon Details** window to display detailed information about a PATHMON process.

More Information

| | |
|---------------------------------|-------------------|
| Control File box | CPUs box |
| Description box | Dump File box |
| Log Files box | Owner box |
| Pathway Management Security box | State box |
| Default Pathway field | Info button |
| Limits button | LinkMons button |
| Modify button | Primary button |
| Programs button | Refresh button |
| Set as Default button | Shutdown button |
| Start button | SvrClasses button |
| Switch CPUs button | TCPs button |
| Terminals button | |

Refer to the `INFO PATHMON`, `INFO PATHWAY`, and `STATUS PATHMON` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

PathMon Info window

Use the **PathMon Info** window to display more information about a PATHMON process.

More Information

| | |
|-----------------------|-----------------------|
| Backup CPU | Description box |
| Dump File box | Log Files box |
| Management Access box | Pathway Limits button |

PathMon List window

Use the **PathMon List** window to list and manage PATHMON processes. Click to select an entry. Double-click an entry to display the PathMon Details window.

More Information

| | |
|-----------------------|-----------------------|
| List box | Default Pathway field |
| Detail button | Info button |
| LinkMons button | Modify button |
| Primary button | Print button |
| Programs button | Refresh button |
| Set as Default button | Shutdown button |
| Start button | SvrClasses button |
| Switch CPUs button | TCPs button |
| Terminals button | |

Refer to the `STATUS PATHMON` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

PathMon Modify window

Use the **PathMon Modify** window to modify the attributes of a PATHMON process.

More Information

| | |
|-----------------------|-----------------------|
| Backup CPU box | Description box |
| Dump File box | Log Files box |
| Management Access box | Pathway Limits button |

Refer to the LOG1, LOG2, CONTROL PATHMON, and SET PATHWAY commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

PathMon Primary window

Use the **PathMon Primary** window to switch a PATHMON primary process from its current CPU to the CPU in which it was initially started if it is different from the CPU in which it is currently executing.

More Information

Primary box

Refer to the PRIMARY PATHMON command in the *NonStop TS/MP and Pathway Management Reference Manual*.

PathMon Shutdown window

D30 or Later Tandem Systems

For D30 or later Tandem systems, use this **PathMon Shutdown** window to shut down a Pathway system. The shutdown request is processed in the background enabling you to continue with other tasks.

More Information

| | |
|----------------|----------|
| Escalation box | Mode box |
|----------------|----------|

Refer to the SHUTDOWN2 command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Pre-D30 Tandem Systems

For pre-D30 Tandem systems, use this **PathMon Shutdown** window to shut down a Pathway system. The shutdown request is processed in the background enabling you to continue with other tasks.

More Information

Options box

Refer to the SHUTDOWN command in the *NonStop TS/MP and Pathway Management Reference Manual*.

PathMon Start window

Use the **PathMon Start** window to cool or cold start a Pathway system. This window does not start a Pathway from scratch; it initialises a Pathway system after you have run previously run the PATHMON process.

More Information

Start Pathway box

Refer to the START PATHWAY command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Pathway Limits window

Use the **Pathway Limits** window to change and display the defined limits of a Pathway system. (You can change the limits only while the Pathway system is in the STARTING state.)

More Information

| | |
|-----------------------|----------------------|
| Management Limits box | Requester Limits box |
| Server Limits box | |

Refer to the `INFO PATHWAY` and `SET PATHWAY` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Set Default Pathway window

Use the **Set Default Pathway** window to set the default PATHMON process in the Pathway environment. This determines the PATHMON process name displayed in the Pathway Monitor box in the main window, and the server classes, TCPs, and terminals that are used when displaying the status of these components in the main window. Additionally, it determines the PATHMON process name shown in the Pathway Monitor field and Default Pathway field in List windows.

More Information

Default Pathway box

Program windows

More Information

Program Add window
Program Copy window
Program Info window
Program List window
Program Modify window
Program Run window
Program Type Add window
Program Type Modify window
Specific Programs window

Program Add window

Use the **Program Add** window to add a program.

More Information

| | |
|--------------------------|----------------|
| Device Types box | Name box |
| On Application Error box | PathMon box |
| Printer Device box | Run Access box |
| TCP box | Groups button |

Refer to the `ADD PROGRAM` and `SET PROGRAM` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Program Copy window

Use the **Program Copy** window to copy a program.

More Information

| | |
|--------------------------|----------------|
| Device Types box | Name box |
| On Application Error box | PathMon box |
| Printer Device box | Run Access box |
| TCP box | Groups button |

Refer to the `ADD PROGRAM` and `SET PROGRAM` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Program Info window

Use the **Program Info** window to display more information about a program.

More Information

| | |
|--------------------------|----------------|
| Device Types box | Name box |
| On Application Error box | PathMon box |
| Printer Device box | Run Access box |
| TCP box | |

Program List window

Use the **Program List** window to list all or a subset of programs in the Pathway system. Click to select an entry. To select two or more entries in sequence, click the first entry you want to select, then press and hold down the Shift key and click the last entry in the sequence. To select two or more entries out of sequence, press and hold down the Ctrl key and click each entry. Double-click an entry to display the Program Modify window. Use the Specific Programs window to specify the program or programs to list.

More Information

| | |
|--------------|-----------------------|
| List box | Pathway Monitor field |
| Copy button | Delete button |
| Info button | Modify button |
| Print button | Refresh button |
| Run button | |

Refer to the `INFO PROGRAM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Program Modify window

Use the **Program Modify** window to modify the attributes of a program.

More Information

| | |
|--------------------------|----------------|
| Device Types box | Name box |
| On Application Error box | PathMon box |
| Printer Device box | Run Access box |
| TCP box | |

Refer to the `ALTER PROGRAM` and `SET PROGRAM` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Program Run window

Use the **Program Run** window to run a program.

More Information

| | |
|--------------------|---------------------|
| Printer Device box | Terminal Device box |
|--------------------|---------------------|

Refer to the `RUN PROGRAM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Program Type Add window

Use the **Program Type Add** window to specify the attributes of each device type that a program can support and the initial SCOBOL program that is executed for each type.

Note You must specify at least one device type.

More Information

| | |
|--------------------|-------------------------|
| Device Type box | Screen Program box |
| TCP Attributes box | Terminal Attributes box |

Refer to the `SET PROGRAM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Program Type Modify window

Use the **Program Type Add** window to modify the attributes of each device type that a program can support and the initial SCOBOL program that is executed for each type.

Note You must specify at least one device type.

More Information

| | |
|--------------------|-------------------------|
| Device Type box | Screen Program box |
| TCP Attributes box | Terminal Attributes box |

Refer to the `ALTER PROGRAM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Specific Programs window

Use the **Specific Programs** window to specify the program or programs to list. Listed programs are displayed in the Programs List window.

More Information

List field

Refer to the `INFO PROGRAM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class and Server Process windows

More Information

OSS Server Process Defaults window
Server Assign Add window
Server Assign Modify window
Server Class Add window
Server Class Argument List window
Server Class Assigns window
Server Class Copy window
Server Class Defines window
Server Class Details window
Server Class Environment Variables window
Server Class Info window
Server Class List window
Server Class Modify window
Server Class Params window
Server Class Processes window
Server Class Statistics window
Server Define Add window
Server Define Modify window
Server Process Add window
Server Process Modify window
Server Process Defaults window
Server Process Links window
Server Process List window
Specific Server Classes window

OSS Server Process Defaults window

Use the **OSS Server Process Defaults** window to specify default values for the attributes of all server processes created within the OSS server class. You can override default values when you add or modify a process (by using the Server Process Add window or the Server Process Modify window, respectively).

More Information

OSS Process Defaults box

Refer to the `SET SERVER CPUS`, `SET SERVER HIGHPIN`, `SET SERVER HOMETERM`, `SET SERVER STDERR`, `SET SERVER STDIN`, `SET SERVER STDOUT`, `SET SERVER PRI`, and `SET SERVER VOLUME` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Assign Add window

Use the **Server Assign Add** window to add a server class ASSIGN.

More Information

Access Mode box
Exclusion Mode box
Assign box
File Creation Attributes box

Refer to the `ADD SERVER` and `SET SERVER ASSIGN` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Assign Modify window

Use the **Server Assign Modify** window to modify a server class ASSIGN.

More Information

Access Mode box
Exclusion Mode box

Assign box
File Creation Attributes box

Refer to the `ALTER SERVER` and `SET SERVER ASSIGN` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Add window

Use the **Server Class Add** window to add a server class.

More Information

AutoRestart box
Links box
PathMon box
Process Details box
Request Timeout box
Groups button

File Access box
Name box
PathSend Access box
Program Details box
Type box

Refer to the `ADD SERVER` and `SET SERVER` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Argument List window

Use the **Server Class Argument List** window to list and manage NonStop Kernel Open Systems Services (OSS) startup arguments. These are arguments sent to OSS server processes in the server class.

More Information

Argument List box

Refer to the `SET SERVER ARGLIST` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Assigns window

Use the **Server Class Assigns** window to list and manage server class ASSIGNS.

More Information

Assign List box

Refer to the `SET SERVER ASSIGN` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Copy window

Use the **Server Class Copy** window to copy a server class.

More Information

AutoRestart box
Links box
PathMon box
Process Details box
Request Timeout box
Groups button

File Access box
Name box
PathSend Access box
Program Details box
Type box

Refer to the `ADD SERVER` and `SET SERVER` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Defines window

Use the **Server Class Defines** window to list and manage server class DEFINES for both NonStop Kernel Guardian and Open Systems Services (OSS) server processes.

More Information

Define List box

Refer to the `SET SERVER DEFINE` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Details window

Use the **Server Class Details** window to display detailed information about a server class.

More Information

Error Information box

State box

Delete button

Info button

Processes button

Start button

Stop button

Server Processes box and bar

Copy button

Freeze button

Modify button

Refresh button

Statistics button

Thaw button

Refer to the `STATUS SERVER, DETAIL` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Environment Variables window

Use the **Server Class Environment Variables** window to list and manage NonStop Kernel Open Systems Services (OSS) environment variables. These are environment variables sent to OSS server processes in the server class when it is started.

More Information

Environment Variable List box

Refer to the `SET SERVER ENV` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Info window

Use the **Server Class Info** window to display more information about a server class.

More Information

AutoRestart box

Links box

PathMon box

Process Details box

Request Timeout box

File Access box

Name box

PathSend Access box

Program Details box

Type box

Server Class List window

Use the **Server Class List** window to list all server classes or those in a certain state in the Pathway system. Click to select an entry. To select two or more entries in sequence, click the first entry you want to select, then press and hold down the Shift key and click the last entry in the sequence. To select two or more entries out of sequence, press and hold down the Ctrl key and click each entry. Double-click an entry to display the Server Class Details window. Use the Specific Server Classes window to specify the server class or server classes to list.

More Information

List box

Copy button

Detail button

Freeze button

Modify button

Pathway Monitor field

Delete button

Force Stop button

Info button

Print button

Processes button
Start button
Thaw button

Refresh button
Stop button

Refer to the `STATUS SERVER` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Modify window

Use the **Server Class Modify** window to modify the attributes of a server class.

More Information

AutoRestart box
Links box
PathMon box
Process Details box
Request Timeout box
File Access box
Name box
PathSend Access box
Program Details box
Type box

Refer to the `ALTER SERVER` and `SET SERVER` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Params window

Use the **Server Class Params** window to list and manage server class parameters.

More Information

Param List box

Refer to the `SET SERVER PARAM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Processes window

Use the **Server Class Processes** window to list and manage server class processes.

More Information

Process List box

Refer to the `STATUS SERVER, DETAIL` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Class Statistics window

Use the **Server Class Statistics** window to display statistics about a server class.

More Information

List box
I/O Info box
Response Time box
Reset button
Send Queue Info box
Refresh Time box
Refresh button

Refer to the `STATUS SERVER` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Define Add window

Use the **Server Define Add** window to add a server class DEFINE.

More Information

Define box

Refer to the `ADD SERVER` and `SET SERVER DEFINE` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Define Modify window

Use the **Server Define Modify** window to modify a server class DEFINE.

More Information

Define box

Refer to the `ALTER SERVER` and `SET SERVER DEFINE` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Process Add window

Use the **Server Process Add** window to add a process within the server class.

More Information

Process Name box

Process Attributes (optional)

Refer to the `ADD SERVER` and `SET SERVER PROCESS` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Process Modify window

Use the **Server Process Modify** window to modify a process within the server class.

More Information

Process Name box

Process Attributes (optional)

Refer to the `ALTER SERVER` and `SET SERVER PROCESS` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Process Defaults window

Use the **Server Process Defaults** window to specify default values for the attributes of all server processes created within the server class. You can override default values when you add or modify a process (by using the Server Process Add window or the Server Process Modify window, respectively).

More Information

Guardian Process Defaults box

Refer to the `SET SERVER CPUS`, `SET SERVER HIGHPIN`, `SET SERVER HOMETERM`, `SET SERVER IN`, `SET SERVER OUT`, `SET SERVER PRI`, `SET SERVER STARTUP`, and `SET SERVER VOLUME` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Process Links window

Use the **Server Process Links** window to display all links to a server process.

More Information

List box

Pathway Monitor field

Refresh button

TCP Details button

Refer to the `STATUS SERVER, PROCESS` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Server Process List window

Use the **Server Process List** window to display the processes within a server class.

More Information

List box

Pathway Monitor field

Links button

Refresh button

Stop button

Refer to the `STATUS SERVER, DETAIL` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Specific Server Classes window

Use the **Specific Server Classes** window to specify the server class or server classes to list, freeze, thaw, start, or stop. Listed server classes are displayed in the Server Class List window.

More Information

List field

Refer to the `STATUS SERVER` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP windows

More Information

Specific TCPs window
TCP Add window
TCP Buffers window
TCP Copy window
TCP Details window
TCP Info window
TCP Limits window
TCP List window
TCP Modify window
TCP Primary window
TCP Statistics window

Specific TCPs window

Use the **Specific TCPs** window to specify the TCP or TCPs to list, start, stop, refresh code, switch to initial CPU, or switch primary and backup CPUs. Listed TCPs are displayed in the TCP List window.

More Information

List field

Refer to the `STATUS TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP Add window

Use the **TCP Add** window to add a TCP.

More Information

| | |
|---------------|--------------------|
| CPUs box | Dump File box |
| Flags box | Limits box |
| Name box | PathMon box |
| Process box | Screen Program box |
| Groups button | |

Refer to the `SET TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP Buffers window

Use the **TCP Buffers** window to specify TCP buffers.

More Information

Buffer Sizes box

Refer to the `SET TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP Copy window

Use the **TCP Copy** window to copy the attributes of a TCP.

More Information

| | |
|-----------|---------------|
| CPUs box | Dump File box |
| Flags box | Limits box |

Name box
Process box
Groups button

PathMon box
Screen Program box

Refer to the `SET TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP Details window

Use the **TCP Details** window to display detailed information about a TCP.

More Information

CPUs box
Process box
Terminals box and bar
Info button
Primary button
Refresh Code button
Statistics button
Switch CPUs button

Error Information box
State box
Delete button
Modify button
Refresh button
Start button
Stop button
Terminals button

Refer to the `STATUS TCP, DETAIL` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP Info window

Use the **TCP Info** window to display more information about a TCP.

More Information

CPUs box
Flags box
Name box
Process box

Dump File box
Limits box
PathMon box
Screen Program box

TCP Limits window

Use the **TCP Limits** window to specify message and server limits.

More Information

Message Limits box

Server Limits box

Refer to the `SET TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP List window

Use the **TCP List** window to list all or a subset of TCPs in the Pathway system. Click to select an entry. To select two or more entries in sequence, click the first entry you want to select, then press and hold down the Shift key and click the last entry in the sequence. To select two or more entries out of sequence, press and hold down the Ctrl key and click each entry. Double-click an entry to display the TCP Details window. Use the Specific TCPs window to specify the TCP or TCPs to list.

More Information

List box
Copy button
Detail button
Modify button
Print button
Refresh Code button
Stop button

Pathway Monitor field
Delete button
Info button
Primary button
Refresh button
Start button
Switch CPUs button

Refer to the `STATUS TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP Modify window

Use the **TCP Modify** window to modify the attributes of a TCP.

More Information

| | |
|-------------|--------------------|
| CPU's box | Dump File box |
| Flags box | Limits box |
| Name box | PathMon box |
| Process box | Screen Program box |

Refer to the `ALTER TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP Primary window

Use the **TCP Primary** window to switch a TCP from its current CPU to the CPU in which it was initially started if it is different from the CPU in which it is currently executing.

More Information

Primary box

Refer to the `PRIMARY TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

TCP Statistics window

Use the **TCP Statistics** window to display statistics about a TCP.

More Information

| | |
|----------------|----------------|
| Area Info box | Pool Info box |
| Queue Info box | Refresh button |
| Reset button | |

Refer to the `STATS TCP` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal windows

More Information

- Specific Terminals window
- Terminal Add window
- Terminal Add Multiple window
- Terminal Copy window
- Terminal Detailed List window
- Terminal Details window
- Terminal Info window
- Terminal List window
- Terminal Modify window
- Terminal Statistics window
- Terminal Tell window
- Terminal Tells Pending window

Specific Terminals window

Use the **Specific Terminals** window to specify the terminal or terminals to list, start, stop, abort, restart, suspend, or resume. Listed terminals are displayed in the Terminal List window.

More Information

List field

Refer to the `STATUS TERM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Add window

Use the **Terminal Add** window to add a terminal.

More Information

| | |
|---------------------|--------------------|
| AutoRestart box | Name box |
| PathMon box | Printer Device box |
| Screen Program box | TCP box |
| Terminal Device box | Groups button |

Refer to the `ADD TERM` and `SET TERM` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Add Multiple window

Use the **Terminal Add Multiple** window to add multiple terminals.

More Information

Name list box

Refer to the `ADD TERM` and `SET TERM` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Copy window

Use the **Terminal Copy** window to copy the attributes of a terminal.

More Information

AutoRestart box

Name box

PathMon box

Printer Device box

Screen Program box

TCP box

Terminal Device box

Groups button

Refer to the `ADD TERM` and `SET TERM` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Detailed List window

Use the **Terminal Detailed List** window to list detailed information about all or a subset of terminals in the Pathway system. Click to select an entry. To select two or more entries in sequence, click the first entry you want to select, then press and hold down the Shift key and click the last entry in the sequence. To select two or more entries out of sequence, press and hold down the Ctrl key and click each entry. Double-click an entry to display the Terminal Details window. Use the Specific Terminals window to specify the terminal or terminals to list.

Note In a production environment with a large number of terminals, it is better not to display detailed information about all terminals. Instead, display detailed information about a subset of terminals.

More Information

List box

Pathway Monitor field

Abort button

Copy button

Delete button

Detail button

Info button

Modify button

Print button

Refresh button

Restart button

Resume button

Start button

Stop button

Suspend button

Tell button

Refer to the `STATUS TERM, DETAIL` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Details window

Use the **Terminal Details** window to display detailed information about a terminal.

More Information

Accept Stmt box

Character Set box

Error Information box

Instruction box

Pending Cmd box

Program Unit box

Server Class box

State box

Stop Mode box

TCP box

Terminal File box

Transaction box

Waiting on box

Abort button

Copy button

Delete button

Info button

Modify button

Refresh button
Resume button
Statistics button
Suspend button

Restart button
Start button
Stop button
Tell button

Refer to the `STATUS TCP`, `DETAIL` and `STATUS TERM`, `DETAIL` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Info window

Use the **Terminal Info** window to display more information about a terminal.

More Information

AutoRestart box
PathMon box
Screen Program box
Terminal Device box

Name box
Printer Device box
TCP box

Terminal List window

Use the **Terminal List** window to list all or a subset of terminals in the Pathway system. Click to select an entry. To select two or more entries in sequence, click the first entry you want to select, then press and hold down the Shift key and click the last entry in the sequence. To select two or more entries out of sequence, press and hold down the Ctrl key and click each entry. Double-click an entry to display the Terminal Details window. Use the Specific Terminals window to specify the terminal or terminals to list.

More Information

List box
Abort button
Delete button
Info button
Print button
Restart button
Start button
Suspend button

Pathway Monitor field
Copy button
Detail button
Modify button
Refresh button
Resume button
Stop button
Tell button

Refer to the `STATUS TERM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Modify window

Use the **Terminal Modify** window to modify the attributes of a terminal.

More Information

AutoRestart box
PathMon box
Screen Program box
Terminal Device box

Name box
Printer Device box
TCP box

Refer to the `ALTER TERM` and `SET TERM` commands in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Tell window

The **Terminal Tell** window is used to send a tell message to the specified terminal(s).

Note If Pathway Manager times out when you send the message, increase the Host Timeout value in the Preferences window.

More Information

Tell Message box

To Terminal(s) box

Refer to the `TELL` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Tells Pending window

The **Terminal Tells Pending** window displays pending tell messages. Click to select an entry. To select two or more entries in sequence, click the first entry you want to select, then press and hold down the Shift key and click the last entry in the sequence. To select two or more entries out of sequence, press and hold down the Ctrl key and click each entry.

More Information

| | |
|---------------|-----------------------|
| List box | Pathway Monitor field |
| Delete button | Refresh button |

Refer to the `INFO TELL` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Terminal Statistics window

Use the **Terminal Statistics** window to display statistics about a terminal.

More Information

| | |
|------------------|-------------------|
| Area Info box | I/O Info box |
| Refresh Time box | Response Time box |
| Refresh button | Reset button |

Refer to the `STATS TERM` command in the *NonStop TS/MP and Pathway Management Reference Manual*.

Common windows

More Information

List Print window

List Print window

The **List Print** window prints a list of PATHMONs, server classes, TCPs, terminals, programs, groups, or monitor definitions.

More Information

| | |
|-----------------|-----------------|
| Orientation box | Output Mode box |
| Print Range box | |

Wizard windows

More Information

Resource View Wizard

Resource View Wizard

More Information

Process Distribution window
Process CPU Usage window
Request Rate window
Server Class Selection window
Graph Options window

Process Distribution window

The **Process Distribution** window displays the distribution of (primary) Pathway processes (the PATHMON process, server processes, and TCPs) across available CPUs.

You can choose whether to display the information graphically or as a table.

Process CPU Usage window

The **Process CPU Usage** window displays CPU usage by (primary) Pathway processes (the PATHMON process, server processes, and TCPs).

You can choose whether to display the information graphically or as a table.

Request Rate window

The **Request Rate** window displays the number of requests processed by server processes and TCPs.

Note If you want to gather statistics on the number of requests processed by a TCP, you must check its Statistics flag in the TCP Modify window.

You can choose whether to display the information graphically or as a table.

Server Class Selection window

Use the **Server Class Selection** window to select the servers for which to display request rate information.

More Information

Available Server Classes box

Selected Server Classes box

<-- Add button

Add All button

Del --> button

Del All button

Graph Options window

The **Graph Options** window lets you specify how you want the Resource View wizard to display graphical information.

System Component Colors

In the main window, colors indicate system component status.

More Information

PATHMON Process Colors

Server Class Colors

Server Process Colors

TCP Colors

Terminal Colors

PATHMON Process Colors

The following colors indicate PATHMON process status:

- Grey** The PATHMON process is running.
- Red** The PATHMON process has registered an error.
- White** The PATHMON process is starting.

Server Class Colors

The following colors indicate server class status:

- Green** Indicates running server classes—each (frozen or thawed) server class has at least one running process.
- Cyan** Indicates frozen server classes that have no running processes.
- Yellow** Indicates stopped server classes—each server class is thawed, has no error registered against it, and has no running processes.
- Red** Indicates server classes in error—each server class is thawed, has an error registered against it, and has no running processes.

Server Process Colors

The following colors indicate server process status:

- Green** Indicates running server processes.
- Yellow** Indicates stopped server processes not in error.
- Red** Indicates stopped server processes in error.

TCP Colors

The following colors indicate TCP status:

Green Indicates running TCPs—each TCP is running.

Yellow Indicates stopped or pending TCPs—each TCP is stopped or pending but has no error registered against it.

Red Indicates TCPs in error—each TCP is stopped and has an error registered against it.

Terminal Colors

The following colors indicate terminal status:

Green Indicates running terminals—each terminal is running.

Yellow Indicates stopped terminals—each terminal is stopped.

Red Indicates suspended terminals—each terminal is suspended.

Tasks and tips

More Information

- Startup Options
- Configuring Pathway Manager
- Working with Groups
- Monitoring the Pathway System
- Working with PATHMON Processes
- Working with Server Classes and Server Processes
- Working with TCPs
- Working with Terminals
- Working with Programs
- Working with Wizards

Startup Options

More Information

- About Startup Syntax
- Starting On a Single Node
- Starting On Multiple Nodes
- Starting With a Specific Initialization File
- Starting With a Specific PATHMON Process

About Startup Syntax

There are various options available for starting Pathway Manager. The options are specified after the name of the Pathway Manager program file in the Target field.

More Information

- Syntax
- Syntax Conventions
- Examples

Syntax

```
program-file-name [ -INI ini-file-name ]  
                [ -PATHWAY pathmon-name ]
```

program-file-name

Specifies the name of the Pathway Manager program file.

-INI ini-file-name

Starts Pathway Manager with the specified initialization file name.

-PATHWAY pathmon-name

Starts Pathway Manager with a specific PATHMON process. You can abbreviate this option to *-PATH* or *-P*.

This option causes Pathway Manager to display the Pathway environment controlled by the PATHMON process you specify, rather than the Pathway environment controlled by the default PATHMON process.

The name of the default PATHMON process is specified in the Pathway Manager initialization file. This option does not change the initialization file. The default PATHMON process name in the initialization file is not changed unless you explicitly change it during a Pathway Manager session.

This option is useful if your Tandem system has more than one Pathway system, for example *\SYS1.\$PTPM* and *\SYS1.\$RSCP*, and you want to start Pathway Manager with a specific Pathway system while having only one initialization file.

Syntax Conventions

The following list summarizes the syntax conventions used in the online help:

| | |
|---------------------------------|--|
| UPPERCASE LETTERS | Words in uppercase letters are keywords; you must enter these words as shown (with either uppercase or lowercase letters). |
| <i>lowercase italic letters</i> | Words in lowercase italic letters are variables; you must enter a value for these variables. |
| Brackets [] | Words surrounded by brackets are optional; you can choose one or none. |
| Braces { } | Words surrounded by braces are required; you must choose one. |
| Vertical bar | Words separated by a vertical bar are mutually exclusive alternatives; you can choose only one. |

Examples

Assume that the name of the Pathway Manager program file is `FILE.EXE`.

- 1 The following example starts Pathway Manager with an explicitly specified initialization file `MYFILE.INI`:

```
FILE.EXE -INI MYFILE.INI
```

- 2 The following example starts Pathway Manager and displays the Pathway environment controlled by the `PATHMON` process `$PTPM` on remote system `\SYS1`, regardless of the default `PATHMON` process name specified in the initialization file:

```
FILE.EXE -P \SYS1.$PTPM
```

- 3 The following example shows a combination of options:

```
FILE.EXE -INI MYFILE.INI -P \SYS1.$PTPM
```

Starting On a Single Node

To start Pathway Manager on a single node:

- 1 Obtain, install, and start the MIP on the Tandem computer system with which you intend to use Pathway Manager. Refer to the MIP documentation for details.
- 2 Establish communication between the workstation from which you intend to run Pathway Manager and the Tandem system. Refer to your communications or Tandem system documentation for details.
- 3 Start Pathway Manager. The Logon window is displayed.
- 4 Type your user ID and password in the User ID and Password fields, respectively.
- 5 If necessary, configure communications between Pathway Manager and the Tandem system with which you intend to use Pathway Manager. To do so click the Configure button to display the Configuration window, complete the appropriate options, and click the OK button. The Logon window is redisplayed.
- 6 Click the OK button to begin the logon operation.
- 7 If the Node Selection box from the Preferences window is checked, the Node Selection window is displayed. Confirm that the node to which you want to log on is the only node selected.
- 8 Click the OK button to continue the logon operation. Pathway Manager attempts to log on using the specified user ID and password. Pathway Manager displays a message if an error occurs (for example, an invalid user ID and password combination). When you have successfully logged on, Pathway Manager displays the main window.

Starting On Multiple Nodes

To start Pathway Manager on multiple nodes:

- 1 Obtain, install, and start a MIP on the Tandem computer system with which you intend to directly use Pathway Manager. This system is called the gateway node. Refer to the MIP documentation for details.

-
- 2 Install and start a MIP on each other Tandem system with which you intend to use Pathway Manager. These systems are called outer nodes. These nodes must be licensed to use Pathway Manager online and must be connected by an Expand link to the gateway node.
 - 3 Establish communication between the workstation from which you intend to run Pathway Manager and the gateway node. Refer to your communications or Tandem system documentation for details.
 - 4 Start Pathway Manager from the workstation connected to gateway node. The Logon window is displayed.
 - 5 Type your user ID and password in the User ID and Password fields, respectively.
 - 6 If necessary, configure communications between Pathway Manager and the gateway node. To do so click the Configure button to display the Configuration window, complete the appropriate options, and click the OK button. The Logon window is redisplayed.
 - 7 Click the OK button to begin the logon operation.
 - 8 If the Node Selection box from the Preferences window is checked, the Node Selection window is displayed. Select the outer nodes to which you want to log on (the gateway node is already selected) and, if necessary, specify the MIP name, user ID, and password required to log on.
 - 9 Click the OK button to continue the logon operation. Pathway Manager attempts to log on to the gateway node and then to outer nodes. Pathway Manager uses the specified outer node MIP name to establish communication with each outer node, and the specified user ID and password to log on. Pathway Manager displays a message if an error occurs (for example, an invalid user ID and password combination). When you have successfully logged on to each node, Pathway Manager displays the main window.

Starting With a Specific Initialization File

This topic describes the `-INI` startup option described in startup syntax. This option lets you start Pathway Manager with a specific initialization file.

Use the `-INI` startup option if your Tandem system has more than one Pathway system, for example \$PTPM and \$RSCP, and you want to specify different Pathway Manager initialization options for each system.

To set up Pathway Manager to start with a specific initialization file for each Pathway system:

- 1 Create one Pathway Manager shortcut for each Pathway system.
- 2 Modify each Pathway Manager shortcut as follows:
 - a Optionally, rename the shortcut to include the name of the initialization file.
 - b Edit the shortcut's Target properties so that it specifies the `-INI` option followed by an initialization file name.

The following examples specify initialization file names that would be appropriate for Pathway systems named \$PTPM and \$RSCP:

```
FILE.EXE -INI PTPM.INI
FILE.EXE -INI RSCP.INI
```

Starting With a Specific PATHMON Process

This topic describes the `-PATHWAY` startup option described in startup syntax. This option lets you override the name of the default PATHMON process specified in the initialization file.

Use the `-PATHWAY` startup option if your Tandem system has more than one Pathway system, for example \$PTPM and \$RSCP, and these Pathway systems have identical initialization options.

To set up Pathway Manager to start with a specific Pathway system:

- 1 Create one Pathway Manager shortcut for each subsystem.
- 2 Modify each Pathway Manager shortcut as follows:
 - a Optionally, rename the shortcut to include the name of the Pathway system that will be started.

-
- b** Edit the shortcut's Target properties so that it specifies the `-PATHWAY` option followed by the name of the Pathway system that will be started.

The following examples specify Pathway system names, \$PTPM and \$RSCP:

```
FILE.EXE -PATHWAY $PTPM  
FILE.EXE -PATHWAY $RSCP
```

Configuring Pathway Manager

More Information

Controlling Host Resource Usage
Configuring email

Configuring email

More Information

About email
Configuring email

About email

Pathway Manager supports both the MAPI and Lotus Vendor Independent Messaging (VIM) email interfaces (the VIM interface enables you to send email to Lotus Notes email recipients).

The MAPI interface is the default: no user configuration is required.

If the MAPI interface is available (and you have not previously configured Pathway Manager to use the Lotus VIM interface), Pathway Manager automatically detects and uses the MAPI interface.

If the MAPI interface is available (and you have previously configured Pathway Manager to use the Lotus VIM interface but this interface is unavailable when you start Pathway Manager), Pathway Manager automatically detects and uses the MAPI interface.

The Lotus VIM interface is not detected automatically. If the Lotus VIM interface is available and you want to use this interface, you must use the Preferences window to explicitly configure Pathway Manager to use the interface.

When an available email interface is configured, email functionality in Pathway Manager is enabled. If both interfaces are unavailable when you start Pathway Manager, email functionality is disabled.

If you make an interface available (for example, by changing your default MAPI client to Outlook), then you must restart The Operations Pack for the change to take effect. You do not need to restart The Operations Pack to change from one available interface to the other.

Configuring email

- 1** On the **Session** menu, click **Preferences**.
- 2** In **Email Interface**, click **Use MAPI Interface (if available)** or **Use Lotus VIM Interface**.
- 3** Click **OK**.

Note If the selected interface is unavailable, the current configuration is not changed and Pathway Manager displays an alert.

Controlling Host Resource Usage

More Information

About the SPI Delay Setting
Configuring the SPI Delay Settings

About the SPI Delay Setting

The Subsystem Programmatic Interface (SPI) is used to refresh the status of the displayed Pathway on the Pathway Manager main window. SPI is used to interrogate the PathMon for object states. For Pathways with

large numbers of defined servers or TCPs, the PathMon process may become very busy at regular intervals, according to the Refresh Interval that you can set in the Advanced tab of the Preferences window.

The PathMon CPU busy rate may be seen to jump or "spike" every Refresh Interval. Increasing the Refresh Interval reduces the amount of CPU time used by PathMon when running Pathway Manager, however this does not reduce the spike that may be seen in CPU busy rate monitoring.

To eliminate or reduce the spike in CPU activity that occurs every Refresh Interval, use the SPI Delay setting that you can set in the Advanced tab of the Preferences window.

The SPI Delay setting specifies a delay (in hundredths of a second) between internal SPI requests to PathMon. Retrieving the status of servers and TCPs from PathMon may require many SPI requests for massively configured Pathways, so the SPI Delay effectively limits the CPU resources used by PathMon at any given moment. The setting can eliminate any performance impact on this Pathway and other applications.

Note that the SPI Delay setting, if increased, will increase the elapsed time to update the Pathway status in the main window. This may affect the initial logon time, and may increase the observed refresh interval.

You can specify a value from 0 through 999. The default is 2, which should reduce the spike in CPU usage without adversely impacting the elapsed time for refreshes. Specify 0 to disable the delay between SPI requests (for minimum elapsed time required for main window refresh). Users with massively configured Pathways may need to increase the SPI Delay to further reduce CPU spikes and the PathMon CPU busy rates.

Configuring the SPI Delay Settings

- 1 On the **Session** menu, click **Preferences**.
- 2 Click **Advanced**.
- 3 Click in **SPI Delay**, and then specify a value.
- 4 Click **OK**.

Working with Groups

More Information

- About Groups
- Listing Groups
- Adding a Group
- Copying a Group
- Modifying a Group
- Deleting a Group
- Adding Group Members
- Deleting Group Members

Related Information

- Group windows

About Groups

A **group** is a logical set of Pathway objects (and/or other groups) that is identified by a unique group identifier (ID). Objects and groups in a group are collectively called **group members**. The technique of adding objects and groups to a group is called **grouping**. A group is used with a specific Pathway system. By creating a group you can conveniently manage all objects in the group in a single operation—because selecting a group effectively selects all objects in the group.

You can include Pathway objects such as terminals, terminal control processes (TCPs), server classes, and programs within a group. The ability to include groups within a group gives you the flexibility to create small groups of objects and to combine those small groups in larger groups as required.

You can list groups in the Group List window. A group list shows groups with global and user-specific scope. A group with global scope is available to all Pathway Manager users that connect to the same Tandem system. A group with user-specific scope is available only to the user whose user ID is displayed in the list. From the Group List window, you can display more information about the objects in the group and start or stop all objects in the group.

You create groups using the Group Add window. You can copy and modify groups using the Group Copy window and Group Modify window, respectively. You can also delete groups.

When you create or copy a group, you must give the group a unique group ID. When you create, copy, or modify a group you must specify the Pathway system with which the group is used and indicate whether the group's scope is global or user-specific.

You can add a member to a group by typing the name or by selecting the name from a list. You can delete a member from a group.

Information about groups is saved on the Tandem computer system to which Pathway Manager is connected. The information is saved in an edit file called PATHDAT in the volume and subvolume from which the MIP was started.

Related Information

Group windows

Listing Groups

To list groups:

- 1 Display the main window.
- 2 Select the Group>List command. Groups are listed in the Group List window.

Related Information

Group windows

Adding a Group

To add a group:

- 1 Display the main window.
- 2 Select the Group>Add command. The Group Add window is displayed.
- 3 Add and delete group members as required.
- 4 Click the OK button. The group is added.

Related Information

Group windows

Copying a Group

To copy a group:

- 1 Display the main window.
- 2 Select the Group>List command. Groups are listed in the Group List window.
- 3 Click an entry to select a group.
- 4 Click the Copy button. The Group Copy window is displayed.
- 5 Use the Group box to specify the group ID, Pathway system, and scope for the group.
- 6 Add and delete group members as required.
- 7 Click the OK button. The group is copied.

Related Information

Group windows

Modifying a Group

To modify a group:

- 1 Display the main window.
- 2 Select the Group>List command. Groups are listed in the Group List window.

-
- 3 Click an entry to select a group.
 - 4 Click the Modify button. The Group Modify window is displayed.
 - 5 Add and delete group members as required.
 - 6 Click the OK button. The group is modified.

Related Information

Group windows

Deleting a Group

To delete a group:

- 1 Display the main window.
- 2 Select the Group>List command. Groups are listed in the Group List window.
- 3 Click an entry to select a group.
- 4 Click the Delete button. A confirmation message is displayed.
- 5 Click OK to confirm or Cancel to cancel the delete operation. If confirmed, the group is deleted.

Related Information

Group windows

Adding Group Members

Group members include Pathway objects and other groups. To add a group member, either type the name or select the name(s) from a list.

Typing the Name

Typing the name is useful when you want to add either the name of an object or group that does not yet exist in the Pathway system but which you intend to add in the future, or an object name with a wild card. When you type a name, you use only the Group Members box. Do the following:

- 1 Type the name next to the Add button.
- 2 Select the type from the Type drop-down list box.
- 3 Click the Add button. The member is added.
- 4 Click the OK button. The group is saved.

Selecting the Name(s) From a List

Selecting the name(s) from a list enables you to add multiple objects and groups quickly. When you select from a list you use both the Group Members box and the Pathway Objects box. Do the following:

- 1 Select the object type from the Type drop-down list box. The Get ... List button changes name to match your selection.
- 2 Click the Get ... List button. The objects or groups of the selected type are displayed.
- 3 Select one or more entries. Click to select one entry. To select two or more entries in sequence, click the first entry you want to select, then press and hold down the Shift key and click the last entry in the sequence. To select two or more entries out of sequence, press and hold down the Ctrl key and click each entry.
- 4 Click the <-- Add button. The object(s) are added to the group.
- 5 Click the OK button. The group is saved.

Related Information

Group windows

Deleting Group Members

Group members include Pathway objects and other groups. You delete members from the Group Members box. To delete a group member:

- 1 Select one or more members. Click an entry to select an object. To select two or more objects in sequence, click the first object you want to select, then press and hold down the Shift key and click the last object in the sequence. To select two or more objects out of sequence, press and hold down the Ctrl key and click each object.
- 2 Click the Del --> button. The object(s) are deleted from the group.
- 3 Click the OK button. The group is saved.

Related Information

Group windows

Monitoring the Pathway System

More Information

About Monitoring
Monitoring Terminal Status
Enabling Monitoring
Disabling Monitoring
Listing Monitor Definitions
Adding a Monitor Definition
Copying a Monitor Definition
Modifying a Monitor Definition
Deleting a Monitor Definition
Activating a Monitor Definition
Inactivating a Monitor Definition

Related Information

Monitor windows

About Monitoring

Pathway Manager enables you to automatically **monitor** the Pathway environment of the current default Pathway system and to automatically perform certain actions when a certain Pathway condition is met.

A **monitor definition** specifies what events you want to monitor and what actions you want to happen when an event occurs.

You can automatically monitor when the state of the following objects change:

- The PATHMON process—changes to ERROR, RUNNING, STARTING, or SHUTDOWN
- Server class status—changes to RUNNING, FROZEN, STOPPED, or ERROR
- TCP status—changes to RUNNING, STOPPED, or ERROR
- Terminal status—changes to RUNNING, STOPPED, or SUSPENDED

You can automatically monitor when the percentage of the following objects reaches a user-specified threshold:

- Server classes—percentage running, frozen, stopped, or in error
- TCPs—percentage running, stopped, or in error
- Terminals—percentage running, stopped, or suspended

Actions that Pathway Manager can automatically perform when a certain Pathway condition is met include:

- Flashing a window
- Sounding a beep
- Playing a sound file
- Displaying a user-defined message box
- Generating a user-defined EMS event (optionally specifying whether it is critical)
- Issuing a PATHCOM or TACL command
- Sending an email message

You can list, add, copy, and modify monitor definitions in the Monitor List window and Monitor Add/Copy/Modify windows. You can delete definitions. After creating a definition you can choose when to activate or inactivate it.

Related Information

Monitor windows

Monitoring Terminal Status

Pathway Manager uses EMS to monitor **Terminal Status** changes. Therefore before you can begin to monitor terminal status changes in the current default Pathway system, the system must be logging status messages in event format to an EMS collector (for example, \$0). To enable logging, select the **Status messages** and **EMS event format** check boxes in the Log Files box in the PathMon Modify window.

When terminal status monitoring is first required, Pathway Manager starts an EMS distributor using the values in the EMSDIST Server box in the Preferences window. When the EMS distributor is started Pathway Manager creates a filter table file that forwards only terminal status events to the workstation.

Note Terminal status monitoring may result in additional network message traffic.

Related Information

Monitor windows

Enabling Monitoring

To enable monitoring:

- 1 Display the main window.
- 2 Select the Monitor>Enabled command and ensure that a tick is displayed next to Enabled.

Related Information

Monitor windows

Disabling Monitoring

To disable monitoring:

- 1 Display the main window.
- 2 Select the Monitor>Enabled command ensure that a tick is not displayed next to Enabled.

Related Information

Monitor windows

Listing Monitor Definitions

To list monitor definitions:

- 1 Display the main window.
- 2 Select the Monitor>List command. Monitor definitions are listed in the Monitor List window.

Related Information

Monitor windows

Adding a Monitor Definition

To add a monitor definition:

- 1 Display the main window.
- 2 Select the Monitor>Add command. The Monitor Add window is displayed.
- 3 Specify monitor definition attributes as required.
- 4 Click the OK button. The monitor definition is added.

Related Information

Copying a Monitor Definition

To copy a monitor definition:

- 1 Display the main window.
- 2 Select the Monitor>List command. Monitor definitions are listed in the Monitor List window.
- 3 Click an entry to select a monitor definition.
- 4 Click the Copy button. The Monitor Copy window is displayed.
- 5 Use the Monitor ID box to specify a monitor ID for the monitor definition.
- 6 Specify monitor definition attributes as required.
- 7 Click the OK button. The monitor definition is copied.

Related Information

Monitor windows

Modifying a Monitor Definition

To modify a monitor definition:

- 1 Display the main window.
- 2 Select the Monitor>List command. Monitor definitions are listed in the Monitor List window.
- 3 Click an entry to select a monitor definition.
- 4 Click the Modify button. The Monitor Modify window is displayed.
- 5 Specify monitor definition attributes as required.
- 6 Click the OK button. The monitor definition is modified.

Related Information

Monitor windows

Deleting a Monitor Definition

To delete a monitor definition:

- 1 Display the main window.
- 2 Select the Monitor>List command. Monitor definitions are listed in the Monitor List window.
- 3 Click an entry to select a monitor definition.
- 4 Click the Delete button. A confirmation message is displayed.
- 5 Click OK to confirm or Cancel to cancel the delete operation. If confirmed, the monitor definition is deleted.

Related Information

Monitor windows

Activating a Monitor Definition

To activate a monitor definition:

- 1 Display the main window.
- 2 Select the Monitor>List command. Monitor definitions are listed in the Monitor List window.
- 3 Click an entry to select a monitor definition.
- 4 Click the Activate button. The monitor definition state changes to ACTIVE.

After activating a monitor definition, to enable monitoring:

-
- 1 Display the main window.
 - 2 Select the Monitor>Enabled command and ensure that a tick is displayed next to Enabled.

Related Information

Monitor windows

Inactivating a Monitor Definition

To inactivate a monitor definition:

- 1 Display the main window.
- 2 Select the Monitor>List command. Monitor definitions are listed in the Monitor List window.
- 3 Click an entry to select a monitor definition.
- 4 Click the Inactivate button. The monitor definition state changes to INACTIVE.

Related Information

Monitor windows

Working with PATHMON Processes

More Information

Monitoring the Pathway System

Listing PATHMON Processes

Setting the Default PATHMON Process

Dragging-and-Dropping to Set the Default PATHMON Process

Displaying Detailed Information About the Default PATHMON Process

Displaying Detailed Information About a Selected PATHMON Process

Displaying the Server Classes in a Pathway System

Displaying the TCPs in a Pathway System

Displaying the Terminals in a Pathway System

Starting a Pathway System

Shutting Down the Default Pathway System

Shutting Down a Selected Pathway System

Modifying the Attributes of the Default PATHMON Process

Modifying the Attributes of a Selected PATHMON Process

Switching a PATHMON Primary Process

Switching Primary and Backup PATHMON Processes

Generating a Pathway Configuration Script File

Monitoring the Pathway System

To monitor the Pathway system, display the main window. The color of the Pathway Monitor box indicates the state of the PATHMON process.

Listing PATHMON Processes

To list PATHMON processes:

- 1 Display the main window.
- 2 Select the PathMon>List command. PATHMON processes are listed in the PathMon List window.

Setting the Default PATHMON Process

To set the default PATHMON process:

- 1 Display the main window.
- 2 Select the PathMon>Set Default command. The Set Default Pathway window is displayed.
- 3 Select a PATHMON process.
- 4 Click the OK button. The main window is refreshed.

Dragging-and-Dropping to Set the Default PATHMON Process

To set the default PATHMON process by dragging-and-dropping from the main window (if you have the authority to do so):

- 1 Display the main window.
- 2 In the Pathways box, click a PATHMON process.
- 3 Drag and drop the PATHMON process to the Pathway Monitor box.

Displaying Detailed Information About the Default PATHMON Process

To display detailed information about the default PATHMON process:

- 1 Display the main window.
- 2 Select the PathMon>Display Details command or double-click the Pathway Monitor box. Detailed information about the default PATHMON process is displayed in the PathMon Details window.

Displaying Detailed Information About a Selected PATHMON Process

To display detailed information about a selected PATHMON process:

- 1 Display the main window.
- 2 Select the PathMon>List command. PATHMON processes are listed in the PathMon List window.
- 3 Click an entry to select a PATHMON process.
- 4 Click the Detail button. Detailed information about the PATHMON process is displayed in the PathMon Details window.

Displaying the Server Classes in a Pathway System

To display the server classes in a Pathway system, display the main window. Server classes are displayed in the Pathway environment display.

Displaying the TCPs in a Pathway System

To display the TCPs in a Pathway system, display the main window. TCPs are displayed in the Pathway environment display.

Displaying the Terminals in a Pathway System

To display the terminals in a Pathway system, display the main window. Terminals are displayed in the Pathway environment display.

Starting a Pathway System

To cool or cold start a selected Pathway system after you have started the PATHMON process (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the PathMon>List command. PATHMON processes are listed in the PathMon List window.
- 3 Click an entry to select a starting PATHMON process.
- 4 Click the Start button. The PathMon Start window is displayed.
- 5 Specify startup attributes as required.
- 6 Click the OK button to begin the startup operation, which occurs in the background. A message box is displayed if a startup error occurs.

Shutting Down the Default Pathway System

To shut down the default Pathway system (if you have the authority to do so):

- 1 Display the main window.
- 2 Double-click the Pathway Monitor box. The PathMon Details window is displayed.
- 3 Click the Shutdown button. The PathMon Shutdown window is displayed.
- 4 Specify shutdown attributes as required.
- 5 Click the OK button to begin the shutdown operation, which occurs in the background. A message box is displayed if a shutdown error occurs.

Note On Tandem systems running D30 or later, additional shutdown progress information is displayed in the PathMon Details window and the main window.

Shutting Down a Selected Pathway System

To shut down a selected Pathway system (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the PathMon>List command. PATHMON processes are listed in the PathMon List window.
- 3 Click an entry to select a running PATHMON process.
- 4 Click the Shutdown button. The PathMon Shutdown window is displayed.
- 5 Specify shutdown attributes as required.
- 6 Click the OK button to begin the shutdown operation, which occurs in the background. A message box is displayed if a shutdown error occurs.

Note On Tandem systems running D30 or later, additional shutdown progress information is displayed in the main window.

Modifying the Attributes of the Default PATHMON Process

To modify the attributes of the default PATHMON process (if you have the authority to do so):

- 1 Display the main window.
- 2 Double-click the Pathway Monitor box. The PathMon Details window is displayed.
- 3 Click the Modify button. The PathMon Modify window is displayed.
- 4 Specify PATHMON process attributes as required.
- 5 Click the OK button. The PATHMON process is modified. The PathMon Details window is refreshed.

Modifying the Attributes of a Selected PATHMON Process

To modify the attributes of a selected PATHMON process (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the PathMon>List command. PATHMON processes are listed in the PathMon List window.
- 3 Click an entry to select a PATHMON process.
- 4 Click the Modify button. The PathMon Modify window is displayed.
- 5 Specify PATHMON process attributes as required.
- 6 Click the OK button. The PATHMON process is modified. The PathMon List window is refreshed.

Switching a PATHMON Primary Process

To switch a PATHMON primary process from its current CPU to the CPU in which it was initially started (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the PathMon>List command. PATHMON processes are listed in the PathMon List window.
- 3 Click an entry to select a PATHMON process.
- 4 Click the Primary button. The PathMon Primary window is displayed.
- 5 Specify additional information as required.
- 6 Click the OK button. Pathway Manager attempts to switch the PATHMON primary process. If successful, the PathMon List window is refreshed.

Switching Primary and Backup PATHMON Processes

To switch primary and backup PATHMON processes (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the PathMon>List command. PATHMON processes are listed in the PathMon List window.
- 3 Click an entry to select a PATHMON process.
- 4 Click the Switch CPUs button. Pathway Manager attempts to switch the primary and backup processes. The PathMon List window is refreshed.

Generating a Pathway Configuration Script File

To generate a Pathway configuration script file for reconfiguring a Pathway system after a cold start:

- 1 Display the main window.
- 2 Select the Wizard>Generate Config Script command.
- 3 Answer the wizard's questions as they are displayed. The configuration script is generated. The main window is displayed.

Working with Server Classes and Server Processes

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Monitoring Server Classes

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Stopping a Server Class

Freezing a Server Class

Thawing a Server Class

Deleting a Server Class

Modifying Server Class Attributes

Getting Server Class Info

Copying a Server Class

Displaying the Processes Within a Server Class

Displaying Server Class Statistics

Monitoring Server Classes

To monitor server classes, display the main window. The Server Classes box and bar indicates the state of server classes.

Listing All Server Classes

To list all server classes:

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.

Listing Specific Server Classes

To list specific server classes:

- 1 Display the main window.
- 2 Select the SvrClass>List Specific command. The Specific Server Classes window is displayed.
- 3 Specify server class names as required.
- 4 Click the OK button. Server classes are listed in the Server Class List window. A message is displayed if no server classes are found.

Displaying Detailed Information About a Server Class

To display detailed information about a server class:

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Double-click an entry to select a server class and display the Server Class Details window.

Adding a Server Class

To add a server class (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Wizard>Configure New Component>Server command.
- 3 Answer the wizard's questions as they are displayed. The server class is added. The main window is displayed.

Starting a Server Class

To start a server class (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a server class that is not running.
- 4 Click the Start button. The server class is thawed (if frozen) and started. The Server Class List window is refreshed.

Stopping a Server Class

To stop a server class (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a running server class.
- 4 Click the Stop button. The server class is frozen (if thawed) and stopped. The Server Class List window is refreshed.

Freezing a Server Class

To freeze a server class (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a thawed server class.
- 4 Click the Freeze button. The server class is frozen. The Server Class List window is refreshed.

Thawing a Server Class

To thaw a server class (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a frozen server class.
- 4 Click the Thaw button. The server class is thawed. The Server Class List window is refreshed.

Deleting a Server Class

To delete a server class (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a server class that is not running.
- 4 Click the Delete button. A confirmation message is displayed.
- 5 Click OK to confirm or Cancel to cancel the delete operation. If confirmed, the server class is deleted and the Server Class List window is refreshed.

Modifying Server Class Attributes

To modify server class attributes (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a server class that is not running.
- 4 Click the Modify button. The Server Class Modify window is displayed.
- 5 Specify server class attributes as required.
- 6 Click the OK button. The server class is modified. The Server Class List window is refreshed.

Getting Server Class Info

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a server class.
- 4 Click the Info button. The Server Class Info window is displayed.

Copying a Server Class

To copy a server class (if you have the authority to do so):

- 1 Display the main window.

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- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
 - 3 Click an entry to select a server class.
 - 4 Click the Copy button. The Server Class Copy window is displayed.
 - 5 Specify attributes for the new server class as required.
 - 6 Click the OK button. The new server class is created. The Server Class List window is refreshed.

Displaying the Processes Within a Server Class

To display the processes within a server class:

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a server class.
- 4 Click the Processes button. Processes are displayed in the Server Process List window.

Displaying Server Class Statistics

To display server class statistics:

- 1 Display the main window.
- 2 Select the SvrClass>List All command. Server classes are listed in the Server Class List window.
- 3 Click an entry to select a running server class.
- 4 Click the Detail button. The Server Class Details window is displayed.
- 5 Click the Statistics button. Statistics about the server class are displayed in the Server Class Statistics window.

Working with TCPs

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Modifying TCP Attributes
Copying a TCP
Refreshing SCOBOL Code
Switching the Primary TCP to Its Initial CPU
Switching the Primary and Backup TCPs
Displaying TCP Statistics

Monitoring TCPs

To monitor TCPs, display the main window. The TCPs box and bar indicates the state of TCPs.

Listing All TCPs

To list all TCPs:

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.

Listing Specific TCPs

To list specific TCPs:

- 1 Display the main window.
- 2 Select the TCP>List Specific command. The Specific TCPs window is displayed.
- 3 Specify TCP names as required.
- 4 Click the OK button. TCPs are listed in the TCP List window. A message is displayed if no TCPs are found.

Displaying Detailed Information About a TCP

To display detailed information about a TCP:

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Double-click an entry to select a TCP and display the TCP Details window.

Adding a TCP

To add a TCP (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Wizard>Configure New Component>TCP command.
- 3 Answer the wizard's questions as they are displayed. The TCP is added. The main window is displayed.

Starting a TCP

To start a TCP (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a stopped TCP.
- 4 Click the Start button. The TCP is started. The TCP List window is refreshed.

Stopping a TCP

To stop a TCP (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a running TCP.
- 4 Click the Stop button. The TCP is stopped. The TCP List window is refreshed.

Deleting a TCP

To delete a TCP (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a stopped TCP.
- 4 Click the Delete button. A confirmation message is displayed.
- 5 Click OK to confirm or Cancel to cancel the delete operation. If confirmed, the TCP is deleted and the TCP List window is refreshed.

Modifying TCP Attributes

To modify TCP attributes (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a TCP.
- 4 Click the Modify button. The TCP Modify window is displayed.
- 5 Specify TCP attributes as required.
- 6 Click the OK button. The TCP is modified. The TCP List window is refreshed.

Copying a TCP

To copy a TCP (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a TCP.
- 4 Click the Copy button. The TCP Copy window is displayed.
- 5 Specify attributes for the new TCP as required.
- 6 Click the OK button. The new TCP is created. The TCP List window is refreshed.

Refreshing SCOBOL Code

To refresh SCOBOL code (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a running TCP.
- 4 Click the Refresh Code button. The code is refreshed.

Switching the Primary TCP to Its Initial CPU

To switch the primary TCP to its initial CPU (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a running TCP.
- 4 Click the Primary button. The TCP Primary window is displayed.
- 5 Specify primary attributes as required.
- 6 Click the OK button. The primary TCP is switched. The TCP List window is refreshed.

Switching the Primary and Backup TCPs

To switch the primary and backup TCPs (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a running TCP.
- 4 Click the Switch CPUs button. The TCPs are switched. The TCP List window is refreshed.

Displaying TCP Statistics

To display TCP statistics:

- 1 Display the main window.
- 2 Select the TCP>List All command. TCPs are listed in the TCP List window.
- 3 Click an entry to select a running TCP.
- 4 Click the Detail button. The TCP Details window is displayed.
- 5 Click the Statistics button. Statistics about the TCP are displayed in the TCP Statistics window.

Working with Terminals

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Displaying Pending Tell Messages

Displaying Terminal Statistics

Monitoring Terminals

To monitor terminals, display the main window. The Terminals box and bar indicates the state of terminals.

Listing All Terminals

To list all terminals:

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.

Listing Specific Terminals

To list specific terminals:

- 1 Display the main window.
- 2 Select the Term>List Specific command. The Specific Terminals window is displayed.
- 3 Specify terminal names as required.
- 4 Click the OK button. Terminals are listed in the Terminal List window. A message is displayed if no terminals are found.

Displaying Detailed Information About a Terminal

To display detailed information about a terminal or terminals:

- 1 Display the main window.

-
- 2 Select the Term>List All or Term>Detailed List All command. Terminals are listed in the Terminal List window or Terminal Detailed List window.
 - 3 Double-click an entry to select a terminal and display the Terminal Details window.

Note In a production environment with a large number of terminals, it is better not to obtain a list of detailed terminal information. Instead, obtain information on a subset of terminals.

Adding a Terminal

To add a terminal (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Wizard>Configure New Component>Terminal command.
- 3 Answer the wizard's questions as they are displayed. The terminal is added. The main window is displayed.

Starting a Terminal

To start a terminal (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a stopped terminal.
- 4 Click the Start button. The terminal is started. The Terminal List window is refreshed.

Stopping a Terminal

To stop a terminal (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a running or suspended terminal.
- 4 Click the Stop button. The terminal is stopped. The Terminal List window is refreshed.

Aborting a Terminal

To abort a terminal (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a running or suspended terminal.
- 4 Click the Abort button. The terminal is aborted. The Terminal List window is refreshed.

Restarting a Terminal

Restarting a terminal is equivalent to aborting and starting the terminal in a single operation. To restart a terminal (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a running or suspended terminal.
- 4 Click the Restart button. The terminal is restarted. The Terminal List window is refreshed.

Suspending Execution of a Terminal's SCOBOL Program

To suspend execution of a terminal's SCOBOL program (if you have the authority to do so):

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- 1 Display the main window.
 - 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
 - 3 Click an entry to select a running terminal.
 - 4 Click the Suspend button. Execution of the terminal's SCOBOL program is suspended. The Terminal List window is refreshed.

Resuming Execution of a Terminal's SCOBOL Program

To resume execution of a terminal's SCOBOL program (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a suspended terminal.
- 4 Click the Resume button. Execution of the terminal's SCOBOL program resumes. The Terminal List window is refreshed.

Deleting a Terminal

To delete a terminal (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a stopped terminal.
- 4 Click the Delete button. A confirmation message is displayed.
- 5 Click OK to confirm or Cancel to cancel the delete operation. If confirmed, the terminal is deleted and the Terminal List window is refreshed.

Modifying Terminal Attributes

To modify terminal attributes (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a stopped terminal.
- 4 Click the Modify button. The Terminal Modify window is displayed.
- 5 Specify terminal attributes as required.
- 6 Click the OK button. The Terminal is modified. The Terminal List window is refreshed.

Getting Terminal Info

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a terminal.
- 4 Click the Info button. The Terminal Info window is displayed.

Copying a Terminal

To copy a terminal (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click an entry to select a terminal.

-
- 4 Click the Copy button. The Terminal Copy window is displayed.
 - 5 Specify attributes for the new terminal as required.
 - 6 Click the OK button. The new terminal is created. The Terminal List window is refreshed.

Sending a Tell Message

To send a tell message to one or more terminals (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Term>Tell command. The Terminal Tell window is displayed.
- 3 Specify the tell message and the terminal(s) to which to send the message.
- 4 Click the OK button. The tell message is sent.

Displaying Pending Tell Messages

To display pending tell messages:

- 1 Display the main window.
- 2 Select the Term>Tells Pending command. Pending tell messages are listed in the Tells Pending window.

Displaying Terminal Statistics

To display terminal statistics:

- 1 Display the main window.
- 2 Select the Term>List All command. Terminals are listed in the Terminal List window.
- 3 Click to select a running or suspended terminal.
- 4 Click the Detail button. The Terminal Details window is displayed.
- 5 Click the Statistics button. Statistics about the terminal are displayed in the Terminal Statistics window.

Working with Programs

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Listing All Programs

To list all programs:

- 1 Display the main window.
- 2 Select the Program>List All command. Programs are listed in the Program List window.

Listing Specific Programs

To list specific programs:

- 1 Display the main window.
- 2 Select the Program>List Specific command. The Specific Programs window is displayed.
- 3 Specify program names as required.

-
- 4 Click the OK button. Programs are listed in the Program List window. A message is displayed if no programs are found.

Adding a Program

To add a program (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Wizard>Configure New Component>Program command.
- 3 Answer the wizard's questions as they are displayed. The program is added. The main window is displayed.

Running a Program

To run a program:

- 1 Display the main window.
- 2 Select the Program>List All command. Programs are listed in the Program List window.
- 3 Click the Run button. The Program Run window is displayed.
- 4 Specify run attributes as required.
- 5 Click the OK button. The program is run.

Deleting a Program

To delete a program (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Program>List All command. Programs are listed in the Program List window.
- 3 Click an entry to select a program.
- 4 Click the Delete button. A confirmation message is displayed.
- 5 Click OK to confirm or Cancel to cancel the delete operation. If confirmed, the program is deleted and the Program List window is refreshed.

Modifying Program Attributes

To modify program attributes (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Program>List All command. Programs are listed in the Program List window.
- 3 Click an entry to select a program.
- 4 Click the Modify button. The Program Modify window is displayed.
- 5 Specify program attributes as required.
- 6 Click the OK button. The Program is modified. The Program List window is refreshed.

Copying a Program

To copy a program (if you have the authority to do so):

- 1 Display the main window.
- 2 Select the Program>List All command. Programs are listed in the Program List window.
- 3 Click an entry to select a program.
- 4 Click the Copy button. The Program Copy window is displayed.
- 5 Specify attributes for the new program as required.

-
- 6 Click the OK button. The new program is created. The Program List window is refreshed.

Working with Wizards

A wizard is a Pathway Manager component that asks a series of questions to perform a certain task. To start and use a wizard:

- 1 Display the main window.
- 2 Select the Wizard menu.
- 3 Select the command for the wizard you want.
- 4 Answer the wizard's questions as they are displayed. You can go back and change your answers, or leave the wizard, at any time before you finish.