



Outputware *ONLINE Documentation*

Xprint Management

Graphical User Interface

User Guide

Edition June 2000

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1 Preface

About Mercator...

Mercator is the Graphical User Interface (GUI) for Xprint Management. It allows you to monitor and configure all the hosts, printers, printer groups, jobs and job templates in the domain. It also allows you to see the existing forms and fonts in the domain.

Mercator is available on UNIX platforms as an OSF Motif application, and on Windows NT as a Win32 application based on Microsoft's Foundation Classes.

About this manual...

This manual is intended for Xprint Management administrators who will be using Xprint Management.

Mercator offers very similar functions on UNIX and on Windows NT: navigation through the menus and windows is identical on both platforms. This manual will first describe the UNIX version of Mercator and deal with the special features of Mercator under Windows NT in a separate chapter.

This manual contains the following chapters:

The [Chapter "Introduction to Mercator"](#) gives an overview of the product and describes the functions available.

The [Chapter "Hosts"](#) describes how to view the properties of a host, how to modify the properties, how to create a new host and how to delete a host.

The [Chapter "Printers"](#) describes how to view the properties of a printer, how to modify the properties, how to create a new printer and how to delete a printer.

The [Chapter "Printer Groups"](#) describes how to view the properties of a printer group, how to modify, create or delete a printer group.

The [Chapter "Jobs"](#) describes how to view the job queue, how to change the state of a job, how to modify job properties, how to delete or submit a new job.

The [Chapter "Job Templates"](#) presents how to manage public and Mercator-specific job templates.

The [Chapter "Forms and fonts"](#) shows how to view the lists of forms and fonts in the domain.

The [Chapter "Special features under Windows NT"](#) describes the differences between the UNIX and Windows NT versions of Mercator.

Finally, [Appendix: Syntax of the mercator command](#) gives a detailed explanation of the command options.

On-line Help

Mercator has comprehensive on-line help, which describes all the features in detail. You can obtain help via the Help menu or by clicking on the Help button that is available in many windows.

Background required

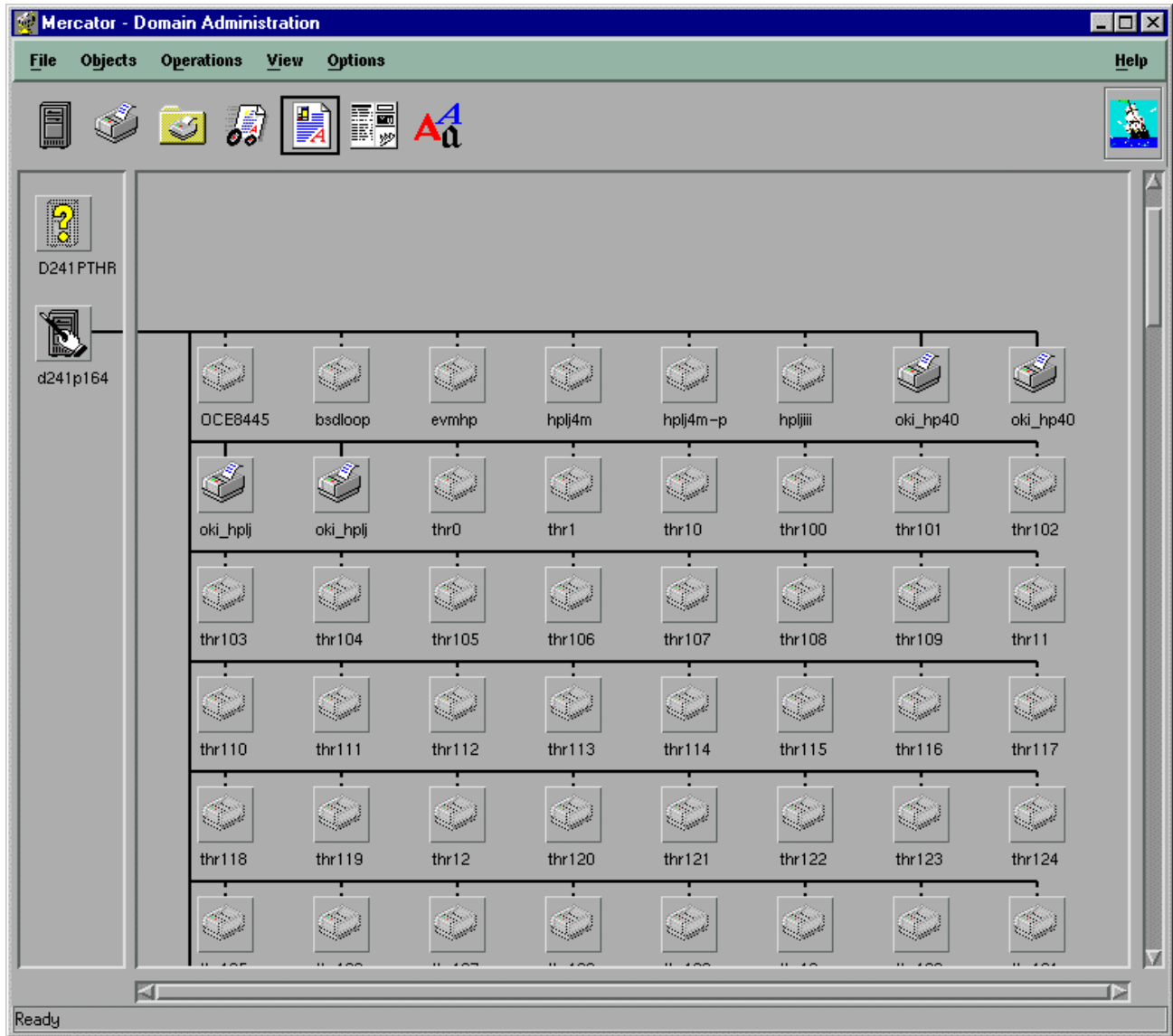
It is assumed that the reader is familiar with a graphical user interface environment and with using a mouse to open and close windows, perform operations etc. If you require further information about your graphical user interface, please see the documentation supplied with your system.

NOTE: References to 'right mouse button' and 'left mouse button' assume that the mouse is configured for a right-handed user.

2 Introduction to Mercator

Mercator is a graphical user interface for the management of Xprint Management. It allows you to administrate hosts, printers, printer groups, jobs and job templates within an Xprint Management domain and also allows you to see the forms and fonts that are available.

When you start Mercator, the main window shown below will open. This window gives you access to all the Mercator functions.



This window comprises the following components, which will be described in subsequent sections:

- Menu bar
- Toolbar (directly under the menu bar)
- Map (middle section)
- Status bar

2.1 Starting Mercator

2.1.1 UNIX platforms

Mercator for UNIX is an OSF Motif application.

Unless the default settings on your system are correct, you will have to set up the X/11 parameters for authorization and display before you start Mercator.

Suppose *mercator_host* to be the host on which you will start Mercator, and *display_host* to be the host running your X/11 server.

On the Xprint Management host, you can choose the host on which Mercator appears by initializing your environment variable *DISPLAY*:

```
[mercator_host] DISPLAY=display_host:0
[mercator_host] export DISPLAY
```

On the X/11 server host you will have to issue an *xhost* command to specify that the client host is permitted to open the display:

```
[display_host] xhost +mercator_host
```

You can then start Mercator itself. The binary is accessible as */var/spool/Xprint/config/cmd/mercator*.

```
[mercator_host] mercator &
```

By default, Mercator opens showing the objects of the whole Xprint Management domain, but for convenience or better display performance you can also restrict the scope of Mercator to a subset of the domain objects.

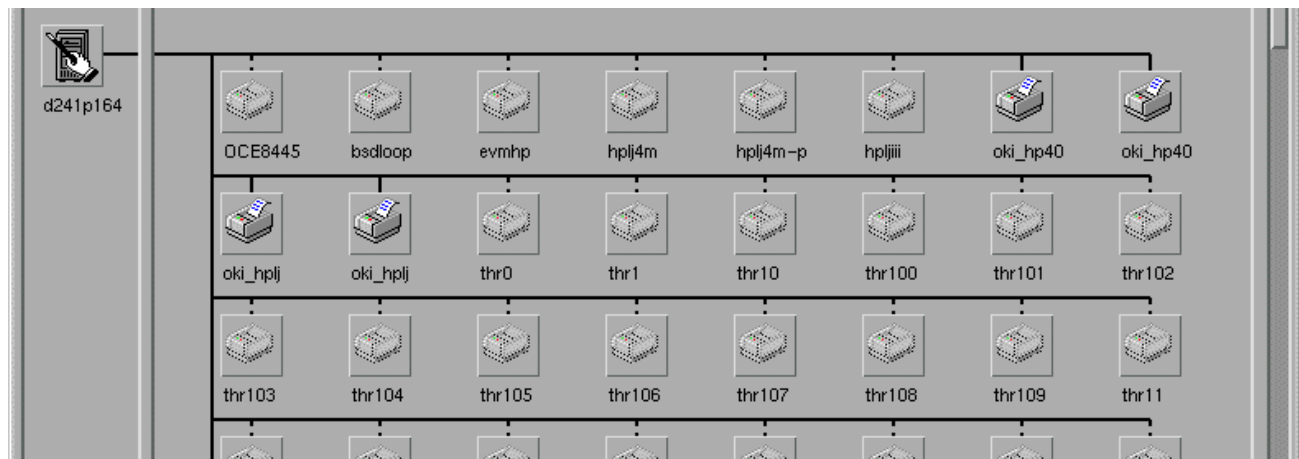
This feature is called *Reduced Map*. Refer to [Appendix: Syntax of the mercator command](#) for a complete description of this feature and the syntax of the *mercator* command.

2.1.2 Windows NT platform

To start Mercator on Windows NT you merely select *Start / Programs / Xprint Management / Mercator*.

2.2 Map

This is probably the easiest place to begin, as the map provides an overview of the hosts and printers. The illustration below shows a typical map.



The hosts are represented in the left pane. The printers that are associated with each host are shown next to the host, in the large pane. The name of each host or printer is shown directly under its icon. If you cannot see all the hosts and printers, you can scroll the display or enlarge the window.

If you would prefer to see the hosts along the top of the window with their printers underneath, select *Vertical* from the *View* menu.

2.2.1 What can you do in the map?

The Mercator map allows you to quickly check the status of hosts and printers in the domain. Where an icon is shown as 'solid', it means the host or printer is active, where the icon is 'gray' the host or printer is not active, and where the icon has a red cross through it, the printer has an error. A host icon with a yellow question mark

shows a host whose state is unknown (for example, it cannot be reached due to a network communication problem). You can also confirm the status of a host or printer by pointing to it. After approximately two seconds, a bubble will appear showing its status.

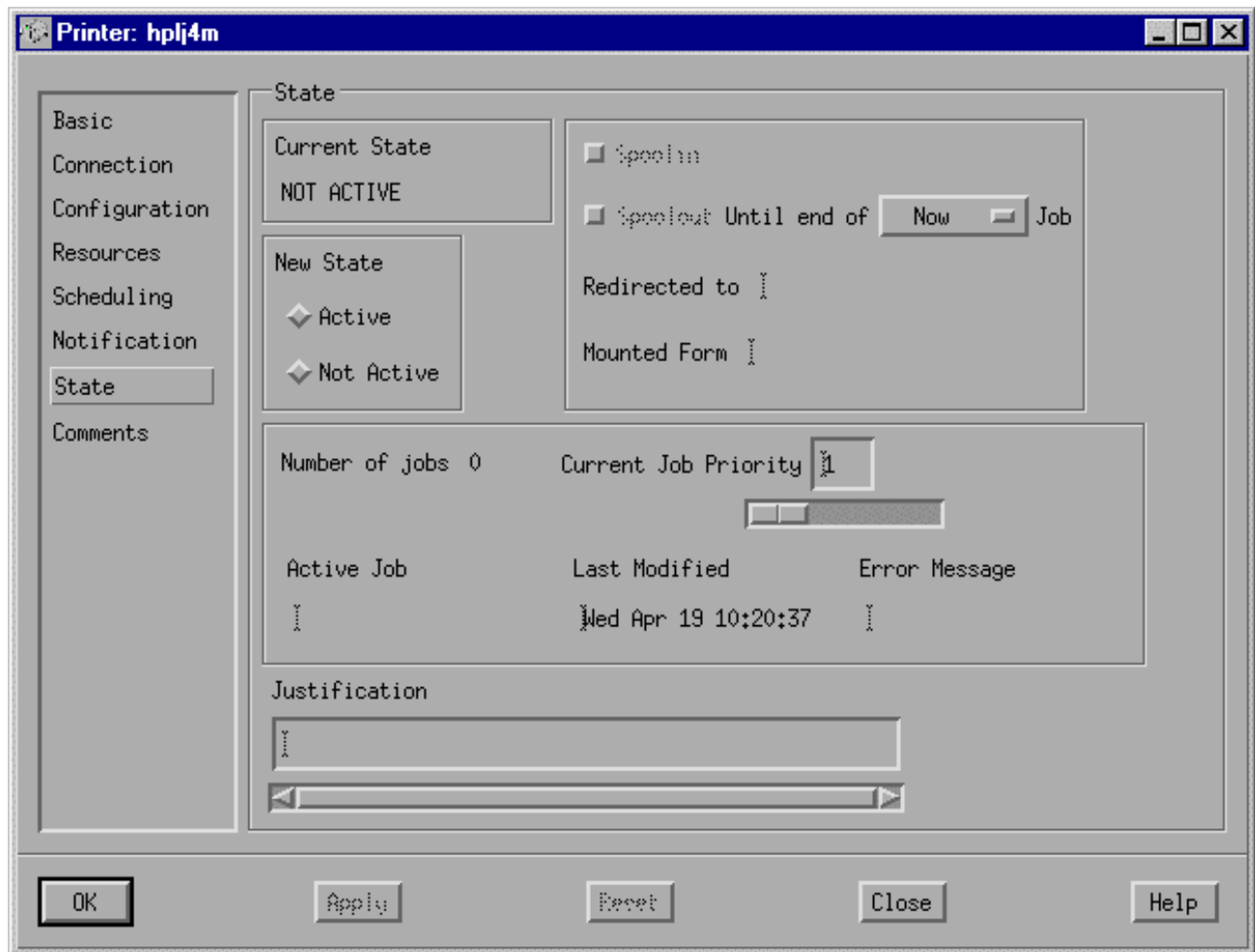
Where a printer is connected to a host by a solid line, this means that the printer's spoolin is On. Where a printer is next to a host, but not connected by a solid line, this means the printer's spoolin is Off.

A sheet of paper appearing from a printer means the printer's spoolout is On. Where there is no sheet of paper, the printer's spoolout is Off.

If you double click on a host the Host Properties window opens showing the status of the host in more detail (see below). You can also use this window to modify the host's properties. This is explained in [Chapter "Hosts"](#).



Similarly, if you double click on a printer the Printer Properties window opens showing the status of the printer in more detail (see below). You can also use this window to modify the printer's properties. This is explained in [Chapter "Printers"](#).



2.3 Toolbar

The toolbar is shown below.

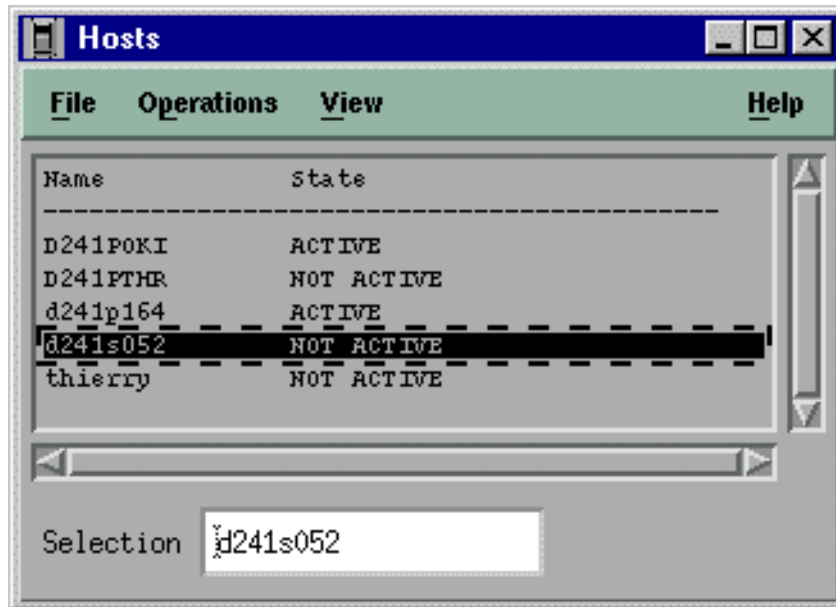


From left to right the icons are:

- Host
- Printer
- Printer group
- Job
- Job template
- Form
- Font

From the toolbar you can view the properties of existing objects of the types listed above. You can also add new hosts, printers, printer groups, jobs and job templates (public or specific to Mercator) and modify their properties.

When you double click on the hosts icon, the Hosts list window opens, showing a list of the hosts.



The same applies when you double click on the other icons - the list window for that object will open, showing all the printers, jobs, forms, etc. You can then view the properties of any object in the list. You can also modify the properties of any existing host, printer, printer group, job or job template and add a new host, printer, printer group, job or job template.

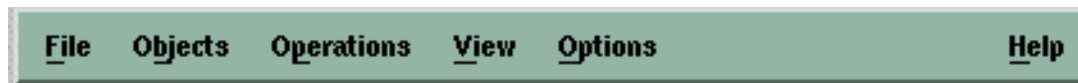
You can choose to display or hide the toolbar from the *View* menu of the main window.

2.4 Status Bar

The status bar, which is at the bottom of the window, displays informative messages about the current status. You can choose to display or hide the status bar from the *View* menu of the main window.

2.5 Menu bar

The menu bar is shown below. The items in each menu are explained briefly in the following paragraphs.



2.5.1 File

This menu allows you to read the "history", i.e. a list of the executed actions, or to exit the application.

2.5.2 Objects

This menu allows you to open the following windows:

- Hosts list window
- Printers list window
- Printer Groups list window
- Jobs list window
- Job Templates list window
- Forms list window
- Fonts list window

Each list will show the hosts, printers etc. These lists can also be opened by double clicking on the appropriate icon in the toolbar.

2.5.3 Operations

This menu is context sensitive. If you have selected the host, printer, printer group, job or job template icon in the toolbar, this menu contains only the item 'New', allowing you to create a new object.

If you have selected a specific host or printer in the Mercator map, then there are other operations available. These are described in the online help. When you select a host or printer in the map, there is a shortcut to the Operations menu: point to the host/printer and click the right mouse button. The Operations menu will pop-up at the place where you clicked.

2.5.4 View

From this menu, you can refresh the Mercator map, initiating a resynchronisation of the display with the actual properties of the objects in Xprint Management.

You can also select 'Split Horizontal' or 'Split Vertical', depending on how you want the hosts and printers in the Mercator map to be displayed.

Finally, you can choose to show or hide the toolbar and the status bar in the main window.

2.5.5 Options

This menu allows you to select your personal preferences about the refresh mode of the display and the saving of the parameters between successive Mercator sessions. Please refer to the on-line help for more detail.

2.5.6 Help

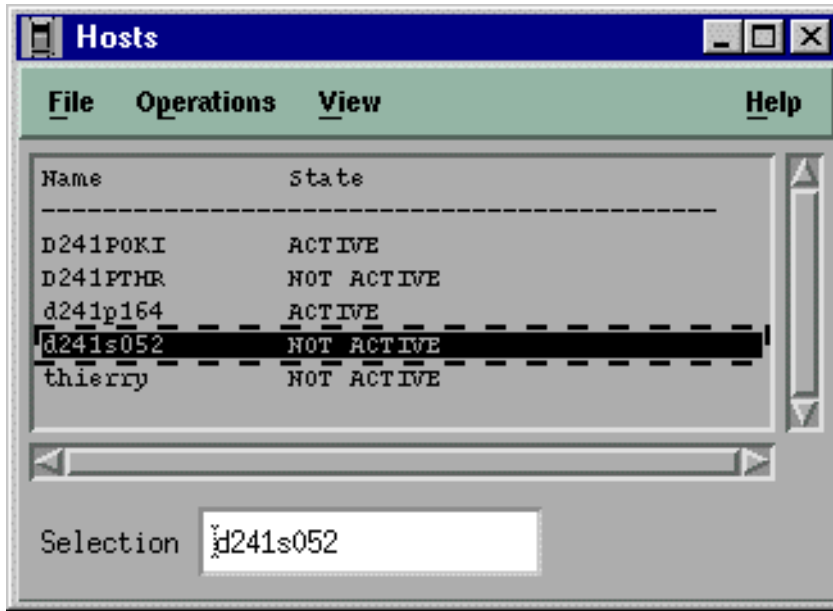
This menu gives you access to the full range of Mercator online help.

3 Hosts

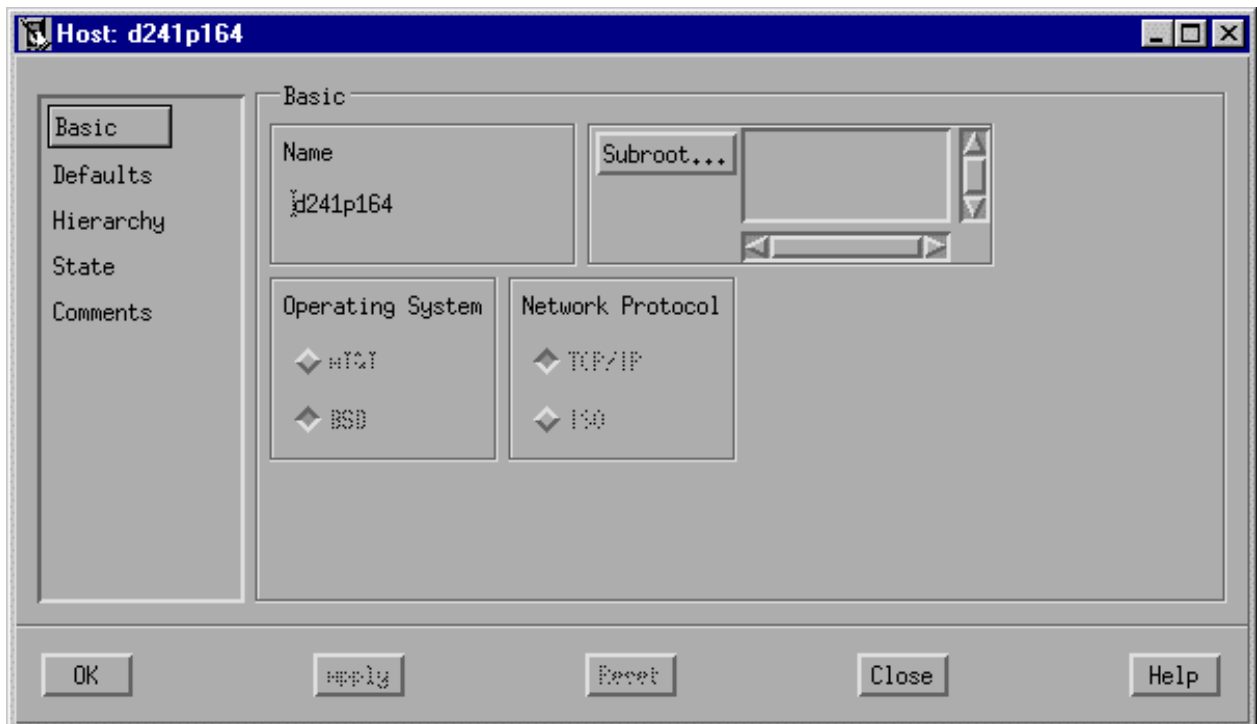
3.1 Viewing

You can view the properties of any host.

1. Open the *Hosts* list window (shown below) by selecting *Hosts* from the *Objects* menu. Alternatively, double click on the *Hosts* icon in the toolbar.



2. Select a host from the list, and then select *Properties/Definition* from the *Operations* menu. The *Host Properties: Basic* window opens (see below).



- The other host properties are listed at the left of the window. To view another set of properties, simply click on its name.



You can also open the *Host Properties* window by double clicking on a host in the Mercator map. In this case, the *Host Properties: State* window will open. To view the other host properties, click on the appropriate name at the left of the window.

3.2 Modifying

Some host properties are 'read only', but most can be modified. To modify a host property, simply enter (or select) a new value. If you make a mistake, click on Cancel. When you are happy with the new properties, click on *Apply* or *OK*.

The *Apply* button will apply the modifications and return the *Host Properties* window to the display mode. The *OK* button will apply the modifications and then close the window. If a new property is invalid, a message will appear in an error message box.

3.3 Creating a new host

There are two ways to create a new host: you can modify the properties of an existing host and save them under a new name, or you can start from the Xprint Management defaults.

3.3.1 Starting from the defaults

- Click on the Host icon in the toolbar and then select *New* from the *Operations* menu. The *Host Properties: Basic* window opens containing the Xprint Management default values. The other sets of properties (Defaults, Hierarchy, State and Comments) will also contain the Xprint Management defaults.
- Modify the properties to suit your requirements.
- Enter a new name in the Name field of the *Host Properties: Basic* window, then click on *Apply*. If any of the properties are invalid, a message will appear in an error message box.
- When the properties of the new host are correct, click on *OK* to close the window. An icon with the new host's name will then appear in the Mercator map.

3.3.2 Modifying an existing host

1. Open the Host Properties window for the host you wish to use as a template. Either:
 - Right click on the host in the Mercator map and select the *Copy as* operation; or
 - Double click on the *Hosts* icon in the toolbar and then choose a host from the list and select the *Copy as* operation; or
 - Select *Hosts* from the *Objects* menu and then select a host from the list.
2. Modify the properties to suit your requirements.
3. Enter a new name in the Name field of the *Host Properties: Basic* window, then click on *Apply*. If any of the properties are invalid, a message will appear in an error box.
4. When the properties of the new host are correct, click on *OK* to close the window. An icon with the new host's name will then appear in the Mercator map.

3.4 Deleting a host

1. Open the *Hosts* list window, and select the host you want to delete.
2. Select *Delete* from the *Operations* menu. You will be asked to confirm this operation.
3. Click on *Yes* to confirm the deletion. The host you have selected will be deleted and its icon will be removed from the Mercator map.

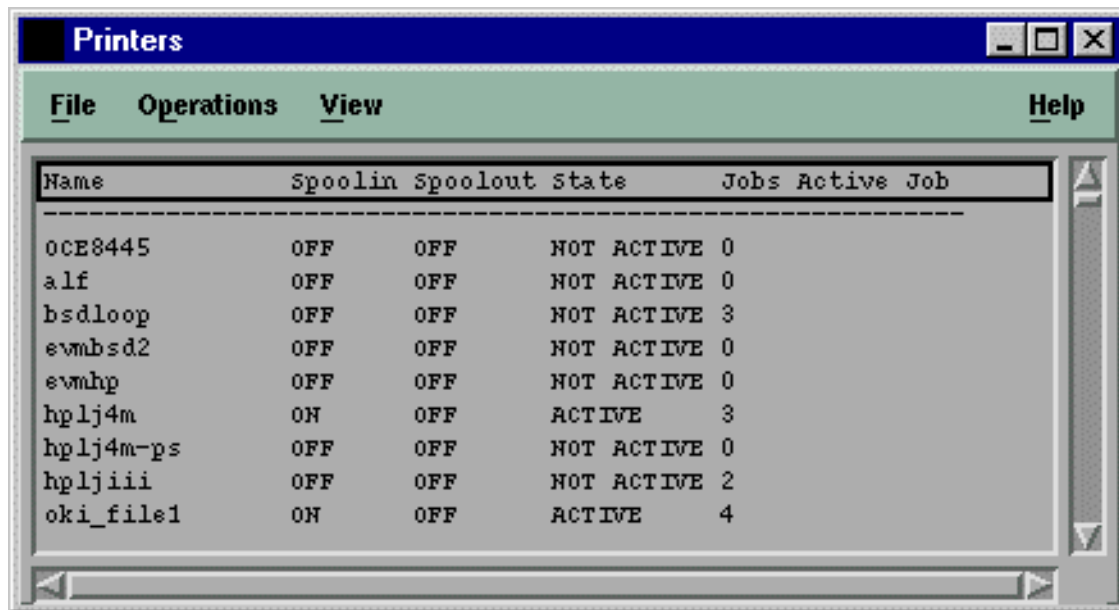
4 Printers

4.1 Viewing

The procedures for administering printers are very similar to the procedures for administering hosts, which were described in the previous chapter.

You can view the properties of any printer.

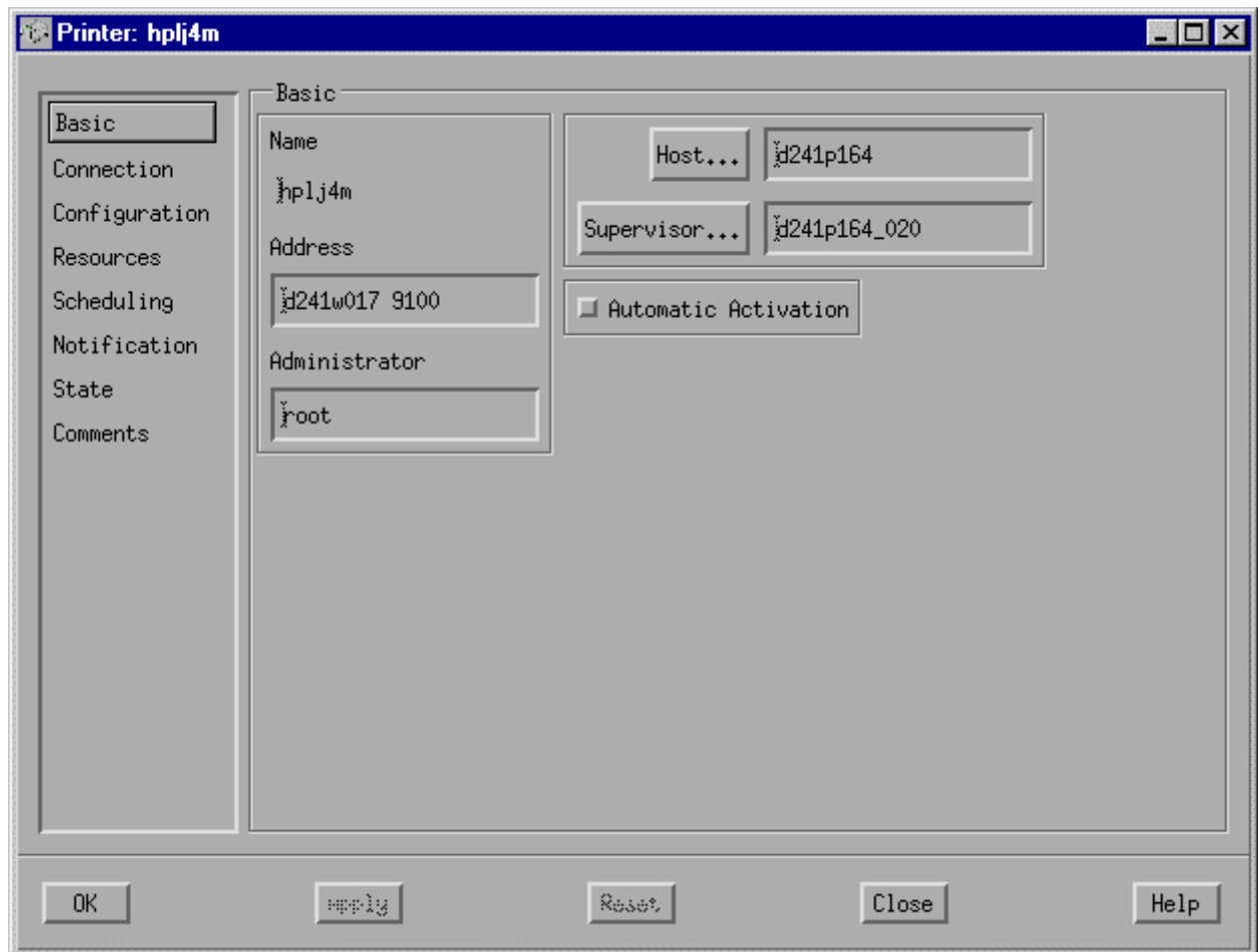
1. Open the *Printers* list window (shown below) by selecting *Printers* from the *Objects* menu. Alternatively, double click on the *Printers* icon in the toolbar.



Name	Spoolin	Spoolout	State	Jobs	Active	Job
oce8445	OFF	OFF	NOT ACTIVE	0		
alf	OFF	OFF	NOT ACTIVE	0		
bsdloop	OFF	OFF	NOT ACTIVE	3		
evmbsd2	OFF	OFF	NOT ACTIVE	0		
evmhp	OFF	OFF	NOT ACTIVE	0		
hplj4m	ON	OFF	ACTIVE	3		
hplj4m-ps	OFF	OFF	NOT ACTIVE	0		
hpljiii	OFF	OFF	NOT ACTIVE	2		
oki_file1	ON	OFF	ACTIVE	4		

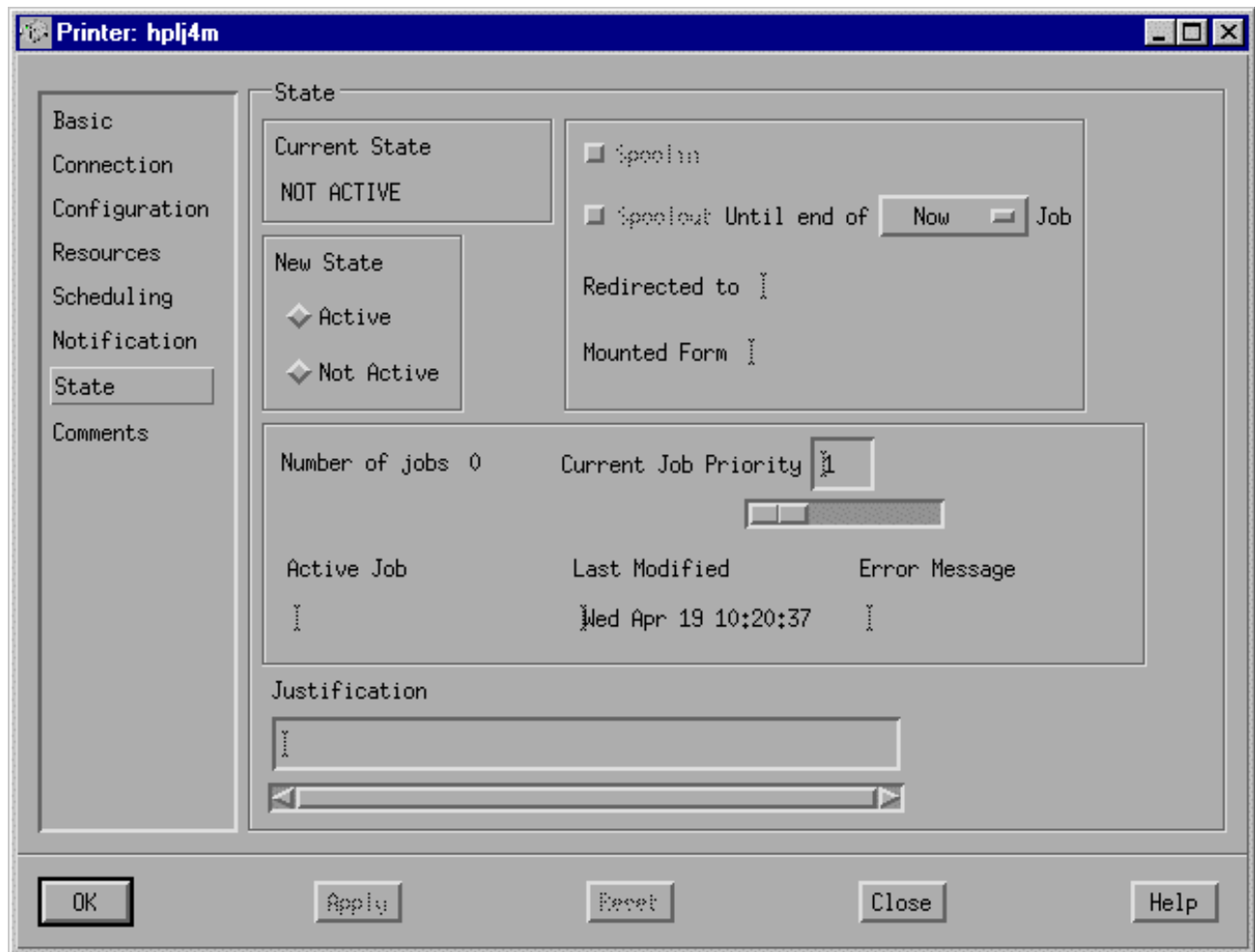
If you only want to see some of the printers, select *Filtered By...* from the *View* menu and select the appropriate criteria. For example, you may only want to see printers that are in an error state. To again see all the printers that are available in the list, select *All* from the *View* menu.

1. Select a printer from the list, and then select *Properties/both* from the *Operations* menu. The *Printer Properties: Basic* window opens (see below).



2. The other printer properties are listed at the left of the window. To view another set of properties, simply click on its name.

You can also open the *Printer Properties* window by double clicking on a printer in the Mercator map. In this case, the *Printer Properties: State* window (shown below) will open. To view the other printer properties, click on the appropriate name at the left of the window.



4.2 Modifying

Some printer properties are 'read only', but most can be modified. To modify a printer property, simply enter (or select) a new value. If you make a mistake, click on *Cancel*. When you are happy with the new properties, click on *Apply* or *OK*.

The *Apply* button will apply the modifications and return the *Printer Properties* window to the display mode. The *OK* button will apply the modifications and then close the window. If a new property is invalid, a message will appear in an error box.

4.3 Creating a new printer

There are two ways to create a new printer: you can modify the properties of an existing printer and save them under a new name, or you can start from the Xprint Management defaults.

4.3.1 Starting from the defaults

1. Click on the *Printer* icon in the toolbar, then select *New* from the *Operations* menu. The *Printer Properties: Basic* window opens containing the Xprint Management default values. The other sets of properties (Connection, Configuration, Resources, Notification, Scheduling, State and Comments) will also contain the Xprint Management defaults.
2. Modify the properties to suit your requirements.
3. Enter a new name in the Name field of the *Printer Properties: Basic* window, then click on *Apply*. If any of the properties are invalid, a message will appear in an error box.

4. When the properties of the new printer are correct, click on *OK* to close the window. An icon with the new printer's name will then appear in the Mercator map.

4.3.2 Modifying an existing printer

1. Open the *Printer Properties* window for the printer you wish to use as a template. Either:
 - Right click on the printer in the Mercator map and select the *Copy as* operation; or
 - Double click on the *Printers* icon in the toolbar and then choose a printer from the list and select the *Copy as* operation; or
 - Select *Printers* from the *Objects* menu and then select a printer from the list.
2. Modify the properties to suit your requirements.
3. Enter a new name in the *Name* field of the *Printer Properties: Basic* window, then click on *Apply*. If any of the properties are invalid, a message will appear in an error box.
4. When the properties of the new printer are correct, click on *OK* to close the window. An icon with the new printer's name will then appear in the Mercator map.

4.4 Deleting a printer

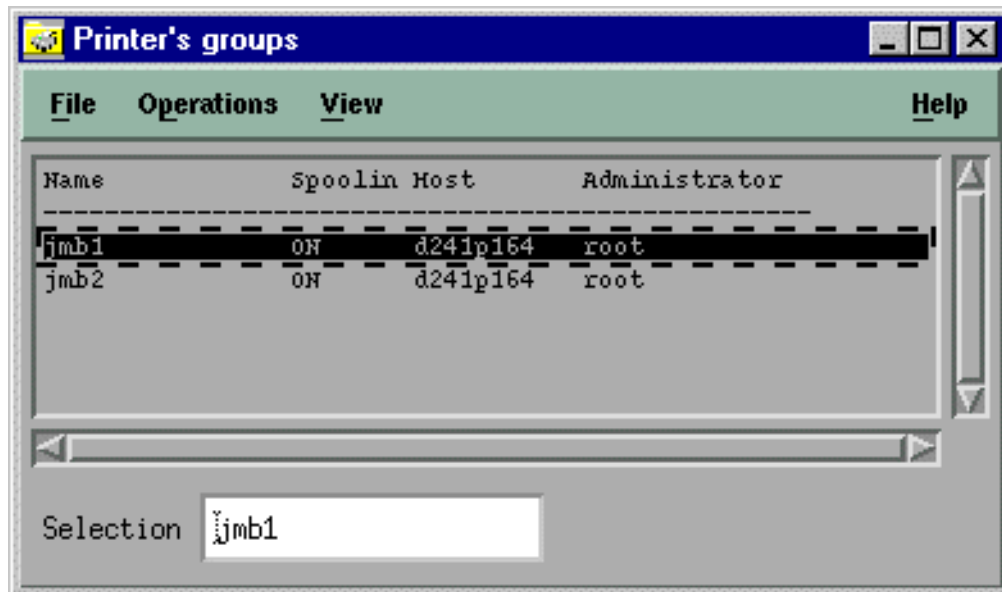
1. Open the *Printers* list window, and select the printer you want to delete. You can select more than one printer by using SHIFT-click or CONTROL-click.
2. Select *Delete* from the *Operations* menu. You will be asked to confirm this operation.
3. Click on *Yes* to confirm the deletion. The printer(s) you have selected will be deleted and their icons will be removed from the Mercator map.

5 Printer Groups

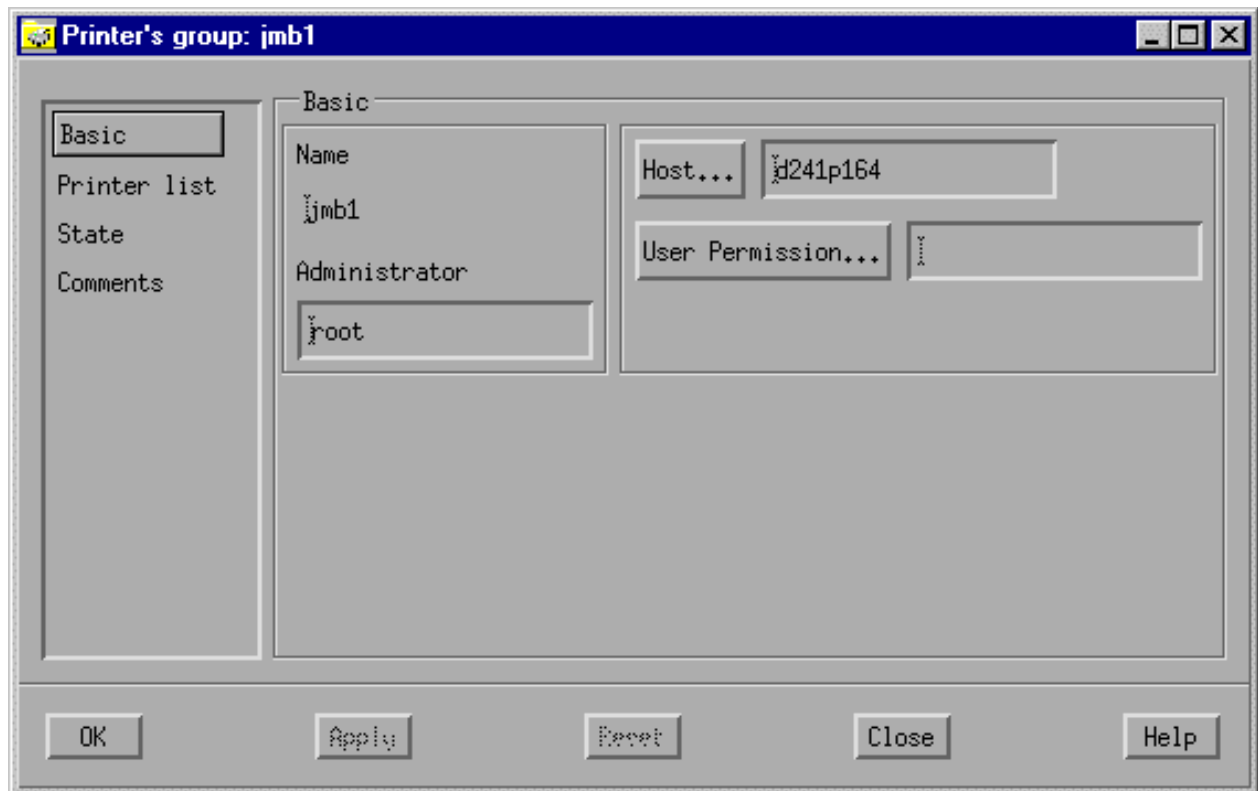
5.1 Viewing

You can view the properties of any printer group.

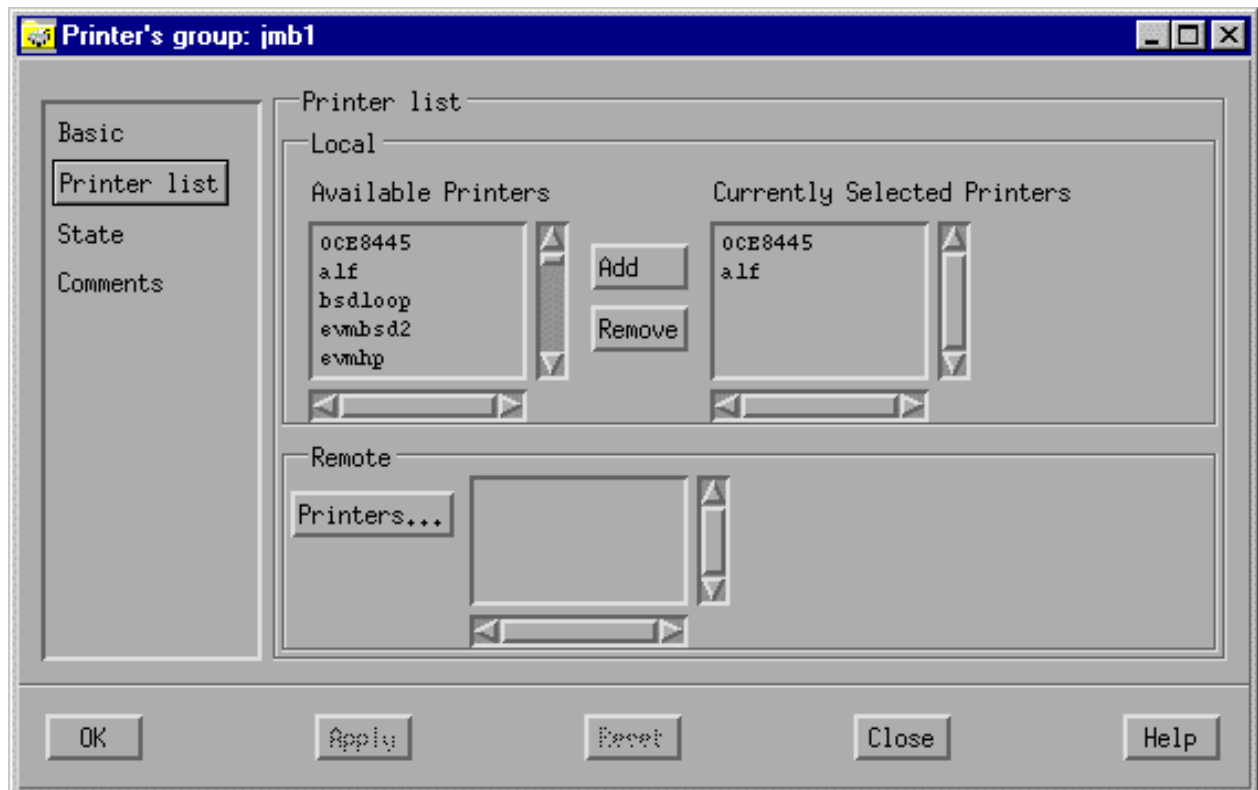
1. Open the *Printer Groups* list window (shown below) by selecting *Printer Groups* from the *Objects* menu. Alternatively, double click on the *Printer Groups* icon in the toolbar.



2. Select a printer group from the list, and then select *Properties/Definition* from the *Operations* menu. The *Printer Group Properties: Basic* window opens (see below).



3. The other *printer group properties* are listed at the left of the window. To view another set of properties, simply click on its name.



5.2 Modifying

Some printer group properties are 'read only', but most can be modified. To modify a printer group property, simply enter (or select) a new value. If you make a mistake, click on Cancel. When you are happy with the new properties, click on *Apply* or *OK*.

The *Apply* button will apply the modifications and return the *Printer Group Properties* window to the display mode. The *OK* button will apply the modifications and then close the window. If a new property is invalid, a message box will appear.

5.3 Creating a new printer group

There are three ways to create a new printer group: you can modify the properties of an existing printer group and save them under a new name, you can start from a printer list, or you can start from the Xprint Management defaults.

5.3.1 Starting from the defaults

1. Click on the *Printer Group* icon in the toolbar, then select *New* from the *Operations* menu. The *Printer Group Properties: Basic* window opens containing the Xprint Management default values. The other sets of properties (Printer List, State and Comments) will also contain the Xprint Management defaults.
2. Modify the properties to suit your requirements.
3. Enter a new name in the Name field of the *Printer Group Properties: Basic* window, then click on *Apply*. If any of the properties are invalid, a message box will appear.
4. When the properties of the new printer group are correct, click on *OK* to close the window.

5.3.2 Starting from a printer list

1. Open the *Printers* list window by selecting *Printers* from the *Objects* menu. Alternatively, double click on the *Printers* icon in the toolbar.
2. Select the printers you wish to be members of the printer group. You can select more than one printer by using SHIFT-click or CONTROL-click.
3. Select *Create Printer Group* in the menu *Operations*. A printer group creation window appears, with the device list initialized to the printers you have selected.
4. Modify the printer group properties to suit your requirements.
5. Enter a name in the Name field of the *Printer Group Properties: Basic* window, then click on *Apply*. If any of the properties are invalid, a message box will appear.
6. When the properties of the new printer group are correct, click on *OK* to close the window.

5.3.3 Modifying an existing printer group

1. Open the *Printer Group Properties* window for the printer group you wish to use as a template. Either:
 - Double click on the *Printer Groups* icon in the toolbar, then choose a printer group from the list and select the *Copy as operation*; or
 - Select *Printer Groups* from the *Objects* menu and then choose a printer group from the list and select the *Copy as operation*.
2. Modify the properties to suit your requirements.
3. Enter a name in the Name field of the *Printer Group Properties: Basic* window, then click on *Apply*. If any of the properties are invalid, a message box will appear.
4. When the properties of the new printer group are correct, click on *OK* to close the window.

5.4 Deleting a printer group

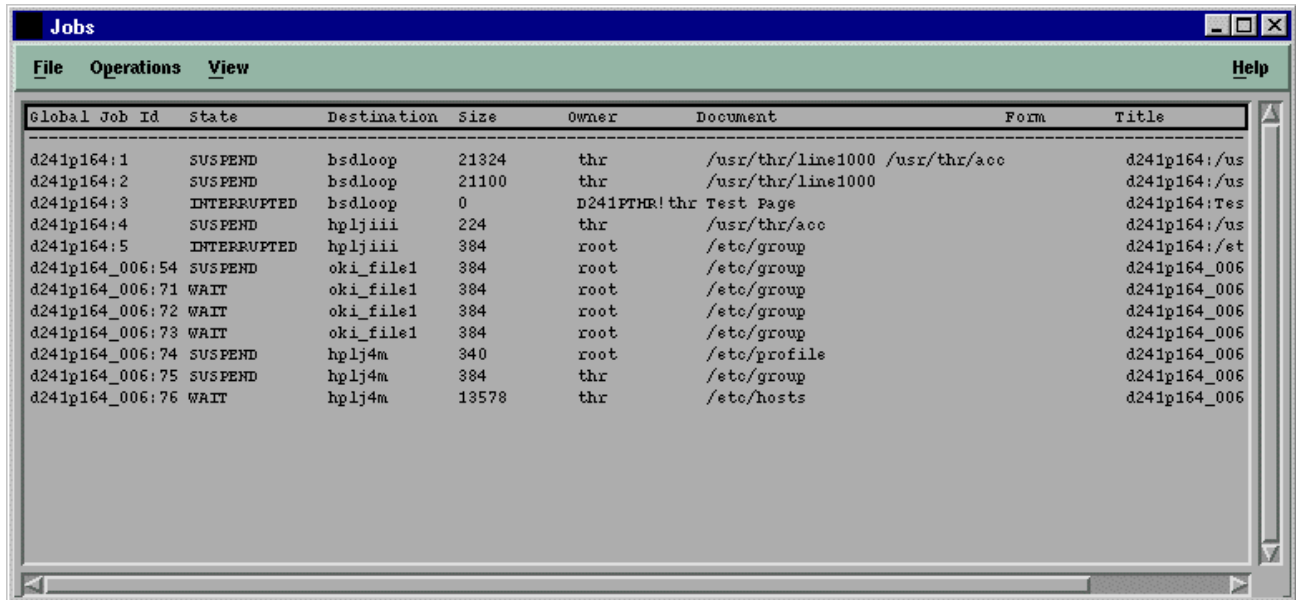
1. Open the *Printer Groups* list window, and select the printer group you want to delete.
2. Select *Delete* from the *Operations* menu. You will be asked to confirm this operation.

3. Click on *Yes* to confirm the deletion. The printer group you have selected will be deleted.

6 Jobs

6.1 Viewing the Job Queue

From Mercator, you can view the properties of any job, you can modify the properties of existing jobs, and you can add new jobs. An example of the *Job Queue* window is shown below.

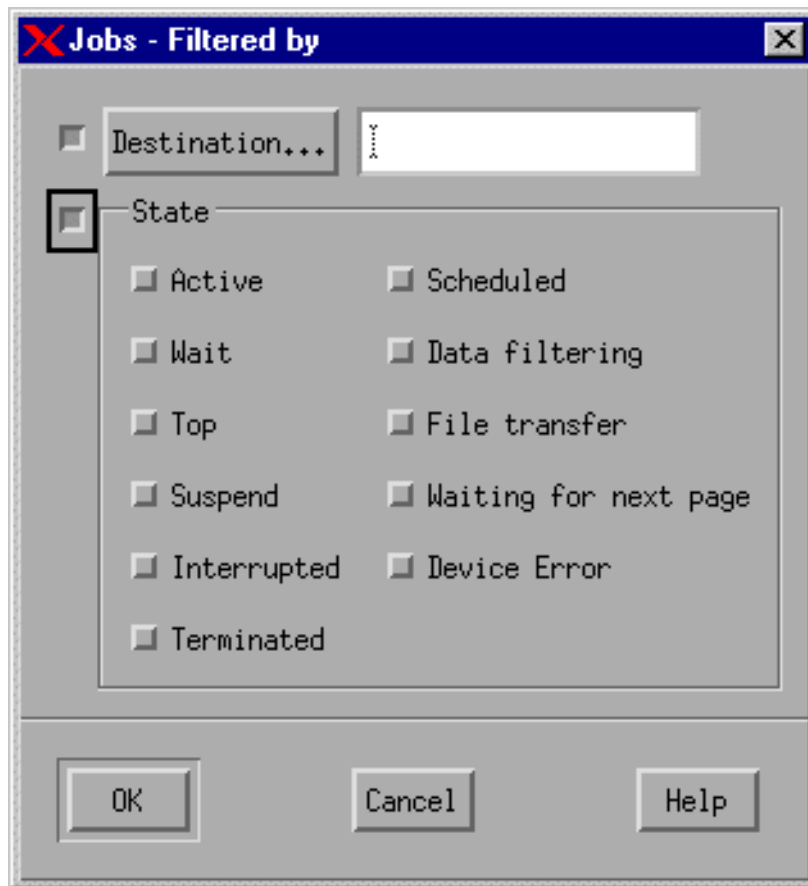


Global Job Id	State	Destination	Size	Owner	Document	Form	Title
d241p164:1	SUSPEND	bsdloop	21324	thr	/usr/thr/line1000 /usr/thr/acc		d241p164:/us
d241p164:2	SUSPEND	bsdloop	21100	thr	/usr/thr/line1000		d241p164:/us
d241p164:3	INTERRUPTED	bsdloop	0	D241PTHR!	thr Test Page		d241p164:tes
d241p164:4	SUSPEND	hpljiii	224	thr	/usr/thr/acc		d241p164:/us
d241p164:5	INTERRUPTED	hpljiii	384	root	/etc/group		d241p164:/et
d241p164_006:54	SUSPEND	oki_file1	384	root	/etc/group		d241p164_006
d241p164_006:71	WAIT	oki_file1	384	root	/etc/group		d241p164_006
d241p164_006:72	WAIT	oki_file1	384	root	/etc/group		d241p164_006
d241p164_006:73	WAIT	oki_file1	384	root	/etc/group		d241p164_006
d241p164_006:74	SUSPEND	hplj4m	340	root	/etc/profile		d241p164_006
d241p164_006:75	SUSPEND	hplj4m	384	thr	/etc/group		d241p164_006
d241p164_006:76	WAIT	hplj4m	13578	thr	/etc/hosts		d241p164_006

You can view the jobs for all the hosts shown in the Mercator map, for a given host, or for an individual printer:

- Double click on the *Jobs* icon in the toolbar, or select *Jobs* from the *Objects* menu. The *Job Queue* window will open showing all the jobs.
- Click on a specific host in the Mercator map, then select *Jobs* from the *Operations* menu. The *Job Queue* window will open showing all the jobs on the selected host. Or point to a specific host and press the right mouse button, then select *Jobs* from the pop-up menu.
- Click on a specific printer in the Mercator map and then select *Jobs* from the *Operations* menu. The *Job Queue* window will open showing all the jobs on the selected printer. Or, point to a specific printer and press the right mouse button, then select *Jobs* from the pop-up menu.

If you only want to see some of the jobs, select *Filtered By...* from the *View* menu and select the appropriate criteria (see below). For example, you may only want to see jobs that are in the Active state. To again see all the jobs that are available in the list, select *All* from the *View* menu.



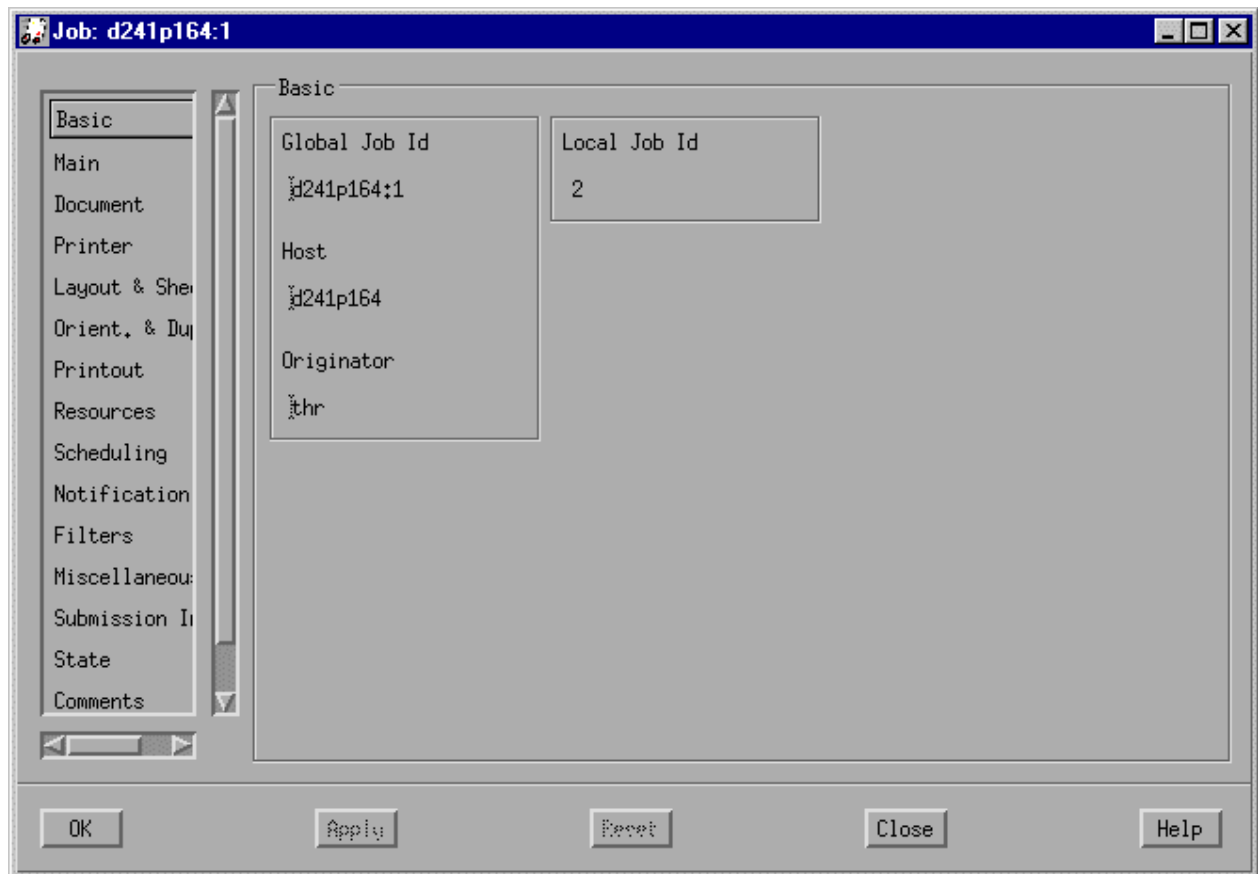
6.2 Changing the state of a job

To change the state of a job:

1. Select one or more jobs from the list. You can select a range by using SHIFT-click. You can add further individual jobs to the range, or deselect individual jobs from the range by using CONTROL-click.
2. Select the new state from the *Operations* menu.
3. If the new state cannot be achieved, a message box will be displayed.

6.3 Modifying a job

1. Open the *Jobs* list window as described above.
2. Select a job from the list, and then select *Properties/both* from the *Operations* menu. The *Job Properties: Basic* window opens (see below).



3. You can also double click on a job. This will open the *Job Properties: Basic* window.
4. Modify the properties to suit your requirements.
5. The other job properties are listed at the left of the window. To view another set of properties, simply click on its name.
6. When you are satisfied with the changes, click on *Apply* or *Cancel*. If any of the new properties are invalid, a message box will appear.

You can also open the *Job Properties* window by double clicking on a job in the list. In this case, the *Job Properties: State* window (shown below) will open. To view the other job properties, click on the appropriate name at the left of the window.

Some job properties are 'read only', but most can be modified. To modify a job property, simply enter (or select) a new value. If you make a mistake, click on *Close*. When you are happy with the new properties, click on *Apply* or *OK*.

The *Apply* button will apply the modifications and return the *Job Properties* window to the display mode. The *OK* button will apply the modifications and then close the window. If a new property is invalid, a message box will appear.

6.4 Deleting a job

1. Open the *Jobs* list window, and select the job you want to delete. You can select more than one job by using SHIFT-click or CONTROL-click.
2. Select *Delete* from the *Operations* menu. You will be asked to confirm this operation.
3. Click on *Yes* to confirm the deletion. The job(s) you have selected will be deleted.

6.5 Submitting a new job

1. Click on the *Jobs* icon in the toolbar and then select *New* from the *Operations* menu. The *Job: Main* window opens containing the Xprint Management default values for a new job. The other sets of properties (Document, Printer, Layout & Sheet, Orientation & Duplex, Printout, Resources, Scheduling, Notification, Filters, Miscellaneous, State, Comments and Forms & Fonts) will also contain the Xprint Management defaults.
2. Modify the properties to suit your requirements. ☐
Notice that in the Main set of properties you can specify a job template. A job template is a set of pre-defined parameters. Mercator supports the public job templates of Xprint Management, and Mercator-specific job templates. Refer to [Chapter "Job Templates"](#) for details of the creation and management of these objects.
3. If no document has been defined via a job template, press the *Documents* button and type one or more names of files to print. Alternatively, you can browse the directory structure to select the print files.
4. When the properties of the new job are correct, click on *OK* to close the window.

7 Job Templates

7.1 Types of job template

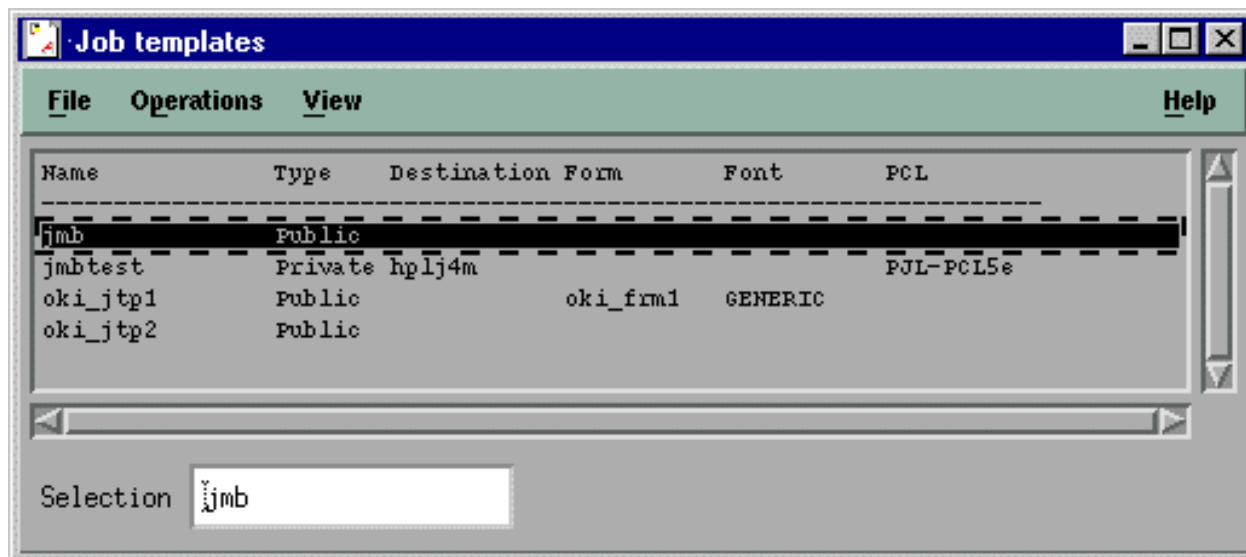
A job template is a set of default values for the parameters of a job. If you often submit jobs that have some properties in common it may be useful to define the common parameters in a job template and call this job template when you submit such a job instead of re-specifying all the options every time.

Mercator supports two types of job template: the Xprint Management public job templates, and Mercator-specific job templates. When you create a public template, it becomes accessible to all the Xprint Management users, but if you create a Mercator job template you will be the only person able to use it. Mercator-specific templates are different from Xprint Management private templates: Xprint Management private job templates cannot be used or managed with Mercator, nor can you use Mercator specific job templates in Xprint Management commands.

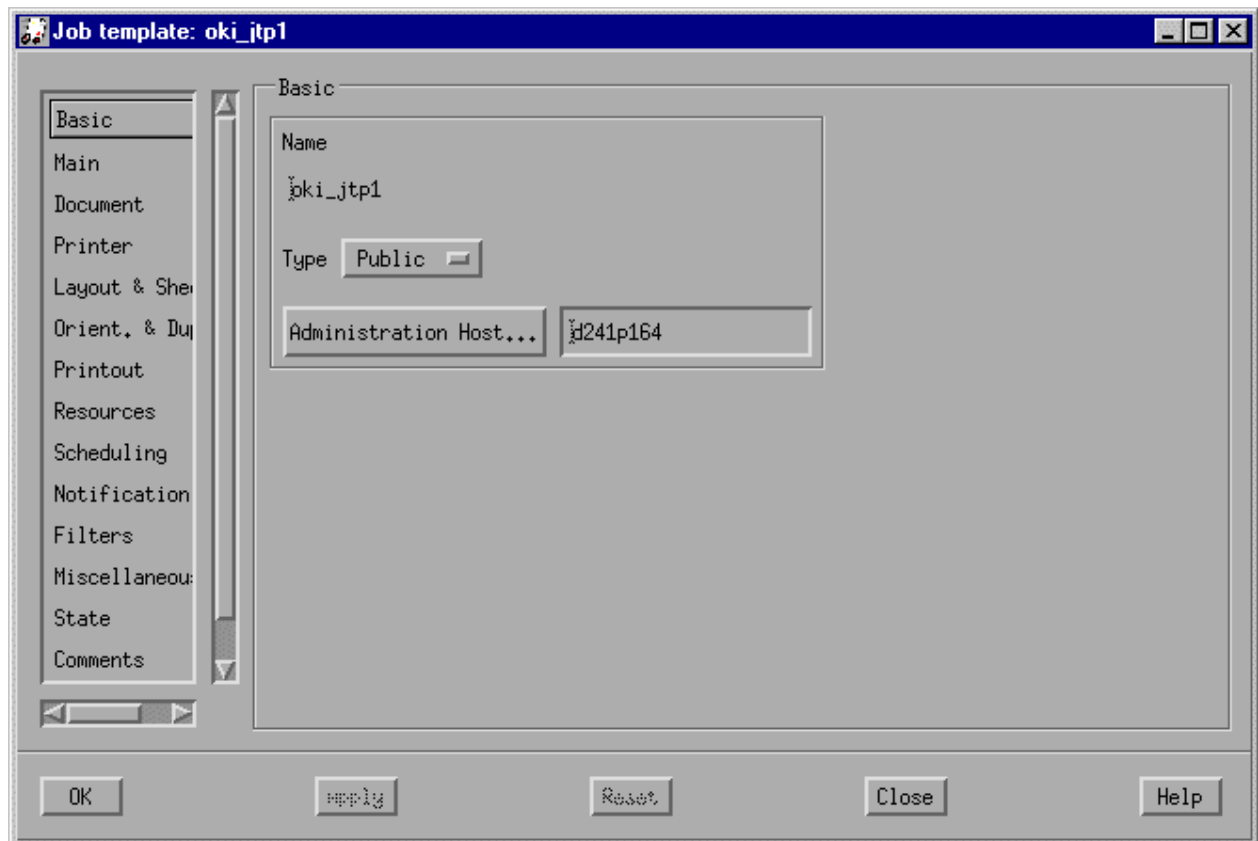
7.2 Viewing

You can view the properties of any job template in the domain.

1. Open the *Job Templates* list window (shown below) by selecting *Job Templates* from the *Objects* menu. Alternatively, double click on the *Job Templates* icon in the toolbar.



2. Select a job template from the list, and then select *Properties* from the *Operations* menu. The *Job Template Properties: Basic* window opens (see below).



3. The other *job template properties* are listed at the left of the window. To view another set of properties, simply click on its name.

7.3 Modifying

To modify a job template property, simply enter (or select) a new value. If you make a mistake, click on *Cancel*. When you are happy with the new properties, click on *Apply* or *OK*.

The *Apply* button will apply the modifications and return the *Job Template Properties* window to the display mode. The *OK* button will apply the modifications and then close the window. If a new property is invalid, a message box will appear.

7.4 Creating a new job template

There are two ways to create a new job template: you can modify the properties of an existing job template and copy them under a new name, or you can start from the Xprint Management defaults.

7.4.1 Starting from the defaults

1. Click on the *Job Template* icon in the toolbar and then select *New* from the *Operations* menu. The *Job Template Properties: Basic* window opens containing the Xprint Management default values. The other sets of properties (Main, Document, Printer, Layout & Sheet, Orientation & Duplex, Printout, Resources, Scheduling, Notification, Filters, Miscellaneous, State, Comments, Forms & Fonts) will also contain the Xprint Management defaults.
2. Modify the properties to suit your requirements.
3. Enter a name in the Name field of the *Job Template Properties: Basic* window and then click on *Apply*. If any of the properties are invalid, a message box will appear.
4. When the properties of the new job template are correct, click on *OK* to close the window.

7.4.2 Modifying an existing job template

1. Open the *Job Template Properties* window for the job template you wish to use as a template. Either:
 - Double click on the *Job Templates* icon in the toolbar, then choose a job template from the list and select the *Copy as* operation; or
 - Select *Job Templates* from the *Objects* menu and, choose a job template from the list and select the *Copy as* operation.
2. Modify the properties to suit your requirements.
3. Enter a name in the Name field of the *Job Template Properties: Basic* window and then click on *Apply*. If any of the properties are invalid, a message box will appear.
4. When the properties of the new job template are correct, click on *OK* to close the window.

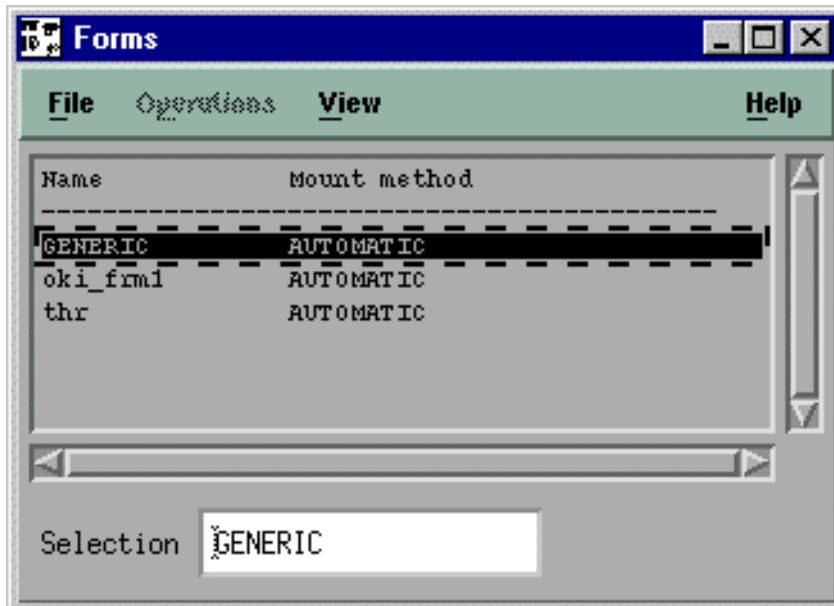
7.5 Deleting a job template

1. Open the *Job Templates List* window, and select the job template you want to delete.
2. Select *Delete* from the *Operations* menu. You will be asked to confirm this operation.
3. Click on *Yes* to confirm the deletion. The job template you have selected will be deleted.

8 Forms and fonts

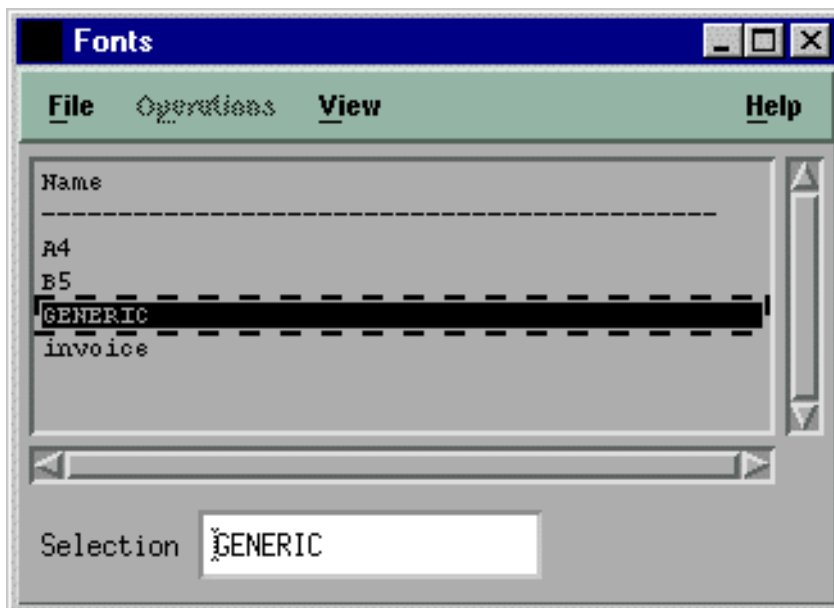
Forms

The *Forms* window is shown below. When you double click on the forms icon in the toolbar, this window opens, showing all the forms that are available in the domain. This window is for information only. You cannot perform any operations on forms in this version of Xprint Management.



Fonts

The *Fonts* window is shown below. It appears when you click on the fonts icon in the toolbar. The list box shows the fonts that are currently available in the domain. This window is for information only. You cannot perform any operations on fonts in this version of Xprint Management.



9 Special features under Windows NT

9.1 Approach

Mercator on Windows NT is as similar as possible to Mercator on UNIX. The navigation through the windows and menus is almost identical. With this approach, the platform used for the management of the Xprint Management domain is transparent, and there is no need for specific knowledge of Windows NT or UNIX.

9.2 Creation of Wprint printers

In order to print to Xprint Management from Windows NT desktop applications such as word processors or spreadsheets, you will have to create printers in the Windows NT system to mirror the Xprint Management devices in the NT Spooler. The product Wprint V3 links the NT Spooler printers with Xprint Management.

Before you can map an Xprint Management printer in the Windows NT spooler you must have Wprint installed and must have created a Wprint port on the NT system to which the NT printer can be attached. Creating the port and defining the NT printer are normally carried out from the Windows NT Control Panel, but for convenience you can alternatively create the Wprint port and access the NT Add Printer wizard from Mercator. This is the operation *Map to Wprint* from the printer *Operations* menu or a contextual printer menu. The corresponding menu item will only appear if Wprint has been installed on your computer.

To create a Wprint printer, select the target device in the Mercator main window and then select the menu item *Operations / Map to Wprint...* A dialog box will be opened, showing the available gateways for reaching the printer. By default this list will show you only the gateways local to your host, but you can click on the special radio button to display all the gateways. When you have selected a gateway, a message box will appear telling you the name of the newly created Wprint port. The Windows NT Add Printer wizard will then be started to allow you to define an NT printer on the Wprint port: proceed in the usual way for defining a printer on a Windows NT system. In the port selection window, just select the new Wprint port for the printer. When you are finished with the Add Printer wizard there will be a new printer configured on your Windows NT system and accessible to the applications. This printer corresponds to the Xprint Management printer you previously selected in Mercator.

Please refer to the Wprint and Windows NT manuals for more information.

10 Appendix: Syntax of the mercator command

Formats

mercator [**-dev** [*printer_selection*]] [**-dgr** [*group_list*]]□

mercator **-te** *template_name*□

mercator **-f** *file_name*□

mercator **-f-**

Description

The **mercator** command allows you to start Mercator, the graphical administration interface of Xprint Management. By default (when no options are specified), Mercator opens with a window showing all the hosts and printers of the Xprint Management domain. For convenience, or in order to reduce the display refresh time, you can also have Mercator start with its map reduced to a subset of the printers defined in the domain (and their related hosts).

There are several ways of specifying the printers that are to be displayed in the map.

With **-dev** you can specify a list of names and/or selection criteria for the Xprint Management device objects that are to be displayed. The syntax of **mercator -dev** [*printer_selection*] is similar to that of the command **xpshow -dev** [*selection*] described in the Xprint Management Reference Manual, including the possibility of specifying selection criteria using the flag **-scl**.

With **-dgr** you can specify a list of the names of Xprint Management device group objects whose members are to be shown on the Mercator map. This flag permits only the names of device groups, you cannot also specify selection criteria. The **-dgr** flag can be specified with or without **-dev**. When both flags are present, the devices displayed in the map constitute the union of the sets of devices identified by each flag.

With **-te** you can specify a reduced map template. You can define your own reduced map templates in a file **.Mertpl** in your login directory. The syntax of this file is described in the section Files.

With **-f** you can specify a file from which the program is to read the names of the printers that are to be displayed.

With **-f-** these printer names will be read from standard input.

When Mercator is started with these options you will see only the matching printers, the hosts where these printers are defined and the jobs submitted to these printers/printer groups, but you will still be able to add a new printer on any host of the Xprint Management domain. If you do so, the same Mercator session will then also enable you to manage this printer, its host and its jobs.

If you add a printer to a printer group during the Mercator session (for example with **xpmod -dgr**) this device will not be added to the map immediately; it will be shown in the next session.

Options

-dev [*printer_selection*]□

The syntax of this option is identical to the syntax of **xpshow -dev** [*selection*], including the possibility to specifying selection criteria with **-scl**. For more details please consult the description of **xpshow -dev** in the Xprint Management Reference Manual.

-dgr [*group_list*]□

Device group names can be specified in a *group_list*. The names must be separated by blanks.

-te *template_name*□

template_name identifies a reduced map template in the file **.Mertpl**.

-f *file_name*□

The file must contain device names separated by the newline character ('\n'), or alternatively by the character set up in the environment variable **XP_MLS**.

-f-

The list of device names is read from standard input, which enables it to be piped between commands.

Files

The file **.Mertpl** in your login directory is intended to house your reduced map templates.

Each line can be either a comment line or a template definition. □

Comment lines begin with a hash character (#). □

Template definition lines begin with an arbitrary name followed by [**-dev** *[printer_selection]*] [**-dgr** *[group_list]*], subject to the same conventions as the **mercator** command.

Examples

Xprint Management configuration and file configuration

Consider a configuration with the following Xprint Management objects:

- Hosts: □
HOST01, HOST02
- Printers: □
LANPJL01 (with LAN connection and PCL-PCL5e pcl) and PARPS01 (with PARALLEL connection type and PCL-PS pcl) on HOST01 □
LANPS02 (with LAN connection type and PCL-PS pcl) and PARPJL02 (with PARALLEL connection type and PCL-PCL5e pcl) on HOST02 □
The LANPJL01 and PARPJL02 printers are in state ACTIVE. □
The PARPS01 and LANPS02 printers are in state NOT_ACTIVE.
- Device groups: □
DGR1 with PARPS01 and PARPJL02 in its device list □
DGR2 with LANPJL01 and LANPS02 in its device list.

The contents of the file **.Mertpl** in your login directory are as follows:

```
# □
# .Mertpl sample file □
# □
DVCL1 -dev LANPJL01 LANPS02 □
DVCL2 -dev -scl "-ho HOST01 -st ACTIVE" □
DVCL3 -dev LAN* -scl "-pc PCL-PS" □
DVCL4 -dev LANPJL01 -dgr DGR1 □
DVCL5 -dgr DGR1 DGR2 □
# □
# .Mertpl sample file END □
#
```

The contents of the file **DGR1** are as follows:

PARPS01!LANPS02

Your environment contains the following variables:

```
XP_LS set to "!" □
XP_MLS set to "!" □
XP_FW set to 0.
```

The following sample commands illustrate how to manage the corresponding objects in Mercator:

```
mercator -dev LANPJL01 LANPS02
```

```
Hosts: HOST01, HOST02
```

```
Printers: LANPJL01, LANPS02
```

```
Jobs: LANPJL01 jobs, LANPS02 jobs
```

```
mercator -te DVCL1
```

Same effect as the previous line

```
mercator -dev -scl "-ho HOST1 -st ACTIVE"
```

```
Hosts: HOST01
```

Printer: LANPJL01
Jobs: LANPJL01 jobs
mercator -te DVCL2
Same effect as the previous line
mercator -dev LAN* -scl "-pc PJL-PS"
Hosts: HOST02
Printer: LANPS02
Jobs: LANPS02 jobs
mercator -te DVCL3
Same effect as the previous line
mercator -dev LANPJL01 -dgr DGR1
Hosts: HOST01, HOST02
Printers: LANPJL01, PARPS01,PARPJL02
Jobs: LANPJL01, PARPS01,PARPJL02, DGR1 jobs
mercator -te DVCL4
Same effect as the previous line
mercator -dgr DGR1 DGR2
Hosts: HOST01, HOST02
Printers: PARPS01,PARPJL02 LANPLJ01,LANPS02
Jobs: PARPS01,PARPJL02 LANPLJ01,LANPS02, DGR1, DGR2
mercator -te DVCL5
Same effect as the previous line
xpshow -dgr DGR1 -di"-id- -dl" | mercator -f-
Hosts: HOST01,HOST02
Printers: PARPS01,LANPS02
Jobs: PARPS01 jobs,LANPS02 jobs
mercator -f DGR1
Same effect as the previous line

Related publications

Please apply to your local office for ordering the manuals.

- [1] **Xprint Management**
 User and Administrator Guide
Target Group
 Users and administrators of Xprint Management .
Contents
 The manual describes the methods used for working with Xprint Management and for its administration and installation.

- [2] **Xprint Management**
 Application Programming Interface (API)
 User Guide
Target Group
 This manual is for programmers who want to make use of the Xprint Management functionality in their programs.
Contents
 The manual describes how you can use the functions of Xprint Management API in your own programs. Furthermore, it contains a reference of all Xprint Management API functions and the corresponding macros and functions.

- [3] **Wprint V3.0 (Windows NT)**
 User Guide
Target Group
 Windows NT administrators and Wprint users
Contents
 Description of the installation, configuration, and operation of Wprint V3, the Xprint Management client for Windows NT.