English

Prinergy
Configuring Xserve Tertiary Servers

731-00771A-EN Rev C

www.creo.com

Copyright

Copyright © 2006 Creo Inc. All rights reserved. The Creo wordmark, Creo logo, and the names of the Creo products and services referred to in this document are trademarks of Creo Inc.

Adobe, Acrobat, Adobe Illustrator, Distiller, Photoshop, PostScript, and PageMaker are trademarks of Adobe Systems Incorporated.

Apple, iMac, Power Macintosh, Mac OS, AppleShare, AppleTalk, TrueType, ImageWriter, and LaserWriter are registered trademarks of Apple Computer, Inc. Macintosh is a trademark of Apple Computer, Inc., registered in the U.S.A. and other countries.

PANTONE, Hexachrome, PANTONE Hexachrome, and PANTONE MATCHING SYSTEM are the property of Pantone, Inc.

PEARL, PEARLsetter, PEARLhdp, PEARLdry, and PEARLgold are registered trademarks of Presstek, Inc.

XEROX® is a trademark of XEROX CORPORATION.

Other brand or product names are the trademarks or registered trademarks of their respective owners.

No copying, distribution, publication, modification, or incorporation of this document, in whole or part, is permitted without the express written permission of Creo Inc. In the event of any permitted copying, distribution, publication, modification, or incorporation of this document, no changes in or deletion of author attribution, trademark legend, or copyright notice shall be made. No part of this document may be reproduced, stored in a retrieval system, published, used for commercial exploitation, or transmitted, in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the express written permission of Creo Inc. This document is distributed in Adobe Systems Incorporated's PDF (Portable Document Format). You may reproduce the document from the PDF file for internal use. Copies produced from the PDF file must be reproduced in whole.

Creo Inc.
3700 Gilmore Way
Burnaby, B.C., Canada
V5G 4M1
Tel: +1.604.451.2700
Fax:+1.604.437.9891

http://www.creo.com

731-00771A-EN Rev C

Revised June 2006

Contents

Configuring Xserve Tertiaries 1

Prerequisities 1
Limitations 1
Related Documents 1
Overview of Tasks 2
    Configuring the Xserve Overview 2
    Configuring the Prinergy Server Overview 2
Configuring the Xserve 3
    Ensure that TCP/IP Is Configured Properly 3
    Identify the Araxi Service Account 3
    Creating the ARAXI User Account 4
    Creating the Prinergy User Group 5
    Creating a Share Volume 5
        Create a Volume to Share 6
        Create an AFP Share 6
        Create an SMB Share 7
Configuring the Prinergy Server 9
    Adding the Xserve as a Job Server 9
    Adding the Xserve as an Input Volume 9
    Editing the hosts File 9
    Configuring AFP Mapping 10
Testing the System 11
Appendix: Manually Configuring AFP Mapping 12

Configuring Xserve Tertiaries

This document provides procedures for configuring an Apple® Xserve® server as a tertiary server for Prinergy® software. A Prinergy tertiary server is used to store jobs and input files; it does not run any Prinergy software components. For information on configuring a Windows®-based server as a Prinergy tertiary server, see the *Prinergy System Administration Guide*.

Prerequisites

Before configuring an Apple Xserve server as a Prinergy tertiary server, you must have installed:

- Prinergy servers (primary and secondary)
  - ❒ Prinergy 3.0.3 or later
- Mac Xserve server (tertiary)
  - ❒ Mac OS® X Server version 10.3.9 or later
  - ❒ Mac OS X Samba version 3.0.6 or later

Limitations

If at least one of your Macintosh client computers is using Mac OS 9, you must use the AppleTalk Filing Protocol (AFP) protocol when running Prinergy. The AFP has the following limitations:

- File names are restricted to 31 characters or fewer
- Prinergy Archiver is not supported

If all of your client computers are using either Mac OS X or Windows, you can use either AFP or the SMB protocol when running Prinergy. If you are using the SMB protocol, the previous limitations are avoided.

Related Documents

- *Prinergy System Administration Guide*
- Prinergy Administrator online help

Overview of Tasks

This section provides an overview of tasks for configuring an Xserve server as a Prinergy tertiary server.

Configuring the Xserve Overview

1. Ensure that TCP/IP is configured properly. See page 3.
2. Identify the Araxi service account for Prinergy. See page 3.
3. Create an Araxi account on the Xserve and add the Araxi account to the local administrator group. See page 4.
4. Create the user group. See page 5.
5. Create a shared volume. See page 6.

Configuring the Prinergy Server Overview

1. Add the Xserve as a tertiary in Prinergy Administrator. This adds the new tertiary server to the server node list. See page 10.
2. Add the Xserve to the input volume list in Prinergy Administrator if you want to use Xserve as an input volume as well. See page 10.
3. Edit the **hosts** file if not using DNS. See page 10.
4. Configure AFP Mapping if using AFP file sharing protocol for Prinergy. See page 11.

Configuring the Xserve

The section describes how to configure Xserve server settings.

Ensure that TCP/IP Is Configured Properly

Ensure that TCP/IP is configured properly with a static IP address and proper DNS setup.

1. On the Xserve, click **Applications** > **System Preferences** > **Network**.
2. Verify that the following settings are correct and, if necessary, contact the system administrator to make the required changes.
   - IP Address (use a static IP address)
   - Subnet mask
   - Default gateway (optional)
   - Preferred DNS (optional)
   - Alternate DNS (optional)

Note: If the network is not using DNS, the computer host name and the IP address must be in the **hosts** file on all servers.

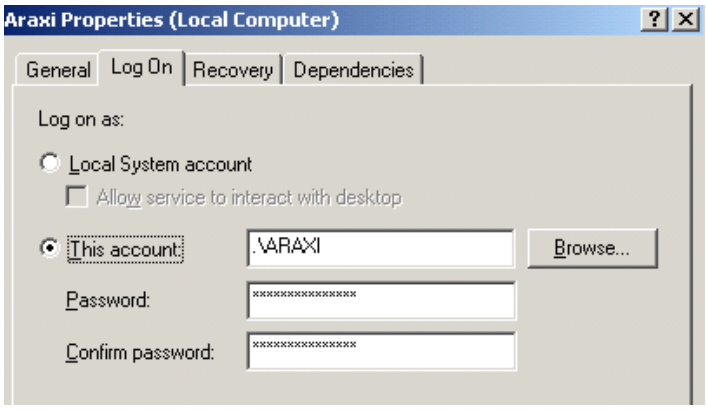
Identify the Araxi Service Account

You must enable the tertiary server to be accessed by the Araxi service user account. Identify the name of the account used by Araxi service.

Note: If your Xserve tertiary server is in a domain, you must use a domain account for the Araxi service. For more information about creating the Araxi service account in a domain, see the *Prinergy System Administration Guide*.

To identify the user account used by Araxi service:

1. In the Prinergy system, click Windows **Start** > **Settings** > **Control Panel** > **Administrative Tools** > **Services**.
2. In the right pane of the **Services** dialog box, select **Araxi** and right-click to select **Properties**.
3. In the **Araxi Properties** dialog box, click the **Log on** tab.



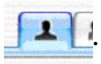
4. Make note of the user name in the **This account** box. For example, in the figure in step 3, the user name is **ARAXI**. You must also know the password for this account.

Creating the ARAXI User Account

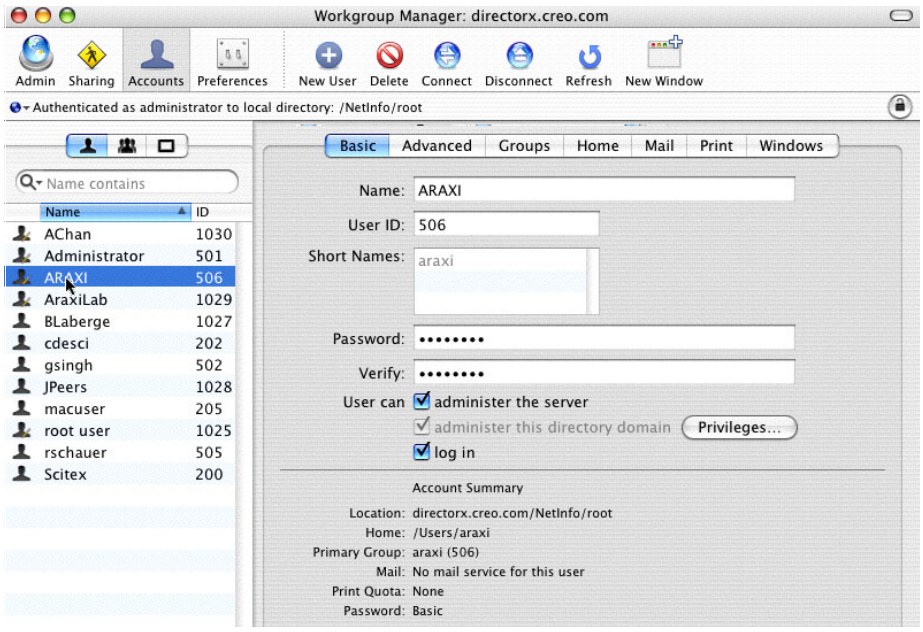
Create an ARAXI user account on the Xserve tertiary server to enable Prinergy server components to access all necessary resources on the tertiary server.

To create the ARAXI user account:

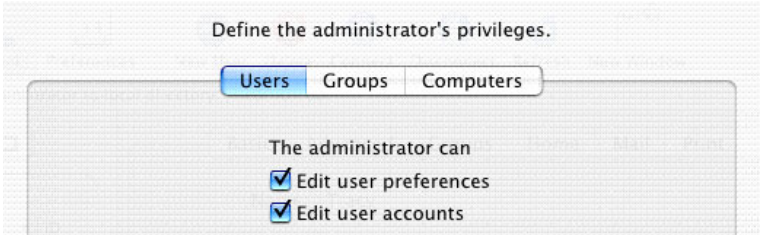
1. From Mac OS X Server 10.3.9 or later, start the **Workgroup Manager** software by clicking **Application** > **Server** > **Workgroup Manager**.
2. In the **Workgroup Manager Connect** dialog box, in the **Address** box, type the server name or the server IP address, and log on as a user with administrator privileges.
3. Click **Accounts** 

and then click the **User** tab .
4. Click **New User** 

and then in the **Basic** tab, in the **Name** box, type **ARAXI** (the same user account name that is used to start the Araxi service).
5. In the **Password** box, type the password (the same password that is used to start the Araxi service).



6. Select the **User can administer the server** check box.
7. In the **Define the administrator's privileges** dialog box, select the **Edit user preferences** and **Edit user accounts** check boxes.



8. Click **User can log in**, and click **Save**.

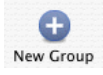
Creating the Prinergy User Group

Add the Araxi user account to the local administrator group. This ensures that the Prinergy servers can access the Xserve.

You can create a group called **Prinergy** and add all Prinergy user accounts including the ARAXI service account to this group. Or you can add ARAXI to one of the existing groups that you created for connecting to Prinergy system.

To create a group:

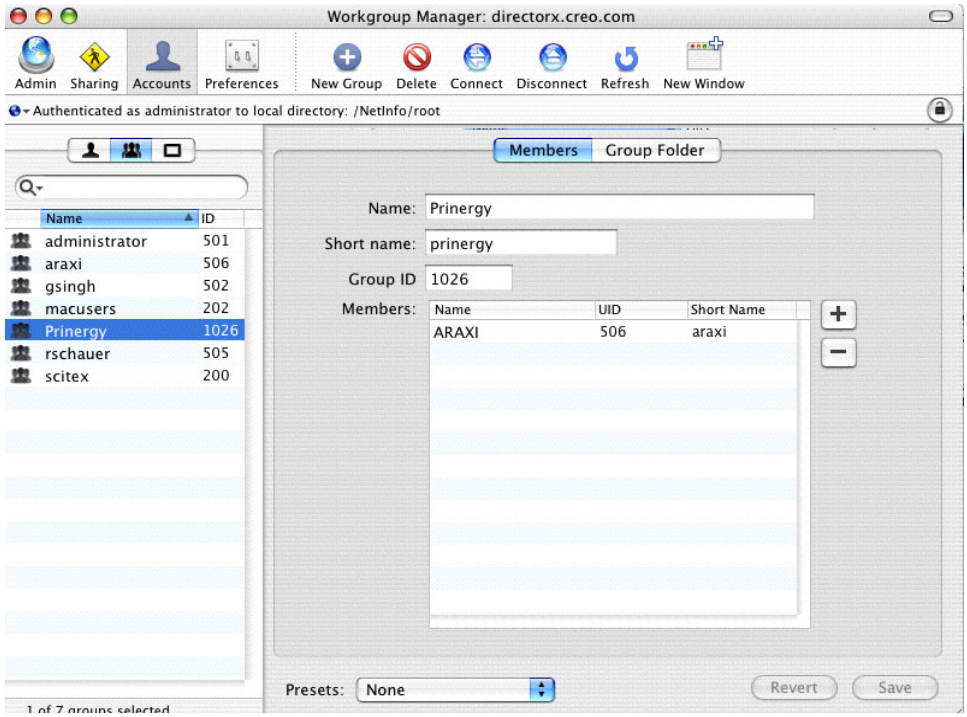
1. Click **Accounts** 

and then select the **Group** tab .
2. Click **New Group** 

to create a new group called Prinergy.
3. In the **Name** box, type **Prinergy**.

4. Beside the **Members** box, click the plus sign. In the list of user accounts, which appear on the left side of the groups, double-click **ARAXI** to add ARAXI as a member of the Prinergy group.

5. Click **Save**.



Creating a Shared Volume

You need to create a volume or select a volume that you want to share on the Xserve that is accessible by Prinergy. A volume is a portion of a storage device that is formatted to contain files. A volume can be an entire disk or only a part of a disk.

Configure Windows File Sharing for the selected folder. If using AFP (required for computers running Mac OS 9), you must create an AFP share name as well.

Important: The SMB share name must use the prefix, AraxiVolume. Share names are case sensitive.

Create a Volume to Share

1. On the Xserve, create a folder that you want to share and that is accessible by the primary, if you have not already done so. For example, the folder name in the figure that follows is **AraxiVolume_DirectorX**, where DirectorX is the server name.

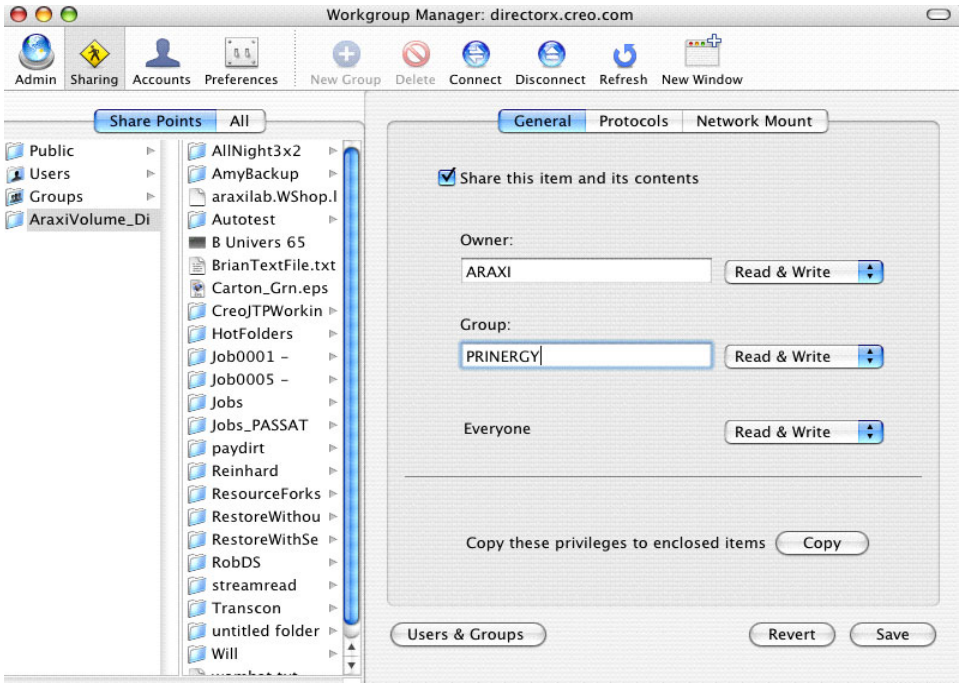
2. In **Workgroup Manager**, click **Sharing** .

3. Click the **All** tab, and select the folder to share with Prinergy.

4. Click the **General** tab, and select the **Share this item and its contents** check box.

5. In the **Owner** box, type **ARAXI**, and select **Read & Write** permissions.

6. In the **Group** box, type **PRINERGY**, and select **Read & Write** permissions.
7. In the **Everyone** box, select **Read & Write** permissions.
8. Click **Save.**



Create an AFP Share

If using AFP (required for computers running Mac OS 9), you must create an AFP share name. If using SMB protocol only, see *Create an SMB Share* on page 8.

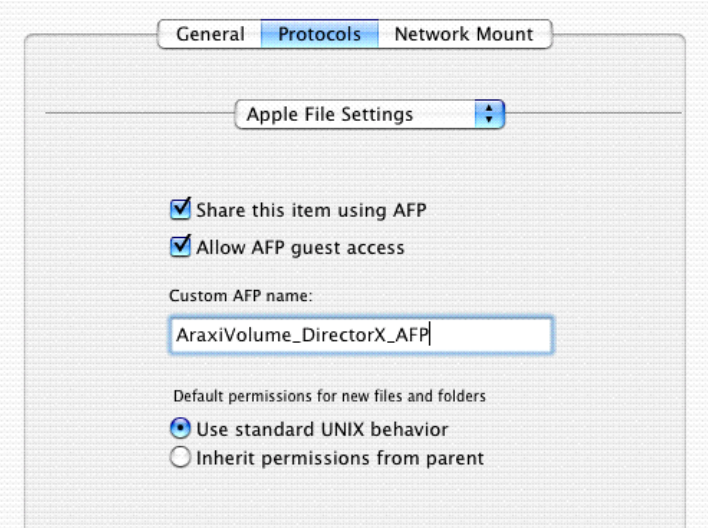
If using both AFP and SMB, you must create a share name for each protocol.

Important: Both share names must be created at the same directory level. Prinergy will create a **Jobs** folder within the shared folder, for example, **AraxiVolume_DirectorX\Jobs**.

(On a tertiary server running Windows® NT, the AFP share name is created on the **Jobs** folder and the SMB share name is created on the root of the drive.)

To create an AFP share for the folder to be accessible by Prinergy:

1. Click the **Protocols** tab.
2. In the list, select **Apple File Settings.**
3. Select the **Share this item using AFP** check box.
4. Select the **Allow AFP guest access** check box.
5. In the **Custom AFP name** box, type the share name for AFP. In the example that follows, the AFP share name is AraxiVolume_DirectorX_AFP, where DirectorX is the Xserve server name.
6. Select the **Use standard UNIX behavior** check box.
7. Click **Save.**

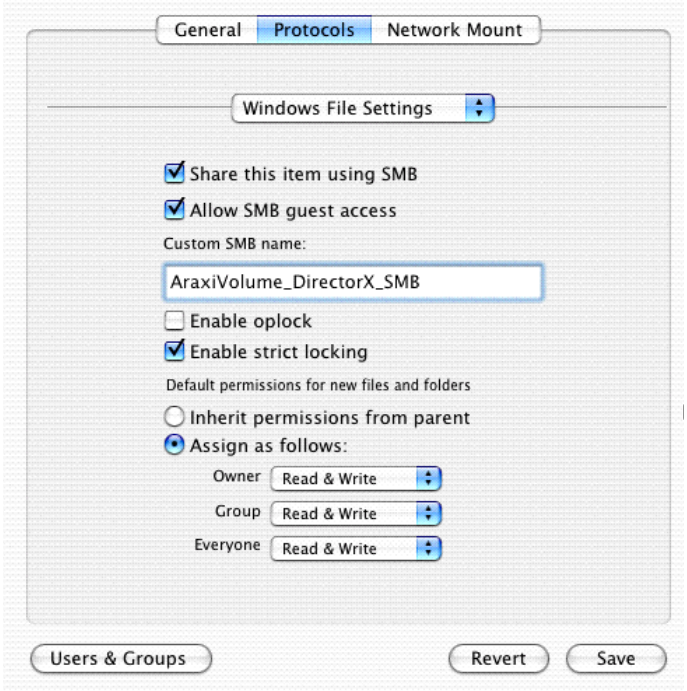


Create an SMB Share

To create an SMB share for the folder to be accessible by Prinergy:

1. Click the **Protocols** tab.
2. In the list, select **Windows File Settings**.
3. Select the **Share this item using SMB** check box.
4. Select the **Allow SMB guest access** check box.
5. In the **Custom SMB name** box, type the share name for SMB. In the example on page 8, the SMB share name is AraxiVolume_DirectorX_SMB, where DirectorX is the Xserve server name.

   Important: The share name must use the prefix: **AraxiVolume**.
6. Clear the **Enable oplock** check box.
7. Select the **Enable strict locking** check box.
8. In the **Assign as follows** area, in the **Owner**, **Group** and **Everyone** boxes, select **Read & Write**.
9. Click **Save**.


General
Protocols
Network Mount
Windows File Settings
Share this item using SMB
Allow SMB guest access
Custom SMB name:
AraxiVolume_DirectorX_SMB
Enable oplock
Enable strict locking
Default permissions for new files and folders
Inherit permissions from parent
Assign as follows:
Owner
Read & Write
Group
Read & Write
Everyone
Read & Write
Users & Groups
Revert
Save

Configuring the Prinergy Server

Once the Xserve folder has been configured with the appropriate sharing permissions on the user and group accounts, and can be accessed by the primary server, we can configure the Prinergy primary server to use the Xserve as a *job server* or *input volume*.

For detailed procedures on adding tertiary servers to Prinergy, see the *Configuring and Managing Prinergy* chapter of the *Prinergy System Administration Guide*.

Adding the Xserve as a Job Server

1. In **Prinergy Administrator**, click **Tools** > **Configure System**.
2. In the **Configuration Options** dialog box, click the **Servers** tab.
3. In the Tertiary Servers pane, click **Add Server** and type the Xserve server name. For example, DirectorX.
4. Click **Save**.

Adding the Xserve as an Input Volume

1. In **Prinergy Administrator**, click **Tools** > **Configure System**.
2. In the **Configuration Options** dialog box, click the **Input Volumes** tab.
3. Take one of the following actions:
   - Click **Browse** to locate the Xserve share volume that you want to add. Click **OK**.
   - Type the **UNC path** of the Xserve server that you want to add. Ensure that the correct server name appears in the **Add Input Volume** box. Click **Add Volume**.

Editing the hosts File

If you are not using a DNS server on your network, you must edit the **hosts** file to translate computer host names to TCP/IP addresses.

The **hosts** file is used to translate computer host names to TCP/IP addresses. On each server, check that the **hosts** file does not contain stale or conflicting entries. Stale entries are entries that have not been updated to reflect IP address changes. Conflicting entries are duplicate host names mapped to different IP addresses. If an IP address has changed, whether from a DHCP server or changed manually, there may be conflicting entries.

To edit the hosts file:

1. In Notepad, open the **D:\WINNT\SYSTEM32\DRIVERS\ETC\hosts** file.
2. Enter the host name and IP address of all the participating servers that will be working with Prinergy.

3. Update any stale entries and fix any conflicting entries. Make sure you do *not* remove the `127.0.0.1 localhost` entry. If it is missing, add it back in.

CAUTION: When saving the file, do not use the .txt file name extension.

No restart is necessary for these changes to take effect.

Configuring AFP Mapping

Because some Prinergy processing daemons require the AFP mapping information, configure AFP mapping whether you are using AFP or SMB.

The **AFP Mapping** tab displays a list of non-Windows servers that are connected to your Prinergy system. When you add a non-Windows server as an input file server or job home server and your Prinergy system includes Macintosh clients, you need to map a path to the shared volume so that it is accessible from Macintosh clients.

Note: You need to update the AFP mapping on all Prinergy servers, not just the primary server.

The **AFP Mapping** tab in Prinergy Administrator allows you to enter this mapping information. Entries on this tab are copied to the **otherhosts** file, located on the Prinergy server that stores the mapping information.

Note: You cannot add or remove rows from the **AFP Mapping** tab.

When you perform an operation in Workshop that requires a mounted volume, the system tries to mount the volume for you automatically. If AFP mapping is properly set up, the system will be able to mount the volume. If AFP mapping is not properly set up, then you must manually mount the volume on the Macintosh client.

See the Prinergy Administrator online help for details.

On the **AFP Mapping** tab:

Column	Definition
Server Name	Server name, for example, DirectorX
Share Name	Name of the volume (share) on the server, for example, AraxiVolume_DirectorX_SMB
AFP Zone	Name of the Macintosh zone that the server is in, for example, Prinergy Lab
AFP Server	Name of the server on the Macintosh computer, for example, DirectorX
AFP Volume	Name of the Macintosh volume, for example, AraxiVolume_DirectorX_AFP

For instructions about configuring AFP mapping manually, see the appendix on page 13 of this document.

Testing the System

After the system is configured, to test the share point configuration with user account and permissions, use Windows Explorer to browse to the share point. If you chose to only add the Araxi server user and you are not logged onto the Windows system as this user, you will be prompted for a user name and password. Type the Araxi service user name and password. Ensure that you can create a directory and file in the directory you added, and that you can delete the file and directory you just created. Also, be sure that all sub-directories of your share point are visible.

To ensure the system is running properly, run a test job:

1. Create a job on Xserve, add some input files, and refine them.
2. Check the resource forks of the files are created properly.
3. Try to exercise as much of the system as possible by refining, outputting proofs, and plating.
4. Try archiving, purging, and retrieving a job if Prinergy is configured as SMB protocol.

Appendix: Manually Configuring AFP Mapping

This is a reference to show you how to configure the AFP mapping manually by editing the **otherhosts** file.

Note: You must do this on all Prinergy servers.

The **otherhosts** file is located on the **AraxiHome%/etc** folder.

Add the Xserve tertiary server to the **%AraxiHome%\CreoAraxi\Etc\otherhosts** file on all the Prinergy servers.

The format of the **otherhosts** is:

```
[/etc/otherhosts]
   "YOUR_MAC_ZONE:MAC_SERVER_NAME"="NT_SERVER_NAME"
    [shares]
   NtHost="SERVER_NAME"

"YOUR_MAC_ARAXIVOLUME_SHARE"="YOUR_NT_ARAXIVOLUME_SHARE"
```

The MAC_SERVER_NAME is the Xserve server name as it appears to Macintosh workstations.

The NT_SERVER_NAME is the Xserve server name as it appears to Windows-based servers.

For example:

The Xserve server is called DirectorX and it is configured in the Mac Zone Prinergy Lab. Its Macintosh share name is AraxiVolume_DirectorX_AFP and its Samba share name is AraxiVolume_DirectorX_SMB.

```
[/etc/otherhosts]
 "Prinergy Lab:DirectorX"="DirectorX"

 [shares]
 NtHost="SERVER_NAME"

"YOUR_MAC_ARAXIVOLUME_SHARE"="YOUR_NT_ARAXIVOLUME_SHARE"
```

The MAC_SERVER_NAME is the UNIX® server name as it appears to Macintosh workstations.

The NT_SERVER_NAME is the UNIX server name as it appears to Windows 2000-based servers.

Example:

```
[/etc/otherhosts]
   "Prinergy Lab:DirectorX"="DirectorX"
    [shares]
   NtHost="DirectorX"
   "AraxiVolume_DirectorX_AFP"="Araxivolume_DirectorX_SMB
```