

Novell NetWare® 6

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SUPPORT PACK 1 README



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Contents

Contents	5
NetWare 6 Support Pack 1 Readme	7
1 Overview	9
2 Summary of Changes	11
3 Support Pack Installation	19
4 ConsoleOne 1.3	21
5 DNS/DHCP	23
6 iPrint/NDPS	25
7 NetWare FTP Server	27
8 NetWare Migration Wizard 6	29
9 NetWare Remote Manager	31
10 Novell Advanced Audit Service	33
11 Novell Client for Windows	37
12 Novell Cluster Services	39
13 Novell eDirectory 8.6.1 for NetWare	43
14 Novell GroupWise	45
15 Novell iFolder	47
16 Novell iManager 1.0 and iMonitor 1.5 for Novell eDirectory 8.6	49
17 Novell Licensing	51
18 Novell Modular Authentication Service (NMAS)	53
19 Novell Native File Access for Macintosh (AFP)	55
20 Novell Native File Access for UNIX	59
21 Novell Native File Access for Windows (CIFS)	61
22 Novell NetDevice NAS	63

Contents **5**

23	Novell NetStorage	65
24	Novell Storage Services	69
25	Novell TCP/IP	71
26	Scripting Products	73
27	Storage Management Services (SMS)	75
28	Time Management	77

6 NetWare 6 Support Pack 1 Readme

NetWare 6 Support Pack 1 Readme

This document describes new features and known issues for NetWare[®] 6 Support Pack 1. It supplements the Readme provided with the initial release of NetWare 6 and the NetWare 6 documentation.

NOTE: For information about additional issues discovered after the Support Pack release, see the [NetWare 6 Support Pack 1 Readme Addendum \(http://support.novell.com/cgi-bin/search/searchtid.cgi?/10067742.htm\)](http://support.novell.com/cgi-bin/search/searchtid.cgi?/10067742.htm) on the Novell Support Knowledgebase Web site.

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In this documentation, a greater-than symbol (>) is used to separate actions within a step and items in a cross-reference path.

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8 NetWare 6 Support Pack 1 Readme

1

Overview

Welcome to NetWare[®] 6 Support Pack 1. This Support Pack provides a number of enhancements and fixes to the initial release of NetWare 6.

The Support Pack software is available for download from the Novell Support Web site at the following links:

- ◆ Operating System software (<http://support.novell.com/cgi-bin/search/searchtid.cgi?/10067742.htm>)
- ◆ Client software, including Novell[®] Client[™] for Windows, ConsoleOne[®] snap-ins, NMAS client, and NICI client

Instructions for installing the Support Pack are included with the download in the following files:

- ◆ NW6SP1.TXT: Main installation instructions
- ◆ NWOVLY.TXT: Instructions for creating an overlay installation
- ◆ ZFSSP.PDF: Instructions for using ZEN for Servers to distribute the Support Pack

A summary of enhancements for the various Support Pack components is available in [Chapter 2, “Summary of Changes,” on page 11](#).

A description of known issues for various Support Pack 1 components is located in the individual component chapters of this book.

NOTE: For information about additional issues discovered after the Support Pack release, see the [NetWare 6 Support Pack 1 Readme Addendum \(http://support.novell.com/cgi-bin/search/searchtid.cgi?/10067742.htm\)](http://support.novell.com/cgi-bin/search/searchtid.cgi?/10067742.htm) on the Novell Support Knowledgebase Web site.

A description of known issues for the initial release of NetWare 6 is located in the [NetWare 6 Readme](#).

10 NetWare 6 Support Pack 1 Readme

2

Summary of Changes

This chapter provides a description of new features or enhancements to components in NetWare[®] 6 Support Pack 1.

DNS/DHCP

The Novell[®] iManager browser-based DNS/DHCP management utility includes the following new features:

- ◆ Search feature for resource records
- ◆ Multi-select deletion of objects
- ◆ Pooled (Included) MAC address support
- ◆ Automatic deletion of an A-type resource record when the corresponding PTR-type resource record is deleted (and vice versa)
- ◆ Automatic update of the DHCP Server reference while importing the DHCP configuration

Documentation

- ◆ The online help has been updated in several modules to reflect software changes.
- ◆ Several manuals in the online documentation set have been updated to reflect software changes.

NOTE: No changes have been made to the printed *NetWare 6 Overview and Installation Guide* or the *NetWare 6 Documentation CD*.

International Support

- ◆ This release includes improved support for extended single-byte and double-byte characters for filenames, folder names, and eDirectory™ objects.

iPrint/NDPS

- ◆ Novell® iManager has links directly to Netware Remote Manager for printers and the print services manager.
- ◆ You can now edit the gateway load strings from Novell iManager.
- ◆ In Novell iManager, IPP is automatically enabled when you create a new printer.
- ◆ In Novell iManager, a tab for Windows* XP drivers has been added to the Client Support page.
- ◆ You can now add print drivers for all platforms in Novell iManager.
- ◆ NetWare Remote Manager now has the ability to create reports about your print system.
- ◆ You can start and shut down printer agents from NetWare Remote Manager.
- ◆ Novell iPrint Map Designer has been enhanced to include the use of user-defined icons, font changes, and listing printers by container.
- ◆ The iPrint Client has been updated. Users are automatically prompted to install the new client.
- ◆ TTS is automatically enabled on NSS volumes where the Print Services Manager is located.
- ◆ The duplicate driver ID issue has been fixed.

NetWare FTP Server

- ◆ You can now log in from the FTP Client by giving the Fully Distinguished Name in the formats `.cn=username.ou=ou1...` or `.username.ou1....`
- ◆ The STRU R option has been implemented.
- ◆ IGNORE settings no longer conflict with home server settings.
- ◆ When administrating FTP Server from Web Manager, you can now view the log files in non-English languages.

- ◆ Logging in from the FTP client by specifying the country and locality objects is now functional.

For example, cn= admin .o= novell .l= utah .c= usa

- ◆ The ABOR command is now functional.

NetWare Remote Manager/NetWare Server Management

- ◆ Several features have been added to NetWare Remote Manager that increase the functionality of existing server diagnostics and management features. For more information, see "[New Features in NetWare 6, Support Pack 1](#)" in "Introducing NetWare Remote Manager" in the *NetWare Remote Manager Administration Guide*.
- ◆ You can now use an NSSWITCH.CONF file to control how NetWare Loadable Module™ programs communicate with the network to resolve names. For more information, see "[Managing Name Services Using NSSWITCH.CONF File](#)" in the Managing chapter of the *Server Communications Administration Guide*.
- ◆ When troubleshooting DNS problems, you can use NSLOOKUP.NLM to diagnose DNS network configuration problems. For more information, see "[NSLOOKUP](#)" in *Utilities Reference*.

NetWare WebAccess

- ◆ Handheld PDA support has been added.

NetWare Web Search

- ◆ A *search site* is now referred to as a *virtual search server*. In previous versions of NetWare Web Search Server, the term *search site* was defined as a collection of one or more indexes and related configuration files. To avoid confusion with the term *Web site*, the term was changed wherever it appeared in the documentation and in the variables and parameters.

New variables and parameters that parallel the term *virtual search server* have been added.

NOTE: The new variables and parameters function the same as those in previous releases and those variables and parameters can still be used.

The term *collection* has been changed to *index*.

We recommend that you start using the newer variables and parameters in order to avoid confusion.

- ♦ Web Search now returns information from <TITLE>, <AUTHOR>, and <DESCRIPTION> tags found within XML documents.
- ♦ Web Search now includes improved support for PDF version 1.4.

Novell Advanced Audit Service (NAAS)

Four new events have been added for eDirectory Auditing:

- ♦ DSE CHANGE ACL is generated when an object's Trustee information is changed
- ♦ DSE ENABLE LOGIN is generated when a user account is enabled
- ♦ DSE DISABLE LOGIN is generated when a user account is disabled
- ♦ DSE DETECT INTRUDER is generated when a user account is disabled because of intruder detection

Novell Cluster Services

- ♦ Novell Cluster Services™ now has improved integration with the NSS administration tools. This enables you to more easily and efficiently manage your shared storage.
- ♦ Cluster volumes and pools can now be automatically cluster-enabled at the time they are created. This new feature can be implemented using additional functionality that is now in the NSS ConsoleOne snap-in. The snap-in also provides support for automatically adding CIFS, AFP, and NCP™ advertising commands to cluster volume resource scripts.
- ♦ Cluster-enabled volume resource scripts now update automatically when renaming or deleting pools or volumes.
- ♦ The ADMIN_SERVER volume directory object is no longer necessary to manage shared storage.
- ♦ The Cluster Volume Broker now includes a refresh feature and the ability to manage cluster volumes by right-clicking virtual servers to get the NSS media tab.
- ♦ You can now create DFS junctions on cluster volumes. Also, better integration of clustering with DFS and CIFS is possible by including virtual server setup information in NDS®.
- ♦ The eight partition per device limit has been removed for the device containing the SBD partition.
- ♦ The Trustbar module can now back up trustees at the root of a volume.

Novell eDirectory

- ◆ Novell eDirectory is now version 8.6.2.

Novell iFolder

- ◆ iFolder applet additions:
 - ◆ An Explorer-like double-pane view of files/folders on server
 - ◆ The ability to create a new user account
 - ◆ The ability to handle large directories
- ◆ Improved proxy support in the iFolder client and applet.

Novell iManager

- ◆ Multiple select with mouse (Shift+Click).
- ◆ Redesigned role-based administration pages.

Novell JVM for NetWare

- ◆ Novell JVM for NetWare is now version 1.3.1.
- ◆ You can now use the File Browser utility to set NetWare file attributes.
- ◆ This release is upgraded to version 6 of the accelerated graphics drivers. This version supports newer video graphics adapters.

Novell Licensing Service

- ◆ In Novell iManager you can now view license certificate and policy information.
- ◆ The NetWare Usage information in NetWare Remote Manager has been updated with an Advanced option.
- ◆ Basic licensing information is now provided through the VERSION command at the server console.

Novell Modular Authentication Service (NMAS)

- ◆ NMAS is now version 2.02.

Novell Native File Access for Macintosh (AFP)

- ◆ Improved performance.

Novell Native File Access for UNIX

- ◆ Performing a large file copy on a traditional volume no longer aborts when the Cache_Aging_Interval is set to 0.
- ◆ The Root access parameter in export options is now functional.
In order to give Modify and Root access to all clients, you need to explicitly add a trustee, enter an asterisk (*) in the Name field, and allow R/W or Root access using ConsoleOne.
- ◆ The objects domain_U and domain_G are now created only if the passwd and group map are selected during migration.
- ◆ NIS modules now refer to the Members attribute of the group. Using the SCHINST utility with the -n option moves the group's Group Membership list to the Members attribute. Also, for every user moved, it updates the user's Group Membership attribute and gives rights equivalent to that of the group.
- ◆ Makenis now adds users to the Members attribute, gives users the rights equivalent to that of the group, and updates its Group Membership attribute.
- ◆ The command line option -i has been added to the NISINST utility to specify the IP address to be attached to the NISServ Object. This option is useful in a cluster environment and for servers with multiple NIC cards.

Novell Native File Access for Windows (CIFS)

- ◆ CIFS now supports Master Browser.
- ◆ You can now access your DFS volumes through CIFS.

Novell NetStorage

- ◆ The Novell iFolder™ passphrase creation window is improved.
- ◆ Support is now available for handheld devices running Windows CE.
- ◆ The HTML interface supports right-clicking on file and directory names.
- ◆ Menu items which are not applicable in the current reference are grayed out/disabled.
- ◆ If a user tries to copy over an existing file or directory, a prompt for permission to do the overwrite now appears.

Novell Storage Services (NSS)

- ◆ Background checker: The background checker periodically scans the file system and checks the IDs (including trustees) in the file system to make sure they are consistent with the entries in eDirectory. It deletes any old IDs that it finds and also fixes any NDS naming problems.
- ◆ CIFS support for DFS: You can now access your DFS volumes through the CIFS protocol.
- ◆ Clustering NSS volumes and pools in NSS: In ConsoleOne: You can now cluster-enable a volume or pool when you create it.
- ◆ DVD Support: You can now mount DVDs as NSS logical volumes.
- ◆ Junctions: Junctions are virtual directories or folders that point to the root of a volume, which can be located in a different place on the same server or on a different server. This makes the volume location transparent to the user. At this time, this functionality can be accessed only through the WebDAV or CIFS protocol.
- ◆ Multipath support: Multipath support is used to offline and reroute data paths in the event of a bad path or if maintenance is needed; this support is for multiple adapters on the same device. You manage this feature through NetWare Remote Manager.

Scripting

- ◆ Perl5.003 for NetWare has been upgraded to Perl5.6 for NetWare. Perl5.6 for NetWare is based on CPAN version Perl 5.6.1 and contains all the standard Perl extensions (Fcntl, IO, SDBM_File etc.). This also contains the Perl2UCS (formerly UCSExt) extension to access UCS components and CGI2perl for Web programming.
- ◆ The NSN console command parser is improved.

Storage Management Services (Backup and Restore)

- ◆ SMS now supports backup of open files on NSS volumes.

TCP/IP

- ◆ NIC teaming support: Configuration support in INETCFG for third-party vendor solutions for load balancing and fault tolerance at the NIC level.
- ◆ Web-Based Monitoring Utility (WEBCON.NLM): This utility is available through NetWare Remote Manager to view TCP/IP information that was previously available only through the TCPCON utility.

18 NetWare 6 Support Pack 1 Readme

3

Support Pack Installation

Overwriting Files

During the Support Pack installation, newer files on the server are not overwritten. The installation program checks the version. If two files have the same version, the installation program then checks the date of each file. If the version and date are identical, the file is not overwritten.

Files contained in .ZIP files are copied to the server and not compared to existing files. Files that are in use by a client are not overwritten.

Overwriting Files with an Overlay Upgrade

When you are using the overlay installation to upgrade a server to NetWare® 6 and Support Pack 1 simultaneously, you should always overwrite newer files.

Overlay Installation with Admin FDN or Password with Space

If you do an overlay installation with the administrator's Fully Distinguished Name (FDN) in spaced context or if the administrator's password contains space or spaces, you need to complete the following steps after the installation:

- 1** Execute `nfsstop`.
- 2** Load `schinst -n -u "admin name with FDN" -p "password"`
For example, `schinst -n -u ".admin.novell ctp" -p "novell npgb"`
- 3** Load `nisinst`.
- 4** Execute `nfsstart`.

New Server Installation to an Existing NetWare 6 Tree Fails during Authentication

If the NCP™ Packet Signature option is set to 3 on a NetWare 6 Support Pack 1 server and that server holds the Master Root Replica, subsequent server installations into that tree might fail during authentication.

To resolve this, do the following:

- 1** On the server that holds the Master Root Replica, change the NCP Packet Signature option on the master server to 0 (zero), and then restart the master server for the change to take effect.
- 2** On the new server being installed, use the Back button in the installation program to return to the beginning and go through the installation screens again.

This should allow the installation to authenticate and complete successfully. After installation, you can reset the NCP Packet Signature option back to its original setting.

Adding a NetWare 6 Server to a Network Running NetWare 5.1 Support Pack 4 with eDirectory 8

To add a NetWare 6 server to a system running NetWare 5.1 Support Pack 4 with eDirectory™ 8, do the following:

- 1** Download NetWare 6 Support Pack 1.
- 2** Create an overlay CD following the instructions in \TOOLS\NWOVL\NWOVL.TXT of the NetWare 6 Support Pack 1.
- 3** Use NWDeploy on the overlay CD to prepare your tree for the NetWare 6 server.

4

ConsoleOne 1.3

ConsoleOne Will Not Load on NetWare Server after Installing GroupWise 6 Support Pack 1

You might receive the following error when you start ConsoleOne[®] on a NetWare[®] server after installing GroupWise[®] 6 Support Pack 1 and the GroupWise snap-ins on the server:

```
ERROR: java.lang.NoClassDefFoundError: com/novell/gw/util/Resource
```

To resolve this error, remove the following GroupWise snap-ins directory from the server:

```
SYS:PUBLIC\MGMT\CONSOLEONE\1.2\SNAPINS\GROUPWISE
```

After you remove this directory, you will no longer be able to map a drive to the server and run ConsoleOne with the GroupWise snap-in. You will have to install ConsoleOne and the GroupWise snap-ins on a workstation in order to administer GroupWise. You will, however, be able to run ConsoleOne from the server without the GroupWise snap-in.

22 NetWare 6 Support Pack 1 Readme

5

DNS/DHCP

Known Issues

- ◆ When you create resource records, do not use wildcard characters to specify the owner's name.
- ◆ The Novell® iManager browser-based DNS/DHCP management utility does not support Netscape*.

Special Instructions

- ◆ When you use the Object Selector to search for objects, ensure that the eDirectory™ search context is correct by checking and, if necessary, changing the value in the Look In: field to reflect the correct context.
- ◆ While deleting RRSet and IP Address objects using the multiselect delete feature, limit the number of objects to not more than 5000. Deleting a large number of objects at one time might take a long time to complete.
- ◆ While creating a subnet, if you are selecting a default DHCP server, specify the eDirectory context of the subnet either using the Object Selector or by entering its Fully Distinguished Name. Do not use the type-name format (for example, o=dnsdhcp.novell).

24 NetWare 6 Support Pack 1 Readme

6

iPrint/NDPS

iPrint Port Conflicts with Web Servers

If you upgrade from NetWare[®] 5 to NetWare 6 using the overlay method or if you installed NetWare 6 using the Express Install option and then added the iPrint product, iPrint might not be configured correctly with the Web server on the NetWare 6 server.

In NetWare 5.1, the Novell[®] Enterprise Web Server was installed by default and captures port 443. After upgrading to NetWare 6, port 443 is still assigned to Enterprise Web Server. When iPrint tries to use port 443 for secure printing, the HTTPSTK reports an error on the logger screen.

In NetWare 6, the Express Install option installs the Apache Web server, which captures port 443. When iPrint tries to use port 443 for secure printing, the HTTPSTK reports an error on the logger screen.

Users might see the following error message when they attempt to use a secure iPrint printer:

```
Error message: HTTP 500 - Internal server error.Error
group: HTTP Error code: 500
```

To resolve this, reconfigure the ports for your Web server so that iPrint is assigned port 443. For more information on reassigning ports, see your Web server documentation or the November 2001 *Novell AppNote*, "[How to Install and Configure NetWare Enterprise Web Server or Apache Web Server with Tomcat \(http://developer.novell.com/research/appnotes/2001/November/05/a011105.htm\)](http://developer.novell.com/research/appnotes/2001/November/05/a011105.htm)."

Another option is to install iPrint on a NetWare 6 server that does not require a Web server.

Driver Installation Issues

If you are experiencing problems installing printers, ensure that the latest Service Pack for the workstation operating system is installed. Some driver installation problems have been resolved by Microsoft* Service Packs.

Lost Trustee Assignment When Using Migration Wizard

When migrating to NetWare 6 from an earlier version of NetWare using the Migration Wizard, the trustee assignment to SYS:\LOGIN is lost for the Public object. Therefore, NetWare 6 users will not have access to the directory. However, iPrint requires users to have access to this directory.

To resolve this, assign Read and File Scan rights to SYS:\LOGIN for the Public object.

7

NetWare FTP Server

Creating a File or Directory in a DOS Namespace on a Server with Double-Byte Characters

If you create a file or directory in a DOS namespace on a server with double-byte characters, the file or directory will be created on that server with the name specified. However, the message to the FTP client might contain a different file or directory name. This happens in particular with the 0x8374 character in Shift_JIS, 30D5 in Unicode that gets converted to 0x8354 in Shift_JIS, 30B5 in Unicode.

28 NetWare 6 Support Pack 1 Readme

8

NetWare Migration Wizard 6

The latest version of NetWare[®] Migration Wizard is not included with NetWare 6 Support Pack 1 but is available from the [Novell[®] Download Site](http://download.novell.com) (<http://download.novell.com>).

30 NetWare 6 Support Pack 1 Readme

9

NetWare Remote Manager

Disk Space Usage Limitation

With NetWare[®] 6 Support Pack 1, NetWare Remote Manager includes a new feature that allows you to view a summary of disk space usage for an entire volume. You access this feature via the Disk Space Usage button on the Volume Information page.

This feature currently has a known limitation. That is, if the volume being scanned contains directories more than 17 levels deep from the root, the scan operation will fail and a buffer overrun will occur. NetWare will recover from this abend by suspending the thread (httpexpThreadx, owned by HTTPSTK.NLM) and the Server Health light will turn yellow. (Abend Thread count moves from 0 to 1.)

To clear the suspended thread, restart the server.

This limitation will be addressed in the next NetWare 6 Support Pack. In the meantime, an interim fix will be made available.

32 NetWare 6 Support Pack 1 Readme

10 Novell Advanced Audit Service

Excessive Memory Consumption

Using NAAS on a NetWare[®] 6 Support Pack 1 sever running on a Pervasive* database might cause the NetWare server that hosts the NAAS database to abend when there is excessive memory consumption.

To avoid this, do one of the following:

- ♦ Move the Pervasive database to a machine with 512 MB or more RAM.
- ♦ When the memory buildup occurs, restart the Pervasive database on the server.

View the Loaded Module screen in the Monitor screen of the NetWare server and verify whether there is a steady and excessively high increase in the memory consumption of NWSQLMGR.NLM and NWODBCEI.NLM.

If the memory is increasing, stop and restart the Pervasive database by using MGRSTOP and then MGRSTART at the server console. This will refresh the memory occupied by the Pervasive NLM™ programs; it will not disrupt auditing. The frequency of this start/stop can be determined by viewing the memory consumption behavior of the NLMs and NAAS configuration.

- ♦ Install Pervasive SQL 2000i SP4, the latest version of the Pervasive database. For more details, see the [Pervasive Web site \(http://www.pervasive.com\)](http://www.pervasive.com).
- ♦ NAAS also works with the Oracle* database. As an alternate to the Pervasive database, Oracle 8i can be installed and configured on NetWare 5.1 to be used as a NAAS database.

NAAS Components Fail to Come Up on a Non-eDirectory Replica Server

To resolve this, do one of the following:

- ◆ Load the NAAS Agent on the nonreplica server:

```
adagtset -nr username password
```

where the *username* is the dot-delimited Fully Distinguished Name for a user with the Supervisor right on the partition with the server.

- ◆ Load the NAAS server on the non-replica server by entering the following at the server console:

```
adsrvset -nr username password
```

where *username* is the dot-delimited Fully Distinguished Name for a user with the Supervisor right on the partition with the server.

The NAAS components can then be loaded following the normal procedure.

Deploying NAAS in a Mixed Environment with NetWare 6 and NetWare 6 Support Pack 1 Servers

NOTE: If you are configuring and using NAAS for the first time after installing NetWare 6 with Support Pack 1 and do not have NAAS on any other NetWare 6 server, this issue isn't applicable to your setup.

Auditing eDirectory™ on NetWare 6 servers with Support Pack 1 installed uses a new eDirectory event template with Service Version 2.0, Service Identifier NDS®, and a new eDirectory event policy. The new eDirectory event template and eDirectory event policy are created as part of the default configuration of NAAS on NetWare 6 Support Pack 1.

Auditing eDirectory on NetWare 6 servers without Support Pack 1 continues to use the eDirectory template with Service Version 1.0, Service Identifier NDS, and the eDirectory event policy derived from it.

In order for eDirectory auditing to function on NetWare 6 Support Pack 1 servers, you must reconfigure the existing NAAS framework using the NAAS snap-ins that ship with Support Pack 1.

IMPORTANT: Only the administrator can reconfigure the existing NAAS configurations, using the NAAS default configuration utility.

To successfully audit eDirectory after installing NetWare 6 Support Pack 1, complete one of the following procedures.

If the Auditor has *not* created an eDirectory event policy template and an eDirectory event policy in the eDirectory partition manually (NAAS uses the

DS Event policy template and DS Event Policy created by the NAAS default configuration utility on NetWare 6), complete the following steps:

- 1** Manually replicate the contents of the old eDirectory policy contents to the newly created eDirectory event policy.
- 2** Restart NetWare servers with Support Pack 1 after reconfiguring the NAAS framework.
- 3** To refresh templates and policies, restart ConsoleOne® after reconfiguring NAAS.

If the Auditor *has* created new eDirectory event policy template or eDirectory event policy in the eDirectory partition manually (by creating new ones in addition to the DS event policy template and DS event policy created by the default configuration utility on NetWare 6), complete the following steps:

- 1** For every eDirectory event template and eDirectory event policy in the partition, other than DSEventPolicyV2 and DSEventPolicyTemplateV2 created by default, manually create a new eDirectory event template using the EVENTS.TXT file located in the SYS:\AUDIT\nasEvents folder on all NetWare 6 Support Pack1 servers and a new eDirectory event policy respectively.
- 2** Manually replicate the contents of the old eDirectory policy contents to the newly created directory event policy.
- 3** Replicate associations to new event policies.
For example, associate the new eDirectory event policies to wherever the old ones were associated.
- 4** After reconfiguring the NAAS framework, restart your NetWare 6 Support Pack 1 servers.
- 5** To refresh templates and policies, restart ConsoleOne after reconfiguring NAAS.

36 NetWare 6 Support Pack 1 Readme

11

Novell Client for Windows

See the [Novell® Client™ Readme \(http://www.novell.com/documentation/lg/noclienu/index.html\)](http://www.novell.com/documentation/lg/noclienu/index.html) for issues related to the latest release of the Novell Client for Windows 95/98 and Novell Client for Windows NT*/2000/XP.

38 NetWare 6 Support Pack 1 Readme

12 Novell Cluster Services

Installation and Upgrade Issues

If you had a NetWare 5.1 cluster installed and you performed an in-place upgrade on the servers in that cluster to NetWare 6, you must ensure the product entry for Novell Cluster Services is the proper version before installing NetWare 6 Support Pack 1.

To check the Novell Cluster Services product entry version number:

- 1** At the server console, load NWCONFIG.NLM.
- 2** Select Product Options and then select View/Configure/Remove installed products.
- 3** Find the NWCS product entry and ensure the version number is 1.6.0 or greater.
- 4** Repeat the above steps on every server in the cluster.

If the product entry version is less than 1.6.0, you must apply a patch to update the Novell Cluster Services product entry. Cluster servers that do not have the proper product entry version will abend when you install NetWare 6 Support Pack 1.

To apply the patch:

- 1** Go to the Novell Support site (http://support.novell.com/search/kb_index.jsp) and search for TID number 2960777.
- 2** Click the filename to download the patch and follow the instructions included in the TID to update the Novell Cluster Services product entry.
- 3** Apply the patch to each cluster server that requires an updated Novell Cluster Services product entry.

The following scenarios require you to create a new CD image in order to install or upgrade Novell® Cluster Services™:

- ◆ If you installed a brand new NetWare® 6 Support Pack 1 cluster on existing NetWare 6 servers that were upgraded to NetWare 6 Support Pack 1

The CD image provides all the fixes in the installation, which are otherwise present only if you run the cluster installation from the NetWare 6 CD via Deployment Manager.

- ◆ If you want to do a one-step upgrade from NetWare 5.1 to NetWare 6 Support Pack 1 without having to go to NetWare 6.0 first and then upgrade from NetWare 6 to NetWare 6 Support Pack 1

The CD image prevents you from having to do a two-step NetWare 5.1 to NetWare 6 Support Pack 1 upgrade.

Creating a New CD Image

Complete the following steps to create a new CD image that will fix the problems described in the above scenarios.

- 1** Copy the NetWare 6 CD image to a directory on a server.
- 2** Copy the CLUSTER.ZIP file from the NI\ZIP directory at the root of the NetWare 6 Support Pack 1 image to the NI\ZIP directory at the root of the NetWare 6 CD image on your server.
- 3** Copy the PRODUCTS\NCS directory from the root of the NetWare 6 Support Pack 1 image over the PRODUCTS\NCS directory at the root of the NetWare 6 CD image on your server.
- 4** Run the Cluster Services installation via NWDEPLOY.EXE (Deployment Manager) from the new image you just created.

NWDEPLOY Authentication Problems

NWDEPLOY might be unable to authenticate to a new node when you attempt to add that node to an existing cluster. This problem occurs more frequently when either SLP or DNS isn't configured properly on servers or clients.

This problem can be resolved by doing any of the following:

- ◆ Before running NWDEPLOY, manually map a drive from your client to volume SYS: on the new node.
- ◆ Add the server name and IP address of the new node to DNS.

- ◆ Add the server name and IP address of the new node to the Windows Hosts file on the client machine where you will run NWDEPLOY.
- ◆ Configure SLPDA to discover the server name of the new node.

42 NetWare 6 Support Pack 1 Readme

13

Novell eDirectory 8.6.1 for NetWare

The Novell LDAP Server Does Not Support Downgrades from Support Packs

If you install a Support Pack and then later remove it, you might find that the LDAP server will no longer respond to client requests. To resolve this, use ConsoleOne® to manually create new LDAP Server and Group objects, reassociate the LDAP Server object with the NCP Server object, and remove the obsolete Server and Group objects.

- 1** Open a pre-Support Pack version of ConsoleOne that exactly matches the version of the LDAP server you want to run and then log in with administrator privileges.
- 2** At the same tree location where the upgraded LDAP objects exist, create a new LDAP Server object and a new LDAP Group object.

These new objects will contain the original defaults for the specific version of the LDAP server and group. Be aware that shared group objects are generally not compatible across multiple LDAP server versions. You will need to restore any changes and associations that had been made to these objects prior to the installation of the Support Pack.

- 3** Review the properties of the NCP Server object associated with this Support Pack change.
 - 3a** Right-click the NCP Server object and then click Properties.
 - 3b** On the Other tab, replace the LDAP server name listed in the Attributes list with the new LDAP Server object name.
- 4** Delete the obsolete LDAP Server object.
- 5** Delete the obsolete LDAP Group object after it is not being shared among other LDAP Server objects.

Be sure to review the contexts of the LDAP Group and Server objects to ensure they refer to each other properly. Also make sure that security measures such as X.509 certificates are created and associated correctly and that SSL is configured accordingly.

44 NetWare 6 Support Pack 1 Readme

14 Novell GroupWise

ConsoleOne Will Not Load on NetWare Server after Installing GroupWise 6 Support Pack 1

You might receive the following error when you start ConsoleOne® on a NetWare® server after installing GroupWise® 6 Support Pack 1 and the GroupWise snap-ins on the server:

```
ERROR: java.lang.NoClassDefFoundError: com/novell/gw/util/Resource
```

To resolve this error, remove the following GroupWise snap-ins directory from the server:

```
SYS:PUBLIC\MGMT\CONSOLEONE\1.2\SNAPINS\GROUPWISE
```

After you remove this directory, you will no longer be able to map a drive to the server and run ConsoleOne with the GroupWise snap-in. You will have to install ConsoleOne and the GroupWise snap-ins on a workstation in order to administer GroupWise. You will, however, be able to run ConsoleOne from the server without the GroupWise snap-in.

Running the GroupWise 5.5 Enhancement Pack SP4 MTA and POA in Protected Memory Space

During a failover/migration of a cluster volume running the GroupWise 5.5 Enhancement Pack SP4 MTA and POA in protected memory space, the Cluster Resource screen might prompt with the message `Unload module anyway?` Then the Cluster Resource Manager will report the volume in an `Unloading` state. It will remain in this state until you answer the prompt.

- 1 Answer N to place the migrating volume in a comatose state.

WARNING: If you Answer Y, the server will abend.

- 2 Use Cluster Resource Manager in ConsoleOne to offline the volume.
- 3 Immediately online the volume to return it to a running state.

If you receive the `Unload module anyway?` message while unloading the protected address space but are *not* on a cluster, answer N to the prompt to unload the protected memory. Answering Y will abend the server.

15

Novell iFolder

iFolder Is Not Automatically Restartable

The Novell® iFolder™ NLM™ runs in a protected address space on the server. This address space is not restartable via NetWare® Remote Manager or the protected address space server console commands.

This means that if the iFolder protected address space faults, the server memory management system will not automatically close the address space and clean up the resources or restart the address space and reload the iFolder modules. This must be done manually.

Using the iFolder Client When Internet Explorer Has Bypass Local Addresses and Proxy Exception Server Settings

Logging in to a proxy server via the iFolder client might fail if Internet Explorer has one or both of the following proxy settings:

- ◆ Bypass Local Addresses for Proxy
 - To view your proxy settings, go to Start > Settings > Control Panel > Internet Options > Connections > LAN Settings.
- ◆ Proxy Exception (Advanced button on the LAN Settings tab)

To correct this problem, upgrade the iFolder client to version 1.02.2 or later.

48 NetWare 6 Support Pack 1 Readme

16

Novell iManager 1.0 and iMonitor 1.5 for Novell eDirectory 8.6

Novell iManager 1.0

- ♦ **Selecting User Objects.** If you perform an operation that requires you to select a User object, and the list of User objects that match your search criteria contains more than 15 to 20 objects, you will be able to select objects only from the first objects in the list. If you click to see more User objects, you will no longer be able to select any objects. To solve this issue, refine your search to find fewer User objects. This issue will be resolved in a future release of Novell® iManager.
- ♦ **Using the Keyboard to Expand Roles.** If you use the Tab key to move to a role in Novell iManager and then press Enter to expand the role and view the tasks assigned to that role, your browser will GPF. To prevent this from happening, use the mouse to expand roles.

iMonitor 1.5

- ♦ **Restoring Custom Settings.** Any custom settings you previously specified in the iMonitor configuration file are overwritten during the installation of NetWare® 6 Support Pack 1. To restore those settings, open NDSIMON.INI (located in the same directory as the iMonitor executable) and make the desired changes. To preserve your previous settings, you might want to manually copy them to another file before the installation.

50 NetWare 6 Support Pack 1 Readme

17

Novell Licensing

Demo Licensed Expired

The initial release of NetWare[®] 6 included a demo license. The demo license contained a 90-day expiration and an internal time limit of December 31, 2001. This means that the license is already expired and is not usable.

In subsequent releases, like the international release of NetWare 6, the demo license was corrected to have a 90-day expiration and no internal time limit.

52 NetWare 6 Support Pack 1 Readme

18

Novell Modular Authentication Service (NMAS)

When Upgrading to NMAS Enterprise Edition 2.0, Do Not Overwrite Newer NMAS Files

NetWare 6 Support Pack 1 includes NMAS 2.02 Standard Edition and automatically installs it during the installation process.

Once you have installed this version of NMAS Standard Edition, if you want to upgrade it to NMAS 2.0 Enterprise Edition, you need to answer "No" during the Enterprise Edition installation when asked if you want to replace the newer NMAS Standard Edition files on your system with the older ones included in NMAS 2.0 Enterprise Edition. By answering "No" and not overwriting the newer files, it will bring the previously installed NMAS Standard Edition to a full Enterprise Edition with full functionality and bug fixes.

54 NetWare 6 Readme

19

Novell Native File Access for Macintosh (AFP)

Mac OS X Issues

- ◆ When you drag nested folders to the Trash from a workstation running Mac* OS X, an error message says that the folder is in use. You should drag files as a group to the Trash and then drag the folder to the Trash.
- ◆ When you move or copy a file or folder to the same volume from a workstation running Mac OS X, the action is performed properly but you will see an error (-43 "File not found"). You can safely disregard this error message.

Copying Executable Files with Extended Characters to NSS Volumes

Copying an executable file that has an extended character (such as diacritical marks) in its name to an NSS volume will result in an error (-43 "File not found"). Rename the executable file without extended characters and then copy the file to the NSS volume.

Filename Character Limit

Version 2.2 of the Apple* Filing Protocol (AFP) limits filenames to 31 characters or less while the Mac OS X implements AFP 3.0, which supports filenames longer than 31 characters. Because the AFPTCP NLM™ uses AFP 2.2, you should keep your filenames to 31 characters or less to successfully copy and move files to an AFP volume.

Updating the NMAS Login Method to Enable Changing Passwords

NetWare 6 Support Pack 1 includes a fix for the change password function in the NMAS login method for AFP (LSMAFP.NLM). To implement this functionality, you must use ConsoleOne from a Windows client to remove the

current login method and sequence and then install the new method. Complete the following steps:

- 1** Ensure the NetWare server and Windows workstation are running the same version of NICE (NetWare 6 uses NICE 2.0.x).

To check for the version of NICE running on the server, use the NWCONFIG utility.

To check the version of NICE running on the Windows workstation, use Add/Remove Software Programs in the Control Panel.

If the NICE versions don't match, you will need to install the necessary upgrade. You can download the NICE client software from the [Novell download site \(http://download.novell.com/sdMain.jsp\)](http://download.novell.com/sdMain.jsp). Scroll to NICE Encryption Modules and download the appropriate module for your OS.

- 2** Copy the LSMAFP.NLM.LMO file to the SYS:PUBLIC\NMA\METHODS\AFP directory on the server.

NOTE: There should also be a CONFIG.TXT file in this directory.

- 3** Start ConsoleOne on the Windows workstation. (CONSOLEONE.EXE is located in SYS:\PUBLIC\MGMT\CONSOLE\1.2\BIN).

- 4** Select File > Authenticate.

- 5** Log in as an administrator user to the server where you want to replace the AFP login method.

- 6** Delete the existing *login sequence* by completing the following steps:

- 6a** Expand the tree to locate the Security object, right-click on the object, and then double-click Login Policy.

- 6b** Select LSMAFP from the Defined Login Sequence list and then select Delete Sequence.

- 6c** Select OK.

- 7** Delete the existing *login method* by completing the following steps:

- 7a** Click Authorized Login Methods located under the Security object.

- 7b** Right-click the LSMAFP item at the right and select Delete NDS Object.

- 8** Add the new login method by completing the following steps:

- 8a** Right-click anywhere on the right side of the list and select New > Object.

8b Create a new SAS:NMAS login method object.

The CONFIG.TXT file should be located in the same directory where you copied the LSMAFP NLM (SYS:\PUBLIC\NMAS\METHODS\AFP).

8c Follow the on-screen instructions to install the new login method.

The login method is successfully installed when you see the Installation Summary screen.

9 Restart the server.

58 NetWare 6 Support Pack 1 Readme

20

Novell Native File Access for UNIX

Makenis Issues

- ◆ Upon executing makenis in a server with no replica when the Master replica is down, instead of displaying a DS error, a series of messages similar to the following are displayed erroneously:

```
Nullpointer passed to routine Kmutex
```

- ◆ Do not use makenis to delete users and groups. Use ConsoleOne[®] instead.

Pkernel Messages

If the pkernel screen displays messages similar to the following on executing yppush, you can ignore them (they do not affect functionality in any way):

```
Out of memory, cannot create UDP Client handle.
```

60 NetWare 6 Support Pack 1 Readme

21

Novell Native File Access for Windows (CIFS)

Certain Double-Byte Characters Not Supported in File and Directory Names

CIFS does not currently support certain double-byte characters used in file and directory names. Specifically, the double-byte backslash (\) and the double-byte dash (-) characters do not work. (The Unicode value for the double-byte backslash is 0xFF3C; the Unicode value for the double-byte dash is 0x817C.) We recommend that you use the single-byte backslash and dash characters in file and directory names.

Double-Byte Characters in Usernames

You must use ConsoleOne[®] to manage CIFS passwords for users who have double-byte characters in their username.

Use ConsoleOne to Configure Your Windows/CIFS Network Environment

Once you have installed the NetWare[®] 6 Support Pack 1 software, you should configure your Windows/CIFS network environment with ConsoleOne. Previously, CIFS parameters were configured by manually editing the CIFS.CFG file. That file now contains a note telling you to use ConsoleOne for CIFS configuration.

If eDirectory[™] is reinstalled on a server running CIFS with NetWare 6 Support Pack 1, ConsoleOne CIFS management will not automatically reimport the CIFS.CFG configuration into ConsoleOne. To reimport the configuration, remove the comment lines starting with ### from SYS:ETC\CIFS.CFG and then run CIFSSTOP and CIFSSTRT.

Enable Unicode on a CIFS Server with DFS Junctions

Unicode must be enabled on a CIFS server in order for DFS junctions to work. You can enable Unicode in the following ways:

- ◆ During the Installation: Make sure the Enable Unicode check box is checked on the first Server Properties screen.
- ◆ After the Installation Using ConsoleOne®: Right-click the Server object in ConsoleOne and then click Properties > CIFS > Config. Make sure the Unicode check box is checked and then restart CIFS by running CIFSSTOP and CIFSSTRT.

Domain Import Function

A new CIFS.NLM corrects a problem with the domain import function. For more information, see TID #2960727 on the [Novell Support Knowledgebase \(http://support.novell.com/search/kb_index.jsp\)](http://support.novell.com/search/kb_index.jsp).

CIFS Server Selected as a Master Browser in Domain Mode

In Domain mode, when the CIFS server is selected as a master browser, it maintains a list of servers in the domain only on the local subnet. Subsequently, servers in the domain that are located on other subnets will not appear in Network Neighborhood.

22

Novell NetDevice NAS

Joining a NetDevice NAS Appliance into a NetWare 6 eDirectory Tree

NetWare[®] 6 Support Pack 1 includes fixes to eDirectory[™] for NetWare 6 that allow a Novell[®] NetDevice NAS appliance to join a NetWare 6 eDirectory tree.

If you are planning to deploy a NetDevice NAS appliance into a NetWare 6 eDirectory tree, you must make sure that the NetWare 6 server in the replica ring that holds the partition which the NetDevice NAS appliance is targeted to join is running NetWare 6 Support Pack 1 or later.

64 NetWare 6 Support Pack 1 Readme

23

Novell NetStorage

Setting the NetStorage/iFolder Passphrase

The NetStorage\iFolder™ passphrase is stored in the eDirectory™ User object. A dialog to change the passphrase automatically appears when you select iFolder. The passphrase can also be set by editing the PASSPHRASE.HTM file that is included in the \iFolder directory.

Register All User Contexts for iFolder

All user contexts must be registered in the Xtier\Configuration\Xsrv\Authentication Domains registry area *and* must be set in the iFolder configuration. You can use the NSAdmin utility to change NetStorage-specific registry settings.

You can check the iFolder configuration at https://hostname:iFolder_SecurePort/. iFolderServerMultiple trees are not currently supported. That is, users of multiple trees cannot access iFolder from NetStorage; each tree should have its own NetStorage server/admin.

Ensure Admin Proxy User Is Logged In and Has Rights to All Contexts (iFolder)

Make sure the admin proxy user is always logged in and has rights to all contexts. You can check this by adding oneNet/SESSIONS to the end of the NetStorage URL. NetStorage uses the proxy user to set the encrypted passphrase in the User object.

Using ConsoleOne®, click the Other tab on the User Properties page to see the xtier-ifolderpassphrase string (encrypted). The admin proxy user is configured during the NetStorage installation and can be changed after the installation by clicking the General link in the NSAdmin utility.

Entering an Invalid Passphrase (iFolder)

If users enter an invalid passphrase that doesn't match the current iFolder passphrase, the PASSPHRASE.HTM file will continue to appear.

Ensure PASSPHRASE.HTM Is Posting the Correct URL (iFolder)

Make sure the PASSPHRASE.HTM form is posting to the correct URL. Open the PASSPHRASE.HTM form and then right-click and select View Source. Search for the word *action* and check the URL. The URL is in the form *PROTOCOL://HOSTNAME:SECUREPORT/oneNet/iFolder/pph*. Make sure the protocol is https and the port is the correct secure port. Also make sure the hostname is correct. You can change the protocol, port, and hostname using the NSAdmin utility.

Changing eDirectory Password Invalidates iFolder Passphrase

If you change your eDirectory password, your iFolder passphrase becomes invalid. If this happens, reset your passphrase by re-entering the original passphrase that was created when your iFolder account was created. If you are using a browser to access NetStorage, you will automatically be prompted to reset your passphrase. If you are using Web Folders to access NetStorage, you must access the PASSPHRASE.HTM file in the iFolder directory to reset your passphrase.

Resetting the Passphrase

The user's passphrase can also be reset at any time at the following URL where NetStorage is running: http://NetStorage_Server/oneNet/iFolder/pph.

HTTP Errors When Submitting Passphrase

Context configuration problems, port/protocol, and invalid DNS addresses usually cause HTTP errors when attempting to submit the passphrase form.

Port Conflicts or Invalid Port Settings

During the NetWare 6 Support Pack 1 installation and configuration process, an administrator might inadvertently set the port number used by NetStorage to the same port number used by NetWare Enterprise Server. Manually changing the NetStorage port number after the installation might also cause a port conflict or an invalid port setting.

NetStorage requires the Apache Web Server and must use the same port number as the Apache Web Server. The default port number for NetWare

Enterprise Server is 80 for HTTP and 443 for HTTPS. If you have NetWare Enterprise Server installed, by default the Apache Web Server will get port 51080 for HTTP and 51443 for HTTPS. If the NetWare Enterprise Server is not installed, the default port number for Apache (and NetStorage) is 80 for HTTP and 443 for HTTPS. Be sure that NetStorage is configured to the same port numbers as Apache.

NetStorage port conflicts and invalid port settings cause HTTP Forbidden errors when users attempt to create new folders in home directories and on mapped drives. These errors are characterized by Connection Refused IO errors and new folders not appearing after they are created.

Servers configured to use multiple IP addresses are less likely to have port conflict problems because each service can generally use its default port assignment.

To correct NetStorage port number conflicts or invalid port settings, edit the SETTINGS.PROPERTIES file in the SYS:\WEBAPPS\NETSTORAGE\WEB-INF\CLASSES directory. Change the port number to match the one that is listed in the SYS:\APACHE\CONF\ADMINSERV.CONF file. This port number can be found in the # Start Apache Services Port Configuration section of the file.

You can also edit the port number by clicking the WebDav Server link in the NSAdmin utility.

Downloading Folders Using a Browser is Not Supported

The Novell NetStorage documentation indicates that you can download folders using a browser with NetStorage. This is incorrect. You can download individual files using a browser with NetStorage, but downloading folders is not currently supported.

You can create new folders or you can copy, delete, rename, or move existing files and folders by right-clicking the file or folder and then selecting the option you want.

Problems with Extended Characters in Text View

You may encounter problems viewing extended characters using the NetStorage Text View feature. Also, folders containing extended characters that are created using the Text View feature may not display correctly in either the Text View or the Folder View. This problem can be avoided by creating folders with extended characters or viewing extended characters using the NetStorage Folder View.

LDAP Clear Text Passwords are Required for Contextless Login

If you want to provide contextless login for users through NetStorage, you must enable LDAP Clear Text passwords. Contextless login lets users log in without specifying their entire user object context.

You can enable LDAP clear text passwords during the NetWare 6 installation, or after the NetWare 6 installation using ConsoleOne.

24 Novell Storage Services

Failure to List Resources

NWBACK32 fails to list resources for backup on Windows 2000 and NT workstations with SLP as the discovery mechanism.

Logging In with a Windows Client

If you are trying to access a junction and you get an error that says `Bad user name or password`, this means that you used a different username and password to log in to your workstation and the network.

DFS requires that you use the same common name and password for workstation and network login, otherwise login will fail.

Windows Client Limitation with DFS Junction Levels

Due to a limitation in Windows* 95/98/ME/XP clients, if you create a junction that points to a volume that contains another junction, your second junction might fail because these clients don't support multi-level junctioning (that is, having more than one junction in a path). Multi-level junctions *are* supported on Windows NT 4 and Windows 2000 clients.

DFS Requires Unicode Support

Unicode must be enabled on a CIFS server in order for DFS junctions to work. You can enable Unicode in the following ways:

- ◆ During the Installation: Make sure the Enable Unicode check box is checked on the first Server Properties screen.
- ◆ After the Installation Using ConsoleOne[®]: Right-click the Server object in ConsoleOne and then click Properties > CIFS > Config. Make sure the Unicode check box is checked and then restart CIFS by running CIFSSTOP and CIFSSTRT.

Using MONITOR.NLM to Set NSS Startup Parameters

The file that you need to modify to set NSS startup parameters at the server console is documented incorrectly in MONITOR.NLM. Please modify the NSSSTART.CFG whenever you are instructed to modify the STARTUP.NCF file.

25

Novell TCP/IP

Configuration through INETCFG

- ◆ If the NETINFO.CFG file is corrupted and upon loading INETCFG you get a message asking you to reconfigure, delete the TCPIP.CFG file. We recommend that you back up NETINFO.CFG, NETINFO.CHK, and TCPIP.CFG once the network configuration of the server is complete. In case of corruption, restore from the backed-up configuration.
- ◆ In machines with multiple NICs, if already-in-use IP addresses are selected for binding, an ARP conflict error message is displayed for each binding. The system should automatically trigger unbinding of the IP addresses. If the binding persists, manually delete the bindings and reinitialize the system.

IP Trace

- ◆ A blank space is not permitted between the command arguments and the equal sign (=) following them.
- ◆ Source option is not supported in this release.
- ◆ In some destination addresses, the utility stops at the hop before the target.

NIC Teaming

- ◆ Currently, only one user-specified protocol is supported.

72 NetWare 6 Support Pack 1 Readme

26 Scripting Products

Perl Issues

- ◆ Failure of UCX methods is indicated by an unknown error. The error description given by the UCX call is currently not available for the Perl script.
- ◆ If a script has just “use Perl2UCS” or “require Perl2UCS” and no object instantiation through “Perl2UCS->new(...)” then the script will abend.
- ◆ Complex scripts running from the console might give the message `Process did not relinquish control frequently.`
- ◆ Scripts that contain an infinite loop can be terminated by Ctrl+Z, but not Ctrl+C. When Ctrl+Z is pressed, it breaks the loop and expects any key to be pressed (which will be indicated on the Perl output screen) before the Perl output screen can be exited.
- ◆ Press Ctrl+Z after pressing Enter to execute the next command in the Perl debugger.
- ◆ When multiple CGI scripts (more than about 40) are each doing complex operations and are run simultaneously, the Web server will hang or abend.
- ◆ The following Perl functions are either not yet implemented in NetWare or are not applicable in the NetWare environment:

alarm	chown	chroot
endgrent	endpwent	fork
getgrent	getgrgid	getgrnam
getpgrp	getppid	getpriority
getpwent	getpwnam	getpwuid

link	rewinddir	setgrent
setpgrp	setpriority	setpwent
symlink	syscall	telldir
times		

- ◆ The truncate built-in procedure does not function reliably.
- ◆ The readlink built-in procedure always returns an undefined value. According to Perl's definition of the function, this is the correct behavior on a system such as NetWare that does not support symbolic links.
- ◆ The system built-in procedure is supported. However, the shell it invokes is the standard NetWare console. Note that the console does not support I/O redirection, pipes, variable expansion, or filename globbing. This is a port of Perl, not UNIX.

27

Storage Management Services (SMS)

- ◆ NWBACK32 fails to list the NetWare[®] servers in Windows 2000 and Windows NT workstations when SLP is used and the Novell[®] Client[™] is installed with only IP. To resolve this, enable the Active and Static discovery properties in the Novell Client.
- ◆ Pressing F1 to access the context-sensitive help file for W32SMDR is currently not supported. Click the Help button in the GUI to view the help.

76 NetWare 6 Support Pack 1 Readme

28 Time Management

If your server is not in sync, it could be due to one of the following:

- ◆ You do not have configured sources set to On even though the source is specified in the configured sources list.
- ◆ Your source server is IP only and your configured source is the IPX server name. You need to specify the IP address or DNS long name in the configured source list.
- ◆ You have multiple NICs in the server and you are specifying an IP or NTP source. (This is a timing issue and doesn't occur in all multiple-NIC environments.)

For environments with multiple NICs that experience problems (such as NetWare[®] routers and multiple-NIC cluster environments), insert the following at the end of your AUTOEXEC.NCF file:

```
unload timesync
```

```
load timesync
```

This allows the TCP/IP stack to finish coming up, binding, and initializing to all the interfaces and to then restart Timesync.

- ◆ Directory Tree Mode (default configuration): In order for Timesync to function in Directory tree mode, it uses SLP. In some mixed SLP/tree configurations, the secondary server doesn't find the Single/Reference server with the Timesync service via SLP.

If you experience issues in your environment after having the Single/Reference and Secondary servers all contact the Same Directory Agent, turn your configured sources to On and contact your Single, Reference, Primary, or NTP source via the IP address or DNS long name.

78 NetWare 6 Support Pack 1 Readme