

Installing Novell Replication Services (NRS)

Novell® Replication Services™ (NRS) is a powerful replication management tool that provides scalable, reliable, and secure replication and distribution of information across wide area networks.

PREREQUISITES

- ❑ Two or more servers running NetWare® 4.1 (with patches 410PT8 and DS410K) or 4.11 (with Support Pack 5B), or a later version of NetWare
- ❑ One administrative workstation running Windows* 95*, Windows NT* or Windows 3.x

Server Hardware Requirements

- ❑ 386 PC or higher
- ❑ 3 MB of additional RAM on each master and link server
- ❑ 2 MB of additional RAM on each replica server
- ❑ 1 KB of additional RAM on each server for each file system object (file, directory, trustee, etc.) in the largest replicated directory (no additional RAM is needed for file system objects in the descendants of that directory)
- ❑ 20 MB of free disk space on each server, plus 4 MB of free disk space (on each server's NRS™ database volume) for every 1,000 replicated file system objects
- ❑ Adequate free disk space for replicated file contents on replica servers

Administrative Workstation Hardware Requirements

- ❑ 500 KB of free disk space on each workstation on which the administrative snap-in to NetWare Administrator is installed

INSTALLATION

To install NRS, you must first install server software from CD-ROM or from files downloaded from the Web. Next, if the NRS snap-in to NetWare Administrator is not automatically registered in Windows, then you must register it manually.

You will then need to register your copy of NRS 1.21 at <http://www.novell.com/products/>.

Installing from CD-ROM

1. Insert the *Novell Replication Services* CD-ROM into the server's CD-ROM drive.

If the CD-ROM is a DOS device, go to “*Installing the Server Software*” on page 2.

2. Mount the CD-ROM as a NetWare volume by executing the following command:

```
CD MOUNT NRS121
```

3. Go to “*Installing the Server Software*” on page 2.

Installing from the Web

1. Create a subdirectory on the target server for the NRS software.
2. Download and extract the NRS software from the Web page at www.novell.com/nrs into the created directory.
3. Continue with “*Installing the Server Software.*”

Installing the Server Software

1. At the server console (or using RCONSOLE) enter the following:

LOAD INSTALL
2. Select Product Options > Install a Product Not Listed.
3. Press F3 to select another path.
4. Enter the appropriate path to the NRS software (either the CD-ROM drive or the subdirectory into which you have downloaded the software).
5. Follow the instructions on the installation screen.

Registering the NetWare Administrator Snap-in

When NetWare Administrator runs on a workstation, it creates Windows 95/NT registry entries, or a default `nwadmn3x.ini` file, to define known snap-in extensions so that they are loaded.

If the NRS administration snap-in utility is registered, new buttons appear in the Details dialog for a Server object in NetWare Administrator. If the snap-in utility is registered, you will also see two NRS options in the Tools menu of

NetWare Administrator; however, the NRS Replication Tree utility is available only for Windows 95/NT.

If the menu options or the buttons are unavailable, the NRS snap-in has not been automatically registered by NetWare Administrator, and the appropriate Windows Registration Utility must be used.

Three versions of the Windows Registration Utility are available:

- `Nrsreg95.exe` for Windows 95
- `Nrsreg3x.exe` for Windows 3.x
- `Nrsreg32.exe` for Windows NT

Perform the following steps to register NRS:

1. Click Start > Run (or File > Run for Windows 3.x) and type the path to the utility on the NetWare server, for example:

```
z:\public\win95\nrsreg95.exe
```

or

```
z:\public\nrsreg3x.exe
```

or

```
z:\public\winnt\nrsreg32.exe
```

2. In the Confirmation dialog, click OK.

A message tells you that the snap-in has been successfully registered on the workstation and registration is now complete.

3. Close NetWare Administrator (if it

has been running while you have been running the Windows Registration Utility), and restart it to make the registration effective.

The Registration Utility modifies the Windows Registry or `nwadmn3x.ini` entries as appropriate. This modification removes any earlier references to `nrsadm95.dll`, `nrsadm3x.dll`, or `nrsadmnt.dll` as appropriate and then creates one of the following:

- In Windows 95, the registry entry

```
\\HKEY_CURRENT_USER\\
  Software\\NetWare\\
    Parameters\\NetWare
      Administrator\\
        Snapin Object DLLs
          Win95\\NRSADM95.DLL=
            NRSADM95.DLL
```

- In Windows NT, the registry entry

```
\\HKEY_CURRENT_USER\\
  Software\\NetWare\\
    Parameters\\NetWare
      Administrator\\
        Snapin Object DLLs
          WinNT\\NRSADMNT.DLL=
            NRSADMNT.DLL
```

- In Windows 3.x, the following line in the [Snapin Object DLLs WIN3X] section of `nwadmn3x.ini`

```
NRSADM3X.DLL=NRSADM3X.
DLL
```

(available on the NRS CD or the NRS Web page).

Setting Up Replication

Read Chapter 3, “*Installing and Running Novell Replication Services*,” and Chapter 4, “*Replication*,” in the NRS online manual.

Keeping Up to Date

Visit the NRS Web page at www.novell.com/nrs.

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CONFIGURATION

Planning Replication

Read Chapter 2, “*Application Planning*,” in the NRS online manual