

# Installing Z.E.N.works 1.1 Starter Pack

Z.E.N.works™ is an integrated set of technologies that lets you deliver and manage applications, configure Windows\* desktops, and remotely repair workstation software problems using a single management utility—NetWare® Administrator.

## SCOPE OF THE STARTER PACK

The Z.E.N.works Starter Pack does not include all the features of the full Z.E.N.works product. The following features are available *only* in the full Z.E.N.works product: an NDS™-enabled help desk request system, hardware inventory, and remote control. For more information about Z.E.N.works features, see <http://www.novell.com/coololutions/zenworks>.

## PREREQUISITES

- Make sure you are running NetWare 4.11 or later.
- Have 40 MB of memory and 175 MB of disk space available on the NetWare server.
- Have the Supervisor right to the NetWare server where you install Z.E.N.works.
- Have the Supervisor right to the NDS™ container where you install Z.E.N.works.
- Have rights to modify the schema of the NDS tree in which you are installing

Z.E.N.works.

- Install the Z.E.N.works client software on each workstation participating in Z.E.N.works.

## PRODUCT DOCUMENTATION

- To view the comprehensive overview and procedural information from the CD-ROM without installing Z.E.N.works, choose *Z.E.N.works > View Documentation*.
- To view the documentation once NetWare Administrator 3.2 and Z.E.N.works are installed, choose Z.E.N.works from the NetWare Administrator Help Topics.
- For guidelines on designing NDS for Z.E.N.works, see the “Planning Z.E.N.works” section of the help file.
- To view Z.E.N.works overview information or the Novell® Client™ documentation directly from the *Online Documentation* CD-ROM, insert the CD-ROM or browse to the novdocs directory and double-click viewdoc.exe if the CD does not autolaunch.
- To view the Z.E.N.works home page on the Web, go to <http://www.novell.com/coololutions/zenworks>.

## NDS OBJECTS UNIQUE TO Z.E.N.WORKS

The power of Z.E.N.works lies in its use

of new NDS objects (Workstation, Workstation Group, and Policy Package), and existing NDS objects (User, Group, Organization, Organizational Unit, and Application).

Workstation objects  are created when you register and import workstations in your NDS tree. They represent physical workstations and allow you to manage the applications and desktop configurations of Windows workstations from your office.

The Workstation Group object  is an object that allows you to manage a group of workstations as if they were one machine, just as the Group object allows you to manage a group of users as if they were one user.

This object pushes desktop policies down to the workstation from a Policy Package.

You can use NetWare Administrator (NWAdmn32) to create Policy Packages and associate them at the User, Group, Workstation, Workstation Group, or Container level.

Within Policy Packages are policies you can enable. For example, a Windows 95\* User Policy Package contains policies that allow you to configure the desktop and set up login restrictions.

**Note:** Policies (which are required for using most of the Z.E.N.works features) are new NDS objects that can only be created and managed by first creating Policy Packages.

-  The Container Package contains policies that are only associated with container objects (such as Organization [O] or Organizational Unit [OU]).

-  The User Policy Packages contain policies that can be associated with User, Group, and Container (such as O or OU) objects.
-  The Workstation Policy Packages contain policies that can be associated with Workstation, Workstation Group, and Container (such as O or OU) objects.

Once you enable one or more policies in a User Policy Package, all Users (and Users within Groups or containers) associated with the Policy Package will be affected by the enabled policies in the package.

You can also create a new Policy Package and associate it with a single User in the same container. Enabled policies associated at the User level override policies associated up the tree.

#### INSTALLING AND SETTING UP Z.E.N.WORKS

1. From a Windows 95 or Windows NT\* workstation, log in to the NDS™ tree as Admin (or as a Supervisor equivalent).
2. Insert the *Novell Clients and Z.E.N.works Starter Pack* CD-ROM.
3. When the auto-start installation screen appears, follow the prompts, select all defaults (for Quick Starts purposes), and install Z.E.N.works.
4. When prompted, upgrade your clients with new Novell Client software by reinserting the CD-ROM or running WINSETUP again.
5. Set up Z.E.N.works administrative workstations by creating (or updating) a shortcut on each workstation that points to NetWare Administrator 32 (nwadmn32.exe) in sys\public\win32 on the NetWare server.

The  NWAdmn32 Application object is created when you install Z.E.N.works. You can later distribute the Application object automatically using Application Launcher (formerly NAL). Upon delivery, all necessary Registry changes are made automatically.

To take advantage of all Z.E.N.works features, use NetWare Administrator 3.2. However, you can use older versions of NetWare Administrator by modifying the workstation's Registry. To do so, run zenfull.reg (located in the same directory on the NetWare server as the older version of NetWare Administrator).

#### PREPARING TO USE Z.E.N.WORKS

After installation, to use Z.E.N.works, you must

- Create a User Policy package to enable the Workstation Import Policy
- Register workstations in your tree
- Import the registered workstations
- Reregister workstations in your tree to allow NDS to discover them

For instructions on how to complete these tasks, see the next four sections.

#### CREATE A USER POLICY PACKAGE AND ENABLE WORKSTATION IMPORT

A User Policy Package allows you to specify where registered workstations will be created and how they will be named for a group or container.

1. Launch  NWAdmn32 (the shortcut you created in

sys:\public\win32) and select the Organization or Organizational Unit where you want to store Z.E.N.works policy packages.

2. Right-click the Organization or Organizational Unit object and select *Create > Policy Package > OK*.
3. In the Policy Package Wizard, select one of the User Packages and click Next.

Choose the User Policy Package that corresponds to your users' operating systems. For example, if you need to support one or more users who use Windows 95 workstations, choose  Win95-98 User Package.

4. Give the User Policy Package a name (or accept the default), select the location where you want the Policy Package (or accept the default), and click Next.
5. From the Policies list, check  Workstation Import Policy, and select Details.

**Note:** If a check box does not display next to the policy, you probably have an outdated version of comctl32.exe. See the Z.E.N.works readme.txt file for troubleshooting ideas.

**Note:** You can also check or modify other policies in the list at this time.

6. Select the Workstation Location page, and select the container where you want Workstation objects to be created.

If you want Workstation objects in the container associated with the workstation import policy, click Associated Object Container and browse for a location.

If you want to change the location, click Selected Container and browse for a location.

If you want Workstation objects in the same location as the User objects, accept the default User Container.

7. Select the Workstation Naming page, select how you want the workstations named and click OK.

The Workstation objects are named according to the items in the list, which you can modify. If you accept the default, your Workstation objects are named according to these rules:

- Windows 95 or Windows NT Workstation objects are named using a composite of the *<computer name>* plus *<network address>*.
- Windows 3.1 Workstation objects are named using a composite of the logged-in user's *<username>* plus *<network address>*.

8. Select Next, add associations to the list and click Next again.

Associate this Policy Package with Users, Groups, or containers of Users whose workstations you want to manage with this Policy Package. All Users (and Users within Groups or containers) associated with a Policy Package are affected by the enabled policies in the package.

By default, the Organization or Organizational Unit object you selected in Step 1 is the only object in the list (it can be removed, however).

9. View the summary, and click Finish to create this Policy Package as specified.

## REGISTER WORKSTATIONS

This is the initial step in getting an

individual workstation recognized in NDS. When a workstation registers with NDS, it is placed on a list of workstations waiting to be imported.

If you have installed the latest clients, workstation registration is completed automatically the first time a user logs in unless the registration is associated with a workstation object in the NDS tree. In that case, the workstation is already registered.

A scheduler on each workstation runs the necessary registration file (wsreg32 or wsreg16). If you want to run this manually or place it in a login script, see "Set Up Workstations for Z.E.N.works" in the Z.E.N.works help file.

The registration file creates a Workstation entry in the Workstation Registration page (in NetWare Administrator) of the user's container.

## IMPORT THE REGISTERED WORKSTATIONS

A workstation must be imported before you can begin to enable Z.E.N.works features. The first time a workstation is imported in to NDS is the first time its corresponding Workstation object displays in the tree.

1. Launch  NWAdmn32.
2. Identify the User objects whose workstations you want to import.
3. Select the container for those User objects and choose Object Details.

The container must be associated (either directly or indirectly) with the User Policy Package you created previously.

**Note:** The User objects need to be affected by the Workstation Import Policy you enabled previously. This

will happen automatically for all objects associated (either directly or indirectly) with the Policy Package containing the enabled policy.

4. Select the Workstation Registration page.
5. Select the registered workstations you want to import, and click Import.
6. Click OK.
7. View the Workstation objects  in the tree.
  - 7a. Collapse the container and open it again to refresh the list.
  - 7b. View the workstations you imported in Step 3.

#### REREGISTER WORKSTATIONS

You cannot update the workstation successfully without completing this step, which allows the workstation to synchronize with NDS, and makes all associations to the workstation effective.

Once a workstation reregisters (runs the Workstation Registration program, `wsregxx.exe`) it updates the information in its corresponding Workstation object.

Reregister workstations by having your users log out and log in again.

**Note:** If you are using the new Windows 95 or Windows 3.1 clients, the workstations register automatically each time a user logs in.

If you are using the Windows NT client, the workstations could register sooner (depending on how registration is set up in each workstation's scheduler).

#### DISTRIBUTING AN APPLICATION

Here is an example of distributing an application to get you started.

Several Application objects , such as NWAdmn32, are created during the Z.E.N.works installation and are placed in the same container in which the Server object was installed.

Although you can create custom Application objects to distribute, here we will prepare NWAdmn32 using the Application Explorer (`nalexpld.exe`): optional software that runs on users' Windows 95 or Windows NT 4.0 workstations and displays the applications you distribute.

Running Application Explorer involves using the appropriate command to a User or Organizational Unit object's login script.

**Note:** Application Explorer does not work on Windows 3.x machines. Use the Application Launcher (`nal.exe`) instead.

To make Application Explorer available to users, do the following:

1. Ensure that `nalexpld.exe` (or `nal.exe`) is in a network directory (such as `sys:\public`) where users have rights and access.
2. In the NDS tree, right-click a User or Organizational Unit (OU) object, select Details, and select the Login Script page.
3. Add the following text to the User or Organizational Unit object's login script:

```
REM ***Setting Up
    Application Explorer and
    Application Launcher
```

```

REM === This will start the
Application Launcher at
Win3.x login

if PLATFORM = "WIN" then
  @\\<servername>\sys\publ
ic\nal.exe

end

REM === This will start the
Application Explorer at
Win95 login

if PLATFORM = "W95" then
  @\\<servername>\sys\publ
ic\nalexpld.exe

end

REM === This will start the
Application Explorer at
WinNT 4.0 login

REM === If not NT Version
4.0 Application Launcher
will start at login

if PLATFORM = "WNT" then if
os_version="v4.00" then
  @\\<servername>\sys\publ
ic\nalexpld.exe
else
  @\\<servername>\sys\publ
ic\nal.exe
      end
end

```

4. Choose OK.
5. Have the users log in (or log out and log in, if already logged in).

The Application Explorer is now delivered to the users' workstations.

Once you prepare to distribute an application, you can distribute applications to Windows workstations

remotely by completing these steps.

**Note:** We use NWAdmn32 as an example, but you can distribute any Application object.

1. Select the container, Group, or User object to which you want to distribute an application.
2. Right-click the object and select Details.
3. Select the Applications page and select Add.
4. Browse to the container where the server resides.
5. Select  NWAdmn32 and click OK.
6. Check the options that you want enabled for the Application object (such as Force Run or Start Menu) and click OK.
7. The user can then launch NWAdmn32 using the icon on their workstation.

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