

TOSHIBA

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MULTIFUNCTIONAL DIGITAL SYSTEMS

TOSHIBA NDPS Gateway

e-STUDIO165/205

e-STUDIO167/207/237

e-STUDIO182/212/242

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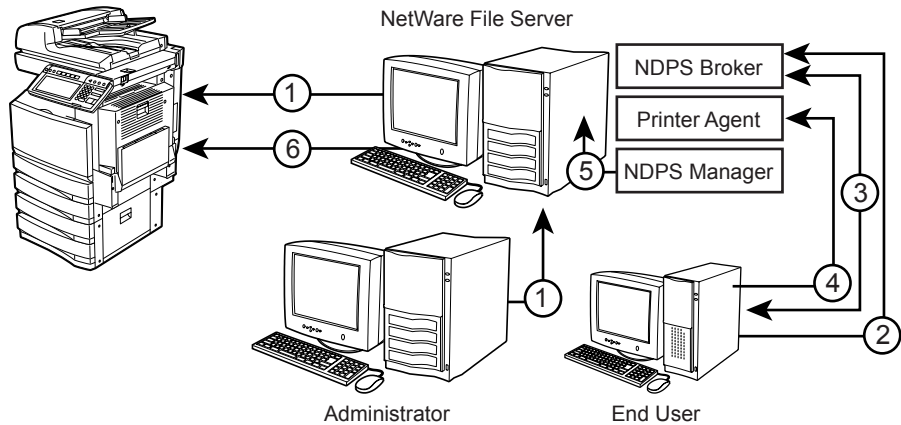
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About TOSHIBA NDPS Gateway

The TOSHIBA NDPS Gateway mechanism employs several components, notably the NDPS Manager, NDPS Broker, and NDPS Printer Agent. The following figure illustrates the communication flow between these objects.



Step 1: The NetWare printer can be discovered in two ways:

- The printer is automatically discovered by the TOSHIBA NDPS Gateway.
- You add it manually to the NDPS Manager, which resides on the same NetWare file server as the TOSHIBA NDPS Gateway.

Step 2: When an end-user attempts to add a NDPS printer, the client queries the NDPS Brokers to identify all available NDPS printers.

Step 3: The NDPS Broker responds with a list of NDPS Printer Agents. The user selects a Printer Agent and the TOSHIBA NDPS Gateway downloads the appropriate driver to the user's desktop.

Step 4: When the client workstation is ready to print, it sends the print job to the Printer Agent, which is a virtual printer image created in the NDPS network.

Step 5: The NDPS Manager then passes the print jobs to the TOSHIBA NDPS Gateway.

Step 6: The TOSHIBA NDPS Gateway issues the printing commands to the printer.

Installing the TOSHIBA NDPS Gateway

Considerations and Limitations

- The TOSHIBA NDPS Gateway can be installed in servers running NetWare version as below.
 - NetWare 5.1 Support Pack 7 or Support Pack 8 with patch "tcp587i" applied
 - NetWare 6.0 Support Pack 5
 - NetWare 6.5 Support Pack 5A self-extracting executable file contains both the TOSHIBA NDPS Gateway and a NetWare Admin Snap-in component that are necessary to support NDPS printing on the equipment.
- The NDPS Manager can drive several Gateways simultaneously. The TOSHIBA NDPS Gateway does not interfere with other manufacturer's Gateways.
- The TOSHIBA NDPS Gateway supports multiple printers; one printer can also be split between several Gateways to balance the work load.
- Both NDPS and non-NDPS users can share the same printer.
- The TOSHIBA NDPS Gateway supports network configurations that are based on both a server and the Windows operating system.

Prerequisites

Install NDPS in the NetWare servers. NDPS comes with NetWare 5, but it is not installed automatically. The NDPS install program extends the NDS schema for three NDS objects:

- NDPS Manager
- NDPS Broker
- NDPS Printer Agent

To load the TOSHIBA NDPS gateway on NW4, besides loading CLIBAU.NLM, you need to have the Novell new localization conversion tables installed in SYS:\SYSTEM. You can find these files from latest Support pack 8a for NetWare 4.11 or 4.2. After you extract the support pack compressed file, you must copy the UNI*.NLM files and LOCNLM32.NLM to SYS:\SYSTEM directory on the server.

Installing the TOSHIBA NDPS Gateway

- 1. Insert the Admin's Client CD-ROM into the CD-ROM drive on the administrative workstation.**
- 2. Copy "tandps.exe", the self extracting executable file from the CD-ROM to the workstation. Double-click the file to launch the InstallShield setup program.**
- 3. Follow the Setup Wizard's prompt to supply the server volume or Browse to select a mapped drive.**
- 4. Click [Next] to proceed with installation. When the NDPS Gateway and NetWare snap-in components have been installed, you can configure the equipment as an NDPS object.**

Setting up the equipment as an NDPS Object

Considerations and Limitations

This equipment should be automatically discovered by the TOSHIBA NDPS Gateway. If not, manually create a new NDPS Printer Agent. (📖 P.8 "Create a Printer Agent")

Prerequisites

1. Load “NWADMN32.EXE” on the administrator workstation to launch the NetWare administration program.
2. Determine the Tree or Context under which to install the NDPS printer agent.
3. Verify that both a NDPS Manager and Broker object exist at this level. If not, create them.
4. Add drivers to the NDPS Broker. They can then be selected from the drivers list and associated with the Printer Agent.

Add Drivers to the NDPS Broker

1. Launch NWAdmin.
2. Double-click the Broker icon.
3. Click [Resource Management (RMS)].
4. Click [Add Resources].
5. Select the applicable system: the Windows 98/Me/2000, Windows NT or Windows XP operating system. Click [Add].
6. Click [Browse] to locate the driver's .inf file on either the distribution CD-ROM or a shared network location.
7. Click [OK].



Now, when you create a Printer Agent, you can associate the drivers by selecting them from the list of drivers managed by the broker.

Create a Printer Agent

1. Right-click anywhere within the Parent Level (Tree or Context under which the NDPS Printer Agent is to be installed) and then choose [Create].
 - The New Object dialog box appears.
2. From the “Class of New Object” list box, select “NDPS Printer” and click [OK].
 - The Create NDPS Printer dialog box appears.

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- 3. Enter the NDPS Printer Name, then click [Create].**
 - The Create Printer Agent dialog box appears.
 - 4. Enter the NDPS Manager name or click [Browse] to locate it.**
 - 5. Select “TOSHIBA NDPS Gateway Configuration” in the “Gateway types” list, then click [OK].**
 - The Gateway Configuration dialog box appears.
 - 6. Select the NDPS Gateway Printing Mechanism and click [Next].**

The configuration dialog that appears depends on the printing mechanism you choose. A description of the configuration settings for each option follows. When you finish configuring the Printer Agent, proceed to “Select Drivers” on page 9.

 -  P.9 "LPR on IP"
 -  P.9 "Queue-Based (NDS Printer Agent)"

LPR on IP

If you select the LPR Gateway configuration option, the Remote-LPR Printer Configuration dialog box opens:

- 1. Enter the IP Address of the equipment and then click [Finish].**
- 2. To confirm your choice, click [Yes].**

When the update is complete, you can proceed to “Select Drivers” on page 9.

Queue-Based (NDS Printer Agent)

If you select the Queue-based (NDS Printer Agent) option, the Configure Printer Agent dialog box opens:

- 1. Either type in the Advertising Print Server name, or click [Search] to automatically locate print server information and choose a device name from the drop-down list.**

Once a server is selected, the remaining fields are populated with the associated data.
- 2. Check the “Manual Configuration” checkbox to edit the default data.**
- 3. Click [Finish].**
- 4. To confirm your choice, click [Yes].**

When the update is complete, proceed to “Select Drivers” on page 9.

Select Drivers

After you create a Printer Agent, configure the options. When the update completes, the Select Printer Drivers dialog box opens:

- 1. Select the appropriate operating system tab.**

2. Select the printer drivers to be automatically downloaded to users' workstations when they select the new Printer Agent.

3. Select all desired drivers and then click [Continue].

A message box opens, listing the selected drivers:

4. Click [OK] if the selections are correct or click [Cancel] to return to the Select Printer Drivers dialog and modify your selections.

NDPS Printer Agent setup is complete. The new Printer Agent now appears in the list of NDPS objects.

Removing NDPS Components

When you want to remove TOSHIBA NDPS Gateway components from the NetWare file server, perform the following operation.

Removing components

- 1. Use the NWADMIN utility to delete all TOSHIBA NDPS printer and print agents you created.**
- 2. Delete the following files using either Windows Explorer or MS-DOS operating system commands. Check that the files are not in use before deleting them.**

SYS:\SYSTEM\TAGATE.NLM
SYS:\SYSTEM\TAPAP.NLM
SYS:\SYSTEM\TACON.NLM
SYS:\SYSTEM\TALIB.NLM
SYS:\SYSTEM\TACFG.PD0
SYS:\SYSTEM\NLS\4\TACON.MSG
SYS:\SYSTEM\NLS\4\TALIB.MSG
SYS:\SYSTEM\NLS\4\TACFG.MSG
SYS:\SYSTEM\NLS\4\TAPAP.MSG
SYS:\SYSTEM\NLS\4\TACFG.HLP
SYS:\SYSTEM\NLS\4\TACON.HLP
SYS:\SYSTEM\NLS\4\TALIB.HLP
SYS:\PUBLIC\WIN32\TASNAPIN.PC2
SYS:\PUBLIC\WIN32\TACFG.PD2
SYS:\PUBLIC\WIN32\TOSHIBA.INI
SYS:\PUBLIC\WIN32\TASNMP.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\TARES.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\TACFGRES.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\SC2_MSG.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\HLP25632.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\ROBOEX32.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\SC3_MSG.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\TACFGRES.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\WATERMARK5.DLL
SYS:\PUBLIC\WIN32\NLS\ENGLISH\TANDBS.HLP

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TOSHIBA TEC CORPORATION

2-17-2, HIGASHIGOTANDA, SHINAGAWA-KU, TOKYO, 141-8664, JAPAN

