

Replication to Networked TPS Nodes

Objectives

Configure directory replication at the PDC.

Configure directory replication at the GUS.

Prerequisites

NT Replication can be set up from the NT Server after the PDC is set up and all of the TPS nodes in the NT Domain are configured.

Introduction

Distributed Files Overview

The following file types are created or edited centrally on the PDC:

- IOMap files
- GUS PCT files
- Workspace Configuration files

These files must be distributed to all TPS nodes that require them.

NT Replication Overview

The Microsoft Windows NT Server replication feature is capable of replicating one NT Server directory structure to any node on the server's network.

This feature is therefore used to distribute GUS PCT files, Workspace Configuration files, and IOMap files from the PDC's replication directory structure to any TPS Nodes that require the files.

NT Replication Warning


Microsoft Windows NT Server directory replication replicates an entire directory structure. This has the following implications:

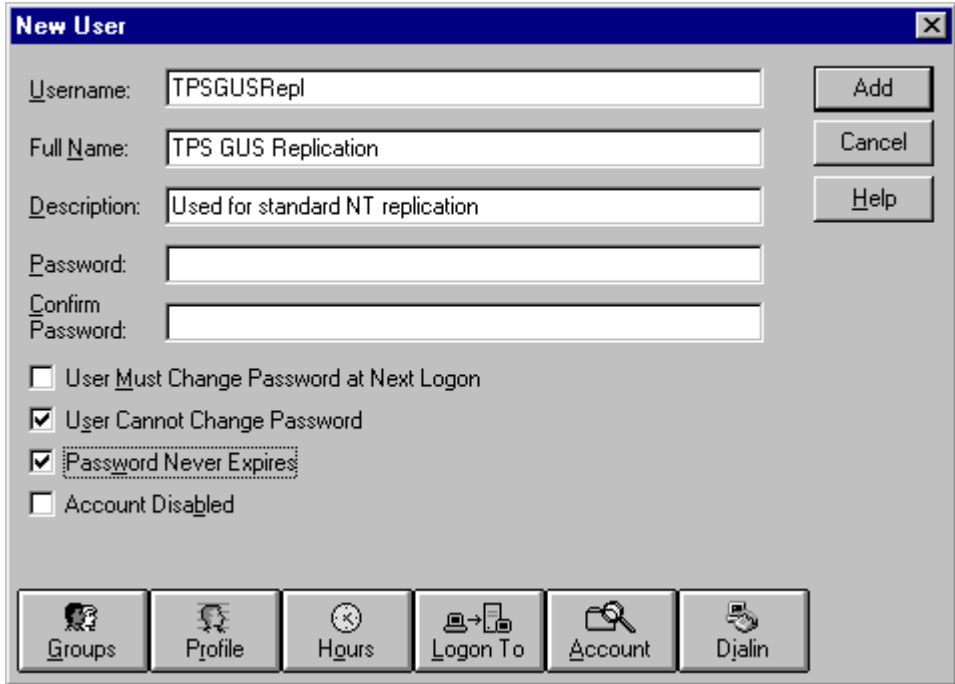
- Existing files located in the TPS Node's replicated directory structure are overwritten by the incoming NT Server directory structure files.
- Existing files located in the TPS Node's replicated directory structure that are not present in the incoming NT Server directory structure are deleted.

Estimated Time to Complete: 30 minutes

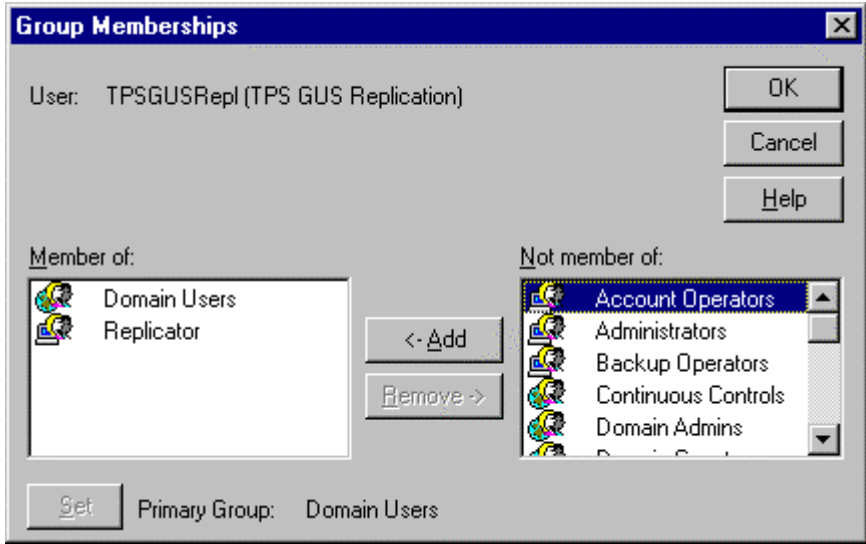
Procedure

Create the TPSGUSRepl Account on the PDC

✓	Step	Action
	1	Log on to the PDC as Domain Administrator
	2	Select Start > Programs > Administrative Tools (Common) > User Manager for Domains
	3	<p>Select User > New User to display the New User dialog box.</p> 
	4	Enter TPSGUSRepl as the Username.
	5	Enter the following as the Full Name: TPS GUS Replication
	6	Enter the following as the Description: Used for Standard NT replication
	7	Do not enter a Password.
	8	Do not enter a Confirmation Password.
	9	Deselect the User Must Change Password at Next Logon checkbox.
	10	Select the User Cannot Change Password checkbox.
	11	Select the Password Never Expires checkbox.
	12	Deselect the Account Disabled checkbox.

✓	Step	Action
	13	<p>Verify that you have duplicated the information shown in the following figure:</p> 

Add the TPSGUSRepl Account to the Replicator Group on the PDC

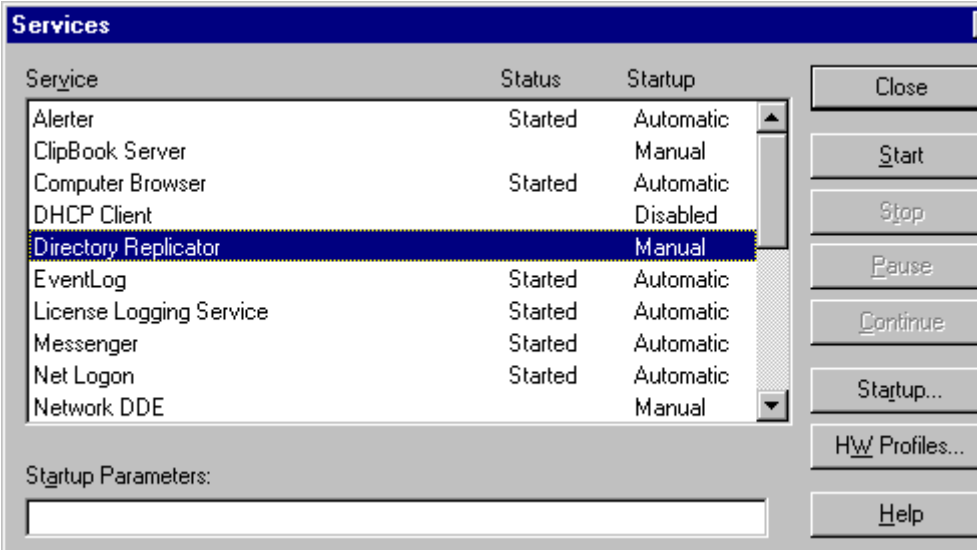


✓	Step	Action
	14	<p>Select the Groups button to display the <i>Group Memberships</i> dialog box:</p> 
	15	<p>In the Not member of window, select the replicator group, then select the Add button.</p>
	16	<p>Select the OK button to close the <i>Group Memberships</i> dialog box.</p>

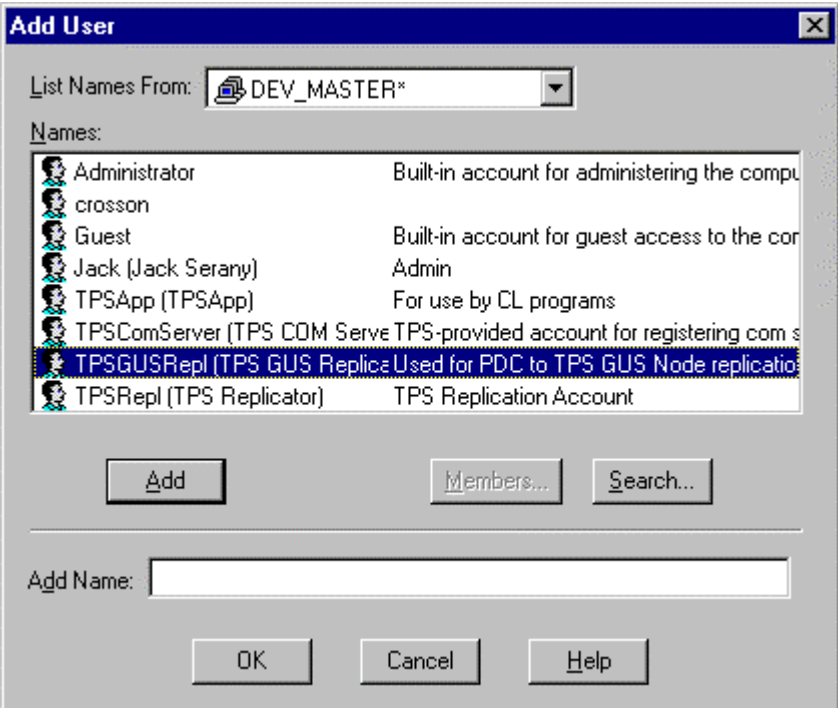
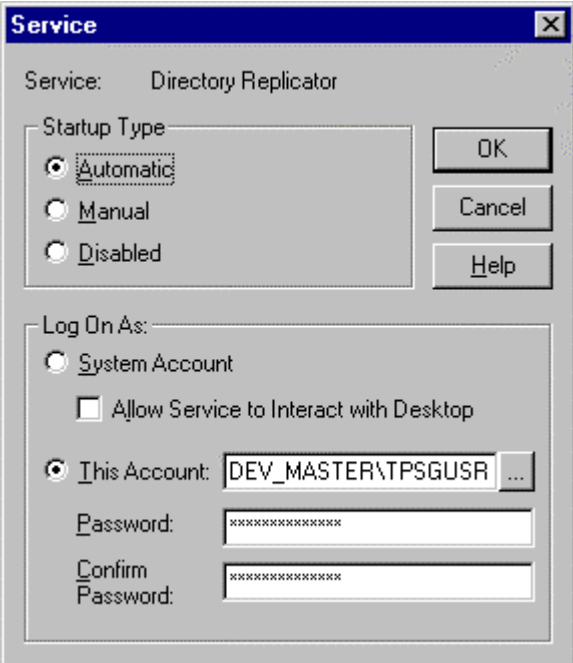
✓	Step	Action
	17	Select the Add button.
	18	Select the Close button to close the <i>New User</i> dialog box.
	19	Exit the User Manager for Domains .

Create the Database Export Directories on the PDC

✓	Step	Action
	20	Create the following directory: \\Winnt\System32\Rep\Export\HWIAC\Databases
	21	Create the following directory: \\Winnt\System32\Rep\Export\HWIAC\Databases\Displays
	22	Create the following directory: \\Winnt\System32\Rep\Export\HWIAC\Databases\IOMap
	23	Create the following directory: \\Winnt\System32\Rep\Export\HWIAC\Databases\Safeview

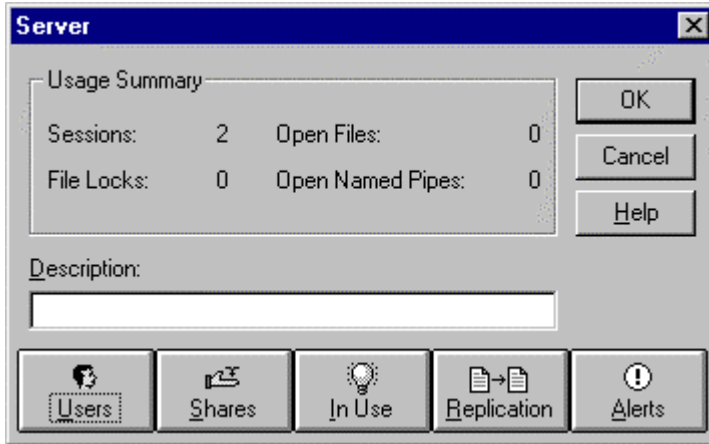
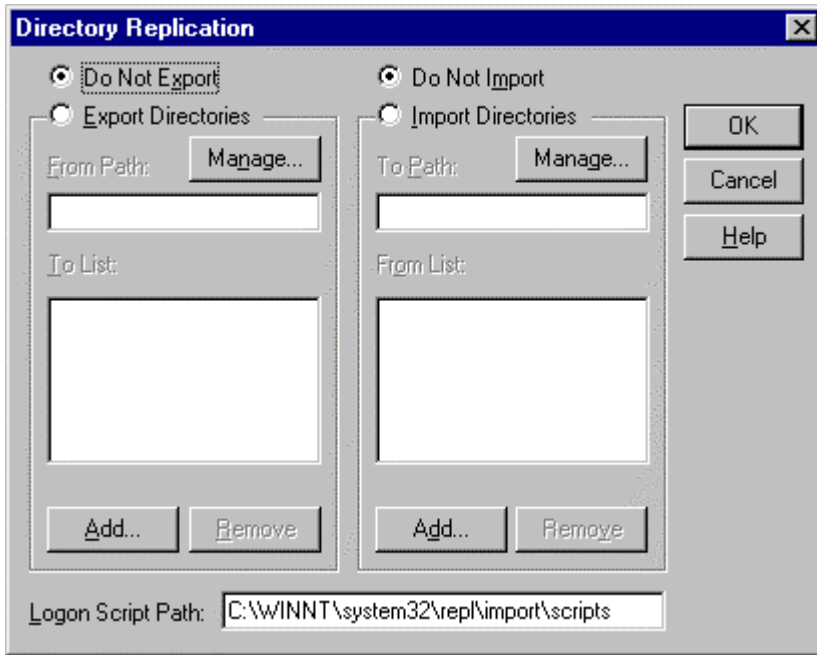
Configure the Directory Replicator Service on the PDC

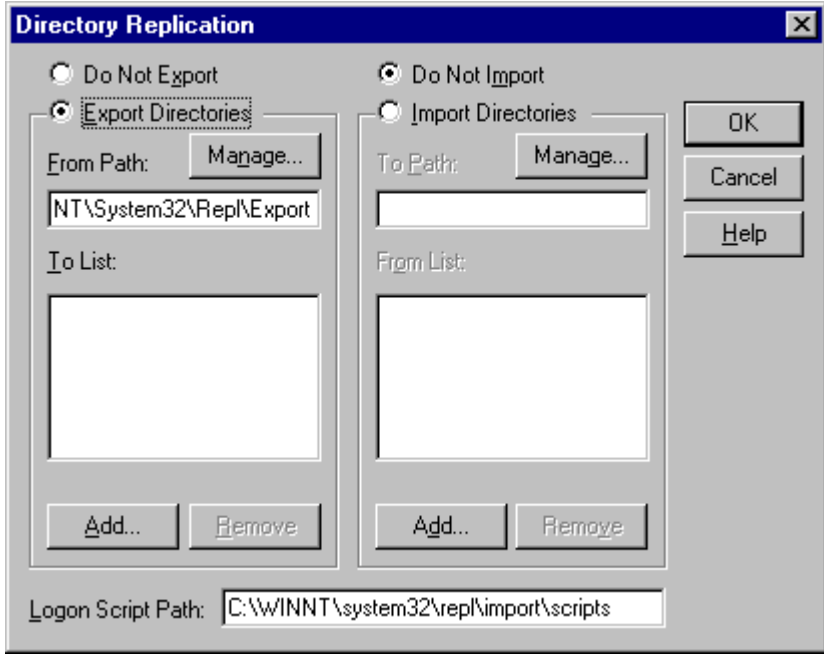
✓	Step	Action
	24	Select Start > Settings > Control Panel > Services to display the <i>Services</i> dialog box.
	25	<p>Select the Directory Replicator service:</p> 
	26	<p>Select the Startup button to display the <i>Service</i> dialog box:</p> 
	27	Set the Startup Type option to Automatic .
	28	Select the Browse button  to display the <i>Add User</i> dialog box.

✓	Step	Action
	29	<p>Select the TPSGUSRepl account:</p> 
	30	Select the Add button.
	31	Select the OK button to close the <i>Add User</i> dialog box.
	32	<p>Note that there is a Password shown in the <i>Service</i> dialog box. Delete the Password.</p> 

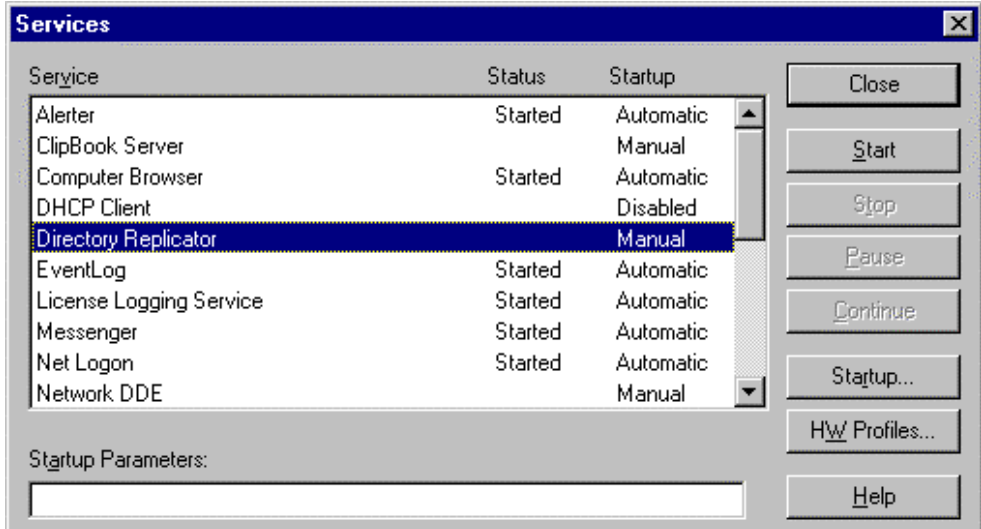


✓	Step	Action
	33	Delete the Confirm Password entry.
	34	Select the OK button to close the <i>Service</i> dialog box.
	35	Select the OK button in the <i>Service</i> information box.
	36	Select the Close button to close the <i>Services</i> dialog box.

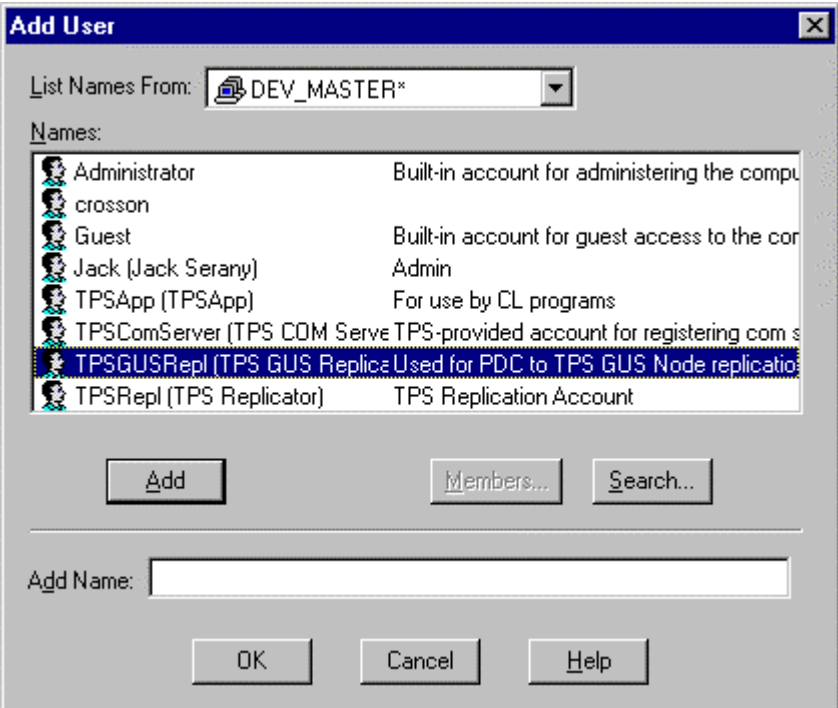
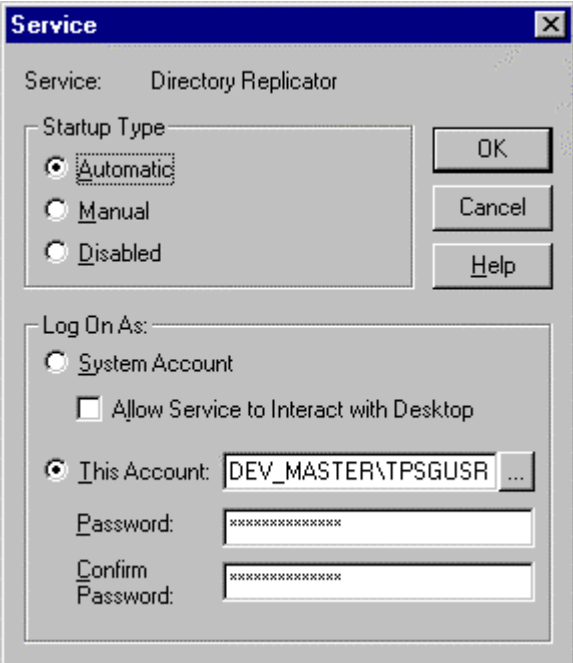
Configure the Server Replication on the PDC

✓	Step	Action
	37	<p>Select Start > Settings > Control Panel > Server on the PDC to display the <i>Server</i> dialog box.</p> 
	38	<p>Select the Replication button to display the <i>Directory Replication</i> dialog box:</p> 

✓	Step	Action
	39	<p>Select the Export Directories option.</p>  <p>The screenshot shows the 'Directory Replication' dialog box. On the left, under 'Export Directories', the 'Export Directories' radio button is selected. Below it, the 'From Path' field is set to 'NT\System32\Repl\Export'. There is a 'Manage...' button next to it. Below the path field is an 'To List' box and an 'Add...' button. On the right, under 'Import Directories', the 'Do Not Import' radio button is selected. Below it, the 'To Path' field is empty, with a 'Manage...' button next to it. Below the path field is a 'From List' box and an 'Add...' button. At the bottom, the 'Logon Script Path' field is set to 'C:\WINNT\system32\repl\import\scripts'. On the far right, there are 'OK', 'Cancel', and 'Help' buttons.</p>
	40	<p>Verify that the From Path is set to:</p> <p>\\WINNT\system32\repl\export</p>
	41	<p>Verify that the Import option is set to Do Not Import.</p>
	42	<p>Select OK to close the <i>Directory Replication</i> dialog box.</p>
	43	<p>Select OK to close the <i>Server</i> dialog box.</p>

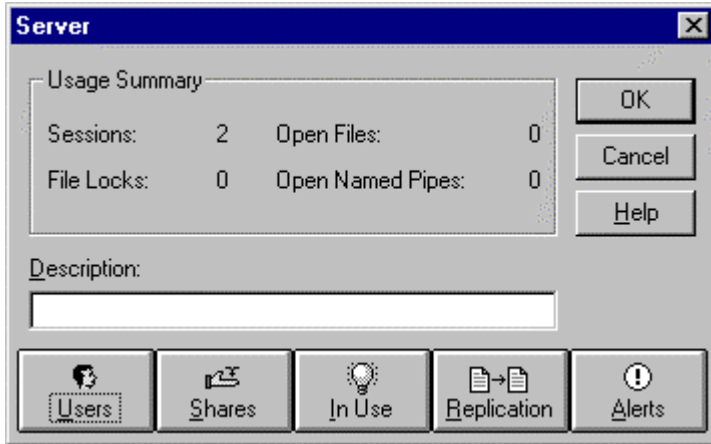
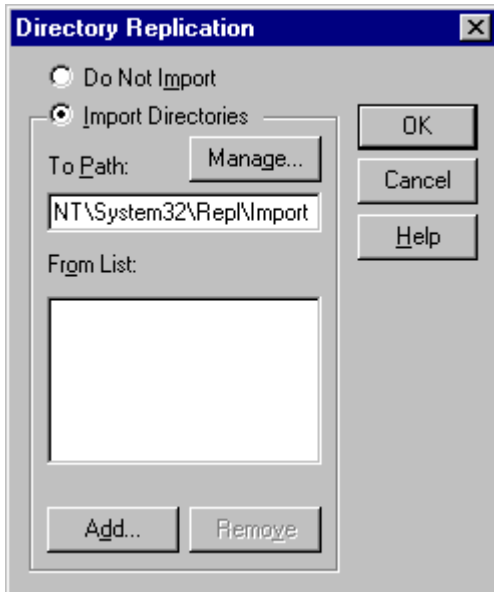
Configure the Directory Replicator Service on the TPS GUS Node

✓	Step	Action
	44	Logon to the GUS as the domain Administrator and select Start > Settings > Control Panel > Services to display the <i>Services</i> dialog box.
	45	<p>Select the Directory Replicator service.</p> 
	46	<p>Select the Startup button to display the <i>Service</i> dialog box.</p> 
	47	Set the Startup Type option to Automatic .
	48	Select the Browse button  to display the <i>Add User</i> dialog box.

✓	Step	Action
	49	<p>Select the TPSGUSRepl account.</p> 
	50	Select the Add button.
	51	Select the OK button to close the <i>Add User</i> dialog box.
	52	<p>Note that there is a Password shown in the <i>Service</i> dialog box. Delete the Password.</p> 

✓	Step	Action
	53	Delete the Confirm Password entry.
	54	Select the OK button to close the <i>Service</i> dialog box.
	55	Select the OK button in the <i>Service</i> information box.
	56	Select the Close button to close the <i>Services</i> dialog box.

Configure the Server Replication on the TPS GUS Node

✓	Step	Action
	57	<p>Select Start > Settings > Control Panel > Server on the TPS GUS Node to display the <i>Server</i> dialog box.</p> 
	58	<p>Select the Replication button to display the <i>Directory Replication</i> dialog box.</p> 
	59	Select the to Import Directories option.

✓	Step	Action
	60	Verify that the To Path is set to: \\winnt\system32\repl\import
	61	Select the OK button to close the <i>Directory Replication</i> dialog box.
	62	Select the OK button to close the <i>Server</i> dialog box.
	63	The TPS GUS node is now set up for replication.

Verify replication is working.

✓	Step	Action
	64	Logon to the PDC as administrator.
	65	Create a text (.txt) file using Notepad and save it to the \\winnt\system32\repl\export\HWIAC\databases\displays directory.
	66	At the GUS node, verify that the text file and the newly created directories were replicated. This may take a few minutes.