

# Upgrading From a Previous Version of Network Security

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## Before You Upgrade

Before starting your upgrade, you should be aware of the following:

- The following user profiles were renamed in Network Security 6:

<u>Previous version</u>	<u>Network Security 6</u>
POWERLOCKO	PTNSOWN
POWERLOCKA	PTNSADM

- The following authorization lists were renamed in Network Security 6:

<u>Previous version</u>	<u>Network Security 6</u>
POWERLOCKA	PTNSADM
POWERLOCKD	PTNSDTA
POWERLOCKP	PTNSPGM
POWERLOCKR	PTNSRPT

The upgrade process does not copy user profiles to the new authorization lists. You should copy your user profiles to the appropriate new authorization list before using Network Security 6.

- If you upgrade from Network Security 5.3, the license code is copied to Network Security 6 when you run the MRGPRVNS command (see Merging Rules from a Previous Version below). If you are upgrading from an earlier version of Network Security, contact PowerTech at [keys@powertech.com](mailto:keys@powertech.com) to request a new license code.
- If you used the Operations Navigator plug-in in a previous version of Network Security, Network Security 6 has been modified so that it no longer uses the plug-in.
- It is PowerTech's goal not to change system values on customer systems because we recognize that security-conscious organizations have rigorous change control processes in place for even small changes to system values. Therefore, we ask you to make any system value changes that are needed. However, the Network Security installation process could change a system value to allow the install to proceed if a system value is not set as specified below. If the Installation Wizard changes a system value during install, it changes it back to its original value when the install completes.

To install PowerTech Network Security on your system, the following system values that control object restores must be configured as shown.

- Set QALWOBJRST to \*ALWPGMADP (at a minimum) to allow the system to restore programs that adopt authority. Many PowerTech Network Security programs adopt the authority of the product owner, rather than forcing you to give authority directly to administrators and end users.

**Note:** The install will work if QALWOBJRST is set to \*ALL, but PowerTech does not recommend using this value.

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- QALWUSRDMN controls which libraries on the system can contain certain types of user domain objects. You should set the system value to \*ALL or include the name of the Network Security product library (PTNSLIB and QTEMP as a minimum) for the product to function properly.
- Set QVfyOBRST to 1, 2, or 3. This allows Network Security to restore all objects regardless of their signature. (**Note:** If you normally check signatures, remember to check this system value after the Network Security install process completes.)
- Set QFRCCVNRST (Force conversion on restore) to 0, Do not convert anything.
- Set QALWJOBITP (Allow jobs to be interrupted) to 1. This allows job to be interrupted to run user-defined exit programs. All new jobs that become active will default to be uninterruptible.

## Upgrading to Network Security 6

Upgrading to Network Security 6 is a three-step process:

1. Install Network Security 6
2. Merge information from the previous version (optional)
3. Activate Network Security 6

To upgrade Network Security, run the installation process to install Network Security 6 on your system. You install Network Security 6 directly from the PowerTech Web site, [www.powertech.com](http://www.powertech.com). The installation process is completely automated. Do the following to perform the installation:

1. Download the Network Security 6.0 Installer to your PC.
2. Double-click the .exe file to start the Installation Wizard. When prompted, enter the name of the system on which you want to install Network Security, a user ID, and password.
 

**Note:** Make sure the user profile is a member of the user class \*SECOFR and has at least the following special authorities: \*ALLOBJ, \*SECADM, \*JOBCTL, \*IOSYSCFG, and \*AUDIT. The user profile should have Limit capabilities set to \*NO.
3. The Wizard installs Network Security 6.0 on your System i and places a copy of the Administrator's Guide on your PC desktop. When the installation completes, click Finish to remove the Wizard from your PC.

The installation process displays the job log name, user, and job log number. Use the WRKSPLF command to display the job log for complete information on the Network Security install.

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To verify that Network Security installed successfully, enter the following command to display the PowerTech Network Security window, which shows the release and modification level of the product:

### PTNSLIB/LPRDVRM

```

PowerTech Network Security
Relmod . . . . . : R06M00
Relmod Date . . . . : 1100429

OS version. . . . . : V6R1M0

Serial number . . . : 1043D9D
Model . . . . . : 520
Processor feature : 7736
Logical partition : 7

Processor group . . : P20

Type . . . . . : 9406

F3=Exit  F12=Cancel
  
```

Network Security installs the following product libraries, profiles, authorization lists, commands, objects, and exit points on your system.

Installed on System	Description
2 Libraries	Product Libraries: PTNSLIB and PTWRKMGT
3 Profiles	<ul style="list-style-type: none"> <li>PTNSOWN, which has special authorities *ALLOBJ, *SECADM, *JOBCTL, *AUDIT, and *IOSYSCFG</li> <li>PTNSADM, which has no special authorities</li> <li>PTWRKMGTOW, which has no special authorities</li> </ul> <p><i>(All these profiles are set to Password *NONE so that they can't be used to sign on to the system.)</i></p>
Authorization Lists	<ul style="list-style-type: none"> <li>PTNSADM—PowerTech Network Security Administrators</li> <li>PTNSDTA—PowerTech Network Security Data Objects</li> <li>PTNSPGM—PowerTech Network Security Programs</li> <li>PTNSRPT—PowerTech Network Security Reports</li> </ul>
Commands	<ul style="list-style-type: none"> <li>WRKPTNS</li> <li>POWERLOCK</li> <li>PLNSREPORT</li> </ul> <p><b>Note:</b> The Network Security installation program places these commands in the PTNSLIB library. They are copied to QGPL when you activate Network Security.</p>
PowerTech-created Exit Points	<ul style="list-style-type: none"> <li>POWERLOCK_SECURESCN</li> <li>POWERLOCK_WRKMGT</li> <li>POWERLOCK_NS</li> </ul>

**Continued**

The installation program installs Network Security 6, but does not automatically import information from a previous version. The previous version exit programs remain active, allowing you to continue to use it as you become familiar with version 6 (as long as you do not activate Network Security 6).

Once you've familiarized yourself with Network Security 6, use the Merge previous NS (MRGPRVNS) command to merge rules from your previous version to version 6. You should review these rules and make any modifications necessary before activating version 6.

**Note:** Merging data from a previous version of Network Security does not automatically activate version 6. You must still run the activation process on Network Security 6 to start using it. See *Reactivating Network Security After an Upgrade*.

## Merging Rules from a Previous Version

Enter the following command on a command line to import rules from a previous version of Network Security:

### PTNSLIB/MRGPRVNS

```

Merge previous NS (MRGPRVNS)

Type choices, press Enter.

Existing NS library . . . . . *PRV _____ Name, *PRV, *NONE
New NS library . . . . . PTNSLIB _____ Name
Merge option . . . . . *NONE _____ *NONE, *FORCE

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
```

Merge previous NS (MRGPRVNS) command

**Continued**

Enter the following on the MRGPRVNS command:

### Existing NS library

The name of the previous version Network Security library from which to import data. Possible values are:

- \*PRV** Use the library name of the last active version of Network Security.
- \*NONE** Indicates there is no previous version of Network Security from which to import data.
- name* Enter the name of the library in which the previous version is installed. The Network Security version cannot be 6.

### New NS library

Enter the name of the library into which you installed Network Security 6. The data from the previous version will be merged into this library. The default library name is PTNSLIB; PowerTech requires that Network Security 6 (and later) be installed in PTNSLIB.

**Note:** The library name cannot be the same as the name specified in the Existing NS library field.

### Merge option

Allows you to specify an option for the merge process. This is useful if you've performed the merge already, and need to run it again. Possible values are:

- \*NONE** Indicates that no special options are specified; the merge process proceeds normally.
- \*FORCE** Indicates that the merge process should proceed, even if it has been run previously.

**Note:** Before upgrading, check the PowerTech product download Web page for any additional information.

## After You Upgrade

Upgrading and reactivating Network Security are separate processes. An upgrade installs the new Network Security software on your System i; reactivation activates the Network Security exit programs. If you upgrade the software, but do not complete the reactivation process, Network Security protection and auditing of the new version are not active. However, the auditing and access control of the old version are valid and still in effect unless you previously deactivated the exit programs (removed them from the exit points). When you complete both the upgrade and activation processes, Network Security 6 actively audits the network interfaces.

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# Reactivating Network Security After An Upgrade

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After you upgrade Network Security, you must reactivate the exit programs that interact with the servers on your System i. Do the following to activate Network Security 6 for the first time after the upgrade:

1. From the Network Security Main Menu, select option **81**, Configuration Menu.
2. On the Configuration Menu, select option **3**, Work with Activation, to display the Work with Activation screen.
3. The Work with Activation screen shows the servers that were activated in the previous version of Network Security with a Pending Change of \*ACTIVATE. To activate the servers, press F20, Run activation or F18, Add silent activation.

Reactivation stops and restarts your servers. You can use either the Silent method (performed during an IPL) or the Interactive method to activate the exit programs.

**Warning:** The Interactive method stops and starts your processes and servers when run the activation. You should plan to perform an Interactive activation at a time when stopping critical servers will not interfere with your business processes.

If you want to activate additional servers, use the Work with Activation screen to select the servers to be activated. See “Activating PowerTech Network Security” in the Network Security Administrator’s Guide for complete information on activation.

During exit program activation, Network Security modifies the values of the following parameters:

Parameter	Description	Before	After
DDMACC	DDM request access	*OBJAUT	PTNS0107
PCSACC	Client request access	*OBJAUT	*REGFAC

Activation copies the following Network Security commands to QGPL: WRKPTNS, POWERLOCK, and PLNSREPORT.

See the Network Security Administrator’s Guide for complete information on setting up and using Network Security 6.0.

**If you have any questions or problems, please call  
PowerTech Technical Support at 253-872-7788.**