Guide on performing an in-place upgrade from Novell NetWare 4.11 or 5.0 to NetWare 6.5

When to use this document

Whenever you want to upgrade from Novell NetWare 4.11 or NetWare 5.0 to Open Enterprise Server OES, keeping with NetWare (as opposed to SUSE Linux), which effectively means upgrading to the last version of NetWare, NetWare 6.5 SP8 (or NetWare 6.5.8).

You may, for example, want to preserve your investment in GroupWise, the best corporate email system around, and you may want to leverage your knowledge of NetWare rather than learn a whole new environment in SUSE Linux and you may not want to be involved in a costly migration to Windows servers (which can also run GroupWise).

Note : this guide can also be used to do an in-place upgrade from NetWare 5.1 server to NetWare 6.5 (OES 2.1) – simply use the relevant sections.

What you will need

Before you start the job, you should prepare it. Here is a list of everything you will need :

- **Spare server-grade hard disks.** The best strategy for any major job like this one is to have a way back, ie. to be able to put users back onto the old server if things do not work out, so you might as well time a replacement of your server's hard disks at the same time.

- **NetWare 5.1 SP7 Overlay CD.** You can get it at the following link if you need either the English or French version (for other languages search the Novell Downloads) :
  http://download.novell.com/protected/Summary.jsp?buildid=p5wwEpFReTA~

  Now, extremely important : the Novell Downloads have a 5.1 SP6 and a 5.1 SP8 overlay CDs - Do NOT use them. The 3 NetWare 5.1 overlay CDs are problematic at best, and nightmarish most of the time. The one that has the least bugs is the one we recommend here, the SP7 overlay CD.

- **NetWare 5.1 SP8 Overlay CD.** Despite everything said above, you will also need this CD – this will all be explained later :
  http://download.novell.com/Download?buildid=nkvkGTljwl4~

- **NetWare 6.5 SP5 Overlay CD.** You can get it at the following link (get the DVD download rather than the CD download – it's easier) :
  http://download.novell.com/Download?buildid=1O3kR60pbbk~

  Now, extremely important : the Novell Downloads have a 6.5 SP6 and a 6.5 SP8 overlay CDs - Do NOT use them. You can only upgrade successfully from 5.1 to 6.5 with the SP5 overlay CD – the other 2 overlay CDs will not work.

- **NetWare 6.5 SP6 Products Overlay CD**. There is no SP5 Products Overlay CD, it has been withdrawn by NetWare, so you need to use the SP6 Products Overlay CD which is backward compatible. You can get it here :
  http://download.novell.com/Download?buildid=6yr_wM-H9vI~

- **NetWare 5.1 Support Pack 8 CD.** Available here :
  http://download.novell.com/Download?buildid=4Ap0xKEAZO4~

- **eDirectory 8.7.3.3.** You can get it at the following link :
  http://download.novell.com/Download?buildid=NUBsf-ZwOaE~

- **The latest Hard Disk drivers (IDEATA.HAM)**. Download version 4.34, or later, of **IDEATA.HAM** and version 4.22, or later, of **IDEHD.CDM,** and version 4.13, or later, of **IDECD.CDM** from the web link below, unzip them, and then put them on a floppy disk (if your server has a floppy disk) or on a CD. Label the CD **NetWare 6.5 IDE Drivers**.
  http://developer.novell.com/devres/storage/drivers/#Novell

- **NetWare 6.5 Support Pack 8 DVD**. You can get it here :
  http://download.novell.com/protected/Summary.jsp?buildid=dpIR3H1ymhk~

- **Network card drivers compatible with NetWare 6.5**
  This is crucial – without a network card your server will not start properly and may become inoperable. Therefore make sure you have the NetWare 6.5 drivers for your network card. If this card does not have NetWare 6.5 drivers, then use the NetWare 5.0/5.1 drivers.

Make sure you have a way back

❒ As mentioned above it is crucial to have a way back in case things don't work out.

❒ **Take an image backup of your hard disk(s).** There are many good products out there that you can use to take images of a hard disk – after thorough evaluation of many of those products, we ourselves prefer the low-cost yet comprehensive products from **TeraByte Inc** (TeraByte.com), ***Image for DOS.*** Our recommendation is that you should buy Image for Windows which for $9 gives you *Image for Windows*, *Image for DOS*, *Image for Linux*, and a few other goodies.

Tip : IT professionals and IT departments – check out TeraByte's Image Technical Licence and Image Deployment Licence interesting offerings.

❒ While you are imaging your server load the **NetWare 5.1 SP8 Overlay CD** onto a Windows PC and copy the content of **C:\LICENSE\DEMO** folder onto a floppy disk or USB flash drive. You will need those two files later.

Upgrading to NetWare 5.1

It is not possible to upgrade directly from NetWare 4.11 or NetWare 5.0 to NetWare 6.5 as the minimum version level for an in-place upgrade is NetWare 5.1.

This means that your first task will be to upgrade your current version of NetWare to NetWare 5.1 through an in-place upgrade.

❒ Boot your NetWare 4.11/5.0 server.

❒ The first thing to do is to make sure that your **SYS** volume supports **long filenames** (by default the SYS volume does not support long filenames in NetWare 4.11 / IntraNetWare 4.11). You do this with the following command at the server console :

ADD NAME SPACE LONG TO SYS

❒ Next, close down all non-essential processes, such as all GroupWise console processes, Backup Exec or whichever backup program you use, and any other application you have running on the server console.

❒ Next, modify **AUTOEXEC.NCF**, the NetWare startup file, to make sure that **none** of the applications you just terminated (e.g. GroupWise, Backup Exec, etc..), will start when you reboot your server. You do this by running the **INSTALL.NLM** program on the server console, choosing *NCF File Options* followed by *Edit AUTOEXEC.NCF file*.

Two lines to remove right now are the ones that start the **AIO** and **AIOCOMX** NLMs. These belong to yesteryear and are no longer needed in 2009 and beyond.

To prevent a program from starting simply insert a semi-colon **(;)** at the beginning of the line in question. Save your changes.

❒ Run **DSREPAIR.NLM** to make sure there are no problems with Directory Services (eDirectory). Choose the *Unattended Full Repair* option. If DSREPAIR.NLM finds errors and repairs them, run it a second time to ensure you have no errors left.

❒ Run **CONFIG.NLM** to generate the CONFIG.TXT file (in Z:\SYSTEM) which will contain a full summary of your NetWare server.

❒ Copy CONFIG.TXT to the workstation that you will be working from. It is a good backup to have if you need to consult how your NetWare 4.11/5.0 server was configured prior to the upgrade.

❒ **Purge files.** Purge deleted files from all volumes. You can do that from a workstation with the **FILER.EXE** program (Z:\PUBLIC) or through the *Purge Files* on the right-click menu of Windows Explorer.

❒ Down your server and restart it to make sure it will restart without the main applications starting (e.g. Backup Exec, GroupWise, etc..).

❒ Down your server again and EXIT to DOS.

❒ Insert the **NetWare 5.1 SP7 Overlay CD** into the server's DVD drive (remember, **SP7**, not SP8).

❒ While in DOS make sure you backup the following files as the NetWare 5.1 installation CD has a habit of overwriting your carefully configured startup files with their own default installation versions :

AUTOEXEC.BAT
CONFIG.SYS
STARTUP.NCF (in the NWSERVER directory)

❒ Go into the DVD drive and run the **INSTALL.BAT** file.

❒ Choose to **Upgrade**. Make sure to specify the same installation directory that your current version of NetWare is installed in (necessary if you are performing an upgrade).

❒ The CD will then proceed to install software till it comes to a blue drivers installation screen. Take all the defaults and continue. If you get an error telling you that **ACPIDRV.NLM failed to load**, ignore it by clicking **NO** on the question asking you if you want to return to the Drivers Summary screen.

Note : Sometimes the installation will hang when trying to install **ACPIDRV.PSM** and the whole server freezes. If this happens then turn the server OFF, restart it, restart the **NetWare 5.1 SP7 Overlay CD** and deselect the **ACPIDRV** driver – this will allow the installation to continue.

❒ If you have a tape drive connected to this NetWare server, you will at some stage be prompted to choose to load one of NWASPI.CDM or NWTAPE.CDM. Choose **NWASPI.CDM**.

❒ Do NOT ignore the selection of a **network card** if the installation does not show one as otherwise you will not be able to login into your server. So make sure you do have a network card selected.

❒ At the end of the blue DOS interface, after the migration of NDS (Novell Directory Services) the server will load the GUI, the graphics interface.

❒ If you come from a version 4.11 environment you will get a DNS name configuration screen where you are asked to enter a hostname for your server. Make one up and continue. When you continue you will get the error shown below – ignore it by clicking **OK** :

> *We were unable to resolve the host name that you have entered. This can be caused by an invalid host name, a host name that hasn't been registered with your DNS, or other network or IP configuration problems. Hit CANCEL to change the values.*

❒ When you get to the **LICENSES** screen choose **Install without Licenses** (as you do not have any licenses for NetWare 5.1).

❒ **Cryptography Module.** The next stumbling block you will encounter is a screen where you will be asked : *Enter the location of the region-specific cryptography modules. These files can be found on the NetWare 5.1 License/Cryptographic diskette*. You then have the ability to browse for the cryptographic files (.NFK), with your A: drive (floppy drive) as the default location (A:\LICENSE\).

Since you do not have a NetWare 5.1 licence, you need to use the default NFK file which comes on the Overlay CD – however, not the Overlay CD you are currently using, but the next one up (SP8). **But that's OK because during the preparation phase you put those files onto a floppy drive or USB drive**. Therefore simply browse to that floppy/USB drive and click on the following NFK file : 30031341.NFK. You need to double-click on that 30031341.NFK file to select it.

❒ On the next screen you will get prompted for the components you want to install. Make sure you add at least the following :

NetWare FTP services
Novell DNS/DHCP Services

Note : there will be a long delay after you press **NEXT** to go to the next screen, so be patient.

❒ Take the defaults on the **Novell Certificate Server** screen.

❒ On the **LDAP Services for NDS Installation** screen choose **YES** to use LDAP unless you have LDAP enabled elsewhere on your server, in which case you need to make a decision as to whether you need it on this server.

❒ One the **NetWare Enterprise Web Server Settings** screen keep the defaults unless you have another server running on 443 and you need that port reserved for port forwarding.

❒ You will eventually come to a screen which states :

> *When attempting to setup NLS, 0x8901 was returned. After the install, run **SetupNLS.nlm**. Licenses can be installed later using the NetWare Administrator (nwadmn32.exe).*

Click OK and continue.

- ❒ The installation will now start copying files from the installation CD.

- ❒ If you are lucky (70% of the time), at the end you will get a completion screen telling you that the server will reboot after you press OK. Press OK. **If after 2 minutes nothing seems to have happened, press Ctr+Esc to go into the System Console. Once on the System Console screen you will probably notice that the cursor is somewhere in the middle of the screen rather than at the server name prompt. If so, Press ENTER and after a short while you will see a new blue screen continuing the File Copy. At the end of this second File Copy the server will start the shut down process and eventually reboot.**

  Now go to the next section : Upgrading to SP8 and eDirectory 8.7.3.3

  If you were not lucky and never got the completion screen, continue below ……

- ❒ At the end the installation will most probably freeze on 100% and you will be wondering about what is happening. **If you press Ctrl+Esc and go to the main screen (alternate screen) you will find one of the following error messages :**

  CCS.XLM : Initialization waiting for XMGR. (xx seconds)

  Module name is DOMXENG.XLM not NOVXENG.XLM

- ❒ When this happens, down the server by typing **DOWN** at the server console.

- ❒ When the server is back into DOS, go into the NetWare directory, typically **C:\NWSERVER**, rename NOVXENG.XLM to NOVXENG.OLD, and then copy **DOMXENG.XLM to NOVXENG.XLM**.

- ❒ Next, put a copy of the new **NOVXENG.XLM** into the **C:\NWUPDATE** folder.

- ❒ Next, make sure your AUTOEXEC.BAT and CONFIG.SYS have not been overwritten (they probably have been). So, using the backups. restore them to the way you want them and reboot.

- ❒ On reboot, use the **F8** function key to step through AUTOEXEC.BAT so that you can stop the booting process just before the server is about to boot into NetWare.

- ❒ Go into your DVD drive and start the installation again (by typing INSTALL), again choosing **UPGRADE**.

- ❒ You will unfortunately have to go through the same steps you went through originally but this time the upgrade will finish successfully except for 1 or 2 errors which will all be because at this point you do not have a 5.1 licence installed and as a direct result you do not have the cryptography module installed either.

Upgrading to NetWare 5.1 SP8 with eDirectory 8.7.3.3

- ❒ On reboot the first thing you should do is stop in DOS and restore AUTOEXEC.BAT and CONFIG.SYS from the backups you had made as the installation will have overwritten the ones you had before.

- ❒ The next task you should do is run **DSREPAIR.NLM** as at least 50 errors occur during the migration of Directory Services (eDirectory) from NetWare 4.11/5.0 to NetWare 5.1. Choose the *Unattended Full Repair* option. If DSREPAIR.NLM finds errors and repairs them, run it a second time to ensure you have no errors left.

- ❒ Next, insert the **NetWare 5.1 Support Pack 8** CD into the drive of one of the workstation, login to your NetWare 5.1 SP7 server, and copy the content of the SP8 CD to **Z:\SP8**.

  Note : if you upgraded from NetWare 4.11, as distinct from NetWare 5.0, then you should at this stage configure your workstation to have a static IP address that is on the same network as your upgraded server. The reason for this is that DHCP is completely different between versions 4.x and 5.x, so your NetWare 4.11 server will not have DHCP configured nor running yet – yet you will need a TCP/IP connection to the server being upgraded in order to test that GroupWise is still running fine at all stages of the upgrade.

- ❒ At the server console start **NWCONFIG**.

- ❒ Choose **Product Options**.

- ❒ Choose **Install a Product not Listed**.

- ❒ Browse to the **SYS:\SP8** folder and install Service Pack 8.

- ❒ When you get prompted as to whether you want the Support Pack installation to backup the files that will be replaced, **answer NO**. NetWare 5.1 is only a temporary stage in this upgrade so you have no need to backup some of its files since by the end of this process you will be on NetWare 6.5 anyway.

- ❒ **Answer YES** to the question asking you if you want to upgrade the Storage/LAN/PSM/WAN drivers currently in use.

- ❒ **Reboot at the end.** Note : even if you told the upgrade process to reboot the server at the end, what actually happens is that the server does a **DOWN** on the System Console screen and waits endlessly for you to say YES ! With this in mind, remember to switch to the System Console at the end of the SP8 upgrade process.

- ❒ On completion of the restart, check that Support Pack 8 installed correctly by typing **VERSION** at the System Console prompt.

- ❒ Next, login through a workstation and delete **Z:\SP8** now that you have successfully installed Support Pack 8.

- ❒ Run **DSREPAIR.NLM** again as at least 1 error usually occurs during the installation of Support Pack 8. Choose the *Unattended Full Repair* option. If DSREPAIR.NLM finds errors and repairs them, run it a second time to ensure you have no errors left.

- ❒ **Purge files.** Purge deleted files from all volumes. You can do that from a workstation with the **FILER.EXE** program (Z:\PUBLIC) or through the *Purge Files* on the right-click menu of Windows Explorer.

- ❒ Insert the **eDirectory 8.7.3 CD** in the DVD drive of the Windows workstation and copy its content to **Z:\eDir873**.

- ❒ At the server console start **NWCONFIG**.

- ❒ Choose **Product Options**.

- ❒ Choose **Install a Product not Listed**.

- ❒ Browse to the **SYS:\eDir873\NW** folder and install eDirectory **8.7.3.3**. Note : the installation of eDirectory 8.7.3.3 is a lengthy process which includes a file copying process through a DOS-like screen, a reboot, then logging into eDirectory, more file copying, then the GUI starting and then prompting you for specific answers, and then more file copying.

- ❒ On completion of the restart, check that eDirectory 8.7.3.3 installed correctly by typing **VERSION** at the System Console prompt.

- ❒ Next, login through a workstation and delete **Z:\eDir873** now that you have successfully installed eDirectory 8.7.3.3.

- ❒ **Purge files.** Purge deleted files from the **SYS** volume. You can do that from a workstation with the **FILER.EXE** program (Z:\PUBLIC) or through the *Purge Files* on the right-click menu of Windows Explorer.

The Final Stage
Upgrading to NetWare 6.5 SP5

- ❒ Run **DSREPAIR.NLM** again as at least 3 errors usually occur during the installation of eDirectory 8.7.3.3. Choose the *Unattended Full Repair* option. If DSREPAIR.NLM finds errors and repairs them, run it a second time to ensure you have no errors left.

❒ **Making sure NDS Tree, Organizational Unit, and Server Name are all different.** This part is extremely important : eDirectory 8.7.x and above does not allow any of these 3 objects to have the same name, unlike previous versions of Directory Services in NetWare 4.11, NetWare 5.0, and NetWare 5.1. Consequently, if two of the above 3 names are identical, you will need to change one of them and reboot your server. You can change the server name in **AUTOEXEC.NCF** (edit it through NWCONFIG).

If you do change then name of your server, immediately go into **ConsoleOne** and rename the two security entities called *SSL CertificateDNS - <your_old_server_FQDN>* and *SSL CertificateIP - <your_old_server_FQDN>*. You will see them in the right pane of ConsoleOne if you click on your main Organizational Unit (usually the company's name). Rename them so that the FQDN matches your new server FQDN (**F**ully **Q**ualified **D**omain **N**ame) – when you right-click and choose *Rename* what you should do will become obvious.

Next, if you have to change a name make sure to rerun **DSREPAIR.NLM**.

❒ Login to your 5.1 server from a workstation and copy your **NetWare 6.5 IDE drivers** to the following directory : **Z:\IDEDRV.**

❒ Next copy your **Network Card Drivers for NetWare 6.5 or NetWare 5.0/5.1** to the following directory : **Z:\NETCARD.**

❒ Put the **NetWare 6.5 SP5 Overlay CD** in the DVD drive of your server.

❒ Switch to the **NetWare X-Console (the GUI).**

❒ Click on the **Novell** button in the bottom left corner of the screen.

❒ Choose the **Install** menu option.

❒ Click **ADD**.

❒ Browse to the **NetWare 6.5 SP5 Overlay CD** and start the Install.

❒ The first thing the installation does after you've accepted the Licence Agreements, is to check if your server's current configuration conforms to NetWare 6.5 SP5's minimum standards. At this point it is very likely that you will get an error message from **PKIDiag.nlm.** If you do, read the message carefully and do exactly as per the suggestion from the install : run *PKiDiag* in its default mode and see what errors it throws up. Then run *PKiDiag* again and this time change the mode to **Fixing Mode** and have it attempt to fix the problems – it usually does. Once done, click OK on the error message, go back one step, and go back forward again to see whether the Installation Program throws up a new problem.

If you had to rename your server then the following items in **ConsoleOne** are the most likely to be the problems :

DNS AG <your_GroupWise_Outgoing_Hostname_+_server's_old_name>
IP AG <Your_server's_old_name>
SSL CertificateDNS - <Your_server's_old_name>

SSL CertificateIP - <Your_server's_old_name>

❒ Another issue to watch out for is a **TIMESYNC Failure.** If the pre-upgrade Configuration Check reports a *TimeSync Failure* you will not be allowed to proceed with the upgrade. This will typically happen if at the start of this process your server was a NetWare 4.11 server. Clearing this problem is easy. If you do not have the ***NetWare 5 Console Monitor*** running on the server console then start it up with **LOAD MONITOR** at the server prompt. On the main screen of the *Console Monitor* scroll down to Server Parameters and go into the option. Next choose the Time option. Then, if this is a single server, set the following TIMESYNC options as shown :

TIMESYNC Configured Sources	***ON***
TIMESYNC DEBUG	***7***
TIMESYNC Polling Count	***3***
TIMESYNC Polling Interval	***600***
TIMESYNC Synchronization Radius	***2000***
TIMESYNC Time Sources	***127.0.0.1;***
TIMESYNC Type	***REFERENCE***
Default Time Server Type	***SINGLE***
TIMESYNC Restart Flag	***On***

(this last setting restarts TimeSync with the above settings)

You are now ready to attempt the upgrade again.

❒ At some point you will be presented with a screen where you can tailor how the upgrade should perform. Here are the answers we suggest :

Do you want to backup the server boot directory files	:	***YES***
Specify the backup location	:	***Default***
Do you want to automatically reboot the system after the file copy completes ?	:	***YES***
Allow unsupported drivers *(You should answer this one YES because your server may currently be using network card drivers and other drivers that are no longer supported in NetWare 6.5 but which will still work – if you use the default NO answer and there are no drivers for a particular device you may run the risk of your server becoming disabled)*	:	***YES***
Specify the upgrade type	:	***Default***

❒ You will next be prompted to select the components that you want to install. At this stage do not add any additional components but do make sure that the **DNS/DHCP Management Tools** are selected.

❒ As the installation progresses you may get a warning windows telling you that a the installation procedure is unable to copy a particular file from your CD to the server hard drive. **Whenever this happens, click SKIP.** If you make the mistake of clicking RETRY thinking it will only retry that file, **you are mistaken !!!** This unbelievably buggy installation will actually try re-installing 28% of the installation, effectively everything that it installed before it hit the problem with **DirXMLLi.zip (or b57.lan)**. You've read it here – click **SKIP** !!!

- ❒ When you get prompted to insert the "NetWare 6.5 CD 2 (Products)", at this point you should in principle insert the **NetWare 6.5 SP6 Products Overlay CD** into the server. However, because you have an SP6 Products CD which is technically not matched with the SP5 Overlay CD that has just been running, this will not work. You can spend an entire day browsing to the SP6 Products Overlay CD, it just won't work. What you need to do is, using a workstation, copy NetWare 6.5 SP6 Products Overlay CD to **Z:\PROD65** and then from the server browse to **SYS:\PROD65**, and the installation will then continue smoothly.

- ❒ At the end the server will reboot.

- ❒ When it reboots interrupt the rebooting process at the DOS booting process and restore your AUTOEXEC.BAT and CONFIG.SYS files which will have just been overwritten by the NetWare 6.5 installation.

- ❒ Ctrl+Alt+Del to reboot your server.

- ❒ On reboot NetWare will start detecting your devices and go through the drivers installation process. You probably will get an error with the **ACPIDRV.PSM** driver – if you do, choose **NO** to the question asking you if you want to return to the Summary Screen.

- ❒ If *NetWare 6.5 SP5* does not recognize your network card on reboot, then install the drivers by pointing it to **Z:\NETCARD.**

- ❒ The next problem, if it occurs (if it does not then continue at **Install without License**), and a more worrying one, is that you will get an error indicating that **IDEATA.HAM** has failed to load. For the time being answer **NO** to the question asking you if you want to return to the Summary Screen.

- ❒ The server will go away and think for a little while and will then come back with the error window : **"No storage device was detected in this system. Load the appropriate driver (HAM). Press ENTER to continue."**.

- ❒ Press **Ctrl+Esc** to switch to the System Console.

- ❒ At the System Console type **LOAD SYS:\IDEDRV\IDEATA.HAM** to load the IDE drivers for your hard disks. Note : if your SATA drives are connected to a SATA RAID controller, then you probably will not need this stage as NetWare 6.5 will have already successfully loaded your RAID controller's drivers.

- ❒ Type **LOAD SYS:\IDEDRV\IDEATA.HAM** a second time in order to load the IDE drivers for the secondary SATA controllers on your motherboard.

- ❒ Press **Ctr+Esc** to return to the Hardware Detection screen (HDetect screen).

- ❒ Press **ENTER** on the error screen.

- ❒ Choose **CONTINUE.**

- ❒ When prompted for your licence, choose **Install without licenses**.

- ❒ Take the defaults for the **NMAS Login Methods** to install.
- ❒ At the end you should be prompted to restart the server.

Tidying up & Installing Service Pack 8 for NW 6.5

- ❒ Next, login through a workstation and delete **Z:\PROD65** and **Z:\NETCARD** now that you have successfully installed NetWare 6.5.
- ❒ Run **DSREPAIR.NLM** again as at least 1 errors usually occur during the installation of NetWare 6.5. Choose the *Unattended Full Repair* option. If DSREPAIR.NLM finds errors and repairs them, run it a second time to ensure you have no errors left.
- ❒ By this stage you will probably have spent 3 to 4 hours performing this upgrade, if not more. You may therefore want to consider **imaging your successful NetWare 6.5 upgrade** so that you do not have to go through all this again should something terminal open in the fine tuning pages which follow.
- ❒ You can now proceed to the installation of Service Pack 8 for NW65. At this stage you can either use the DVD that you prepared, you can copy that DVD to the server through a workstation (as the size of the service pack is 1GB, make sure you use a volume that has at least 3Gb of spare space – beware therefore of copying it to the SYS volume).
- ❒ At the server console start **NWCONFIG.**
- ❒ Choose **Product Options.**
- ❒ Choose **Install a Product not Listed.**
- ❒ Browse to the **<Server_Volume>:\NW65SP8** folder and install Service Pack 8.
- ❒ When you get prompted as to whether you want the Support Pack installation to backup the files that will be replaced, **answer NO** if you imaged your hard disk straight after NW65 SP5 was installed, otherwise only answer YES if you have more than 2GB of spare space on your SYS volume !!
- ❒ **Answer YES** to the question asking you if you want to upgrade the Storage/LAN/PSM/WAN drivers currently in use.
- ❒ **Reboot at the end.** Note : even if you told the upgrade process to reboot the server at the end, what actually happens is that the server does a **DOWN** on the System Console screen and waits endlessly for you to say YES ! With this in mind, remember to switch to the System Console at the end of the SP8 upgrade process.

- ❒ On completion of the restart, check that Support Pack 8 installed correctly by typing **VERSION** at the System Console prompt.

- ❒ Next, login through a workstation and delete **<Server_Volume>:\NW65SP8** now that you have successfully installed Support Pack 8.

- ❒ Run **DSREPAIR.NLM**. Choose the *Unattended Full Repair* option. If DSREPAIR.NLM finds errors and repairs them, run it a second time to ensure you have no errors left.

- ❒ If you use **Symantec Backup Exec** to backup your server, you will get an error after the installation of the service pack. This is because the service pack induces NW65 to autoload NWTAPE.CDM. To get rid of the error rename the **C:\NWSERVER\NWTAPE.CDM** file in the DOS partition of your server to prevent it from loading. Read this Symantec document to understand why you need to do this :
  http://seer.entsupport.symantec.com/docs/317733.htm

- ❒ **Purge files.** Purge deleted files from all volumes. You can do that from a workstation with the **NetWare Remote Manager** (using the *"Partition Disks"* option – click on each volume and choose *"Purge Deleted Files"*) or through the *Purge Files* on the right-click menu of Windows Explorer. To access the **NetWare Remote Manager** start a browser and browse to <Server_IP_address>:8009 (on some server you may have to use port 8008).

If you have GroupWise 6.x and you had to rename your server

If you run **GroupWise 6.x** and you had to rename your server during this procedure, then here are the various areas where you need to go and change the name of the server accordingly :

- ❒ Modify **EXEPATH.CFG** in the WPGATE\GWIA directory below your GroupWise domain directory and change the server name accordingly.

- ❒ Start **ConsoleOne.**

- ❒ Edit your **GroupWise Domain** record in the left pane and change the server name in the UNC path on the GROUPWISE tab.

- ❒ Edit your **GroupWise Post Office** record in the left pane and change the server name in the UNC path on the GROUPWISE tab.

- ❒ Edit your **GWIA** record (highlight your GroupWise Domain, modify the ConsoleOne view on the toolbar to show Gateways), go to the SERVER DIRECTORIES tab and change the name of your server accordingly for the *"SMTP Queues Directory"*. Also click on the ADVANCED tab to make sure there isn't an additional server path to change.

- ❒ Still on the GWIA go to the GROUPWISE \ LOG SETTINGS tab and if the path for the log files is not blank make sure the name of the server is updated there too.

- ❒ Repeat the above GWIA procedures for any other gateways you might have, such as an API gateway.

- ❒ Edit your **POA** record (change the ConsoleOne view on the toolbar to show Post Office Agents), go to the GROUPWISE \ LOG SETTINGS tab and if the path for the log files is not blank make sure you update the name of the server.

- ❒ Edit your **MTA** record (change the ConsoleOne view on the toolbar to show Message Transfer Agents), go to the GROUPWISE \ LOG SETTINGS tab and if the path for the log files is not blank make sure you update the name of the server.

- ❒ Edit the **Z:\SYSTEM\GRPWISE.NCF** file, the file that starts the GroupWise processes on your server. Make a note of the names of the configuration files for your POA and MTA (they are the names which follow the **@** symbol).

- ❒ Edit your POA and MTA configuration files to modify the name of your server.

- ❒ Edit **Z:\SYSTEM\GWIA.CFG** and update the name of your server wherever it appears.

- ❒ Check the menu option **Tools \ GroupWise System Operations \ Software Directory Management** to make sure the name of your server shows correctly there too.

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