

NT4 Service Pack 6

Microsoft has released SP6 for Windows NT 4.0. We explain what's new.

By PCNA Staff

At the end of October, Microsoft finally released Service Pack 6 for Windows NT 4. Quite how long the company will continue releasing fixes for NT4 once Windows 2000 (NT5) is out, no one is saying. It seems certain that we'll yet see an SP7, but all is vague after that. If you need to know that Microsoft will continue to fix all the bugs in your OS, now might be a good time to start thinking about switching to Windows 2000.

Anyway, back to NT4 SP6. You'll find it on the Web in the usual place (start at www.microsoft.com/nt-server or ntworkstation), and of course it's also on this month's CD-ROM. You can also order it from Microsoft on CD, though this will take time and many national Microsoft subsidiaries make a charge for this service. The file size is 34.5 MB - the same as SP5.

Note that the version of SP6 on your CD-ROM is the US English version for Intel, with standard encryption. If you want other languages, the DEC Alpha version, or the version with 128-bit encryption, you can get it from the Web.

So, should you install SP6 right away? It's certainly fairly stable, from reports we've seen. It's been in beta test among thousands of sites for a good few months. In fact, it's been in beta for so long that there were already some post-SP6 patches available on the Web before SP6 itself was officially released. There are, though, some reported problems, and we strongly suggest that you check the Microsoft Web site before you install SP6. For example, problems have been reported with `winspool.drv` and with some Compaq network cards.

Although SP6 fixes dozens of bugs, Microsoft says that none of the bugs is critical. If you stick with SP4 or 5, you won't be at any major disadvantage and there aren't (yet) any major applications that require SP6. So, whether

you install it is up to you. Our recommendation is that you do indeed install SP6, after testing it on one or two non-critical machines. If you don't install SP6, and you call Microsoft for support, the first thing you'll be told to do is install the latest service pack. So it makes sense to do that now, before anything goes wrong.

As before, SP6 is cumulative. It contains all the fixes in SP1 to SP5, as well as the new batch, so you can upgrade straight to SP6 from any other patch level of Windows NT.

What's Fixed?

Figure 1 lists what are, in our opinion, the most important fixes included in SP6 for the first time. The Q numbers relate to the Microsoft KnowledgeBase entry which describes each fix in detail. This article includes details of a selection of fixes, but many more are available in the KnowledgeBase. You can access it by going to support.microsoft.com/support/kb/articles/Qxxx/x/xx.asp, where xxxxx is the KB article number split into three sections. Alternatively, send a blank email to mshelp@microsoft.com with the Q number (including the Q) in the subject of the message. The article will be returned to you in an email message, though this can sometimes take up to 48 hours.

The full list of problems fixed for

the first time in SP6 can be found in two KnowledgeBase articles, Q241211 and Q244690. This combined list is around twice as long as that included in Figure 1.

We recommend that you spend some time looking through the list of fixes, either in the list here or on the Microsoft Web site. In our experience, there's a good chance that some will offer the solution to problems that have been affecting you and your users. NT is a complex product and the fact that there have been five service packs to date does not mean that it's now bug-free. That long-standing occasional crash on one of your machines may be down to a recently-fixed OS bug rather than an error on the part of yourself or one of your users, so it's worth taking advantage of the fixes.

Patterns

It's interesting to note that a number of SP6 fixes repair things that got broken by SP4. It makes sense, therefore, to go to SP6 if you're currently running your workstations or servers on SP4. If you're currently at SP5, then the urgency to install these new fixes is reduced. Note also that a fair number of fixes relate to problems caused in "stress" conditions. If you have servers which fall over during busy times, it's possible that SP6 will offer a solution.

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At this time of year you're probably busy dealing with any remaining Y2K problems, so now is not necessarily a good time to start patching network servers, making yet more work and introducing more uncertainty. However, once you are confident that your systems are stable, it's worth considering placing SP6 rollouts on the to-do list.

Note that there are some Y2K-related patches in SP6, though nothing critical. If you're keen to obtain the Y2K fixes now, but don't want to install full SP6, Microsoft has made the Y2K components available for separate download on its Web site. To install them you will require a machine running SP4 or later.

Details

The remainder of this article explains some of the more important fixes introduced in SP6. For details on any other fix, refer to the Knowledge-Base documents listed.

3Com EtherLink 905B driver updated.

There is a known bug with the 3Com EtherLink 905B network adapter driver prior to version 3.38.40.0. To avoid any incompatibility between SP6 and the 3Com driver, SP6 replaces this driver (and prior versions of the 3Com driver) with version 3.40.40.0.

Fixes for stress-induced issues.

SP6 includes fixes to a number of key files to improve performance and reliability in highly-stressed servers. Microsoft claims that these fixes were implemented as a result of the automated tests carried out routinely by the NT development team which push NT "beyond its normal limits".

Slow TCP/IP performance when reconnecting.

You may experience a delay when you attempt to re-establish a connection to a server right after you gracefully disconnect from the same TCP port on the server.

This problem occurs when the Transport Control Block (TCB) is in a "Timed_Wait" state, and is fixed by SP6.

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Cluster service issues event 1015.

After you install NT4 SP5 on a server configured with Cluster Server (MSCS), the cluster service logs an event in the System Event log every four hours, saying "Event 1015: No checkpoint record was found in the log file W:\MSCS\chkBC1.tmp, the checkpoint file is invalid or was deleted."

The error event is unnecessarily logged every four hours. This is a bug, and the events can be safely ignored. The problem is fixed in Service Pack 6.

NumLock key state not saved.

When you log off a computer (and you are not logged on as an administrator), the state of the NumLock key on your keyboard is not saved. Service Pack 6 fixes this.

DUN credentials cached incorrectly.

When you have Routing and Remote Access Service for NT4 installed, and you are using the Dial-Up Networking client to connect to a server, a dialog box requests the user's User ID and password for the server. In the same dialog box is the Save Password checkbox, which is intended to provide the user with the option to cache their security credentials if desired. However, the implemented client functionality actually caches the user's credentials regardless of whether the check box is selected or not.

This is a bug in NT SP5 and is fixed in SP6.

Novell print banner always printed.

Under NT4 SP5 on a computer running Client Services for NetWare (CSNW) or Gateway Services for NetWare (GSNW), the print banner is always printed, regardless of whether it is enabled or disabled in the CSNW

tool in Control Panel. This is fixed in SP6. Alternatively, you can work around the problem as follows:

Using NT Explorer, rename the NWPROVAU.DLL file located in the %SystemRoot%\System32 folder to a temporary file name.

Note that the file may be in use by Windows, so it may be necessary to end EXPLORER.EXE to rename the file. This can be done using Task Manager. If you end EXPLORER.EXE, the desktop disappears but Windows NT is still running. On the Task Manager's File menu, click New Task and start a Cmd.exe window. Rename the file, and then click New Task again to run EXPLORER.EXE.

If you created an uninstall folder for SP5 and your uninstall folder contains Service Pack 4, locate the NWPROVAU.DLL file in the %SystemRoot%\\$ntservicePackUninstall\$ folder, and then copy the file to the %SystemRoot%\System32 folder.

If you did not create an uninstall folder for SP5, locate the Service Pack 4 CD-ROM and copy the NWPROVAU.DLL file from the I386 folder on the CD-ROM to the %SystemRoot%\System32 folder.

Disk Full broadcast accessing Virtual CD-ROM.

Under NT4 SP5, all network clients may receive a "Volume <servername> is out of disk space" broadcast message when a client attempts to gain access to a folder representing a virtual volume on a multiple CD-ROM changer on your computer running Windows NT that has Microsoft File and Print Services for NetWare (FPNW) already installed.

Service Pack 6 partly fixes this. However, you also have to make some changes to the registry. After applying

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SP6, run Registry Editor (Regedt-32.exe). Drill down to the key HKEY_LOCAL_MACHINE, SYSTEM, CurrentControlSet, Services, FPNW, Parameters. On the Edit menu, click Add Value, and then add a value called DiskFullCriteria with a data type of REG_DWORD and a value of 0. Also add a key with a name of LowVolumeThreshold, a type of REG_DWORD, and a value of 0.

Restart the PC for the registry changes to take effect.

Memory leak can lose user profile.

If NT does not load the current user profile (local or remote) because of a low-memory condition, Windows issues a new default profile, losing the existing profile. Low-memory conditions can arise because of memory leaks in other programs. The problem is fixed in SP6.

Multiprocessor server hangs on connection request.

A multiple-processor server may stop responding when it receives a connection request from a Remote Access Services (RAS) client. This may occur with Windows 95 Dial-Up Networking (DUN) 1.3 and Windows NT 4.0 Workstation clients.

It happens because the Routing and Remote Access Services (RRAS) server locks and is unresponsive after a period of time. The Virtual Private Networking Adapter (NDISWAN) requests a spin lock, but the lock is already held. SP6 fixes the problem.

NTFS crash during writethrough caching.

When Writethrough is set for I/O requests to force cached data to disk and the IPX/SPX protocol is used, a deadlock may occur in NTFS. This

problem may also sometimes occur using other protocols. To fix it, apply Service Pack 6 or enable IPX/SPX NetBIOS.

Malformed header creates Denial of Service.

A specially-malformed header in a GET request can create a Denial of Service attack in the Web server and use all available memory, causing IIS to stop responding to any requests. The fix is to install SP6. There's also a standalone fix for this particular problem at www.microsoft.com/support/supportnet/overview/overview.asp.

Forward slash rejected by IAS profile tab.

The Internet Authentication Service Properties profile tab allows administrators to add vendor-specific attributes. When you try to add the Ascend-Data-Filter attribute, you are prompted for the attribute value. The correct value should look something like "ip in forward dstip 123.123.123/22". However, when you type the forward slash, the system beeps and will not allow you to enter this character.

To resolve this problem, install SP6.

Access denied if roaming profile saved to NetWare.

When you log off a computer run-

ning NT, an error message "The roaming profile could not be written to the server (error 5) Access Denied" is sometimes generated. This occurs if your profile path is configured for a Novell NetWare-compatible server and you do not have the Create permission to the parent folder containing your profile. If you modify the desktop during the login session and then log off without the proper permissions to the folder location of the current profile, the changes cannot be saved and the error message is displayed.

Service Pack 6 fixes this problem.

File access vulnerability in Personal Web Server.

When a user runs either Microsoft Personal Web Server or Microsoft FrontPage Personal Web Server on a computer running Windows 95 or 98, it may be possible for an unauthorized user to read or copy files from the host computer using a standard browser.

Personal Web Server is available as part of the NT 4.0 Option Pack (NTO), Windows 98, and Windows 95 OEM Service Release 2. The Personal Web Server included with the first two of these is affected, but the version included with Windows 95 SR2 is not.

The fix for this is included in SP6.

Bugs in Security Configuration Manager.

Several problems have been found when using the Security Configuration Manager MMC snap-in that ships with Windows NT 4.0 Service Pack 4. When using SCM to perform a system analysis, groups that have been configured to restrict membership are not being flagged when their membership violates the security attributes that have been set within SCM. When setting DACL properties on a folder to not inherit from its parent and then

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changing SACL properties on the same object, the DACL inherit property will change from "not to inherit" to "inherit". Also, after adding a registry key with SCM and then setting permissions on that key, the user is presented with file permissions rather than registry permissions.

The fix for all these bugs is included in SP6.

BIOS date value does not update on 1/1/2000.

When the Windows NT System Time value rolls over from 1999 to 2000, the Century Byte value stored in the

real time clock (RTC) is not changed until up to one hour later, when the time daemon writes out the date. This issue only affects systems with older BIOSes that do not automatically update the century byte on reboot.

When the computer is configured using the dual boot option, the other operating system may not handle this situation properly. This includes all versions of MS-DOS. Also, some computer hardware BIOS configurations detect this behaviour as an invalid date and present a query for the correct date. This may prevent a computer from restarting without user input.

Although this was fixed in SP5, the fix did not work correctly. A revised fix is included in SP6.

Problems with Security Configuration Editor.

While working with the Security Configuration Editor MMC snap-in, you might experience several problems with the user interface and handling. For example, you cannot look at service security in the results of a system analysis twice. The Service Security button is not calling the dialog box any more.

When you have modified the security of a service, it is shown as modified only the first time after analysis is run. If you look at a different service and then look at the modified service again, "Exclude from future configurations and analyses" is selected as if you did not change it.

After modifying a template, when you exit the Microsoft Management Console, you are prompted to save modifications to the current console, and also to the modified template. If you answer "Yes" to both questions (thus saving the modified template) and then re-run MMC and edit the template, the changes are lost. You have to save the template explicitly.

The problems occur because the snap-in is not setting internal status flags consistently. This is fixed in SP6.

Delay saving to server with many shares.

When you save a file from a program to a LanManager-based server, you may experience delays when the server has a high number of network shares. This delay only happens with office-style programs with complex file formats. Programs such as Notepad or Paint do not experience this problem. This problem occurs because, while saving the file, the LanManager network provider DLL enumerates all remote network shares because of a call to ShGetFileInfo. The fix is included in SP6.

PC hangs because of large environment variable values.

After adding an environment variable that contains a large number of bytes, the computer will sometimes

- Q102721 NT can't start because profile is missing or corrupt.
- Q173191 Inserting an Excel worksheet object may fail.
- Q179148 Settings may not be applied with URL with short filename.
- Q184232 DCOMCNFG saves incorrect display name in services.
- Q188352 ASP caching may cause "server too busy" errors and blank pages.
- Q193490 Cannot set Radius DSN on Alpha computer.
- Q193612 Log files rolled over according to GMT, not local time zone.
- Q194956 Forward slash incorrectly rejected by IAS profile tab.
- Q194957 Internet authentication service vendor-specific attributes do not work.
- Q195051 IAS does not log ascend attribute 255 correctly.
- Q197506 IAS incorrectly validates user accounts.
- Q215367 Geteffectiverightsfromacl() returns incorrect access mask value.
- Q216051 DCOMCNFG in NT4SP4 does not write .EXE name under hkcr\appid.
- Q216793 DHCP server stops leasing addresses if a sharing violation occurs.
- Q216913 BIOS date value does not immediately update on January 1, 2000.
- Q217763 File access vulnerability in personal Web server.
- Q218880 ASP request.Binaryread method causes 100% CPU utilization.
- Q218934 Multiple bugs in security configuration manager mmc snap-in.
- Q221196 Radius cannot re-establish a connection to ODBC data source.
- Q221497 RRAS: rip routing stops when system time is changed.
- Q221515 Delay when saving file to a server with high number of shares.
- Q221562 Office 97 crash in WINHLP32 when starting help if it's already running.
- Q222077 Access violation in RRAS when time service adjusts system time.
- Q222160 Security configuration editor has several UI problems.
- Q222164 DSMN fails to sync passwords when history is turned on in NetWare.
- Q222515 WIN16 api getfreespace returns zero on PC with more than 2 GB RAM.
- Q223137 IIS 4.0 log field may contain invalid constant time field.
- Q223275 NT hangs due to large system environment variable values.
- Q223281 Alternate file names not supported in NetWare redirector.
- Q223374 Installing SP4 automatically enables DHCP logging.
- Q223408 Scheduled logoff fails on locked PC with active screen saver.
- Q223437 NWRDR access violations in module nwslib.dll.
- Q223450 TCP initial retransmission timer adjustment added.
- Q223497 Logon error: user not granted the requested logon type.
- Q223791 Spooler service lpr monitor leaks memory with each event 2004 error.
- Q223863 Spooler service may leak memory attempting to close print processor.
- Q223997 Logon does not work on PCs with NT newly installed.
- Q224298 HTML page sent to a browser may be truncated.
- Q224345 Spooler may leak private bytes closing a remote printer.
- Q224547 Memory leak in routing and remote access service.
- Q224550 Crash in netbt.sys when parsing lmhosts file.
- Q224585 TCB hash function modified to improve network performance.
- Q224600 RPC crashes when de-referencing freed connection under stress.
- Q224837 DCOM clients ping server after client program has shut down.

Figure 1 - Fixes included in NT4 SP6.

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fail to restart. This happens because process start-up code for some system processes was only allowing 512 bytes of space for system variables, which caused memory to be overwritten. SP6 increases the figure to 4000 bytes. You should ensure that the total size of all environment variables, including the variable names, does not exceed this figure.

Some share names may not work correctly.

If you use one of the following names as a share name, some API operations on this share will fail: M, MA, MAI, MAIL, MAILS, MAILSL, MAIL-SLO, MAIL SLOT. While MAIL SLOT is a reserved name, the other share names are legal (regardless of case) and should not be rejected. This is fixed in SP6.

Scheduled logoff fails if screen saver on.

If a scheduled logoff occurs while a computer is logged on, but it is locked and a screen saver is active, then only a partial logoff occurs. The computer is left in a state where it has a blank desktop. Pressing CTRL+ALT+DEL still opens the NT security dialog box. This problem is cured in SP6.

Corruption on NTFS volume with 4m files.

When you create and delete files on an NTFS volume that holds more than 4 million files, you see file corruption that may show up in one of the following ways. Deleted files continue to be displayed on the drive. Files that you have not deleted are no longer accessible. A pop-up message is displayed reporting that corruption has been detected on the drive and requesting that you run CHKDSK.

This problem occurs when the Master File Table (MFT) has grown larger than 4 GB, which may happen when you have more than 4 million files on your computer. When you delete a file whose MFT entry is beyond the 4 GB point under these conditions, an error in calculations causes the wrong entry to be marked as available. If this entry contains information for another file, and new files are added to the volume shortly after the deletion occurs, the

entry could be re-used, causing the file it actually referenced to be lost. Service Pack 6 fixes this.

Media change on ATAPI CD-ROM not detected.

Windows NT does not detect a change in media when a FAT-formatted disk is removed from the drive. Even if another disk is inserted, both NT Explorer and the DIR command will continue to display the list of files from the first FAT-formatted disk.

If the first disk present is formatted with the NTFS file system, NT will correctly detect the change in media when the first disk is removed. Only FAT-formatted media display this problem.

After the FAT-formatted media has been inserted and replaced, the only way Windows NT can display the correct media contents is if the media is reformatted or the system is restarted. This problem occurs because the Atapi.sys driver, which is responsible for this device, does not handle media change detection on this hardware correctly. Applying SP6 will fix the problem.

Logon attempt fails on new installation of NT.

When you attempt to log on to a computer that has just had Windows NT installed, the following error message may be displayed: "The system cannot log you on because the system's computer account in its primary do-

Q224982	Crash and Stop message in win32k.sys.
Q225004	wsaemsgsize - error 10040 in winsock 2.0.
Q225251	MS-DOS application may cause stop: 0x0000001e.
Q225255	Some share names may not work correctly.
Q225333	CLUSVC.EXE hits 100% cpu utilization when doing group failover.
Q225503	MD-5 CHAP authentication does not work with SP4.
Q226369	NT does not detect media change on ATAPI cd-rom drive.
Q226487	IAS returns incorrect data during invalid logon attempt.
Q226513	NPFS leak when addjob api returns a named pipe.
Q226535	Access Denied error if roaming profile is saved to a NetWare server.
Q227880	Modifying TCP/IP fields may disable DHCP relay agent service.
Q228453	NBTSTAT -rr does not increment version ids on the WINS server.
Q228467	Access violation in LSASS.EXE when passing a null pointer.
Q228538	Stop 0x1e in rdr.sys when dormantfilelimit set to 0.
Q228543	Policy editor does not read SNMP communities correctly.
Q228597	DHCP server with deactivated scope sends a dhcpnak to clients.
Q228734	NT does not boot with highly-fragmented MFT.
Q228792	Crash in NTFS after changing disk on removable drive.
Q228845	Zone transfers are incomplete when deleting a delegation.
Q228942	NT4 SP4 may cause loss of tcp/ip connectivity in wlbs host.
Q229098	Appletalk does not always respond to zip queries.
Q229111	Clients running a different language version overwrite printer setting.
Q229607	File corruption on an NTFS volume with more than 4 million files.
Q229614	No error message if dragging from MS Exchange to NT Explorer fails.
Q229647	40-bit encryption added to French NT following legal changes.
Q229650	Crash in win32k.sys when running FINDFAST.EXE.
Q229804	Service pack appears to extract font files only.
Q229894	CSNW experiences delays opening files on the network.
Q230014	RRAS does not report domain name for users in accounting packets.
Q230157	Margins not correct with HP 4si printer in NT4 SP4.
Q230307	Slow performance in TCP/IP when reconnecting.
Q230677	Malformed phonebook entry security vulnerability in RAS client.
Q230681	DUN credentials cached when Save Password not selected with RAS.
Q230784	NTVDM may stop responding after quitting 16-bit programs.
Q231457	Malformed request causes lsa service to stop responding.
Q231605	Malformed help file causes help utility to stop responding.
Q231790	File sharing operations to a share on local computer may be slow.
Q231855	Wordpad may delete a file with read-only permissions while saving.
Q231934	Connecting to a local share using cached credentials fails.
Q231944	Num Lock key state is not saved when you log off.
Q231965	PPTP performance problems after applying SP4.

Figure 1 - Fixes included in NT4 SP6 (continued).

main is missing or the password on that account is incorrect.”

The problem may occur when you are updating to a service pack immediately after the initial Windows NT installation. This problem may also occur during the next logon to a computer if its account was deleted from and then added to the domain again.

This problem is caused by Netlogon.dll on the client computer. The update created to correct the problem must be installed on the client computer.

When an NT-based computer joins a domain during installation or a computer is added to the domain (or is re-added), a machine account is created on the primary domain controller (PDC). If the PDC is running Windows NT 4.0 Service Pack 4 or later, the new account is not replicated to backup domain controllers (BDCs) until the next scheduled Netlogon replication interval. Prior to Service Pack 4, the PDC would replicate all machine account updates immediately. When a domain user logs on or an auto-logon to the

domain is performed, the client computer establishes a session with either the PDC or one of the BDCs. If a BDC does not have the computer account in its database, it will return a “User Unknown” response to the client computer logon request. Upon receiving this response, the client computer stops processing the logon request and displays the above message.

Service Pack 6 fixes the problem. Microsoft also recommends that you view KnowledgeBase article Q142692, entitled “Minimizing WAN Traffic”.

Policy editor doesn't read SNMP communities correctly.

SNMP communities were enhanced in NT4 SP4 to include permissions for communities. Policy Editor (Poledit.exe) cannot read these permissions or community names correctly because of changes made in the registry to support community security.

To fix the problem, install SP6.

Q231976	Disk Full broadcast when accessing virtual CD-ROM folder.
Q232133	Crash with more than 200 ports in RRAS.
Q232230	Jobs not printed when print server is busy.
Q232343	XA transaction monitors may show inconsistent outcome.
Q232533	DTC log notification problem leaves transactions incomplete.
Q232559	Novell print banner always printed after applying SP5.
Q232710	Privileges not assigned if two groups or users start with same substring.
Q233323	Exceeding maxrequestthreads may crash NT.
Q233349	Cluster service issues event 1015 every 4 hours after applying SP5.
Q234255	Internet shortcuts with a URL do not work.
Q234325	Several problems fixed with updated DNS.EXE.
Q234339	Volume lock request does not release volume after operation.
Q234359	Structured storage code can go into an infinite loop.
Q234593	TCPIP.SYS hotfixes dated 28 April 99 to 28 May 99 replaced.
Q235250	I/O may be performed in the wrong place with files larger than 4 GB.
Q235295	Profile quotas do not respect excluded folders.
Q235445	Seven fonts not supporting the Euro currency symbol.
Q235543	File copy to Macintosh volume takes time.
Q235602	Client computers report problems connecting to server.
Q235614	Various fixes for stress-induced issues.
Q235677	NT ftp client may hang.
Q235700	ActiveX property pages may appear erased and hang program.
Q235899	Crash in smart card resource manager.
Q236024	Cannot use connection manager to log onto domain with RAS.
Q236128	Deleting the last user privilege deletes the group object.
Q236141	Selecting file path through multiple windows closes backup.
Q236359	Fix for denial of service attack using unprotected ioctl function call.
Q236360	Cluster server slows down or hangs when running resource monitor.
Q236813	The %homepath% and %homedrive% variables are incorrect.
Q236944	Write protect error occurs after program is run from floppy.
Q236954	Error message repairing NT after installing service pack.
Q237185	Access violation error when you quit phone dialer.
Q237425	Modem no longer dials after approximately two days.
Q238020	NNTP service converts two-digit years incorrectly.
Q238062	BDC promotion may be unsuccessful using server manager.
Q238171	RAS port becomes unavailable.
Q238244	Partition utilities do not recognize hard drive partitions.
Q238380	NT sometimes hangs at shutdown.
Q238631	NLM password change fails when password contains an ampersand.
Q238671	SP4 and SP5 enable automatic adjustment for daylight saving time.
Q238734	How to disable CHAP authentication.
Q238891	NT updated to support future processors.
Q240089	RRAS port becomes unavailable.
Q240195	NET user /times command does not work in year 2000.
Q241549	Callback numbers may not work properly.
Q242035	Printer pooling improvements.

Figure 1 - Fixes included in NT4 SP6 (continued).



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