

# Administrator's Guide

SYMANTEC.™

**NORTON**

**AntiVirus**

Version 2.0

# Norton AntiVirus™ for Windows® NT

## Administrator's Guide

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# Contents

## About Norton AntiVirus Administrator for Windows 95 and Windows NT

Compatibility and system requirements .....	6
Installation .....	7
Installing Norton AntiVirus Administrator .....	8
Customizing the network settings file .....	9
Preparing for Windows 95 distribution .....	10
Preparing for Windows NT distribution .....	10
Modifying login scripts .....	11
NetWare login scripts .....	12
Windows NT login batch files .....	12
Running NAV32UP.EXE from the desktop .....	12
Distributing virus definitions files updates .....	12
Disabling LiveUpdate from workstation installations .....	13
Distributing workstation options settings .....	14
Network settings file .....	15
_DEFALT32.NNS Options .....	18



# About Norton AntiVirus Administrator for Windows 95 and Windows NT

Norton AntiVirus Administrator enables you to distribute, configure, and update virus protection for the Windows 95 and Windows NT computers in your enterprise. You can manage the following operations from any workstation on the network:

- Install Norton AntiVirus on Windows 95 and Windows NT workstations on the network.
- Distribute new virus definitions files every month to the workstations to ensure protection against newly discovered viruses.
- Distribute administrator-specified options settings to workstations after Norton AntiVirus is installed.
- Distribute the LiveUpdate host file to workstations if you choose to use an Intranet FTP site and LiveUpdate for virus definitions files updates. See [“Distributing virus definitions files updates,”](#) on page 12 for more information.

Norton AntiVirus Administrator is a LAN-based product. If your enterprise has multiple LANs, install Norton AntiVirus Administrator at each site.

Norton AntiVirus Administrator consists of the following three major components:

- NAV32UP.EXE: The administrator program and its support files.
- \_DEFLT32.NNS: A network settings file to control distribution and updates.
- Norton AntiVirus software for Windows 95 and Windows NT.

The administrator program (NAV32UP.EXE), launched from the server, runs on any Windows 95 or Windows NT computer. Typically, it is run from a login script when a workstation logs in to the network. The program reads the network settings file (\_DEFLT32.NNS) and determines if Norton AntiVirus needs to be installed on the workstation, if virus definitions files need to be

updated, and if options settings require modification. NAV32UP.EXE reads the workstation registry to find the location of an installed Norton AntiVirus.

See the README.TXT file in the NAVNET32\NAVADMIN folder created during installation for troubleshooting tips and late-breaking information.

## Compatibility and system requirements

Norton AntiVirus Administrator has the following server, network, and user workstation requirements:

- **Server requirements**

The distribution server stores the administrator program (NAV32UP.EXE) and its support files, the network settings file (\_DEFAULT32.NNS), and the workstation versions of Norton AntiVirus software.

- 2.5 MB of disk space for the administrator program and its support files
- 6 MB of disk space for Norton AntiVirus for Windows 95 source files
- 6 MB of disk space for Norton AntiVirus for Windows NT source files

- **Network requirements**

You can distribute and manage Norton AntiVirus over almost any type of network, including the following:

- Novell NetWare 3.x and 4.x
- Windows NT 3.51 and above

- **User workstation requirements**

To run on user workstations, Norton AntiVirus requires the following:

- 486/33 CPU or better with at least 8 MB of RAM
- 7.7 MB of disk space

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**Note:** Under Windows NT only, administrator-level rights are required on the workstation to install; this is not a requirement for options or virus definitions distributions. If you are planning to use the Norton AntiVirus Administrator to distribute virus definitions updates or options settings only on Windows NT, be sure to disable the installation setting (InstallOnNT=0). See “[Network settings file](#),” on page 15 for more information.

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## Installation

The following list of operations summarizes what must be done to set up Norton AntiVirus distribution on a network. Each item is detailed in the remaining sections of this guide.

Required operations:

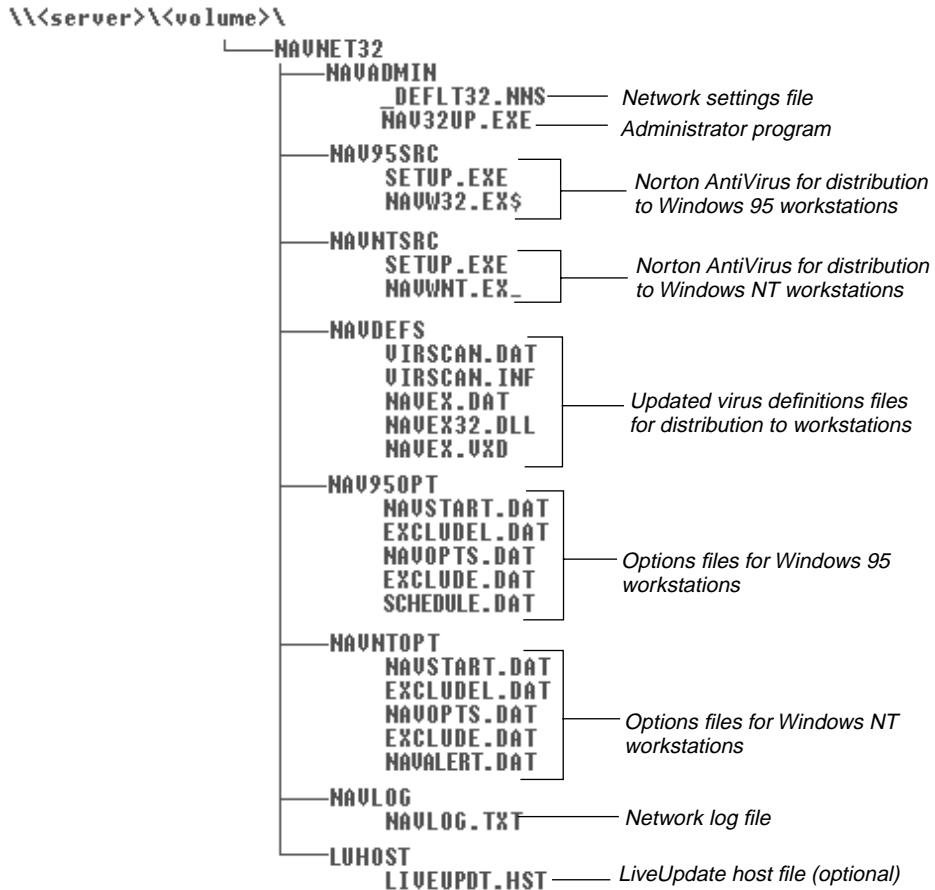
- Install Norton AntiVirus Administrator on the server.
- Copy Norton AntiVirus workstation files to the server for distribution.
- Modify the workstation login script to run the administrator program (NAV32UP.EXE).
- Give users proper access rights to network directories.
- Modify the network settings file that controls workstation install or update (\_DEFAULT32.NNS).

Optional operations:

- Distribute current virus definitions files (updated files are available monthly from Symantec at no charge).
- Disable the LiveUpdate feature on workstation installations if you prefer to distribute virus definitions files updates via the administrator. You must do this before the distribution of Norton AntiVirus to workstations.
- Distribute pre-configured workstation options settings files. You can configure and distribute options settings at any time.
- Distribute the LiveUpdate host file to workstations. You can distribute this file at any time.

The following diagram shows a typical installation on the server that includes both the required and the optional install operations. For clarity, only key files are shown in their respective folders.

## Norton AntiVirus Administrator installation on the server



## Installing Norton AntiVirus Administrator

### To install Norton AntiVirus Administrator:

- 1 Create a new folder on the server to store Norton Administrator. For example,

```
\\<server>\<volume>\NAVNET32
```

Users should have Read and File Scan rights in NetWare to this folder and Read rights in Windows NT.



- 2 Copy NAVADMIN.EXE, the self-extracting archive, from the \ADMIN\DISTRIB folder on the CD-ROM to the NAVNET32 folder on the server.
- 3 Double-click NAVADMIN.EXE in the NAVNET32 folder on the server to install the administrator.

The folder structure is created and the administrator files are extracted automatically.
- 4 Do the following, as appropriate:
  - Windows 95: Copy the files from the \NAV95 folder on the Norton Administrator CD-ROM to the \\<server>\<volume>\NAVNET32\NAV95SRC folder.
  - Windows NT: Copy the files from the \NAVNT folder on the Norton Administrator CD-ROM to the \\<server>\<volume>\NAVNET32\NAVNTSRC folder.
- 5 To enable workstations to write to the network activity log, users need the following access permissions:
  - Windows NT: Change
  - Novell NetWare: Read, Write, Erase, and Create
- 6 Customize the \_DEFLT32.NNS network settings file located in the \\<server>\<volume>\NAVNET32\NAVADMIN folder for your network.

## Customizing the network settings file

NAV32UP.EXE, the Norton AntiVirus Administrator program, reads setup information from the network settings file whenever it is run. The same network settings file is used for both Windows 95 and Windows NT. If you are distributing to only one of the platforms, you can ignore the settings for the other.

By convention, you copy the supplied file, \_DEFLT32.NNS, to a new name, such as CUSTOM.NNS, and modify and specify the copy to be run with NAV32UP.EXE in the workstation login file. If you have problems, you can always start over with the unmodified \_DEFLT32.NNS file.

At the very least, you must change the setting in the file that specifies the location of the Norton AntiVirus workstation software for distribution on the server. If you are using NAV32UP.EXE to distribute updated virus definitions files and workstation options settings, you must also specify the locations of the definitions folder and the options folder on the server. Similarly, if you

are planning to use the LiveUpdate Administration Utility, you must specify the LUHOST location. The other settings are appropriate for most environments and can be used without modification.

For best results, do not use long filenames (LFN). The Norton AntiVirus setup program will not run properly from an LFN folder on a Novell NetWare drive, or from a Windows NT network drive if short filename (SFN) aliases are turned off.

## Preparing for Windows 95 distribution

In the following procedure example, CENTRAL is the server and APPS is the volume.

### To customize the network settings file:

- 1 Copy \_DEFLT32.NNS to CUSTOM.NNS.
- 2 Open CUSTOM.NNS in a text editor.
- 3 Locate and change the following item to the folder path where you copied Norton AntiVirus for Windows 95 source files. Use UNC (Universal Naming Convention) paths, not mapped drives, when specifying folder paths. For example,

- Network95Dir="\\CENTRAL\APPS\NAVNET32\NAV95SRC"

If you plan to distribute updated virus definitions files (the same location is used for both Windows 95 and Windows NT):

- NAVDefDir="\\CENTRAL\APPS\NAVNET32\NAVDEFS"

If you plan to distribute pre-configured workstation options settings:

- OptionPath95="\\CENTRAL\APPS\NAVNET32\NAV95OPT"

If you plan to distribute the LiveUpdate Administration Utility host file (the same location is used for Windows 95 and Windows NT):

- LiveUpdateHostDir="\\CENTRAL\APPS\NAVNET32\LUHOST"

- 4 Save the modified file.

The remaining settings in the network settings file are entirely optional. See “[Network settings file](#),” on page 15 for a complete explanation of all options.

## Preparing for Windows NT distribution

Under Windows NT only, administrator-level rights are required on the workstation to install; this is not a requirement for options or virus definitions

distributions. If you are planning to use the Norton AntiVirus Administrator to distribute virus definitions or options settings updates only on Windows NT, be sure to disable the installation setting (InstallOnNT=0). See “[Network settings file](#),” on page 15 for more information.

In the following procedure example, CENTRAL is the server and APPS is the volume.

### To customize the network settings file:

- 1 Do one of the following:
  - If you are preparing a new network settings file for use with Windows NT only, copy \_DEFLT32.NNS to CUSTOM.NNS.
  - If you are modifying a network settings file already prepared for Windows 95, use your existing CUSTOM.NNS file.
- 2 Open CUSTOM.NNS in a text editor.
- 3 Locate and change the following item to the folder path where you copied Norton AntiVirus for Windows NT source files. Use UNC (Universal Naming Convention) paths, not mapped drives, when specifying folder paths. For example,
  - NetworkNTDir="\\CENTRAL\APPS\NAVNET32\NAVNTSRC"

If you plan to distribute updated virus definitions files (the same location is used for both Windows 95 and Windows NT):

  - NAVDefDir="\\CENTRAL\APPS\NAVNET32\NAVDEFS"

If you plan to distribute pre-configured workstation options settings:

  - OptionPathNT="\\CENTRAL\APPS\NAVNET32\NAVNTOPT"

If you plan to distribute the LiveUpdate Administration Utility host file (the same location is used for Windows 95 and Windows NT):

  - LiveUpdateHostDir="\\CENTRAL\APPS\NAVNET32\LUHOST"
- 4 Save the modified file.

The remaining settings in the network settings file are entirely optional. See “[Network settings file](#),” on page 15 for a complete explanation of all options.

## Modifying login scripts

NAV32UP.EXE, located in the NAVNET32\NAVADMIN folder on the distribution server, is the program that runs on Windows 95 and Windows NT workstations to determine and perform, if necessary, the Norton AntiVirus workstation install, upgrade, virus definitions files update, and workstation

options settings update. NAV32UP.EXE reads its network settings file (CUSTOM.NNS) whenever it is run. The most convenient method of loading the program on user workstations is from a network login script.

## NetWare login scripts

If you are using a Novell NetWare network, use UNC pathnames rather than drive mappings to run NAV32UP.EXE in the login script. This prevents possible problems that may occur if the drive mappings are changed later in the script.

```
#\\CENTRAL\APPS\NAVNET32\NAVADMIN\NAV32UP.EXE
      \\CENTRAL\APPS\NAVNET32\NAVADMIN\CUSTOM.NNS
```

## Windows NT login batch files

Under Windows NT, use a login batch file run when a user logs on to the network. The command line will look something like the following (enter the command all on one line):

```
\\CENTRAL\APPS\NAVNET32\NAVADMIN\NAV32UP.EXE
      \\CENTRAL\APPS\NAVNET32\NAVADMIN\CUSTOM.NNS
```

## Running NAV32UP.EXE from the desktop

If users at your site do not use login scripts, you can have users run NAV32UP.EXE by creating a shortcut to it and placing it in their Windows 95 or Windows NT startup folder. Don't forget to include the pathname for the network settings file as well.

## Distributing virus definitions files updates

Norton AntiVirus relies on current virus definitions to detect newly discovered viruses. Symantec provides updated virus definitions files monthly at no charge. Depending on your network environment, you can instruct your users in the use of the Norton AntiVirus LiveUpdate feature to let them get their own updates, or you can distribute the updates via the NAV32UP.EXE administrator program. See Chapter 4 in the Norton AntiVirus User's Guide for information on the LiveUpdate feature. See ["Disabling LiveUpdate from workstation installations,"](#) on page 13 if you want to disable the feature.

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**Note:** If you want users to use LiveUpdate, you can also set up an Intranet FTP server to handle all LiveUpdate operations for your network. Users connect to an internal server to retrieve updates instead of connecting to external Symantec servers. The Norton AntiVirus Administrator can distribute the required workstation configuration file (LIVEUPDT.HST). If you choose to do this, you must specify the LiveUpdate host file location in your network settings file (LiveUpdateHostDir= in the network settings file). See “[Customizing the network settings file](#),” on page 9. See the accompanying document that details use of the LiveUpdate Administration Utility (LUAU) for more information.

---

If you choose to distribute updated virus definitions files, you must specify the network definitions location in your network settings file (NAVDefDir= in the network settings file). See “[Customizing the network settings file](#),” on page 9 for directions.

The name of the virus definitions update file, which changes from month to month, uses the following form: *mmNAVyy.EXE*, where *mm* is the month and *yy* is the year (for example, 01NAV97.EXE).

### To install updated virus definitions files for distribution:

- 1 Download the virus definitions update file.  
See Chapter 4 in the Norton AntiVirus User's Guide for instructions on where to get the virus definitions update file.
- 2 Copy it to the \\<server>\<volume>\NAVNET32\NAVDEFS folder.
- 3 From a command prompt, extract the current virus definitions using the  
/DUMP switch. For example,  
01NAV97 /DUMP
- 4 Delete the self-extracting virus definitions update file (for example, 01NAV97.EXE) from the NAVDEFS folder.

The next time NAV32UP.EXE is run at login, the workstation virus definitions files will be updated.

## Disabling LiveUpdate from workstation installations

Whether or not the LiveUpdate button appears in the workstation installation of Norton AntiVirus depends on the presence of a particular DLL. If you do not want users to have LiveUpdate, you modify a setting in the INSTALL.INF

script that manages the Norton AntiVirus workstation installation. You must make this change before Norton AntiVirus is distributed.

**To disable the LiveUpdate feature from Windows 95 workstation installations:**

- 1 Open INSTALL.INF in a text editor.  
INSTALL.INF is located in the NAVNET32\NAV95SRC folder.
- 2 Locate switch92.
- 3 Change switch92 to FALSE.

**To disable the LiveUpdate feature from Windows NT workstation installations:**

- 1 Open INSTALL.INF in a text editor.  
INSTALL.INF is located in the NAVNET32\NAVNTSRC folder.
- 2 Locate switch85.
- 3 Change switch85 to FALSE.

## Distributing workstation options settings

You can permit users to customize their workstation installations of Norton AntiVirus, or distribute preset configurations. The Norton AntiVirus options settings can be password protected, if desired.

**To configure and distribute Norton AntiVirus for Windows 95 options settings:**

- 1 Install Norton AntiVirus for Windows 95 on a workstation.
- 2 Configure the workstation installations with the desired options settings. Set password protection if you do not want the options modified after installation.
- 3 Copy the following files from the workstation installation to the distribution folder on the server (NAVNET32\NAV95OPT).
  - NAVOPTS.DAT
  - EXCLUDE.DAT
  - EXCLUDEL.DAT
  - NAVSTART.DAT
  - SCHEDULE.DAT

By default, the workstation options files are found in the "C:\Program Files\Norton AntiVirus" folder.

- 4 If you are using the LiveUpdate Administration Utility and want to distribute the LiveUpdate host file, copy LIVEUPDT.HST to the NAVNET32\LUHOST folder on the server. The same file is used for Windows 95 and Windows NT.

### **To configure and distribute Norton AntiVirus for Windows NT options settings:**

- 1 Install Norton AntiVirus for Windows NT on a workstation.
- 2 Configure the workstation installations with the desired options settings. Set password protection if you do not want the options modified after installation.
- 3 Copy the following files from the workstation installation to the distribution folder on the server (NAVNET32\NAVNTOPT).
  - NAVOPTS.DAT
  - EXCLUDE.DAT
  - EXCLUDEL.DAT
  - NAVSTART.DAT
  - NAVALERT.DAT

By default, the workstation options files are found in the "C:\Program Files\NAVNT" folder for Windows NT 4.0 and "C:\WIN32APP\NAVNT" directory for Windows NT 3.51.
- 4 If you are using the LiveUpdate Administration Utility and want to distribute the LiveUpdate host file, copy LIVEUPDT.HST to the NAVNET32\LUHOST folder on the server. The same file is used for Windows 95 and Windows NT.

## **Network settings file**

\_DEFLT32.NNS is the supplied network distribution settings file. By convention, you copy the supplied file to a new name, such as CUSTOM.NNS, and modify and specify the copy to use on the command line with NAV32UP.EXE. If you have problems, you can always start over with the unmodified \_DEFLT32.NNS file.

The network settings file is used for both Windows 95 and Windows NT distributions. If you are distributing to only one platform, ignore the options that apply exclusively to the other platform. The table that appears after this default settings file defines each option.

## DEFLT32.NNS

```
;-----  
;--- Norton AntiVirus Administrator: Network Settings File ---  
;-----  
  
[Install/Update]  
  
;-----  
;--- Network Directories -----  
;-----  
;--- For Windows 95 ---  
Network95Dir=\\<server>\<volume>\NavNet32\Nav95src  
OptionPath95=\\<server>\<volume>\NavNet32\Nav95opt  
  
;--- For Windows NT ---  
NetworkNTDir=\\<server>\<volume>\NavNet32\NavNTsrc  
OptionPathNT=\\<server>\<volume>\NavNet32\NavNTopt  
  
;--- For both Windows 95 and Windows NT ---  
NAVDefDir=\\<server>\<volume>\NavNet32\NavDefs  
  
;Optional setting for the LiveUpdate Administration Utility  
LiveUpdateHostDir=\\<server>\<volume>\NavNet32\LUhost  
;-----  
;--- OPTIONAL CHANGES: Install Settings -----  
;-----  
;--- For Windows 95 ---  
NAV95Install=SETUP /S  
  
SilentReboot95=1  
RebootWaitTime95=30  
  
;--- For Windows NT ---  
NAVNTInstall=SETUP /B  
  
InstallOnNT=1  
InstallOnNTMsg=  
  
ForceRebootNT=0  
SilentRebootNT=1  
RebootWaitTimeNT=0
```



```

;--- For both Windows 95 and Windows NT ---
Verbose=0

ActivityLog=0
LogLocation=C:\NAVLOG.TXT
AppendToLog=0

;-----
;--- OPTIONAL CHANGES: Update Settings -----
;-----
;--- For Windows 95 ---
ActionAfterUpdating95=2

;--- For Windows NT ---
ActionAfterUpdatingNT=3

;--- For both Windows 95 and Windows NT ---
ScanAfterUpdate=0
ScannerCmdLine=/L

RetainSettings=0

;-----
;--- DO NOT CHANGE: Administrator Program Settings -----
;-----
NAV95File=navw32.exe
NAVNTFile=navwnt.exe
NAV95NetFile=navw32.ex$
NAVNTNetFile=navwnt.ex_
NAVDefFile=virscan.dat

NAV95OptFile=navopts.dat
NAVNTOptFile=navopts.dat

LiveUpdateHostFile=liveupdt.hst

[End]

;-----
;--- End of Network Settings File -----
;-----

```

## **\_DEFLT32.NNS Options**

Unless specifically noted in the following table, settings apply to both Windows 95 and Windows NT. If you are distributing to only one platform, you can ignore the options that apply exclusively to the other platform. Remember, under Windows NT only, administrator-level rights are required on the workstation to install; this is not a requirement for options or virus definitions distributions.

[Install/Update]

Configuration file heading (required)

### **Network Directories**

Network95Dir="\\server\volume\NAVNET32\NAV95SRC"

Windows 95: Location of Norton AntiVirus source files on the server for distribution to workstations (use a UNC path).

OptionPath95="\\server\volume\NAVNET32\NAV95OPT"

Windows 95: Location of Norton AntiVirus workstation options settings files on the server for distribution to workstations (use a UNC path).

NetworkNTDir="\\server\volume\NAVNET32\NAVNTSRC"

Windows NT: Location of Norton AntiVirus source files on the server for distribution to workstations (use a UNC path).

OptionPathNT="\\server\volume\NAVNET32\NAVNTOPT"

Windows NT: Location of Norton AntiVirus workstation options settings files on the server for distribution to workstations (use a UNC path).

NAVDefDir="\\server\volume\NAVNET32\NAVDEFS"

Location of updated virus definitions files on the server for distribution to workstations (use a UNC path). The same location is used for both Windows 95 and Windows NT.

LiveUpdateHostDir=\\<server>\<volume>\NavNet32\LUhost

Optional: Location of the LiveUpdate Administration Utility workstation configuration file. You only need to specify this location if you are distributing LIVEUPDT.HST. The same file is used for both Windows NT and Windows 95.

### **Install Settings**

NAV95Install="SETUP /S"

Windows 95: Command line to launch the Norton AntiVirus setup program on the workstation. Optional switches: /S is a silent install.

SilentReboot95=1

Windows 95: If set to 1 and ActionAfterUpdating is set to 1 or 2 (reboot), the computer will reboot after an install or update without providing any warning or notification to the user.

RebootWaitTime95=30

Windows 95: By default, Norton AntiVirus Administrator waits 30 seconds after execution is completed to reboot a computer. This delay permits all files to be copied and all processes to complete. If you are distributing to slow computers (such as 486/33s), you may need to specify this setting and increase the delay. The range for n is from 0 to 600 (in seconds). If you are distributing only to fast computers, you can decrease this value (for example, RebootWaitTime95=15).

NAVNTInstall="SETUP /B"

Windows NT: Command line to launch the Norton AntiVirus setup program on the workstation. Optional switches: /B is a Back Office install.

InstallOnNT=1

Windows NT: Determines what to do if an install is necessary on a Windows NT workstation. Under Windows NT, administrator-level rights are required on the workstation to install; this is not a requirement for options or virus definitions distributions.

If set to 1, Norton AntiVirus is installed. If set to 0, a message is displayed that reports an install is required. Set this to 0 if the workstations do not have administrator-level privileges and you are planning to use the Norton AntiVirus Administrator to distribute virus definitions or options settings updates only.

InstallOnNTMsg=

If InstallOnNT=0 (displays a message, but does not install), you can specify a custom message. Enclose the custom text within double quotes.

ForceRebootNT=0

Windows NT: If set to 1 and ActionAfterUpdating is set to 1 or 2 (reboot), the computer will reboot after an install or update without prompting the user or giving them the chance to save work in other applications. Workstations must have either administrator-level rights or the Shutdown privilege enabled.

SilentRebootNT=1

Windows NT: If set to 1 and ActionAfterUpdating is set to 1 or 2 (reboot), the computer will reboot after an install or update without providing any warning or notification to the user.

RebootWaitTimeNT=0

Windows NT: By default, Norton AntiVirus Administrator waits 30 seconds after execution is completed to reboot a computer. Under Windows NT, you can probably set this value to 0 and increase it only if problems are reported.

Verbose=0

Displays messages on workstations: 1=Yes, 0=No

ActivityLog=0

Activity Log: 1=Yes, 0=No. Records installation and update events. By default, the activity log is disabled. The log is intended for use as a debugging tool to resolve distribution problems and will not support use on a large network.

LogLocation="C:\NAVLOG.TXT"

Location of the activity log file. If the location is on a server, users need Change privileges under Windows NT, or Read, Write, Erase, and Create privileges under Novell NetWare. AppendToLog should also be enabled.

AppendToLog=0

Events are added to the log: 1=Yes, 0=No. If set to 0, the log is overwritten by each new event. This value should be set to 1 if the activity log resides on the server.

## Update Settings

ActionAfterUpdating95=2

Windows 95: After workstation update is completed.

0=Prompt that update is complete, no reboot

1=Reboot without prompting

2=Prompt to reboot

3=No reboot, no prompt to reboot

ActionAfterUpdatingNT=3

Windows NT: After workstation update is completed. Workstations must have either administrator-level rights or the Shutdown privilege enabled if set to 1 or 2.

0=Prompt that update is complete, no reboot

1=Reboot without prompting

2=Prompt to reboot

3=No reboot, no prompt to reboot

ScanAfterUpdate=0

Scan After Update: 1=Yes, 0=No

If set to 1, a scan is forced after a virus definitions files update (does not apply to new installs).

ScannerCmdLine= "/L"

Command-line options passed to the scanner after a virus definitions files update (does not apply to new installs). "/L" scans all local drives. See Appendix C, "Using command-line switches," in the Norton AntiVirus User's Guide for information on command-line options.

RetainSettings=0

Determines whether workstation options settings are retained: 1=Yes, 0=No. If set to 1, workstation options settings are not updated.

### Administrator Program Settings

NAV95File=navw32.exe

File tested to determine if an update is necessary. Do not change this setting.

NAVNTFile=navwnt.exe

File tested to determine if an update is necessary. Do not change this setting.

NAV95NetFile=navw32.ex\$

File tested to determine if an update is necessary. Do not change this setting.

NAVNTNetFile=navwnt.ex\_

File tested to determine if an update is necessary. Do not change this setting.

NAVDefFile=virscan.dat

File tested to determine if an update is necessary. Do not change this setting.

NAV95OptFile=navopts.dat

File tested to determine if an update is necessary. Do not change this setting.

NAVNTOptFile=navopts.dat

File tested to determine if an update is necessary. Do not change this setting.

LiveUpdateHostFile=liveupdt.hst

File tested to determine if an update is necessary. Do not change this setting.

[End]

Section ending (required)