

Enterprise Vault™ NSF Migration

14.0

Enterprise Vault™: NSF Migration

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Contents

Chapter 1	Introduction to Enterprise Vault NSF migration	5
	5
	About NSF migration	5
	Where to get more information about Enterprise Vault	5
	Enterprise Vault training modules	8
Chapter 2	NSF migration: scripted	9
	About scripted NSF migration	9
Chapter 3	NSF migration: wizard assisted	11
	About NSF migrator	11
	Outline of the NSF migration process	12
	About planning for NSF migration	14
	How to edit the welcome messages for NSF migration	15
	NSF file locations for NSF migration	16
	How to match NSF files to archives for NSF migration	16
	Standard mail templates for NSF migration	17
	NSF migration failed and ineligible items	18
	Item age limit for NSF migration	19
	Mail file limits and NSF file access control	19
	Users' execution control lists for NSF migration	20
	Multiple instances of NSF migrator	20
	How NSF migration affects users	20
	Running NSF migrator	21
	NSF migration audits	21

Introduction to Enterprise Vault NSF migration

This chapter includes the following topics:

- [About NSF migration](#)
- [Where to get more information about Enterprise Vault](#)

About NSF migration

Enterprise Vault lets you archive items from users' NSF files, using one of the following features:

- Enterprise Vault Policy Manager (EVPM), which lets you script the import of content from NSF files.
- NSF migrator, which provides a wizard driven approach to NSF migration.

This guide includes an overview of scripted migration using EVPM, and provides detailed information about NSF migrator.

Where to get more information about Enterprise Vault

[Table 1-1](#) lists the documentation that accompanies Enterprise Vault. This documentation is also available in PDF and HTML format in the [Veritas Documentation Library](#).

Table 1-1 Enterprise Vault documentation set

Document	Comments
Veritas Enterprise Vault Documentation Library	<p>Includes all the following documents in Windows Help (.chm) format so that you can search across them all. It also includes links to the guides in Acrobat (.pdf) format.</p> <p>You can access the library in several ways, including the following:</p> <ul style="list-style-type: none"> ■ In Windows Explorer, browse to the Documentation\language\Administration Guides subfolder of the Enterprise Vault installation folder, and then open the EV_Help.chm file. ■ On the Help menu in the Administration Console, click Help on Enterprise Vault.
<i>Introduction and Planning</i>	Provides an overview of Enterprise Vault functionality.
<i>Deployment Scanner</i>	Describes how to check the required software and settings before you install Enterprise Vault.
<i>Installing and Configuring</i>	Provides detailed information on setting up Enterprise Vault.
<i>Upgrade Instructions</i>	Describes how to upgrade an existing Enterprise Vault installation to the latest version.
<i>Setting up Domino Server Archiving</i>	Describes how to archive items from Domino mail files and journal databases.
<i>Setting up Exchange Server Archiving</i>	Describes how to archive items from Microsoft Exchange user mailboxes, journal mailboxes, and public folders.
<i>Setting up File System Archiving</i>	Describes how to archive files that are held on network file servers.
<i>Setting up IMAP</i>	Describes how to configure IMAP client access to Exchange archives and Internet Mail archives.
<i>Setting up SharePoint Server Archiving</i>	Describes how to archive documents from Microsoft SharePoint servers.
<i>Setting up Skype for Business Archiving</i>	Describes how to archive Skype for Business sessions.
<i>Setting up SMTP Archiving</i>	Describes how to archive SMTP messages from other messaging servers.

Table 1-1 Enterprise Vault documentation set (*continued*)

Document	Comments
<i>Classification using the Microsoft File Classification Infrastructure</i>	Describes how to use the classification engine that is built into recent Windows Server editions to classify all new and existing archived content.
<i>Classification using the Veritas Information Classifier</i>	Describes how to use the Veritas Information Classifier to evaluate all new and archived content against a comprehensive set of industry-standard classification policies. If you are new to classification with Enterprise Vault, we recommend that you use the Veritas Information Classifier rather than the older and less intuitive File Classification Infrastructure engine.
<i>Administrator's Guide</i>	Describes how to perform day-to-day administration procedures.
<i>PowerShell Cmdlets</i>	Describes how to perform various administrative tasks by running the Enterprise Vault PowerShell cmdlets.
<i>Auditing</i>	Describes how to collect auditing information for events on Enterprise Vault servers.
<i>Backup and Recovery</i>	Describes how to implement an effective backup strategy to prevent data loss, and how to provide a means for recovery in the event of a system failure.
<i>Reporting</i>	Describes how to implement Enterprise Vault Reporting, which provides reports on the status of Enterprise Vault servers, archives, and archived items. If you configure FSA Reporting, additional reports are available for file servers and their volumes.
<i>NSF Migration</i>	Describes how to import content from Domino and Notes NSF files into Enterprise Vault archives.
<i>PST Migration</i>	Describes how to migrate content from Outlook PST files into Enterprise Vault archives.
<i>Utilities</i>	Describes Enterprise Vault tools and utilities.
<i>Registry Values</i>	A reference document that lists the registry values with which you can modify many aspects of Enterprise Vault behavior.
<i>Help for Administration Console</i>	The online Help for the Enterprise Vault Administration Console.

Table 1-1 Enterprise Vault documentation set (*continued*)

Document	Comments
Help for Enterprise Vault Operations Manager	The online Help for Enterprise Vault Operations Manager.

For the latest information on supported devices and versions of software, see the Enterprise Vault [Compatibility Charts](#).

Enterprise Vault training modules

Veritas Education Services provides comprehensive training for Enterprise Vault, from basic administration to advanced topics and troubleshooting. Training is available in a variety of formats, including classroom-based and virtual training.

For more information on Enterprise Vault training, curriculum paths, and certification options, see <https://www.veritas.com/services/education-services>.

NSF migration: scripted

This chapter includes the following topics:

- [About scripted NSF migration](#)

About scripted NSF migration

Enterprise Vault Policy Manager provides the functionality that is required to run scripted migrations of content from NSF files to Enterprise Vault. For detailed information on Policy Manager, see the *Utilities* guide.

Policy Manager lets you control how each NSF file is processed. For each NSF file you can:

- Specify the destination archive.
- Choose to create shortcuts to migrated items.
- Control whether shortcuts are left in the NSF file or placed in a specific folder in the user's mail file.
- Specify the retention category to apply to the migrated items.

Note: Some Enterprise Vault features, such as the retention plan and classification features, can override the specified retention category. For example, suppose that you migrate items from an NSF file to an archive to which you have applied a retention plan. Depending on how you have configured the plan, the retention category that you have associated with it may override the retention category that you have specified with Policy Manager.

- Control what happens to the NSF file after the items have been migrated.

Policy Manager uses an initialization file, in which you make default migration settings and list the NSF files. You can also override the default migration settings for individual NSF files.

You can run Policy Manager in report mode or in process mode.

In report mode, Policy Manager checks each NSF file listed in the initialization file, to determine whether it can migrate the file's contents. Policy Manager creates a new initialization file, which contains a count of all the files that are not ready for migration. In the new initialization file, any NSF file which cannot be migrated is marked to exclude it when Policy Manager runs in process mode.

In process mode, Policy Manager migrates items from the NSF files listed in the initialization file. Policy Manager also writes a new initialization file when you run it in process mode, and marks the files it has processed successfully. You can use the new file to migrate any failed files when you have corrected the problems that prevented their migration.

If you want to migrate only a small number of NSF files, consider using NSF migrator instead.

See [“About NSF migrator”](#) on page 11.

NSF migration: wizard assisted

This chapter includes the following topics:

- [About NSF migrator](#)
- [Outline of the NSF migration process](#)
- [About planning for NSF migration](#)
- [How NSF migration affects users](#)
- [Running NSF migrator](#)
- [NSF migration audits](#)

About NSF migrator

NSF migrator is a wizard, which you can use to migrate the contents of Domino and Notes NSF files to Enterprise Vault.

The main features of NSF migrator are as follows:

- Selection of vault store. Each time you run NSF migrator, you can choose one vault store into which NSF file content is migrated.
- Matching NSF files to archives. You can configure NSF migrator to match NSF files to archives automatically. This automatic matching is useful when you migrate many NSF files. However, you can still manually match NSF files to archives.
- Selection of retention categories. NSF migrator asks you to choose a default retention category to use during the migration of NSF file content. However, you can still manually select a retention category for each NSF file.

Note: Some Enterprise Vault features, such as the retention plan and classification features, can override the specified retention category. For example, suppose that you migrate items from an NSF file to an archive to which you have applied a retention plan. Depending on how you have configured the plan, the retention category that you have associated with it may override the retention category that you have chosen in NSF migrator.

- Creation of shortcuts. NSF migrator can create shortcuts to migrated content. You can choose whether to create these shortcuts in the original NSF files or in user mail files. You can also configure the folder structure that is used to contain the shortcuts.
- Post-migration actions. You can configure what NSF migrator does with the NSF files it has migrated. For example, NSF migrator can automatically delete the NSF files.

Outline of the NSF migration process

This section describes the choices you must make on each page of the NSF migrator wizard.

Specify the directory computer

When you start NSF migrator from Windows, you must enter the name of the Enterprise Vault directory computer that manages the archives to which you want to migrate NSF file content. You do not have to specify the directory computer when you run NSF migrator from within the Administration Console.

Select a vault store

You can specify only one vault store each time you run NSF migrator. If you want to migrate NSF files to archives in more than one vault store, you must run NSF migrator again. If appropriate, you can run more than one instance of NSF migrator.

Select NSF files

Select the NSF files that you want to migrate. You must use only UNC paths to access the locations that hold the NSF files you plan to migrate.

Match NSF files to archives

Choose which method NSF migrator should use to match NSF files to archives. You can match NSF files to archives individually. Alternatively, NSF migrator can match NSF files to archives automatically, which it does by matching the mail file names in its archives with the owner property stored in each NSF file. This is the quicker option if you are migrating many NSF files. Even if you select this option, you can still manually match any NSF files that fail automatic matching, or change those that are matched.

Select a default retention category

Choose the default retention category that will be used when archiving items from the NSF files. Later in the wizard you can review and change the retention category for each NSF file if necessary. If there is no suitable retention category, you can create one at this point in NSF migrator.

Note the following:

- Some Enterprise Vault features, such as the retention plan and classification features, can override the specified retention category.
- This wizard lets you create retention categories that have a specified retention period, such as five years, but it does not let you create those that have a fixed expiry date, such as 31 December 2021. If you want to assign a retention category with a fixed expiry date, ensure that the retention category exists before you run the wizard.

Select archives

Even if you have chosen to match NSF files to archives automatically, NSF migrator may be unable to match all the files. At this point in NSF migrator, you can manually match NSF files to archives. If necessary, you can also change any that have been matched, or remove them completely if appropriate.

Select retention categories	By default, all content from the NSF files is migrated using the default retention category you selected earlier in the wizard. However, at this point you can choose different retention categories for individual NSF files. Some Enterprise Vault features, such as the retention plan and classification features, can override these retention categories.
Configure shortcuts	NSF migrator can create shortcuts to migrated content, and you can choose whether to create these shortcuts in the original NSF files or in user mail files.
Select a folder structure	You can configure the folder structure that is used to contain the shortcuts in user mail files. For example, for users who have more than one NSF file, NSF migrator can either merge their contents in one folder structure, or create a separate structure for each.
Configure deleted items and calendar items	Choose whether or not NSF migrator should migrate items from the Trash folder in each NSF file. If appropriate, you can also select the Archive calendar items that have not yet expired option.
Post-migration NSF file settings	Finally, you can configure what NSF migrator should do with the NSF files it has migrated. For example, NSF migrator can automatically delete the NSF files.

About planning for NSF migration

The following sections provide information to help you plan the migration of NSF files, including some tips to help you make the migration more efficient:

- [How to edit the welcome messages for NSF migration](#)
- [NSF file locations for NSF migration](#)
- [How to match NSF files to archives for NSF migration](#)
- [Standard mail templates for NSF migration](#)
- [NSF migration failed and ineligible items](#)
- [Item age limit for NSF migration](#)
- [Mail file limits and NSF file access control](#)

- Users' execution control lists for NSF migration
- Multiple instances of NSF migrator

How to edit the welcome messages for NSF migration

When NSF migrator completes the migration of each user's items, it automatically sends one of three messages to tell the user that the migration has finished.

Table 3-1 lists the three messages and describes the circumstances under which each is sent.

Table 3-1 NSF migration messages

Message	Subject and description
NSFMigratedMessage	Your NSF file (<i>{0}</i>) has been archived. NSF migrator sends this message to users whose items have been archived, when you have chosen not to create shortcuts to the migrated items.
NSFMigratedMessageMailFile	Your NSF file (<i>{0}</i>) has been archived. Shortcuts to the items are in <i>{1}</i> . <i>{1}</i> represents the name of the folder that contains the shortcuts. NSF migrator sends this message to users whose items have been archived, when you have chosen to place shortcuts in their mail files.
NSFMigratedMessageNSF	Your NSF file (<i>{0}</i>) has been archived. Shortcuts to the items are in the NSF file. This message is sent to users whose items have been archived, when you have chosen to place shortcuts in the NSF file.

In all three messages, *{0}* represents the name of the NSF file.

These three messages are in a file called `EVMessages.nsf`. This file is in the `\Languages\Mailbox Messages\lang\` folder in the Enterprise Vault program folder, for example `C:\Program Files (x86)\Enterprise Vault\Languages\Mailbox Messages\lang\`, where *lang* represents your language.

The three messages contain placeholder text and you can edit this text if necessary. You should edit the messages in `EVMessages.nsf` using an account that has the **Access to current database** permission, to avoid execution security alerts.

Once you have edited the messages, save `EVMessages.nsf` and copy it to the Enterprise Vault program folder, for example `C:\Program Files (x86)\Enterprise Vault`, on all the Enterprise Vault servers.

NSF file locations for NSF migration

It can be time-consuming to migrate NSF files that are in many locations, due to the overhead of locating them before you can add them to the list for migration. Consider moving all the NSF files to a central location before you run NSF migrator, so they can all be added to the list in one operation.

Note: You must use UNC paths to access the locations that hold the NSF files you plan to migrate. This is because the background server process that migrates the content of NSF files is not necessarily on the same computer as the one on which you run the NSF migration wizard.

How to match NSF files to archives for NSF migration

The following procedure describes how to use NSF migrator efficiently when you need to match large numbers of NSF files to archives that are spread across multiple vault stores:

- Run NSF migrator and select the first vault store.
- Add all the NSF files that you plan to migrate, including those that may not have matching archives in the vault store you chose.
- Select the **Automatically assign archives to NSF files** option.
- Later in the wizard, NSF migrator displays all the NSF files that have not been matched in red. In this list, click the **Destination archive** column heading to group all the NSF files with no matching archive.
- Select all these NSF files and click **Remove**.
- When NSF migrator asks what you want to do with the NSF files that it migrates successfully, select either the **Delete it** option, or the **Hide it** option.

NSF migrator then hides or deletes the NSF files it has migrated successfully. If your operating system is configured to hide hidden files, they are not visible when you next run NSF migrator. Once you have repeated this process for all your other vault stores, any NSF files that are left are only those for which automatic matching did not work. You can investigate these files individually and select appropriate archives when you run NSF migrator again.

Standard mail templates for NSF migration

All NSF files are based on Domino templates. You can use NSF migrator to migrate any NSF files that are based on a list of Domino templates defined in a registry value. NSF migrator treats the templates in this registry value as standard mail templates. For any NSF file that is based on any other Domino template, NSF migrator warns that unexpected results can occur if you continue to migrate the file. However, you can continue and migrate the file if you are sure that it is a mail-based file.

The list of standard templates is determined by a registry string value called `DominoMailTemplates` under the following registry key on all the storage servers:

```
HKEY_LOCAL_MACHINE
  \SOFTWARE
    \Wow6432Node
      \KVS
        \Enterprise Vault
          \Agents
```

[Table 3-2](#) contains the default list of the Domino mail templates that NSF migrator treats as standard. If you regularly migrate NSF files that are based on templates that are not in this list, and you do not want to be warned that the files are not based on standard templates, you can add the template names to the comma-separated list in `DominoMailTemplates`. You must do this on all the storage servers.

Table 3-2 Standard mail templates

Template name	File name	Description
dwa7	dwa7.ntf	Domino Web Access (7)
EVdwa7	ev_dwa7.ntf	Domino Web Access (7) w/ Enterprise Vault
EViNotes6	ev_iNotes6.ntf	Domino Web Access (6) w/ Enterprise Vault
EVR6Mail	ev_mail6.ntf	Mail (R6) w/ Enterprise Vault
EVR7Mail	ev_Mail7.ntf	Mail (R7) w/ Enterprise Vault
EVR8Mail	ev_mail8.ntf	Mail (R8) w/ Enterprise Vault
EVR85Mail	ev_mail85.ntf	Mail (R85) w/ Enterprise Vault
EVR9Mail	ev_mail9.ntf	Mail (R9) w/ Enterprise Vault

Table 3-2 Standard mail templates (*continued*)

Template name	File name	Description
ExtR50Mail	mail50ex.ntf	Extended Mail (R5.0)
ExtR6Mail	mail6ex.ntf	Extended Mail (6)
ExtR7Mail	mail7ex.ntf	Extended Mail (R7)
iNotes5	inotes5.ntf	iNotes Web Access (R5)
iNotes6	inotes6.ntf	Domino Web Access (6)
iNotes60	inotes60.ntf	iNotes Web Access (R6.0)
StdR50Mail	mail50.ntf	Mail (R5.0)
StdR6Mail	mail6.ntf	Mail (R6)
StdR7Mail	mail7.ntf	Mail (R7)
StdR8Mail	mail8.ntf	Mail (R8)
StdR85Mail	mail85.ntf	Mail (R8.5)
StdR9Mail	mail9.ntf	Mail (R9)

NSF migration failed and ineligible items

By default, NSF migrator leaves failed and ineligible items, and shortcuts in the NSF files, rather than move them to users' mail files.

You can control this behavior with the following registry DWORD values:

- MoveFailedArchivalNotes
- MoveNotEligibleForArchiveNotes
- MoveShortcutsToMailFile

All these values are under this key:

```
HKEY_LOCAL_MACHINE
\Software
\Wow6432Node
\KVS
\Enterprise Vault
\Agents
```

All these values are set to 0 by default.

When `MoveFailedArchivalNotes` is set to 1, NSF migrator moves failed items to users' mail files.

When `MoveNotEligibleForArchiveNotes` is set to 1, NSF migrator moves ineligible items to users' mail files.

When `MoveShortcutsToMailFile` is set to 1, NSF migrator moves shortcuts to users' mail files.

Item age limit for NSF migration

By default, NSF migrator processes all items in NSF files irrespective of their age. This applies both to items converted to shortcuts, and to other items that are moved to mail files, such as items that are not eligible for migration.

You can control this behavior by specifying an age threshold, as a number of days, in two registry DWORD values, `ShortcutMoveRestrictDays` and `NotesMoveRestrictDays`. Both values are under this key:

```
HKEY_LOCAL_MACHINE
  \Software
    \Wow6432Node
      \KVS
        \Enterprise Vault
          \Agents
```

Both values are set to 0 by default, which means no threshold is set. To set thresholds, change the DWORD values to a number of days.

When `ShortcutMoveRestrictDays` is set to a non-zero value, NSF migrator migrates all eligible items and creates shortcuts. Initially, all the shortcuts are in the NSF file. NSF migrator does not move the shortcuts to items older than the specified number of days, from the NSF file to the mail file.

When `NotesMoveRestrictDays` is set to a non-zero value, other items, such as those ineligible for migration, are moved to mail files only if they are within the number of days specified. Otherwise, they remain in the NSF files.

Mail file limits and NSF file access control

Each user's maximum mail file size must be sufficient for the mail file to contain the shortcuts and other items that NSF migrator places in it. If it is not, the migration fails for this file. You should ensure that mail file limits are set appropriately before migration. However, if any NSF files fail migration for this reason, you can note the affected mail files, adjust their limits and process the files again.

The Domino archiving user must have sufficient access rights on the NSF files you migrate, otherwise the affected NSF files fail migration. For more information on configuring the Domino archiving user, see the *Installing and Configuring* guide.

Users' execution control lists for NSF migration

During migration, NSF migrator potentially creates new folders in users' mail files and, as a result, certain actions on these folders are signed by the Domino archiving user. To prevent users seeing execution security alerts when they open the new folders, you must configure affected users' execution control lists to allow **Access to current database** rights to the Domino archiving user.

Multiple instances of NSF migrator

You can run more than one instance of NSF migrator.

How NSF migration affects users

This section contains a summary of the changes users see once their NSF files have been migrated.

Immediately following successful migration of each NSF file, its owner receives an automatic message saying that the file's content has been migrated to Enterprise Vault.

If you chose to create shortcuts to migrated items, it is these shortcuts that the users now see rather than the original items. According to the choices you made, the shortcuts are either in their original NSF files or beneath the **Folders** view in their mail files.

In the case of shortcuts that are created in user mail files, each user sees one of two folder structures beneath the **Folders** view:

- One combined folder structure that contains the content from all the user's NSF files.
- A set of folders, named after each of the NSF files. Each folder contains the content from just one NSF file.

If you chose to delete NSF files after successful migration, these files are no longer available to users.

Running NSF migrator

Before you run NSF migrator for the first time, consider migrating just a small number of files until you are familiar with the process. Once you are comfortable with the process, migrate more files.

Before you run NSF migrator, ensure that:

- The NSF files you are migrating are not in use.
- The Vault Service account has full access to the NSF files.

To run NSF migrator:

- 1 In the left pane of the Administration Console, right click **Archives** and click **Import NSF**.

You can also start NSF migrator by clicking the **NSF Mail Migrator (Import)** shortcut in Windows.

- 2 Work through the wizard pages and select appropriate options.

NSF migration audits

If you have configured Enterprise Vault auditing and selected one or both of the **NSF Migration** auditing options, successful NSF migration actions are audited.

See “Auditing” in the *Administrator’s Guide*.