

# VMware View User Profile Migration

View 5.1

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# VMware View User Profile Migration

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*VMware View User Profile Migration* describes how to use the View profile migration command-line utility to migrate Windows XP user profiles, which support the Windows V1 profile format, to Windows 7 user profiles, which support the V2 format.

## Intended Audience

This information is intended for View administrators who want to migrate V1 profiles on physical computers or virtual desktops to V2 profiles in a View environment. The information is written for Windows system administrators who are familiar with XML and the View Persona Management feature.



# User Profile Migration Overview

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The standalone command-line utility, `migprofile.exe`, migrates V1 user profiles, supported by Windows XP, to V2 user profiles, supported by Windows 7. The utility is intended for users who are migrating from Windows XP computers in any physical or virtual environment to Windows 7 virtual desktops in a View environment.

After you migrate the user profiles, the View Persona Management feature integrates the V2 profiles on Windows 7 View desktops. When users log in to their new desktops, they are presented with the same personal settings and data that they used on Windows XP.

You can migrate V1 profiles from the following source locations:

- Remote profile repository on a CIFS network share.

The utility can migrate multiple remote V1 profiles to V2 profiles on the same CIFS network share or a different CIFS share.

- User's local V1 profile on a Windows XP computer.

The utility can migrate a single local profile on a computer. To migrate multiple users' local profiles, you can write a script that directs the utility to execute in batch mode.

The source Windows XP environment can comprise physical computers or virtual machines. The source environment does not have to be configured with a remote profile management solution such as View Persona Management or Windows roaming profiles. If no remote profile management solution is in place, you must specify users' local V1 profiles as the source profile paths.

The profile migration utility has the following features:

- The destination of the migrated V2 profiles must be a remote profile repository that resides on a CIFS network share. In View, this CIFS path must be configured as the View Persona Management remote profile repository.
- You run the migration tool as a standalone utility. View components do not have to be running during a profile migration.
- The migration utility performs a one-time migration of user profile data and registry settings.

The utility does not merge V1 and V2 profiles after the V2 profiles are created. If users continue to use their Windows XP computers after the migration, the new V1 profile data that is generated on their legacy computers remains separate from the migrated V2 profiles.

- You can control the source and destination of the migration, and specify which folders and registry keys to migrate, by using command-line arguments and configuring settings in a migration configuration file.

This chapter includes the following topics:

- [“Best Practices for Running a V1 to V2 Profile Migration,”](#) on page 8
- [“Prerequisites for Running the Profile Migration Utility,”](#) on page 8

- [“migprofile.exe Command Usage,”](#) on page 8
- [“Migration Configuration File,”](#) on page 10

## Best Practices for Running a V1 to V2 Profile Migration

Following best practices ensures the success of a profile migration.

- In View, configure Windows 7 desktops for your users before you begin the profile migration. Configure View Persona Management for the desktop pools.  
In particular, configure a CIFS network share as the View Persona Management remote profile repository. The CIFS network share will be the destination path in the migration.
- In general, run the migration utility on a Windows 7 32-bit system, because most V1 profiles are 32-bit.
- If you can, run the migration utility on the same template or virtual machine image that the destination View pool will use. Folders and files in the base image's default profile are then migrated to the V2 user profiles.
- If a user must continue to use the legacy Windows XP system after a migration, configure redirected folders for both the legacy Windows XP system and the Windows 7 View desktop. This approach allows the user to access files from both systems.

## Prerequisites for Running the Profile Migration Utility

Before you run the `migprofile.exe` utility, verify that your legacy and destination environments satisfy specific prerequisites.

- Run the migration utility on a Windows 7 physical computer or virtual machine.
- Log in to the Windows 7 system as a local administrator.
- Verify that the system on which you run the utility has network access to the CIFS network shares that contain the source V1 path and destination V2 path.
- Verify that the user account that runs the utility is a local administrator on the destination CIFS network share.
- If the user account that runs the utility does not have full ownership of the user profiles that are migrated, specify the `/takeownership` option with the utility.

This option passes ownership of the user profile folders to the utility during the migration. Ownership is returned to the users after the migration is completed.

- Ensure that the users whose profiles are being migrated are not logged in to their Windows XP systems when you initiate the migration.

If a user is in an active session during the migration, the migration might fail.

- Ensure that users do not start using their Windows 7 desktops before the migration is completed.

When users start using their Windows 7 View desktops, View Persona Management creates V2 profiles for the users. If a V2 profile already exists before the migration runs, the utility leaves the existing V2 profile in place and does not migrate the legacy V1 profile.

## migprofile.exe Command Usage

The syntax of the `migprofile.exe` command controls the migration of V1 profiles to V2 profiles.

When you install View Agent with the View Persona Management setup option on a virtual machine, the `migprofile.exe` utility is installed in the `install_directory\VMware\VMware View\Agent\bin` directory.



When you install the standalone View Persona Management software on a system, the `migprofile.exe` utility is installed in the `install_directory\VMware\VMware View\Persona Management` directory.

From a Windows command prompt, use the following syntax for the `migprofile.exe` command:

```
migprofile.exe [/s:source_path] [/t:target_path] [/r-:] [/takeownership] [config_file]
```

**Table 1-1.** `migprofile.exe` Command-Line Options

Option	Description
<code>/s:source_path</code>	<p>The path name of the source V1 profile path to be migrated.</p> <p>Use the wildcard '*' to indicate that all child folders should be migrated.</p> <p>This option is mandatory. You must specify the source path either on the command line or in the migration configuration file. If you specify the source path in both places, the command-line value is used.</p>
<code>/t:target_path</code>	<p>Path name of the target V2 profile path.</p> <p>The migration utility creates a folder under this path with the same name as the source V1 profile folder, appended by .V2.</p> <p>This option is mandatory if the source path is a local V1 profile on a computer.</p> <p>This option is optional if the source path is located on a CIFS network share. In this case, if you do not specify a target path, the V2 profile folder is created as a sibling of the source V1 profile folder on the same CIFS network share.</p>
<code>/r-:</code>	<p>Disables registry migration.</p> <p>This option is optional.</p>
<code>/takeownership</code>	<p>Causes the <code>migprofile.exe</code> utility to take ownership of the user profile during the migration.</p> <p>Use this option if the administrator account that runs the migration utility does not have ownership of the user profile to be migrated. Typically, only the user and SYSTEM accounts have ownership of a user profile.</p> <p>This option is optional. When you use this option, the original ownership of the user profile is restored after the migration is completed.</p>
<code>config_file</code>	<p>Name of the migration configuration file.</p> <p>This option is optional. Command-line options take precedence over the corresponding settings in the configuration file if you specify values in both places.</p>

## migprofile.exe Command-Line Examples

The following example migrates all V1 user profiles under the `\\file01\profiles` folder to the same location. V2 user profiles are created with .V2 appended to each user's root folder name. The utility takes ownership of the user profiles during the migration:

```
migprofile.exe /s:\\file01\profiles\* /takeownership
```

The following example uses the migration settings that are specified in the `migconfig.xml` file:

```
migprofile.exe migconfig.xml
```

The following example migrates the V1 profile for the user `ts115` on the computer `devvm-winxp` to the remote path `\\file01\profiles`. The utility takes ownership of the user profiles during the migration:

```
migprofile.exe /s:\\devvm-winxp\c$\documents and settings\ts115
/t:\\file01\profiles\ /takeownership
```

## Migration Configuration File

You can specify a migration configuration file as a command-line option with the profile migration command. In the configuration file, you can specify settings such as the source and target profile locations, which are passed to the profile migration utility at runtime.

The migration configuration file is optional. You can override settings that you specify in the configuration file by typing the corresponding command-line options.

### Migration Configuration File Format

The migration configuration file is in XML format, which makes the file easy to read, edit, and extend. For definitions of the settings, see [“Migration Configuration File Settings,”](#) on page 10.

```
<migconfig takeownership="takeownership_value">

  <!-- specify the source V1 profiles to be migrated -->
  <source>
    <!-- specify the location of user profiles to be migrated -->
    <filepath>source_profile_path</filepath>
  </source>

  <!-- specify the target destination of converted V2 profiles -->
  <target>
    <filepath>target_profile_path</filepath>
  </target>

  <!-- specify other profile migration settings -->
  <migration>

    <!-- migration settings for profile folders and files -->
    <profile>
      <!-- by default, all top-level profile folders are included -->
      <!-- except 'Cache', 'History', & 'Local AppData' -->
      <includeolders>included_profile_folders</includeolders>
      <excludefolders>excluded_profile_folders</excludefolders>
    </profile>

    <!-- migration settings for profile registry hive -->
    <registry [disabled="1"]>
      <!-- by default, no registry keys are converted -->
      <includekeys>included_registry_keys</includekeys>
      <excludekeys>excluded_registry_keys</excludekeys>
    </registry>

  </migration>

</migconfig>
```

### Migration Configuration File Settings

In the migration configuration file, you can specify settings that control the profile migration. Some settings correspond to the migprofile.exe command-line options. Additional settings let you configure other aspects of a migration.

For example, you can specify folders to include or exclude and registry keys to include or exclude.

## Take Ownership of the User Profile

Set the `takeownership` setting to "1" to cause the `migprofile.exe` utility to take ownership of the user profile during the migration. Use the following format:

```
<migconfig takeownership="1">
  ...
  ...
</migconfig>
```

If you do not specify this setting, the value defaults to "0", which turns off the `takeownership` behavior.

## Source V1 Profile Path

Use the `source_profile_path` setting to specify the path name of the source V1 profile path to be migrated:

```
<source>
  <profilepath>source_profile_path</profilepath>
</source>
```

If you do not specify the source profile path in a command-line option, you must specify this setting in the migration configuration file. You can specify a single user's profile path or use the `*` wildcard to migrate all profiles under a folder.

The following example specifies a single remote user profile:

```
<source>
  <profilepath>\\file01\profiles\ts115</profilepath>
</source>
```

The following example specifies a single user's local profile on an existing desktop:

```
<source>
  <profilepath>\\devvm-winxp\c$\documents and settings\ts115</profilepath>
</source>
```

The following example specifies all remote user profiles under a remote shared folder:

```
<source>
  <profilepath>\\file01\profiles\*</profilepath>
</source>
```

## Target V2 Profile Path

Use the `target_profile_path` setting to specify the path name of the target V2 profile after the migration:

```
<target>
  <profilepath>target_profile_path</profilepath>
</target>
```

The utility appends `.V2` to the root folder name of the target V2 profile.

## Folders to Include

Use the `included_profile_folders` setting to list the V1 profile folders to include in the migration.

By default, all top-level shell folders except `Cache`, `History`, and `Local AppData` are migrated. If you use this setting, only the specified folders are migrated.

Format this setting as a comma-separated list. To specify folders, use the folder identifiers shown in [Table 1-2](#). Do not use folder names.

The following example specifies the My Documents, Desktop, Start Menu, and Network Neighborhood folders to migrate:

```
<includefolders>Personal, Desktop, Start Menu, NetHood</includefolders>
```

**Table 1-2.** Folder Identifiers Used in the Migration Configuration File

Folder Identifiers	Windows Folder Names
AppData	\Application Data
Cache	\Local Settings\Temporary Internet Files
Cookies	\Cookies
Desktop	\Desktop
Favorites	\Favorites
History	\Local Settings\History
Local AppData	\Local Settings\Application Data
My Music	\My Documents\My Music
My Pictures	\My Documents\My Pictures
My Video	\My Documents\My Videos
NetHood	\NetHood (Network Neighborhood)
Personal	\My Documents
PrintHood	\PrintHood (Printer Neighborhood)
Programs	\Start Menu\Programs
Recent	\Recent
SendTo	\SendTo
Start Menu	\Start Menu
Startup	\Start Menu\Programs\Startup
Templates	\Templates

## Folders to Exclude

Use the *excluded\_profile\_folders* setting to list the V1 profile folders to exclude from the migration. This list can exclude folders that are included by default and folders that reside under folders in the *included\_profile\_folders* list.

Format this setting as a comma-separated list. To specify folders, use the folder identifiers shown in [Table 1-2](#). Do not use folder names.

The following example specifies the My Documents and My Pictures folders to exclude from migration:

```
<excludefolders>Personal, My Pictures</excludefolders>
```

## Disable Registry Migration

To disable registry migration, set the optional disabled setting to "1". Use the following format:

```
<registry disabled="1">
</registry>
```

## Registry Keys to Include

Use the *included\_registry\_keys* setting to list registry keys to include in the migration.

By default, the all registry keys in the user registry hive are migrated to the V2 profile. If you use this setting, only the specified registry keys are migrated.

Format this setting as a comma-separated list. To specify registry keys, use the following key identifiers:

- Console
- Control Panel
- Identities
- Keyboard Layout
- Printers
- Software
- System

The following example specifies the Console and System keys:

```
<includekeys>Console, System</includekeys>
```

## Registry Keys to Exclude

Use the *excluded\_registry\_keys* setting to list registry keys to exclude from the migration. You can exclude keys that are included by default, keys that reside within the *included\_registry\_keys* list, and subkeys of top-level keys.

Format this setting as a comma-separated list. To specify registry keys, use the key identifiers shown in [“Registry Keys to Include,”](#) on page 12.

## Example Migration Configuration Files

You can control a migration by editing settings in a migration configuration file.

### Example: Migrating from a Remote Profile Path

The following example file converts all remote V1 profiles that reside under the \\file01\profiles folder to V2 profiles in the same location.

The migrated V2 profiles use the same user names as the V1 profiles. A .V2 extension is appended to the users' root folders. All folders except Local Settings are migrated. User registry keys are migrated.

```
<migconfig version = "0.1">

  <!-- specify the source V1 profiles to be migrated -->
  <source>
    <!-- specify the location of user profiles to be migrated -->
    <profilepath>\\file01\profiles\*</profilepath>
  </source>

  <!-- specify the target destination of converted V2 profiles -->
  <target>
    <profilepath>\\file01\profiles</profilepath>
  </target>

</migconfig>
```

### Example: Migrating from a User's Local Profile

The following example file converts a local V1 profile for the user ts115. The utility migrates the local profile on the desktop devvm-winxp to a remote V2 profile under the \\file01\profiles folder.

Only files from the My Documents, Desktop, and Start Menu profile folders are migrated. The user's registry keys are migrated.

```
<migconfig version = "0.1">

  <!-- specify the source V1 profiles to be migrated -->
  <source>
    <!-- specify the location of user profiles to be migrated -->
    <profilepath>\\devvm-winxp\c$\documents and settings\ts115</profilepath>
  </source>

  <!-- specify the target destination of converted V2 profiles -->
  <target>
    <profilepath>\\file01\profiles</profilepath>
  </target>

  <!-- specify other profile migration settings -->
  <migration>

    <!-- migration settings for profile folders and files -->
    <profile>
      <!-- by default, all top-level profile folders are included -->
      <!-- except 'Cache', 'History', and 'Local AppData' -->
      <includefolders>Personal, Desktop, Start Menu</includefolders>
    </profile>

  </migration>

</migconfig>
```

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