

HP Client Automation

Agents

for the Windows® operating system

Software Version: 8.10

Migration Guide

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1 HP Client Automation Agent Migration

The upgrade information in this guide applies to the following HP Client Automation (HPCA) agents:

- HPCA Application Manager
- HPCA Application Self-Service Manager
- HPCA Inventory Manager

HP Client Automation Documentation

The HP Client Automation documents referenced in this migration guide are:

- *HP Client Automation Administrator Installation and User Guide*
- *HP Client Automation Application Manager and Application Self-Service Manager Installation and Configuration Guide.*

For information on upgrading HPCA Enterprise Edition environment, see the *HP Client Automation Enterprise Edition Migration Guide*.

These guides are available on the installation media as well as the HP documentation web site: www.hp.com/go/hpsoftwaresupport.

Abbreviations and Variables

This guide uses the abbreviations and variables defined in the following tables.

Table 1 Abbreviations Used in this Guide

Abbreviation	Definition
HPCA	HP Client Automation
Core and Satellite	HPCA Enterprise environment consisting of one Core server and one or more Satellite servers. All features are installed as part of the Core or Satellite server installation.
CSDB	Configuration Server Database
Portal	HPCA Portal

Table 2 Variables Used in this Guide

Variable	Description	Default Values
<i>InstallDir</i>	Location where the HPCA server is installed	For a 32-bit OS: C:\Program Files\Hewlett-Packard\HPCA For a 64-bit OS: C:\Program Files (x86)\Hewlett-Packard\HPCA
<i>SystemDrive</i>	Drive label for the drive where the HPCA server is installed	C:

Requirements for the HPCA Agent

For information about the operating systems on which the HPCA agent can be installed, see the *Release Notes* for HPCA 8.10.

The requirements for installing the HPCA agent are:

- Administrative rights on the computer on which you intend to install the HPCA agents.
- Microsoft .NET runtime version 1.1 and above.

This requirement is specific to systems on which the HPCA Application Self-Service Manager is installed.

▶ Microsoft .NET requires version 5.01 (or later) of Microsoft Internet Explorer.

The .NET installation program is available in the `\dotnet` directory on the HPCA agent installation media. It automatically runs on HPCA Application Self-Service Manager host devices on which it is not already installed. This can be configured in the `Install.ini` file.

- TCP/IP connection to a computer on which the Configuration Server is running.

The HPCA Agent Upgrade

If you have a HPCA agent and a HPCA Administrator on the same device, HP recommends that you upgrade the HPCA Administrator *after* you upgrade the HPCA agent. For more information on upgrading the HPCA Administrator, see the *HP Client Automation Enterprise Edition Migration Guide*.

▶ While migrating the agent, make sure that there are no other connects running. HPCA Agent Migration service installation runs asynchronously. Any other connect must run only after the agent upgrade is completed. To check the status of the agent upgrade, check `upgrade.log` in the `%IDMLOG%` directory.

HPCA Agent Upgrade Files

- To upgrade the HPCA agent using the HPCA agent installation service, use the files located on the installation media under `Setup-Core\Media\clients\Migration`.

The files are:

`HPCA_AGENT_810_UPGRADE_WIN.XPI`

`HPCA_AGENT_810_UPGRADE_WIN.XPR`

- To upgrade the HPCA agent using the installation media, you can use the files located in the following directories:

- HPCA DVD: `Setup-Core\Media\client\default\win32`

- HPCA Core installation directory:

`<InstallDir>\Media\client\default\win32`

The above directories contain the following files:

- **setup.exe**: This file launches the standard HPCA agent installation. If a previous version of the HPCA agent is detected, this file launches `upgrdmaint.exe`.
- **upgrdmaint.exe**: This file performs the HPCA agent upgrade.
- **HPCAE-MgmtApps.msi**: This MSI database file contains the default configuration information for the installation and the HPCA agent components.
- **HPCAE-MgmtApps2.cab**: This cabinet file contains HPCA agent components that are specific to non-Thin client devices such as desktops, notebooks, and workstations. This file is used by the `HPCAE-MgmtApps.msi` file during installation.
- **Install.ini**: With this file you can (optionally) customize the HPCA agent installation and the HPCA agent arguments file, `args.xml`.
- The `dotnet` and `Samples` subdirectories.

For more information about the files mentioned in this section, see *HP Client Automation Application Manager and Application Self-Service Manager Installation and Configuration Guide*.

Pre-upgrade Requirement

The default values set in the `[Args]` section of the `Install.ini` file are:

`identification=$MACHINE`

`startdir=SYSTEM`

With these values, HPCA Applications Self-Service Manager has a `SYSTEM` connect with the HPCA Configuration Server. If the existing value for `identification` is `$USER`, you need to modify the `[Args]` section of the `Install.ini` file so that the device does not have a `SYSTEM` connect. If the `identification` and `startdir` values are not modified, the `Install.ini` overwrites the default values into the existing `args.xml` file after the upgrade and the HPCA Application Self-Service Manager has a `SYSTEM` connect.

HPCA Agent Upgrade Process

There are several ways to upgrade the HPCA agents:



- The HPCA agent upgrade removes a previous version of the HPCA agent installed on the device.

- In a Lockdown enabled environment, if you have applied Access Control List (ACL) settings to the HPCA agent directories, make sure to revert the ACL settings before you perform the remove, repair, or modify operations for a HPCA agent installer.

- Using **HPCA agent installation service** to distribute the agent upgrade.
See the section [Configuring the HPCA Agent Installation Service](#) on page 12.
- Using **HPCA installation media** to upgrade a HPCA agent in your lab environment.
The HPCA installation media contains the installation files, as well as the upgrade files.
 - When you run the installation, a standard installation is performed.
 - If the installation program detects a previous version of the HPCA agent, it launches the **upgrade** process. In this case, existing HPCA agent object attributes are maintained and the HPCA agent version information is updated to reflect the latest version.
- Run the upgrade from a **network drive**.

To run the HPCA agent upgrade from a network drive, connect to the network drive, and run the following command from the command line:

```
setup.exe /runlocal
```

This command copies the contents of the installation media to the local drive and automatically performs the upgrade.



You must reboot the device for a successful Agent upgrade.

HPCA Agent Upgrade using Installation Service Files

This section describes how to use the HPCA agent installation service files or the export decks to perform the HPCA agent upgrade. When you upgrade an existing HPCA agent, it is installed in the existing HPCA agent's directory. The HPCA agent default directories are:

- C:\Program Files\Hewlett-Packard\CM\Agent (HP OVCM 5.x)
- C:\Program Files\Hewlett-Packard\HPCA\Agent (HPCA 7.5x and above)

Importing the Decks

In order to distribute the HPCA agent upgrade as an HPCA service, you must import the HPCA agent installation service into the HPCA Configuration Server Database.

To import the decks

- 1 Stop the HPCA Configuration Server. You can use the command prompt or the Control Panel to stop the HPCA Configuration Server.
 - To stop the HPCA Configuration Server using the command prompt, run the **net stop ztoptask** command from the command prompt.
 - To stop the HPCA Configuration Server using the Control Panel, click **Start → Control Panel → Administrative Tools → Services**. From the list of services, select **HPCA Configuration Server** and click **Stop the service**.
- 2 From the installation media folder, Setup-Core\Media\clients\Migration, copy the HPCA agent installation service files; HPCA_AGENT_810_UPGRADE_WIN.XPI and HPCA_AGENT_810_UPGRADE_WIN.XPR to \bin directory of the HPCA Configuration Server.

For example:

```
C:\Program Files\Hewlett-Packard\HPCA\ConfigurationServer\bin
```
- 3 Open a command prompt window.
- 4 Change the directory path to <InstallDir>\ConfigurationServer\bin directory of the HPCA Configuration Server.
- 5 Type:

```
ZEDMAMS  
VERB=IMPORT_INSTANCE, FILE=HPCA_AGENT_810_UPGRADE_WIN.XPI, PREVIEW=NO.  
Press Enter.
```
- 6 Review the ZEDMAMS.LOG file created in the \bin directory to ensure that there are no errors and that the import completed successfully with Return Code (RC) 0.
- 7 After the instances are imported, type:

```
ZEDMAMS  
VERB=IMPORT_RESOURCE, FILE=HPCA_AGENT_810_UPGRADE_WIN.XPR, PREVIEW=NO.  
Press Enter.
```
- 8 Review the ZEDMAMS.LOG file created in the <InstallDir>\ConfigurationServer\bin directory to ensure that there are no errors and that the import completed successfully with RC 0.
- 9 Close the command prompt window.
- 10 Start the HPCA Configuration Server. You can use the command prompt or the Control Panel to start the HPCA Configuration Server.
 - To start the HPCA Configuration Server using the command prompt, run the **net start ztoptask** command from the command prompt.
 - To start the HPCA Configuration Server using the Control Panel, click **Start → Control Panel → Administrative Tools → Services**. From the list of services, select **HPCA Configuration Server** and click **Restart the service**.
- 11 Use the HPCA Administrator CSDB Editor to view the new service in PRIMARY.SOFTWARE.ZSERVICE. To view the class names in the HPCA Admin CSDB Editor window, click **View → Options... → General** and enable the **Show Class Names Next to Descriptions** checkbox. Click **OK** to close the Options dialog box.

Customizing the HPCA Agent Installation Service (Optional)

To customize the HPCA agent installation service, follow these steps:

- 1 Open the HPCA Administrator CSDB Editor.
- 2 In the HPCA Administrator CSDB Editor, go to **Options** → **Advanced tab**, and select **Show Edit Replace and Add Component options for File type components**.
- 3 Navigate to the `Install.ini` resource of the HPCA 8.10 update service.
- 4 Right-click `Install.ini` in the tree view. A shortcut menu opens.
- 5 Select **Edit this Component** from the shortcut menu.
- 6 The Editor Selector for `Install.ini` dialog box opens. Use this dialog box to select the resident editor you want to use to make the changes to this file. For example, select **Notepad** to open the `Install.ini` file with `Notepad.exe`.

For details about the parameters in `Install.ini`, see *HP Client Automation Application Manager and Application Self-Service Manager Installation and Configuration Guide*.

For more information on the **Edit this Component** command, see *HP Client Automation Administrator Installation and User Guide*.

Configuring the HPCA Agent Installation Service

To configure the HPCA agent installation service, follow these steps:

- 1 Customize the HPCA Agent Installation Service, if required.
- 2 Connect the service to the appropriate users for distribution.

For more information, see *HP Client Automation Application Manager and Application Self-Service Manager Installation and Configuration Guide*.

After the service is distributed to a user and the HPCA agent upgrade is complete. The service will no longer be available to the user and is automatically removed from the HPCA agent desktop. There is a `ZSTOP` expression in the HPCA agent upgrade (`ZSERVICE`) instance that evaluates to `TRUE` after the HPCA agent is upgraded. Once this expression evaluates to `TRUE`, the temporary service folder and the HPCA agent installation files are removed.

 You must reboot the device for a successful Agent upgrade.

2 Migration Scenarios

This chapter includes migration scenarios for:

- HPCA agent 7.80 or 7.90 Non-Lockdown to HPCA agent 8.10 Non-Lockdown mode.
- HPCA agent 7.80 or 7.90 Non-Lockdown to HPCA agent 8.10 Lockdown mode.
- HP CM agent 5.11.4 / HPCA agent 7.8.1 or 7.90 Lockdown to HPCA agent 8.10 Lockdown mode.
- HP CM agent 5.11.4 / HPCA agent 7.8.1 or 7.90 Lockdown to HPCA agent 8.10 Non-Lockdown mode.

HPCA Agent 7.80 or 7.90 Non-Lockdown to HPCA Agent 8.10 Non-Lockdown Mode

The HPCA agent 7.80 or 7.90 can be migrated to HPCA agent 8.10 with Non-Lockdown mode through a simple upgrade. For information on the upgrade steps, see [HPCA Agent Upgrade Process](#) on page 10.

HPCA Agent 7.80 or 7.90 Non-Lockdown to HPCA Agent 8.10 Lockdown Mode

When migrating from HPCA agent 7.80 or 7.90 with Non-Lockdown mode to HPCA agent 8.10 with Lockdown enabled mode, make sure you set the Lockdown parameters in the [Properties] section of the `Install.ini` file. The Lockdown parameters are:

```
[Properties]
```

```
LOCKDOWN=Y
```

```
LOCKDOWNSCRIPT=<Customized-Script>
```

HP provides a sample file, `setaccls.bat` that contains sample statements that you can use to create a customized script. The customized script is used to set the Access Control Lists (ACLs) to the agent folders in the HPCA environment. Ensure that the customized script is in the same directory as the `Install.ini` and `setup.exe` files.

You can now migrate to HPCA agent 8.10. To upgrade the agent, see [HPCA Agent Upgrade Process](#) on page 10.

Migrating the User Data to the User Profile

After successful agent upgrade, you need to transfer the user data to the respective user profiles. You can retain the user data in the respective user profiles by running the `secure_migrate.tcl` script.

To migrate the user data to the respective user profiles, follow these steps:

- 1 Copy the `secure_migrate.tcl` file from `Setup-Core\Media\client\default\win32` to the `IDMSYS` folder.
- 2 From the command line, run the following command: `nvdkit secure_migrate.tcl -idmsur <User-Folder-path> -usrmsi <User-Msi-Folder-path>`

On Windows Vista, Windows 7, and Windows 2008 Server the *User-Folder-path* is

```
C:\Users\<username>\AppData\Local\HPCA\Agent
```

On Windows XP, and Windows 2003 Server the *User-Folder-path* is:

```
C:\Documents and Settings\<username>\Local Settings\Application Data\HPCA\Agent
```

You can move the data objects of all the users at the same time by replacing the *<username>* with the value **ZUSERID** in the above mentioned paths.

The *User-Msi-Folder-path* is the `IDMUSRMSI` path

```
IDMUSRMSI="<InstallDir>\Agent\usermsi"
```

The `secure_migrate.tcl` script automatically reads all the data objects in the `IDMROOT` folder, `<InstallDir>\Agent\Lib`, for each user and moves the data objects to the user profile set in the script.

On Windows XP, and Windows 2003 Server, the Administrator user contents are moved to:

```
C:\Documents and Settings\Administrator\Local Settings\Application Data\HPCA\Agent
```

On Windows Vista, Windows 7, and Windows 2008 Server, the Administrator user contents are moved to:

```
C:\Users\Administrator\AppData\Local\HPCA\Agent
```

- ▶ If you need to run the customized script for setting ACLs as well as the `secure_migrate.tcl` script, you can append the contents of the `secure_migrate.tcl` script to the customized script. Use this customized script in the **LOCKDOWNSCRIPT** parameter in the [Properties] section of the `Install.ini` file.

HP CM Agent 5.11.4/HPCA Agent 7.8.1 or 7.90 Lockdown to HPCA Agent 8.10 Lockdown Mode

Perform the following steps before migrating to HPCA agent 8.10 in Lockdown enabled mode:

Retaining ACL Settings

In HP CM 5.11.4 and HPCA 7.8.1, Lockdown mode is enabled using the `setsecure.bat` file. This batch file performs two functions:

- Enables lockdown mode.
- Sets Access Control Lists (ACLs) to the agent folders.

The `setsecure.bat` file contains sample statements that you can use to create a customized script to set ACLs.

Before migrating to HPCA agent 8.10 in Lockdown enabled mode, perform the following steps:

- 1 Copy the customized script you had previously created for HP CM 5.11.4, HPCA 7.8.1 and 7.90 to the folder `Setup-Core\Media\client\default\win32`. The contents of this folder are delivered to the target device during remote deployment.
- 2 Set **LOCKDOWN=Y** in `Install.ini` file of HPCA 8.10 to enable Lockdown.
- 3 Set **LOCKDOWNSCRIPT=<Customized-Script>**.

 While migrating to HPCA 8.10, do not use the default `setsecure.bat` and `setaccls.bat` files in the **LOCKDOWNSCRIPT** parameter. Update the files based on your requirements and use them.

Retaining User Contents after Upgrade

In HPCA 8.10, the default value for **IDMUSR** in `Install.ini` file is `CSIDL_LOCAL_APPDATA\HPCA\Agent`. The `Install.ini` file uses the **IDMUSR** parameter to create user specific contents in the respective user profiles folders on the target device. During migration, set the **IDMUSR** value in the latest version to the **IDMUSR** value used in the previous version of agent installation. You must modify the [Properties] section of `Install.ini` file of HPCA 8.10 for **IDMUSR** to retain the user contents after a successful upgrade.

For example, in HPCA 5.11.4, the value of **IDMUSR** is `CSIDL_LOCAL_APPDATA\CM\Agents`, and the user profiles are created within the `\CM\Agents` folder structure. If the **IDMUSR** value is not retained while upgrading to HPCA agent 8.10, the `Install.ini` file will create user profiles within the `\HPCA\Agents` folder structure. Therefore, even if the migration is successful, the user data is not retained.

Updating the Registry for NVD.INI file Location

In a Non-Lockdown enabled mode, the `NVD.INI` file resides in the **IDMROOT** folder, `<InstallDir>\Agent\Lib`. The `NVD.INI` file location saved in the registry file is `HKEY_LOCAL_MACHINE\Software\Novadigm\Radia\Settings\INIPath`.

When the Lockdown mode is enabled, the `NVD.INI` file is moved from the **IDMROOT** folder to the **IDMSYS** folder, `<InstallDir>\Agent`. After the `NVD.INI` file is moved, it is no longer available to the user.

After the Lockdown mode is enabled, the location of the `NVD.INI` file is changed to the **IDMSYS** folder however the **IDMROOT** folder's path is retained in the registry file. When migrating to HPCA agent 8.10 in Lockdown enabled mode, update the registry file to reflect the new location of the `NVD.INI` file. This prevents a new installation of the HPCA agent.

You can use any one of the following methods to ensure that the registry contains the correct location of the `NVD.INI` file.

Method 1

Modify the registry using command line or batch mode (preferred method).

- 1 Create an `updateINIpath.txt` file with the following content,
`HKEY_LOCAL_MACHINE\SOFTWARE\Novadigm\Radia\SettingsINIPath = REG_SZ
"C:\PROGRA~1\HEWLET~1\HPCA\Agent\"`
- 2 From the command line, run the command `regini updateINIpath.txt`. You can also run this command on all the target devices before the upgrade.

Method 2

Make sure that the `NVD.INI` file resides in both the `IDMSYS` and the `IDMROOT` folder. You can write a script to copy the `NVD.INI` file from the `IDMSYS` folder to `IDMROOT` folder.

Method 3

Uninstall the existing agent and then install the HPCA agent 8.10 with Lockdown enabled mode. Only the `SYSTEM` or an Administrator user can uninstall the HPCA agent.

HP CM Agent 5.11.4 / HPCA Agent 7.8.1 or 7.90 Lockdown to HPCA Agent 8.10 Non-Lockdown Mode

To migrate to HPCA agent 8.10 with Non-Lockdown mode:

- 1 Uninstall the existing agent from the target device.
- 2 Install the HPCA agent 8.10 without setting the Lockdown parameters in the [Properties] section of the `Install.ini` file.
 - Migration of Lockdown enabled HP CM 5.11.4 agent / HPCA 7.8.1 or 7.90 agent to HPCA agent 8.10 with Non-Lockdown mode is not supported.

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