HP Client Automation Enterprise Edition

For the Windows® operating system

Software Version: 8.10

Migration Guide

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Introduction

This document explains how to upgrade your HP Client Automation (HPCA) Enterprise Edition environment to HPCA version 8.10 while preserving your data.

Note: This document applies only to HPCA Enterprise Edition Core and Satellite installations; it does not apply to HPCA "classic" (component-based) installations. If you want to migrate from HPCA Classic environment to HPCA Core and Satellite environment, click **https://hpln.hp.com/system/files/HPCA_Classic_to_Core-Sat_Migration_Planning_ and_Best_Practices.pdf**.

To upgrade an HPCA Starter Edition or Standard Edition environment, see the *HPCA Starter and Standard Edition Migration Guide.*

Use these instructions to upgrade the following products to the latest version of HPCA Core and Satellite:

- HPCA Enterprise Edition Core and Satellite version 7.50

- HPCA Enterprise Edition Core and Satellite version 7.80

- HPCA Enterprise Edition Core and Satellite version 7.90

Caution: HP recommends to apply the latest patch available to your current HPCA version before starting the migration process.

Note: To access the latest HPCA Core and Satellite 8.10 migration framework posted on HP Live Network, download the *migrate_CoreToCore_8_10.zip* file from **https://hpln.hp.com/node/7/otherfiles/?dir=13233**.

System Requirements

HP Client Automation (HPCA) Enterprise version 8.10 supports those database servers listed in the *HPCA Enterprise Edition Release Notes*.

If your HPCA environment uses Microsoft SQL Server, you must use either Microsoft SQL Server 2005 or Microsoft SQL Server 2008 with HPCA version 8.10.

If you are using an older version of Microsoft SQL Server, be sure to upgrade your database to either Microsoft SQL Server 2005 or Microsoft SQL Server 2008 before you begin the HPCA migration process described in this document. Refer to your Microsoft SQL Server documentation for instructions.

Abbreviations and Variables

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

Variables Used in this Guide

Variable	Description	Default Values
InstallDir	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`
SystemDrive	Drive label for the drive where the HPCA server is installed	C:

Upgrading HPCA Core Server

Caution: Be sure that your environment meets the "System Requirements" (on page 7) before you begin the HPCA migration process.

The upgrade process includes four steps:

"Step 1: Backup the Existing HPCA Core Server Installation" (on page 9)

"Step 2: Upgrade to the Latest Version" (on page 11)

"Step 3: Restore HPCA Data" (on page 12)

"Step 4: Migrate the HPCA SQL/Oracle Database" (on page 13)

Caution: Migration processes might result in data loss. Ensure that you fully backup your environment before you start the migration process.

Caution: It is important to prevent agent and satellite connections to the Core during the upgrade process. Such connections can result in duplicate device entries and other problems. Ensure that access to the Core's Web Server and Configuration Server ports (3466 and 3464, respectively by default) is blocked until the upgrade and restoration of the Core is complete.

Caution: During migration, the **Agent Updates Version** under **Core Console** > **Configuration** > **Patch Management** > **Agent Updates** is set to the newer version. It is important to set the version to the previous version that was applied before migration if you do not plan to migrate the Patch Agent to the newer version on the client devices.

Caution: During migration, the **Enable Download of Patch Metadata only** option under **Core Console** > **Configuration** > **Patch Management** > **Distribution Settings** is set to enabled. You must disable the **Enable Download of Patch Metadata only** option after migration if you do not want to use the metadata model for Microsoft bulletins.

Note : If you have customized your RADISH Rexx script by replacing it with the RADISHSS Rexx script, you may use the out-of-the-box solution supplied with HPCA 8.10 to do the single service optimization.

Note : Installing or upgrading HPCA Administrator Batch Publisher 8.10 will upgrade all software with the exception of the configuration files. This will allow you to retain the previous customized publishing configurations to use with the updated software and runtime interpreter.

Note: During migration, the admin password is reset to *secret*. Be sure to change this after you have completed the migration process.

Step 1: Backup the Existing HPCA Core Server Installation

Backup the existing Core Server installation and database to prepare for the upgrade.

To back up the existing installation:

1. From the HPCA installation media, copy the `\Setup-Core\migrate` folder to a temporary location (for example, `C:\migrate`) on the existing Core server.

You *must* copy this folder to a temporary location on the existing Core server since the upgrade scripts cannot be run directly from the HPCA media.

2. Open command prompt and change the directory to the newly copied `migrate` folder.

3. Type the following command:
   `hpcabackup` *drive*

   where, *drive* is the drive label for the drive where you want to store the backup files. Ensure that the drive contains free space to store the backup files. The script detects the available space and provides an estimate for the required space. The space required is approximately same as the currently installed size.

   For example, to store the files on `C:` drive, enter the following command:

   `hpcabackup C`

   The current installed version of the Core server is detected and, if adequate space is available, the upgrade process begins to store the backup files in `C:\HPCABackup\HPCABackup` directory.

   Caution: Do NOT move the `HPCABackup` folder to another drive. If you move this folder, the restore operation does not work.

4. After the script identifies the tasks that are to be completed to initiate the backup, the `HPCA-preview-report.html` opens in the default web browser. Review the preview report carefully before you continue with the backup process.
   If you are migrating from HPCA Core and Satellite version 7.90 or prior, the COP resolution process has changed. A few new classes have been added to the CLIENT domain to support the Satellite Management feature.

5. After reviewing the preview report, type `y` to start the backup process.

6. During migration, a new instance is created in the CLIENT.SUBNET class for each location in the CLIENT.LOCATION class.The CLIENT.SUBNET instance use the *LOCATIONNAME_SUBNETMASK* format. The value for LOCATIONNAME is retrieved from the CLIENT.LOCATION class in the CSDB and the value for SUBNETMASK is retrieved from the DeviceConfig table in RDBMS. If SUBNETMASK is not available in the DeviceConfig table, the backup process generates a warning that an inconsistency is identified in the CLIENT domain, and prompts if you want to continue with the backup process. You can choose to continue or end the backup process. If all SUBNETMASKS are retrieved from the DeviceConfig table, backup process completes without any prompt.
   - If you get a prompt for SUBNETMASK, browse to the CLIENT.LOCATION class in the CSDB Editor and verify if the LOCATION instance is valid. If the LOCATION instance is not required, delete the instance and run the backup process again. If you are not able to decide whether to keep or delete the location instance, contact HP Support.

   Note: The subnet masks details are saved in the SUBNET_CREATE_INSTANCES.txt file located at `C:\HPCABackup\HPCABackup\rcs\database\CLIENT` after the backup process is complete.

7. After the backup tasks are completed, the command prompt displays the following message:
   ```
   Info: Action completed
   Info: Backup Completed Successfully
   Press [ENTER] to end
   ```

> **Note**: If the backup script is run again, a new backup folder is created. The existing `C:\HPCABackup\HPCABackup` folder is renamed to a timestamp folder (for example, `C:\HPCABackup\HPCABackup-1263495101`) and a new `C:\HPCABackup\HPCABackup` folder is created.

8. The `hpca-backup-report.html` file opens in the default browser. Verify this file to determine the tasks that were completed during the backup process. This file also directs you to the respective logs that you must refer to for an error or a warning message. You *must* review all error and warning messages in this file as these may indicate the need for manual intervention to ensure that settings are upgraded as per your requirement.

Step 2: Upgrade to the Latest Version

> **Note**: The upgrade process will update the existing HPCA database. You should not remove the existing database.

> **Note**: The DSN information used to connect to MS SQL Server or Oracle databases must be the same as that used in the previous installation for the migration to work correctly.

To upgrade to the latest version:

1. Run `HPCACore.msi` available in the `Setup-Core` directory on HP Client Automation 8.10 media. The HP Client Automation Core Installer window opens.
   When the MSI runs, the installer detects an upgrade and prompts to confirm that you have read the migration guide and completed the prerequisite backup steps before continuing.

   > **Caution**: Failure to complete the prerequisite backup steps before running the upgrade results in data loss.

2. Click **Next**. The installer detects an upgrade and prompts you to confirm that you have read the migration guide and completed the prerequisite backup steps before continuing.

3. Click **Yes** to continue with the upgrade. The HP Client Automation Core Installer window opens.

4. Click **Next**. The HP Client Automation Software License Agreement page opens.

5. Review the HP Client Automation Core license terms, select **I accept the license agreement**, and then click **Next**. The HP Client Automation Installation Folder page opens.

6. The Installation Folder page displays the default installation directory for the HPCA Core server.
   Accept the default location, or click **Browse** to select a different location, and then click **Next**. The HP Client Automation Data Folder page opens.

7. The Data Folder page displays the default directory for the HPCA Core server data files.
   Accept the default location, or click **Browse** to select a different location, and then click **Next**. The HP Client Automation Host Name page opens.

8. Select a name for this HPCA server and click **Next**. The HP Client Automation Server Ports page opens.

9. Accept the default ports, or specify Web Server and Configuration Server ports, and then click **Next**. The HP Client Automation Installation Confirmation page opens.

Caution: The installer provides an option to configure Windows Firewall to enable access to the Web Server and Configuration Server ports (3466 and 3464, respectively). You should clear this option during the install and then manually configure your firewall to allow communication through these ports after the upgrade and restoration of the Core is complete.

10. Click **Next** to start the installation.The existing installation is removed, and the new version is installed.

11. Click **Finish** to complete the HP Client Automation Core server installation. The HPCA Console automatically opens, and the login window is displayed in your default browser.

12. On the login window, specify the default user name, password, and directory source. The default user name is `admin` and the password is `secret`.

13. Click **Sign In**. The First Time Setup Wizard opens, and prompts you for initial configuration settings for your HPCA environment.

14. Close this browser window.
    Caution: Do *not* run the First Time Setup Wizard. Your settings are automatically applied during the upgrade process.

15. If you are prompted to reboot the server, click **Yes** to reboot.
    Caution: If you do not reboot when prompted, files marked for deletion will not be handled properly. It is imperative that you reboot immediately when prompted before continuing any further.

Note: The HPCA Administrator is automatically installed with the 8.10 Core Server. If an existing HPCA Administrator was installed, it will be upgraded to the latest version. To upgrade an HPCA Administrator on another device, see the .

Step 3: Restore HPCA Data

After you have upgraded to the latest version, restore your existing data into the new environment.

To restore HPCA data:

1. Open the command prompt and navigate to the `migrate` folder that you created in Task 1.

2. Run `hpcarestore.cmd` followed by the drive on which you stored the backup files in Task 1. For example, to restore the files from `C:`, type:
   `hpcarestore C`

   a. After the script identifies the restore tasks to be completed, the file `HPCA-preview-report.html` opens in the default web browser. Review any `actionrequired` messages in the preview report carefully before you continue with the restore operation.
      ○ You must review the changes required for the `rcs` module. The `rcs` migration logic detects any customizations you made to the CSDB class schema and attempts to merge these forward. If CSDB class schema customizations are identified, an `actionrequired` message is created for the `rcs` module. The `ZEDMAMS` script is generated to migrate these CSDB customizations forward. The scripts can be located in the `\HPCABackup\HPCABackup\rcs\database\CLIENT\` directory. Each such

script should be manually reviewed and, if necessary, modified before continuing with
the restore operation.

○ You must also review the information about the subnets that are being imported into the
CLIENT domain.

○ The preview report contains an `actionrequired` message for the Policy server with
the description "`Policy Server processing and configuration
settings has been changed since the version you are migrating
from, please refer to the migration documentation for
additional information on new policy server operation`".
The directory services configured in HPCA environment for policy management are
automatically mounted on Policy server for policy resolution. During this process, a
`.cfg` file is created for each directory service. These configuration files include
parameters used to connect to the directory services and to perform policy resolution.
If you have not applied any customization to these configuration files in your
environment, ignore this message. However, if you have modified the default Policy
server configurations manually, complete the following steps:

○ Compare the configuration files in the
`<InstallDir>\PolicyServer\etc\ldap` directory to the configuration files
backed up from the previous installation to identify the additional parameters for
policy resolution on a specific directory service.

○ Manually add the additional parameters in the `overrides` section of the individual
configuration file.

3. After reviewing the preview report, type `y` in the command prompt to continue with the restore
operation.
The data stored in the `HPCABackup` folder is upgrade into the new HPCA environment.

In case of a failure, the restore operation is triggered again from where it was left off. To
perform a fresh restore, you must remove the `HPCA-restore*` files from the `HPCABackup`
folder.

4. The `hpca-restore-report.html` file opens in the default web browser. Review the file to
determine the changes during the restore process.
It is important to review all warning messages, as these may indicate the need for manual
intervention to ensure that settings are upgraded as per your requirement.
Note: If there are unhandled errors, take corrective actions, and start the restore operation
again. You *must* review the actions taken in the preview report again, and then complete the
restore operation.

It is common to receive warnings during execution of the "rms" component when migrating from
version 7.50 – the problems indicated by these warnings will be corrected when you run sqlmigrate
in .

Step 4: Migrate the HPCA SQL/Oracle Database

Caution: This step is not required when migrating from version 7.80 or 7.90. It is required when
migrating from version 7.50. If you already have a FOREIGN KEY CONSTRAINT set to
the DEVICECONFIG.DEVICE_ID column on Inventory database tables, you can skip
this step.

Caution: This step should only be performed by an experienced HPCA database administrator.

After you have upgraded your HPCA Core Server to the latest version and restored your data, you must migrate the HPCA database. This involves the following steps:

- Export the contents of specific database tables

- Drop these tables

- Re-create these tables

- Import the data into the updated table structure

You can use the sqlmigrate script to perform these steps, or they can be performed manually (see "Migrating the HPCA SQL/Oracle Database Manually" (on page 31)).

To migrate the HPCA database:

1. Stop the HPCA Core service.

2. In your local copy of the `migrate` folder, change to the `sql` folder. For example: `cd C:\migrate\sql`

3. Run the following command:

   `sqlmigrate DriveLetter`

   Here, *DriveLetter* is the drive where the script will store exported data and any error information generated during the subsequent import. Data is stored here:

   `DriveLetter:\HPCABackup\SQLMigrate`

   Note: Be sure that ample free space is available on this drive

   Note: For large databases, this migration step can take many hours.

   Note: If the `sqlmigrate` script is run again, a new data folder is created:
   `DriveLetter:\HPCABackup\SQLMigrate-timestamp`

   where *timestamp* indicates when the data folder was created.

4. Examine the contents of the `C:\HPCABackup\SQLMigrate\errors` folder to ensure that the migration was successful. If errors occurred during the migration of a particular table, the following files are created in this folder.
   - `tablename.log` contains the insert statement and any errors that occurred

   - `tablename.tsv` contains the rows (if any) that failed to import

   - `tablename.sql` is a SQL Script of any insert statements that failed
     where *tablename* corresponds to the name of the pertinent database table.

   Examine these files to determine if you need to perform any manual restoration of data.

   See "SQL Database Tables that must be Migrated" (on page 27) for a list of the tables migrated by the `sqlmigrate` script.

5. Restart the HPCA Core service.

Step 5: Log in to the Core Console

To log in to the updated console, use a browser and go to:

`http://HPCA_host:3466`

Where *HPCA_host* is the server's host name.

You can now enable remote access to the Core's Web Server and Configuration Server ports.

After a successful upgrade, you can verify the subnet details by clicking **Core Console -> Configuration ->Infrastructure Management -> Satellite Management -> Subnets**. A caution

icon ⚠ is displayed with each invalid subnet. If the subnet is not required, delete the instance. If you are not able to decide whether to keep or delete the subnet, contact HP Support.

After the Core has been upgraded, you will need to upgrade any deployed components. See <u>"Upgrading Deployed Components" (on page 17)</u> for details.

Step 6: Update Core Configuration and Content

Following the restore of the Core, perform the following actions prior to upgrading the deployed components.

Update HP Live Network Content

Perform a full HP Live Network update to ensure that all of your service content is current.

Since the services offered through HP Live Network may have changed since you last configured it through the HPCA Console, it is highly recommended that you validate your configuration before performing an update.

To configure your HP Live Network connection, in the HPCA Console, go to **Configuration** > **Infrastructure Management** > **Live Network**.

Unless directed otherwise by a support engineer, use the version of the Live Network Connector that is installed with HPCA.

To update your HP Live Network content, go to **Operations** > **Infrastructure Management** > **Live Network**

Note: After migration, you might receive script exception error when accessing the **Connections** tab under **Core Console** > **Configuration** > **Infrastructure Management** > **Satellite Management** > **Satellite Server** > **Locations** > **Location Details**. To resolve this issue, contact HP Technical Support.

HP Client Automation Enterprise Edition (8.10)

Upgrading Deployed Components

Use these instructions to upgrade HPCA Enterprise components that were deployed to devices in your environment.

The following sections describe how to upgrade Enterprise deployed components:

- "Upgrading HPCA Agent" (on page 17)
- "Upgrading HPCA Administrator" (on page 17)
- "Upgrading Satellite Servers" (on page 18)

Note: Upgrading deployed components requires that you first upgrade the HPCA Server, as described in "Upgrading HPCA Core Server" (on page 9).

These sections also contain pointers to any appropriate component-specific migration guides. All migration guides are stored on the HPCA media.

Upgrading HPCA Agent

You can upgrade the HPCA Agent by using any one of the following methods:

- Deploying the 8.10 agent from the HPCA Core Console
- Directly invoking the installation media (either locally or from a network drive)
- Using the HPCA installation services (upgrade decks) to enable automatic agent upgrade

It is not necessary to uninstall the existing agent prior to following any of the above methods to upgrade the agent.

For information about deploying agents through the HPCA Console, see the *HP Client Automation Core and Satellite Enterprise Edition User Guide*.

For more information on the other methods of agent upgrade, see the *HP Client Automation Agents Migration Guide*.

Upgrading HPCA Administrator

Caution: The HPCA Agent upgrade will remove a previous version of the HPCA Administrator if one is installed on the device.

The HPCA Administrator is automatically installed during the 8.10 HPCA Core installation. If an existing HPCA Administrator is present during the HPCA Core installation, it is updated during the installation process.

To upgrade the HPCA Administrator on a device other than the Core server, first remove the existing version of the HPCA Administrator installed on the device. You can upgrade to the latest version of the HPCA Administrator in the following two ways:

- Use the HPCA Administrator installation files for Windows, Linux, and Macintosh operating systems to upgrade the HPCA Administrator.
  - **For Windows**: Run `setup.exe`, the HPCA Administrator installation command located in the `\Setup-Core\Media\admin\default\win32` directory on the HPCA installation media.

- **For Linux**: Remove the existing HPCA Administrator and run the `./install` command from the `\Setup-Core\Media\admin\default\linux` directory.

- **For Macintosh**: Remove the existing HPCA Administrator and run the `sudo ./install` command from the `\Setup-Core\Media\admin\default\macx86` directory.

- Deploy the HPCA_ADMINTOOLS service to the managed device from the HPCA Core Console. You must upgrade the HPCA Agent installed on the device before deploying the HPCA_ADMINTOOLS service.
  Caution: If you are migrating from a version prior to 7.90, do not deploy the legacy CCM_PUBLISHER service in a 8.10 environment. This service could be deleted from the CSDB as it is no longer needed.

Upgrading Satellite Servers

HPCA Satellite Server 8.10 consists of Apache Server Data Cache and Integration Server-based Proxy Server components. The Apache Server Data Cache is used to store Patch Manager Gateway (Patch MGR) binaries. The Integration Server-based Proxy Server Data Cache is used to store CSDB resource data. Example, Software, OS Manager, Audit, and Security data. You can upgrade the Satellite Servers manually or through HPCA Console.

- Upgrading Satellite Server Manually

- Upgrading Satellite Server through HPCA Console

Upgrading Satellite Server Manually

Step 1: Backup the Existing Satellite Server Installation

Backup the existing HPCA Satellite installation to prepare for the upgrade.

To back up the existing HPCA Satellite installation:

1. From the HPCA media, copy the `\Setup-Satellite\migrate` folder to a temporary location on the HPCA Satellite Server (for example, `C:\migrate`).
   You *must* copy this folder to a temporary location since the migration scripts cannot be run directly from the HPCA media.

2. Open command prompt and change the directory to the newly copied `migrate` folder.

3. Enter the following command:
   `hpcabackup` *drive*

   where, *drive* is the drive label for the drive where you want to store the backup files. Ensure that the drive contains free space to store the backup.

   For example, to store the files on `C:` drive, enter the following command:

   `hpcabackup C`

   The currently installed version is detected and, if adequate space is available, the upgrade process begins to store the backup files in `C:\HPCABackup\HPCABackup`

4. After the migration scripts identify the tasks that are to be completed to initiate the backup, the `HPCA-preview-report.html` opens in the default web browser. On the command prompt, press **y** to start the backup tasks.

5. After the backup tasks are completed, the command prompt displays the following message:
   ```
   Info: Action completed
   Info: Backup Completed Successfully
   Press [ENTER] to end
   ```

   Caution: Do NOT move the `HPCABackup` folder to another drive. If you move this folder, the restore operation will not work.

   Note: If the backup script is run again, a new backup folder is created. The `C:\HPCABackup\HPCABackup` folder is renamed to a timestamp folder (for example, `C:\HPCABackup\HPCABackup-1263495101`) and a new `C:\HPCABackup\HPCABackup` folder is created.

6. The `hpca-backup-report.html` file opens in the default browser. Verify this file to determine the tasks that were completed during the backup process.
   It is important to review all warning messages in this file, as these may indicate the need for manual intervention to ensure that settings are migrated properly.

Step 2: Upgrade to the Latest Version

Run the latest HPCA Satellite MSI installer to upgrade to the latest version.

To upgrade to the latest version:

1. Run `HPCASatellite.msi` available in the `Setup-Satellite` directory on HP Client Automation 8.10 media. The HP Client Automation Satellite Installer window opens.

2. Click **Next**. The installer detects an upgrade and prompts you to confirm that you have read the migration guide and completed the prerequisite backup steps before continuing.

3. Click **Yes** to continue with the upgrade. The HP Client Automation Satellite Installer window opens.

4. Click **Next**. The HP Client Automation Software License Agreement page opens.

5. Review the HP Client Automation Satellite license terms, select **I accept the license agreement**, and then click **Next**. The HP Client Automation Installation Folder page opens.

6. The Installation Folder page displays the default installation directory for the HPCA Satellite server.
   Accept the default location, or click **Browse** to select a different location, and then click **Next**. The HP Client Automation Data Folder page opens.

7. The Data Folder page displays the default directory for the HPCA Satellite server data files. Accept the default location, or click **Browse** to select a different location, and then click **Next**. The HP Client Automation Host Name page opens.

8. Select a name for this HPCA server and click **Next**. The HP Client Automation Server Ports page opens.

9. Accept the default ports, or specify Web Server and Configuration Server ports, and then click **Next**. The HP Client Automation Installation Confirmation page opens.
   Caution: The installer provides an option to configure Windows Firewall to enable access to the Web Server and Configuration Server ports (3466 and 3464, respectively). You should clear this option during the install and then manually configure your firewall to

allow communication through these ports after the upgrade and restoration of the Satellite is complete.

10. Click **Next** to start the installation. The existing installation is removed, and the new version is installed.

11. Click **Finish** to complete the HP Client Automation Satellite server installation. The Windows Security login window opens in your default browser.

12. On the login window, specify the default user name, password, and directory source. The default user name is `admin` and the password is `secret`.

13. Click **OK**. The First Time Setup Wizard opens, and prompts you for initial configuration settings for your HPCA environment.

14. Close this browser window.
    Caution: Do *not* run the First Time Setup Wizard. Your settings are automatically applied during the upgrade process.

15. If you are prompted to reboot the server, click **Yes** to reboot.
    Caution: If you do not reboot when prompted, files marked for deletion will not be handled properly. It is imperative that you reboot immediately when prompted before continuing any further.

Step 3: Restore HPCA Data

After you have upgraded to the latest version of the Satellite, restore your existing data into the new environment.

To restore HPCA data:

1. From the `migrate` folder that you created in , run `hpcarestore.cmd` followed by the drive letter on which you stored the backup files in Step 1, above. For example, to restore the files from `C:`, type: `hpcarestore C`

2. After the script identifies the restore tasks to be completed, the file `HPCA-preview-report.html` opens in the default web browser. Review this preview report.

3. After reviewing the preview report, type `y` to continue with the restore operation. The data stored in the `HPCABackup` folder is migrated into the new HPCA environment.

   If a failure occurs during restore, a subsequent restore attempts to start where it left off. To perform a fresh restore, you must remove the `HPCA-restore*` files from the `HPCABackup` folder.

4. The `hpca-restore-report.html` file opens in the default web browser. Review the file to determine what occurred during the restore process.
   It is important to review all warning messages that occur, as these may indicate the need for manual intervention to ensure that settings are properly migrated.

   Note: HPCA resource data is converted from Apache format to the classic Proxy Server format and moved to the Proxy Server Data location during the restore process. For example, after restore process is complete, the converted HPCA resource data is copied to the following directory:
   `C:\Program Files\Hewlett-Packard\HPCA\Data\ProxyServer\static`

Step 4: Synchronize Satellite

After you migrate a Satellite server, you must synchronize it with its Core server.

To synchronize a Satellite server:

1. On the Satellite server, open a browser, and go to the following URL to open the HPCA user interface:
   `http://localhost:3466`

2. Login as admin.

3. On the Operations tab, click **Server Status**.

4. Click **Synchronize satellite now**.

You have now successfully migrated your Satellite Server.

Upgrading Satellite Server through HPCA Console

To upgrade your existing Satellite Server:

1. On the Configuration tab in HPCA Console, go to the Infrastructure Management, Satellite Management area.

2. Click the **Servers** tab.

3. Select the device on which you want to upgrade the Satellite Server in the Satellite Servers list.

4. Click the **Install the Satellite Server** toolbar button to launch the wizard.

5. Enter the User ID and Password to be used for deployment. This account must have administrator-level access on the target device.

6. Click **Next**. The Properties window opens.

7. Select the Installation Drive, and Data Drive, and Deployment Mode.
   For HPCA Enterprise Edition, you can choose one of three modes:
   - Streamlined (Standard) mode offers only data caching services to the Client Automation agents that the satellite serves.

   - Full service mode offers configuration services as well as data caching and OS configuration services to the Client Automation agents that the satellite serves.

   - Custom mode allows you to select specific services to enable on the satellite.

   Tip: For more information about deployment modes, refer to "Satellite Deployment Models" in the *HP Client Automation Enterprise Edition Getting Started and Concepts Guide*.

8. Click **Next**. The Schedule window opens.

9. Specify the run schedule for the deployment job. Select **Run: Now** to deploy the Satellite Server right away, or select **Run: Later** to schedule a date and time for deployment.

10. Click **Next**. The Summary window opens.

11. Review the summary information

12. Click **Submit**.

13. A Satellite Server Deployment job is created.

The Satellite Server download file is large. The deployment may take a long time if network traffic is heavy. You can check the status of the job in the Jobs Management area on the Management tab.

14. Click **Close** to exit the wizard.

Note: After a successful Satellite Server upgrade, HPCA resource data is converted from Apache format to classic Proxy Server format and moved to the Proxy Server Data location. For Example,
```
C:\Program Files\Hewlett-Packard\HPCA\Data\ProxyServer\static
```

Upgrading Proxy Servers

In classic versions of HPCA, a Integration Server-based Proxy Server was employed. In HPCA Core-Satellite 7.*xx* versions, an Apache-based Proxy Server is used as a part of Satellite Server.

HPCA Satellite Server 8.10 consists of Apache Server Data Cache and Integration Server-based Proxy Server components. The Apache Server Data Cache is used to store Patch Manager Gateway (Patch MGR) binaries. The Integration Server-based Proxy Server Data Cache is used to store CSDB resource data. Example, Software, OS Manager, Audit, and Security data. You can upgrade a classic Proxy Server to Satellite Server manually or through HPCA Console.

- Upgrading Proxy Server to Satellite Server Manually

- Upgrading Proxy Server to Satellite Server through HPCA Console

Upgrading Proxy Server to Satellite Server Manually

To upgrade the classic Proxy Server (RPS) to the Satellite Server:

1. Copy the `\Setup-Satellite\Media\satellite\win32` folder from HP Client Automation 8.10 media to a temporary location on RPS system. Example `C:\Temp`

2. Navigate to the `media\satellite\` folder in the temporary location.

3. Run the following command:
   ```
   migrate-satellite-unattended.cmd [-proxyserver-cache-dir] [-
   logfile] -install-satellite true
   ```

   where

   - `proxyserver-cache-dir`: is the target Proxy Server cache directory. This parameter is required. Example: `C:\Program Files\Hewlett-Packard\HPCA\Data\ProxyServer`

   - `logfile`: is full path and file name of the log to which messages will be written. This parameter is optional. Example: C:\temp\proxy-migration.log

   `-install-satellite [true|false]`: specifies if the Satellite Installer should be launched after any necessary cache migration is completed. Default is True.

   A sample command

   ```
   migrate-satellite-unattended.cmd -proxyserver-cache-dir "C:\Program
   Files\Hewlett-Packard\HPCA\Data\ProxyServer" -logfile
   "C:\temp\proxy-migration.log" -install-satellite true
   ```

4. After you upgrade to the Satellite server, you must synchronize it with its Core server. Before synchronizing the Satellite Server, you must run the First Time Setup Wizard to apply settings for the Satellite Server.See the Synchronize Satellite section for more details.

Note: After a successful upgrade from Proxy Server to Satellite Server, HPCA resource data is moved to the Proxy Server Data location. For Example,
```
C:\Program Files\Hewlett-Packard\HPCA\Data\ProxyServer\static
C:\Program Files\Hewlett-Packard\HPCA\Data\ProxyServer\dynamic
```

Upgrading Proxy Server to Satellite Server through HPCA Console

Use the Satellite Server Deployment Wizard to upgrade the Classic Proxy Server (RPS) and enable remote services, such as data caching.

To upgrade the Proxy Server:

Task 1: Add the Proxy Server to the Core and Satellite Servers group.

For information on how to add a device to the Core and Satellite group, see the Add a Satellite Server section in the *HP Client Automation Core and Satellite Enterprise Edition User Guide*.

Task 2: Upgrade the Proxy Server

1. On the **Configuration** tab, go to the **Infrastructure Management**, and then click **Satellite Management**.

2. Click the **Servers** tab.

3. Select the Proxy Server system that you added to the Core and Satellite Servers group in Task 1.

4. Click the **Install the Satellite Server** toolbar button to launch the wizard.

5. Enter the User ID and Password to be used for deployment. This account must have administrator-level access on the target device.

6. Click **Next**. The Properties window opens.

7. Select the Installation Drive, and Data Drive, and Deployment Mode.
   For HPCA Enterprise Edition, you can choose one of three modes:
   - Streamlined (Standard) mode offers only data caching services to the Client Automation agents that the satellite serves.

   - Full service mode offers configuration services as well as data caching and OS configuration services to the Client Automation agents that the satellite serves.

   - Custom mode allows you to select specific services to enable on the satellite.

   Tip: For more information about deployment modes, refer to "Satellite Deployment Models" in the HPCA Core and Satellite Getting Started and Concepts Guide.

8. Click **Next**. The Schedule window opens.

9. Specify the run schedule for the deployment job. Select **Run: Now** to deploy the Satellite Server right away, or select **Run: Later** to schedule a date and time for deployment.

10. Click **Next**. The Summary window opens.

11. Review the summary information

12. Click **Submit**.

13. A Satellite Server Deployment job is created.

The Satellite Server download file is large. The deployment may take a long time if network traffic is heavy. You can check the status of the job in the Jobs Management area on the Management tab.

14. Click **Close** to exit the wizard.

Note: After a successful upgrade from Proxy Server to Satellite Server, HPCA resource data is moved to the Proxy Server Data location. For Example,

```
<InstallDir>\Data\ProxyServer\static
<InstallDir>\Data\ProxyServer\dynamic
```

SQL Database Tables that must be Migrated

The following tables have had schema changes that require the tables to be re-created to generate the correct primary and foreign keys for HPCA version 8.10. This process is performed automatically by the `sqlmigrate.cmd` script.

`rWin32_WinSAT`

`rWin32_VideoController`

`rWin32_UserAccount`

`rWin32_USBController`

`rWin32_TimeZone`

`rWin32_SystemEnclosure`

`rWin32_SystemDriver`

`rWin32_StartupCommand`

`rWin32_SoundDevice`

`rWin32_SoftwareFeature`

`rWin32_SoftwareElement`

`rWin32_Share`

`rWin32_Service`

`rWin32_SerialPort`

`rwin32_quickfixengineering`

`rWin32_Product`

`rWin32_Processor`

`rWin32_Process`

`rWin32_Printer`

`rWin32_PortResource`

`rwin32_portablebattery`

`rWin32_PointingDevice`

`rWin32_PnPEntity`

`rWin32_PhysicalMemory`

`rWin32_ParallelPort`

`rWin32_PageFileUsage`

`rWin32_PageFileSetting`

`rWin32_PageFile`

`rWin32_OperatingSystem`

```
rWin32_NetworkLoginProfile

rWin32_NetworkConnection

rWin32_NetworkAdapterConf

rWin32_NetworkAdapter

rWin32_MotherboardDevice

rWin32_MemoryDevice

rWin32_MemoryArray

rWin32_LogicalProgramGroup

rWin32_LogicalMemoryConf

rWin32_LogicalDisk

rWin32_LoadOrderGroup

rWin32_Keyboard

rWin32_IRQResource

rWin32_IDEController

rWin32_Group

rWin32_FloppyDrive

rWin32_FloppyController

rWin32_Environment

rWin32_DMAChannel

rWin32_DisplayControllerConf

rWin32_DisplayConf

rWin32_DiskPartition

rWin32_DiskDrive

rWin32_DeviceMemoryAddress

rWin32_DesktopMonitor

rWin32_Desktop

rWin32_ComputerSystemProduct

rWin32_ComputerSystem

rWin32_CDROMDrive

rWin32_CacheMemory

rWin32_Bus

rWin32_BootConf

rWin32_BIOS
```

rwin32_baseboard

rWiFi_NetworkAdapter

rRegistry

rNVD_WBEMStatus

rNVD_UserAccount

rNVD_SolarisPatch

rNVD_Product

rNVD_PDASystem

rNVD_NISUserAccount

rNVD_NISGroupAccount

rNVD_MulticastStatistics

rNVD_INSTALLED_UNINSTALL

rNVD_INSTALLED_APPS

rNVD_GroupMember

rNVD_GroupAccount

rNVD_DownloadStatistics

rMSSD_FailurePredictStatus

rMSSD_AttributeData

rhp_biosstring

rhp_biossensor

rhp_biospassword

rhp_biosorderedlist

rhp_biosinteger

rhp_biosevent

rhp_biosenumeration

rCIM_UnixOperatingSystem

rCIM_UnixLocalFileSystem

rCIM_UnixComputerSystem

rCIM_StorageVolume

rCIM_SoftwareFeatureElements

rCIM_SoftwareFeature

rCIM_SoftwareElement

rCIM_Service

```
rCIM_SCSIInterface

rCIM_SCSIController

rCIM_ResidesOnExtent

rCIM_ProductSoftwareFeatures

rCIM_Product

rCIM_Processor

rCIM_Process

rCIM_ParallelController

rCIM_OperatingSystem

rCIM_NFS

rCIM_MediaPresent

rCIM_LogicalDiskBasedOnVolume

rCIM_LogicalDisk

rCIM_IDEController

rCIM_HPUX_SwBundles

rCIM_Export

rCIM_EthernetAdapter

rCIM_DVDDrive

rCIM_DiskDrive

rCIM_Directory

rCIM_ComputerSystem

rCIM_CDROMDrive

DeviceUserGroup

SMBiosInfo

Query

DeviceNotify

FileAudit

DeviceZRStates

DeviceZRState

DeviceSynopsis

HDeviceStatus

DeviceStatus

HDeviceState
```

```
DeviceState

DeviceServices

DeviceMap

HDeviceErrors

DeviceErrors

Audit_Type

Audit_Attrs

Audit_Event

Audit_Cat

Audit_AttrNames

HAppEvent

AppEvent

HAppRNPEvent

AppRNPEvent

HAppMSIEvent

AppMSIEvent

JOBTASK

HJOBSTAT

JOBSTAT

JOBPARM

ADInfo

HDeviceConfig

DeviceConfig
```

Migrating the HPCA SQL/Oracle Database Manually

Caution: This step is not required when migrating from version 7.80 or 7.90. It is required when migrating from version 7.50. If you already have a FOREIGN KEY CONSTRAINT set to the DEVICECONFIG.DEVICE_ID column on Inventory database tables, you can skip this step.

Instead of using the `sqlmigrate.cmd` script, you can migrate the HPCA SQL database manually after restoring your data.

Caution: This process should be performed only by an experienced HPCA database administrator.

The database tables listed in "SQL Database Tables that must be Migrated" (on page 27) have had schema changes that require the tables to be re-created to generate the correct primary and foreign keys. Data from these tables should be exported or stored in temporary tables prior to beginning the manual migration process.

To migrate the HPCA SQL database manually:

1. On the system hosting the HPCA Core, stop the HPCA Core service.

2. Export (or store in temporary tables) the data in the tables listed in "SQL Database Tables that must be Migrated" (on page 27).

3. Drop the tables listed in "SQL Database Tables that must be Migrated" (on page 27) .
   Caution: The order is important – drop the tables in the SAME order shown in "SQL Database Tables that must be Migrated" (on page 27).

4. Restart the HPCA Messaging Server service (to re-create the table schema).

5. Re-import your data into the tables.
   Caution: The order is important – import the data in the REVERSE order shown in "SQL Database Tables that must be Migrated" (on page 27).

   During the import process, data that violates database integrity will not be imported. Be sure to review this data to determine if it is still valid and still needed.

6. Start the HPCA Core service.

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Product name and version: HP Client Automation Enterprise Edition, 8.10

Document title: Migration Guide

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