HP Client Automation Starter and Standard Edition

For the Windows® operating system

Software Version: 8.10

Migration Guide

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Contents

Introduction

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

Note: This document applies only to HPCA Standard or Starter Edition Core and Satellite installations; it does not apply to HPCA "classic" (component-based) installations.

To upgrade an HPCA Enterprise Edition environment, see the *HPCA Enterprise Edition Migration Guide*for details.

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

- HPCA Standard and Starter Edition Core and Satellite version 7.50

- HPCA Standard and Starter Edition Core and Satellite version 7.80

- HPCA Standard and Starter 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.

System Requirements

HP Client Automation (HPCA) Standard and Starter Edition version 8.10 supports those database servers listed in the *HPCA Standard Edition Release Notes* and *HPCA Starter 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 9) before you begin the HPCA migration process.

The upgrade process includes four steps:

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.

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 media, copy the `\Setup-Core\migrate` folder to a temporary location (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 files. The script detects the space available when it runs and estimates the required space. This is a personality extraction utility and the space required is roughly as much as the currently installed size.

   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` directory.

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 process.

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. 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 migrated properly.

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. 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. Do not continue with the restore operation unless you carefully review any `actionrequired` messages in the preview report.

- You must review the changes required for the `rcs` module. The `rcs` migration logic detects any customizations you have made to the CSDB class schema and attempts to merge these forward. If CSDB class schema customizations are identified, an `actionrequired` message is generated 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.

- 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 applied any manual changes to the default Policy Server configurations, complete the following steps:
  i. 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.

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

  Note: Before continuing with the restore operation, you must review the `SUBNET_CREATE_INSTANCES.txt` file located at `C:\HPCABackup\HPCABackup\rcs\database\CLIENT\` for all the connections to the newly created subnets to ensure that the correct subnets are created after successful migration.

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.

   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).

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 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 the Core has been upgraded, you will need to upgrade any deployed components. See "Upgrading Deployed Components" (on page 17) 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.

Upgrading Deployed Components

Use these instructions to upgrade HPCA Standard or Starter 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 18)
- "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 11).

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

Upgrading HPCA Agent

To upgrade the HPCA Agent:

1. Use the Agent Deployment Wizard to deploy the latest HPCA Agent to all managed devices. The new HPCA Agent installation will upgrade the existing agent to the latest version.

2. Use the Reporting tab to verify that the HPCA Agent was upgraded. The version 8.10 HPCA Server deploys a version 8.10 Agent.
   A filter is available in **Search Options** > **Data Filters** > **Inventory Management Filters** > **Operational Filters** > **HPCA Agent Version**

If you upgraded an HPCA Agent without using the HPCA console to deploy the latest version, you will need to enable self-maintenance for upgraded HPCA Agents to receive the latest `rma.tkd`.

To enable self-maintenance for upgraded agents:

1. Create the following directory:
   `<InstallDir>\Media\extended_infrastructure\management_agent\rma`

   In this case, *InstallDir* is the location where you originally installed HPCA. By default, this is C:\Program Files\Hewlett-Packard\HPCA.

2. Copy the following file into the directory that you just created:
   `<InstallDir>\Media\client\default\win32\rma\rma.tkd`

3. Obtain the build number for `rma.tkd` by running the following command:
   `C:\Program Files\Hewlett-Packard\HPCA\ManagementPortal\nvdkit-hpca-rmp.exe version rma.tkd`

4. Create a text file called `selfmaintenance` with the following parameters and values:

   ```
   criticalRMABuildNum    rma_build
   expectedRMABuildNum    rma_build
   proactiveupgrade  0
   ```
   where *rma_build* is the build number that you found in step 3.

Do not use tab characters to separate parameters and values. Also, the filename should *not* contain an extension (for example .txt).

5. Place the selfmaintenance file in the following HPCA installation directory:
   InstallDir\Media\extended_infrastructure\management_agent\

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

Note: Before synchronizing the Satellite server with its Core server, you must restart the Messaging service on the Satellite server.

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

Note: Before synchronizing the Satellite server with its Core server, you must restart the Messaging service on the Satellite server.

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 Standard and Starter Editions, only Streamlined (Standard) deployment mode is available. This mode offers only data caching services to the Client Automation agents that the satellite serves.

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 Standard Edition User Guide* or the *HP Client Automation Core and Satellite Starter 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 Standard and Starter Editions, only Streamlined (Standard) deployment mode is available. This mode offers only data caching services to the Client Automation agents that the satellite serves.

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`

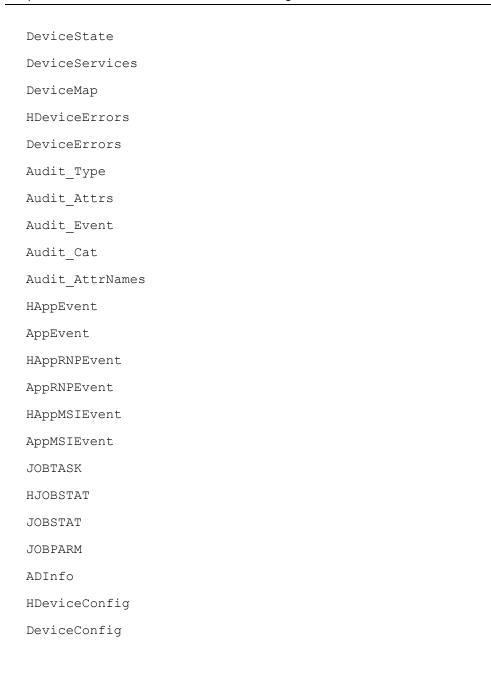`rWin32_PageFileSetting`

`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 25) 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 25).

3. Drop the tables listed in "SQL Database Tables that must be Migrated" (on page 25) .
    Caution: The order is important – drop the tables in the SAME order shown in "SQL Database Tables that must be Migrated" (on page 25).

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 25).

    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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