

# HP Asset Manager

Software version: 5.10

---

Integration with software distribution and configuration management tools

Document Release Date: June 2008  
Software Release Date: June 2008



# Legal Notices

## *Copyright Notices*

© Copyright 1994-2008 Hewlett-Packard Development Company, L.P.

## *Restricted Rights Legend*

Confidential computer software.

Valid license from HP required for possession, use or copying.

Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

## *Warranty*

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services.

Nothing herein should be construed as constituting an additional warranty.

HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

## *Trademark Notices*

- Adobe®, Adobe logo®, Acrobat® and Acrobat Logo® are trademarks of Adobe Systems Incorporated.
- Corel® and Corel logo® are trademarks or registered trademarks of Corel Corporation or Corel Corporation Limited.
- Java™ is a US trademark of Sun Microsystems, Inc.
- Microsoft®, Windows®, Windows NT®, Windows® XP, Windows Mobile® and Windows Vista® are U.S. registered trademarks of Microsoft Corporation.
- Oracle® is a registered trademark of Oracle Corporation and/or its affiliates.
- UNIX® is a registered trademark of The Open Group.

# Table of Contents

Introduction . . . . .	11
What is the integration of Asset Manager with software distribution and configuration management tools? . . . . .	11
For whom is the integration of Asset Manager with software distribution and configuration management tools intended? . . . . .	12
Which software distribution and configuration management tools can be integrated with Asset Manager? . . . . .	12
What are the contents of this guide . . . . .	12
How to read this guide . . . . .	14
Conventions used in this guide . . . . .	15
I. Integration with HP Client Automation . . . . .	17
Chapter 1. Overview . . . . .	19
Overview . . . . .	19
Terminology . . . . .	21
Deployment process . . . . .	21
Interactions between objects . . . . .	26
Chapter 2. Implementing required components . . . . .	29
Required components . . . . .	29

Optional components . . . . .	35
<b>Chapter 3. Creating and updating reference information . . . . .</b>	<b>43</b>
Computers . . . . .	43
User accounts . . . . .	45
Computer groups . . . . .	46
Domains . . . . .	47
Media . . . . .	48
Software packages . . . . .	49
<b>Chapter 4. Add or remove software, grant or remove the right to use a software application . . . . .</b>	<b>51</b>
Add or remove software . . . . .	51
Grant or remove the rights to use a software application . . . . .	55
Transmitting a software installation or removal work order to HP Client Automation . . . . .	58
Check the transmission of a software installation or removal work order to HP Client Automation . . . . .	58
Check the execution of a job by HP Client Automation . . . . .	59
Transmitting and executing a work order to grant or remove rights to use software to HP Client Automation . . . . .	59
Check the transmission and execution of a work order to grant or remove rights to use software to HP Client Automation . . . . .	60
<b>II. Integration with LANDesk Management Suite . . . . .</b>	<b>61</b>
<b>Chapter 5. Overview . . . . .</b>	<b>63</b>
What is the software distribution process? . . . . .	63
What are the main tables used with software distribution? . . . . .	69
<b>Chapter 6. Implementing required components . . . . .</b>	<b>71</b>
Asset Manager . . . . .	71
LANDesk Management Suite . . . . .	72
HP Device and Dependency Mapping . . . . .	73
HP Connect-It . . . . .	73
Asset Manager Automated Process Manager . . . . .	74

Chapter 7. Creating and updating reference information . . . . .	75
Target computers . . . . .	75
Distribution packages and scripts . . . . .	76
Delivery methods . . . . .	77
Chapter 8. Distributing a software package or a script . . . . .	79
Creating a scheduled task in Asset Manager . . . . .	79
Transmitting a new scheduled task to LANDesk Management Suite . . . . .	80
Checking the transmission of a scheduled task to LANDesk Management Suite . . . . .	81
Checking the execution of a scheduled task by LANDesk Management Suite . . . . .	82
III. Integration with other software distribution tools . . . . .	85
Chapter 9. Adapting the LANDesk Management Suite integration to another software distribution tool . . . . .	87
Adapting the process . . . . .	87
Adapting HP Connect-It scenarios . . . . .	87
Adapting Asset Manager Automated Process Manager modules . . . . .	88
IV. Appendixes . . . . .	89
A. Glossary . . . . .	91
Terminology specific to the HP Client Automation integration . . . . .	91
Terminology specific to the LANDesk Management Suite integration . . . . .	95
B. References . . . . .	97
Menus, navigation bar links and tabs . . . . .	97
Toolbar icons . . . . .	104

Interface options . . . . .	105
Tables . . . . .	105
Dependencies between tables . . . . .	107
Itemized lists . . . . .	108
Calculated fields . . . . .	109
Counters . . . . .	110
Actions and wizards . . . . .	110
Asset Manager Automated Process Manager modules . . . . .	112
<i>System data and Line-of-business data</i> . . . . .	113
Reports . . . . .	114
API . . . . .	114
Views . . . . .	115
Other documentation . . . . .	115
Workflow schemes . . . . .	116
<b>Index . . . . .</b>	<b>119</b>

---

# List of Figures

1.1. Steps of the deployment process . . . . .	22
1.2. Data interactions during the deployment process . . . . .	27
5.1. Software distribution process if you use HP Device and Dependency Mapping to inventory the computers . . . . .	66
5.2. Software distribution process if you use LANDesk Management Suite to inventory the computers . . . . .	69
5.3. Tables used with software distribution . . . . .	70





# List of Tables

2.1. Integration with HP Client Automation - required user license . . .	30
6.1. <i>Software distribution</i> module - Required user's license . . . . .	72
B.1. Menus and tabs (for the integration with HP Client Automation and LANDesk Management Suite) . . . . .	97
B.2. Menus and tabs (HP Client Automation) . . . . .	99
B.3. Menus and tabs (LANDesk Management Suite) . . . . .	103
B.4. Tables (integration with HP Client Automation) . . . . .	105
B.5. Tables (integration with LANDesk Management Suite) . . . . .	106
B.6. Dependencies between tables (integration with HP Client Automation) . . . . .	107
B.7. Dependencies between tables (integration with LANDesk Management Suite) . . . . .	108
B.8. Itemized lists (integration with HP Client Automation) . . . . .	109
B.9. Itemized lists (integration with LANDesk Management Suite) . . . . .	109
B.10. Calculated fields (integration with HP Client Automation) . . . . .	110
B.11. Actions and wizards (integration with HP Client Automation) . . . . .	111
B.12. Actions and wizards (integration with LANDesk Management Suite) . . . . .	112
B.13. Other documentation - list . . . . .	115
B.14. Workflow schemes - list . . . . .	116



---

# Introduction

---

## What is the integration of Asset Manager with software distribution and configuration management tools?

In this type of integration:

- 1 Asset Manager is used to *pilot* software distribution and configuration management tools by creating:

- Integration with HP Client Automation: Deployment work orders



Note:

A deployment work order:

- Adds or removes software to/from a selection of target computers
- Assigns or removes rights to use software to/from computers, computer groups, domains or user accounts

- Integration with LANDesk Management Suite: Scheduled tasks



Note:

A scheduled task is used to distribute a software package to or execute a script on a set of target computers.

- 2 The distribution tool is used to *execute* the deployment work orders or scheduled tasks created in Asset Manager.

---

## For whom is the integration of Asset Manager with software distribution and configuration management tools intended?

The integration of Asset Manager with software distribution and configuration management tools is intended for members of the IT team who are responsible for software distribution.

---

## Which software distribution and configuration management tools can be integrated with Asset Manager?

The following tools can be used:

- *Tools that have been integrated directly by HP*

Several tools have already been integrated.

Currently, they are:

- HP Client Automation
- LANDesk Management Suite

More software distribution and configuration management tools, which can be integrated with Asset Manager, may be added to future versions of the standard release.

- *Tools that you can integrate yourself*

You can integrate Asset Manager with other tools if you adapt the standard processes and components to the tool.

---

## What are the contents of this guide

### Section Integration with HP Client Automation

#### **Chapter Overview**

This chapter provides an overview of the Asset Manager and HP Client Automation integration; Description of the software add/remove process, how user rights to software are granted or removed, license rights check, list of the main tables used during these processes.

## **Chapter Implementing required components**

This chapter explains how to implement the components required to integrate Asset Manager with HP Client Automation: Asset Manager, HP Client Automation, inventory tool, HP Connect-It, Asset Manager Web, Java J2SDK, Apache AXIS, Apache ANT, Asset Manager Automated Process Manager and software license check module.

## **Chapter Creating and updating reference information**

This chapter explains how to create and update reference information: Computers, user accounts, computer groups, domains, software packages and media.

## **Chapter Add or remove software, grant or remove the right to use a software application**

This chapter explains how to add or remove software, grant or remove the right to use a software application: creating, transmitting, executing and checking deployment work orders.

## Section Integration with LANDesk Management Suite

### **Chapter Overview**

This chapter presents an overview of the integration of Asset Manager with LANDesk Management Suite: description of the distribution process, list of main tables used with software distribution.

### **Chapter Implementing required components**

This chapter explains how to implement the components required to integrate Asset Manager with LANDesk Management Suite: Asset Manager, LANDesk Management Suite, HP Device and Dependency Mapping, HP Connect-It and Asset Manager Automated Process Manager.

### **Chapter Creating and updating reference information**

This chapter explains how to create and update reference information: target computers, distribution packages and scripts, delivery methods.

### **Chapter Distributing a software package or a script**

This chapter explains how to distribute a software package or a script: creating, transmitting and executing scheduled tasks.

## Section Integration with other software distribution tools

### **Chapter Adapting the LANDesk Management Suite integration to another software distribution tool**

This chapter explains how to modify the standard process used to integrate Asset Manager and LANDesk Management Suite and, consequently, how to adapt the HP Connect-It scenarios.

## Section Appendixes

### **Appendix Glossary**

The glossary provides a definition of key terms used in the integration of Asset Manager with the software distribution tools.

### **Appendix References**

This appendix provides reference information on the integration of Asset Manager with the software distribution tools.

---

## How to read this guide

The following are different ways of using this guide, depending on your profile. The example used is for LANDesk Management Suite.

### Person responsible for LANDesk Management Suite integration

- 1 Chapter Overview [page 63]
- 2 Chapter Implementing required components [page 71]

### Person responsible for updating reference information

- 1 Chapter Overview [page 63]
- 2 Chapter Creating and updating reference information [page 75]

### Person responsible for creating scheduled tasks

- 1 Chapter Overview [page 63]
- 2 Chapter Distributing a software package or a script [page 79]

## Person responsible for customizing LANDesk Management Suite integration

- 1 Chapter Overview [page 63]
- 2 Chapter Implementing required components [page 71]
- 3 Chapter Creating and updating reference information [page 75]
- 4 Appendix Glossary [page 91]
- 5 Chapter Distributing a software package or a script [page 79]
- 6 Appendix References [page 97]

---

## Conventions used in this guide

The following is a list of conventions that are used in this guide:

Convention	Description
Java Script Code	Example of the code or command
Fixed width characters	DOS command, function parameter or data format
...	Portion of omitted code or command
<b>Note:</b> Extra information	Informative note
<b>Important:</b> Be careful...	Important information for the user
<b>Tip:</b> User tip	Tip to help you use the application
<b>Warning:</b> Exercise caution	Extremely important information for the user
<b>Object</b>	Asset Manager interface object: menu, menu entry, tab or button.

The following conventions are also used:

- The steps that we ask you to follow are listed in a defined ordered (in a numbered list). For example:
  - 1 First step
  - 2 Second step
  - 3 Third and last step
- All figures and tables are numbered according to the chapter in which they are found, and the order in which they appear in the chapter. For example, the title of the fourth table of chapter two will be prefixed by **Table 2-4**.





---

# I Integration with HP Client Automation



# 1 Overview

---

## Overview

This section details the different integration levels between HP Client Automation and Asset Manager.

### Reference data synchronization between HP Client Automation and Asset Manager

This part of the integration *synchronizes* reference data between HP Client Automation and Asset Manager.

Data must be synchronized on a regular basis to ensure that Asset Manager and HP Client Automation have the same data.

The following table presents the reference data:

Reference data in HP Client Automation	Equivalent in Asset Manager
<i>Devices: Computers</i>	Records in the <b>Portfolio items</b> (amPortfolio) table whose <b>External identifier</b> (ExtPfiId) field value is not empty and which are linked to a nature whose <b>Computer type</b> (seCPU-Type) field equals <i>Computer</i>

Reference data in HP Client Automation	Equivalent in Asset Manager
<i>Persons</i> : users	Records in the <b>Portfolio items</b> (amPortfolio) table whose <b>External identifier</b> (ExtPfiId) field value is not empty and which are linked to a nature whose <b>User account</b> (bUserAccount) field is selected and linked to a user
<i>Groups of devices</i> : Sets made up of devices and groups	Records in the <b>Portfolio items</b> (amPortfolio) table whose <b>External identifier</b> (ExtPfiId) field value is not empty and which are linked to a nature whose <b>Computer type</b> (seCPUType) field equals <i>Computer groups</i>
<i>Domains</i> : <i>Devices</i> , <i>user accounts</i> and <i>groups of devices</i> are organized hierarchically as a tree structure whose branches represent <i>domains</i>	Records in the <b>Portfolio items</b> (amPortfolio) table whose <b>External identifier</b> (ExtPfiId) field value is not empty and which are linked to a nature whose <b>Computer type</b> (seCPUType) field equals <i>Domain</i>
<i>Services</i> : The services define the media that are used to manipulate the different software. HP Client Automation uses services to add or remove software to/from devices or groups of devices.	Records in the <b>Software installations or utilizations</b> (amSoftInstall) table linked to a nature whose <b>Media</b> (bSetUpMedia) check box is selected and which are linked to a model whose <b>Configuration management media</b> (bCMService) check box is selected. Media are grouped as <i>software packages</i> .
<i>Policies</i> : Policies are used to grant (positive priority) or refuse (negative priority) access to software by devices, user accounts, groups of devices and domains.	Records in the <b>Named entitlements</b> (amEntitlement) table whose <b>Used for configuration management</b> (bAutomated) check box is selected
<i>Jobs</i> : Jobs describe software installation or removal work orders	Records in the <b>Work orders</b> (amWorkOrder) table linked to a nature whose <b>Work order type</b> (seWorkOrderType) field is any value except <i>Other</i> and whose <b>Used for configuration management</b> (bAutomated) check box is selected.  Each work order is associated with a record in the <b>Deployment tasks</b> (amCMTargetTask) table.

## Creating deployment work orders

This part of the integration creates deployment work orders that describe an operation whose execution will be handled by HP Client Automation:

- Installing software
- Removing software
- Assigning rights to use software

- Removing rights to use software

Wizards in Asset Manager are used to pilot these operations:

- 1 These wizards create *requests*.
- 2 Once validated and executed, these requests create *deployment work orders* and, for an installation or removal, *deployment tasks*.
- 3 The deployment work orders are sent to HP Client Automation as jobs.
- 4 HP Client Automation executes the jobs.
- 5 The status of these jobs is propagated to the corresponding work orders in Asset Manager.

## Checking license rights

This optional part of the integration implements *license right checks* between HP Client Automation and Asset Manager.

Before performing an installation, HP Client Automation queries the Asset Manager database to determine the status of a license linked with a media related to the service that is used.

If the associated media in Asset Manager has sufficient rights, the installation proceeds normally. Otherwise the installation is denied.

---

## Terminology

In the following sections, HP Client Automation or Asset Manager terminology will be used depending on the context.

The following table shows how the two terminologies match:

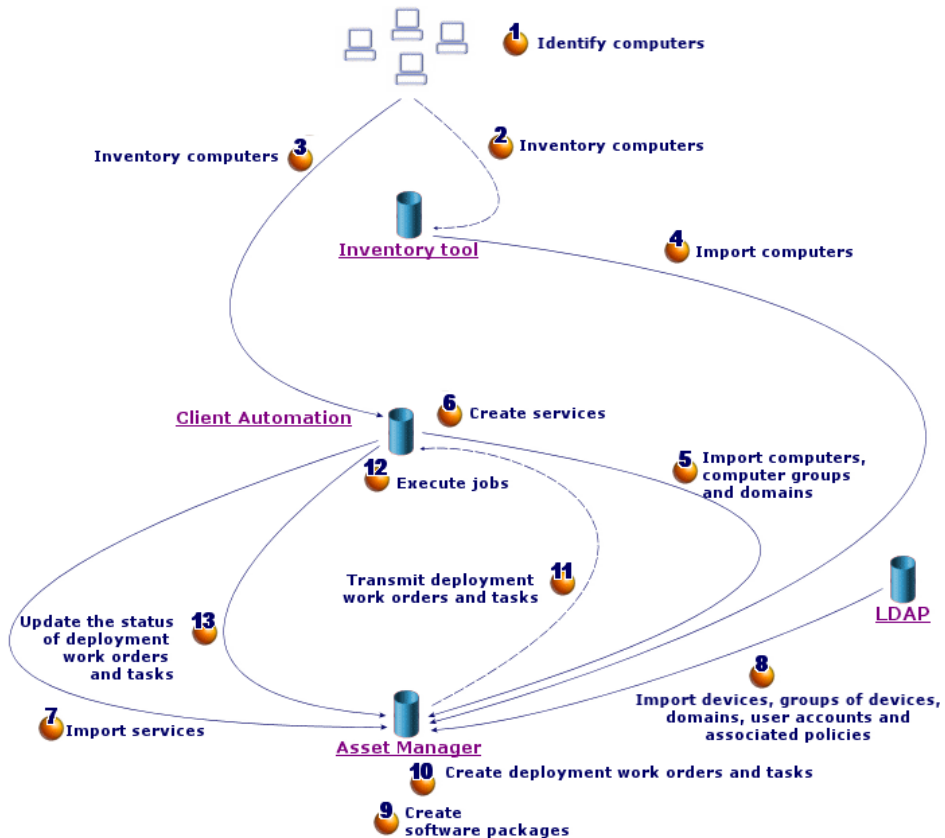
HP Client Automation element	Asset Manager element
Device	Computer
User account	User account
Group of devices	Computer group
Domain	Domain
Service	Media
Policy	Named entitlement
Job	Work order or deployment task

---

## Deployment process

The process is presented below:

Figure 1.1. Steps of the deployment process



## Inventory

► Steps 1, 2, 3 and 4 of figure [Steps of the deployment process](#) [page 22].

During this optional phase network hardware is inventoried.

Possible inventory tools are HP Device and Dependency Mapping or HP Client Automation's Inventory Manager (IM) component.

This phase helps complete the hardware information in the Asset Manager database.

This phase is organized as follows:

- 1 Inventory all network hardware via the inventory tool. Generally, this tool stores all collected information in its own database.

- 2 Import inventoried data into the Asset Manager production database using the HP Connect-It scenarios.

## Replicating reference data

- ▶ Steps 5, 6, 7 and 8 of figure [Steps of the deployment process](#) [page 22].

In this phase, data required for the deployment process is prepared.

This phase is mandatory but can be done in any order with the optional inventory phase.

Its goal is to synchronize data between HP Client Automation and/or an LDAP directory and Asset Manager so that they have the same references.

To carry out this phase, reference information must be collected from the HP Client Automation database and imported into the Asset Manager production database using HP Connect-It scenarios.

The reference data is the data that is present in section [Overview](#) [page 19]:

- Devices
- User accounts
- Groups of devices
- Domains
- Services
- Policies

The HP Client Automation component can access the data through different means:

- *Internal database*: HP Client Automation has its own database containing the reference data.

Managed entities (devices, user accounts, groups of devices and domains) are organized in the same way as for an LDAP directory.

Data imported into the Asset Manager database represents devices, groups of devices, domains, users accounts and services.

The import is done using HP Connect-It scenarios which connect to HP Client Automation via Web services.

The Web services query the internal database and return data requested by HP Connect-It. HP Connect-It then transmits the information to the Asset Manager database.

- *External LDAP directory*: HP Client Automation can connect to an LDAP directory to manage the configurations of clients listed in the directory. The reference data mentioned above is stored in the directory except for services which can only be accessed via the internal database.

When an LDAP directory is used, data stored in it is retrieved via a HP Connect-It scenario. The scenario connects directly to the directory's

source and propagates relevant information in the Asset Manager production database.

In both cases, this phase is primarily based on the replication of reference data which allows the Asset Manager and HP Client Automation systems to communicate on the same basis:

Data	HP Client Automation identifier	Table of the Asset Manager identifier	Asset Manager identifier
Computer	DistinguishName (DN)	Portfolio items (am-Portfolio)	External identifier (ExtP-fiId)
User account	DistinguishName (DN)	Portfolio items (am-Portfolio) amEmplDept (Departments and employees)	External identifier (ExtP-fiId) Bar code (BarCode)
Computer group	DistinguishName (DN)	Portfolio items (am-Portfolio)	External identifier (ExtP-fiId)
Domain	DN of each synchronized entry	Portfolio items (am-Portfolio)	External identifier (ExtP-fiId)
	For example, for a computer whose DN is <i>cn=client1,cn=demo,cn=hp,cn=com</i> , the <i>demo</i> , <i>hp</i> and <i>com</i> domains will be created in the Asset Manager database with <i>cn=demo,cn=hp,cn=com</i> , <i>cn=hp,cn=com</i> and <i>cn=com</i> identifiers, respectively.		
Service	Path composed of its domain, class and instance (DCI)	Portfolio items (am-Portfolio)	Code (Code)

## Software installation/removal, assignment/removal of software user rights

Steps 9, 10, 11, 12 and 13 of figure [Steps of the deployment process](#) [page 22].

When the reference data is synchronized between Asset Manager and HP Client Automation you can perform two types of operations from Asset Manager:

- Request that software be added to or removed from one or more computers.
- Assign or remove the right to use software to/from computers, user accounts, computer groups and domains.

Both of these operations are carried out via wizards.

### Adding and removing software

- 1 The wizards let you identify the software to install by selecting a media.
- 2 The wizards let you identify the target computers.
- 3 The wizards create a request.
- 4 The request must be validated (manually or following a workflow scheme).
- 5 The request must be executed manually (**Execute** button).



- The execution creates a deployment work order and deployment tasks.
- 6 A HP Connect-It scenario transmits the deployment work orders to HP Client Automation.
  - 7 HP Client Automation adds or removes the software.
  - 8 A HP Connect-It scenario updates the status of the deployment work orders and deployment tasks in the Asset Manager database.

---

 **Note:**

The wizards do not create new software installations in the Asset Manager database nor do they mark the software installations as having been removed from the computers.

This task is executed by HP Connect-It scenarios which import inventory information gathered by external tools.

---

### Granting or removing the right to use software

- 1 The wizards let you identify the software to authorize or refuse by selecting a media.
- 2 The wizards are used to identify computers, user accounts, computer groups and domains for which rights to use software are granted or removed.
- 3 The wizards create or delete the named entitlement.
- 4 The wizards create a request.
- 5 The request must be validated (manually or following a workflow scheme).
- 6 The request must be executed manually (**Execute** button).  
Execution creates a deployment work order (but not a deployment task).
- 7 A HP Connect-It scenario transmits the deployment work orders to HP Client Automation.
- 8 HP Client Automation assigns or removes rights (policies).
- 9 A HP Connect-It scenario updates the status of the deployment work orders and deployment tasks in the Asset Manager database.

### Verifying licenses

An optional module is available to check license rights of software that will be installed on clients.

If this module is deployed on the HP Client Automation system before software is physically installed on a client, the system calls the Asset Manager Web services to check if a sufficient number of license rights is available.

Several cases are possible:

- If the number of license rights is sufficient, the installation proceeds and the deployment process is carried out.

- If the number is insufficient, the installation is halted and the task fails.
- If the call fails for any reason, license compliance is not checked and the installation continues.

---

## Interactions between objects

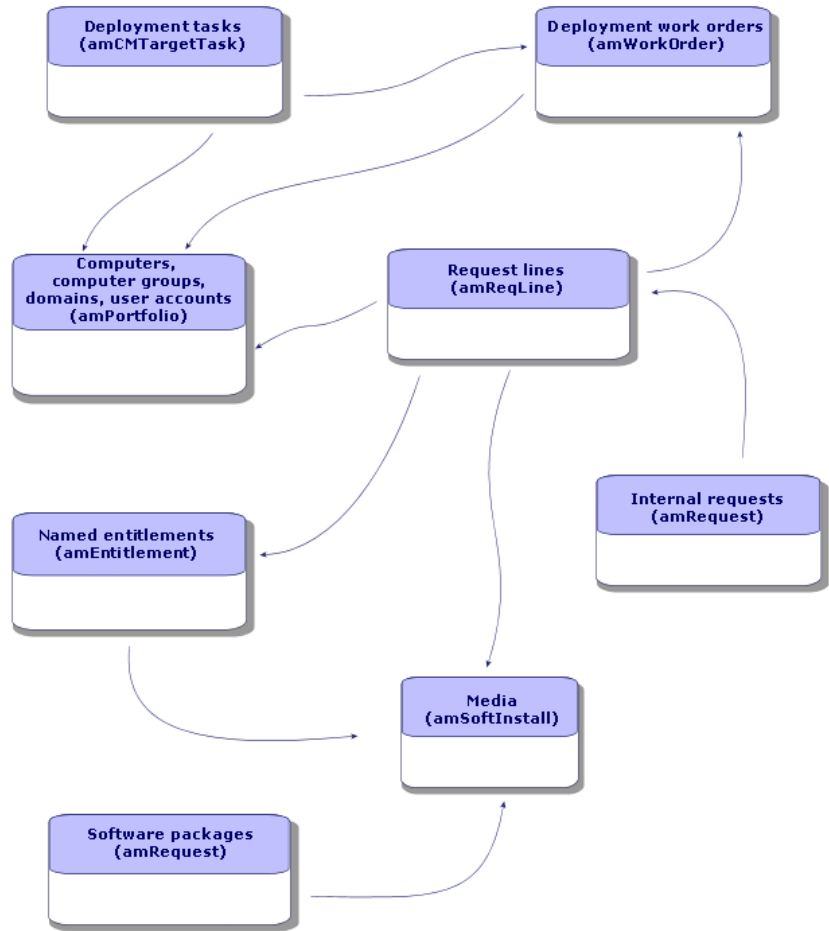
The following diagram presents the different data interactions that occur during the deployment process and that were introduced in the previous sections.

 Note:

This graphic does not exactly reflect the structure of the Asset Manager database

---

Figure 1.2. Data interactions during the deployment process





## 2 Implementing required components

As was presented in the [Overview](#) [page 19] chapter, certain phases of the task deployment process are mandatory, whereas others are optional.

The same is true for the components that need to be implemented.

---

### Required components

#### Asset Manager

##### Installing Asset Manager

The following applications from the Asset Manager suite must be installed:

Which application?	Which machine?	Purpose?
Windows or Web client	1 or more user stations	Create software packages and deployment work orders, approve requests.

To learn how to install these components: ► [Asset Manager \*Installation and upgrade\* guide](#).

##### Create the Asset Manager production database

The Asset Manager production database must have already been created.

To learn how to create your production database: ► *Asset Manager Administration* guide, chapter *Creating, modifying and deleting an Asset Manager database*.

### Activate the required license

Your Asset Manager user license must give you access to the following modules:

**Table 2.1. Integration with HP Client Automation - required user license**

Module to license	To access what objects?
Configurations	Computers, computer groups, user accounts, domains, media, software packages and deployment work orders
Portfolio	Internal requests
Administration	Workflow schemes
Software assets	<i>Manage software...</i> (sysSamLauncher) wizard ( <b>Portfolio management/ IT/ Licenses/ Manage software...</b> link on the navigation bar).

To find out how to activate a user's license: ► *Asset Manager Administration* guide, chapter *Creating, modifying and deleting an Asset Manager database*, section *Obtaining a license file*, and section *Modifying the license*.

### Activate required modules if you are accessing the database with a Windows client

You must activate the following modules (**File/ Activate modules** menu):

- Configurations
- Portfolio
- Administration
- Software assets

#### Note:

Each of these modules is activated by default for Web clients.

### Insert external data into the Asset Manager database

You must insert predefined data required by this module.

Several data types must be imported into the Asset Manager production database (notably, actions and calculated fields).

## Importing the *Line-of-business data* when you create the database

Follow the instructions in the *Administration* guide, chapter *Creating, modifying and deleting an Asset Manager database / Creating the database structure with Asset Manager Application Designer*.

On the **Data to import** page, select the *Configuration management - Line-of-business data* option.

## Importing the *Line-of-business data* into an existing database

Proceed in the following manner:

- 1 Execute Asset Manager Application Designer.
- 2 Select the **File/ Open** menu item.
- 3 Select the **Open database description file - create new database** option.
- 4 Select the `gbbase.xml` file which is located in the `config` sub-folder of the Asset Manager installation folder.
- 5 Start the database creation wizard (**Action/ Create database** menu).
- 6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

**Generate SQL script / Create database** page:

Fields	Value
Database	Select the connection to the database into which you wish to import the line-of-business data.
Creation	Import line-of-business data.
Use advanced creation options	Do not select this option.

**Creation parameters** page:

Fields	Value
Password	Enter the administrator's password.
	<p><b>Note:</b></p> <p>The Asset Manager database administrator is the record in the <b>Departments and employees</b> (amEmplDept) table for which the <b>Name</b> (Name) field is set to <i>Admin</i>.</p> <p>The database connection login is stored in the <b>User name</b> (UserLogin) field. The administration name is <i>Admin</i>.</p> <p>The password is stored in the <b>Password</b> field (LoginPassword).</p>

**Data to import** page:

Fields	Value
Available data	Select the option <i>Configuration management - Line-of-business data</i> .
Stop import if error	Select this option for the import to stop if a problem is encountered.
Log file	Full name of the file to which all import operations, including errors and warnings, are logged.

- Execute the options defined using the wizard (**Finish** button).

### Configuring the approval workflow scheme.

The *Validate software installation or removal requests* (OVCM\_REQ\_APPR) workflow scheme defines an approval process for software installation or removal requests.

By default it is configured to automatically validate each request.

Depending on your needs and request approval policy, it can be configured to use a more comprehensive process.

In this case, the **Start** activity and its event must not be modified but everything else can be reconfigured.

To learn how to configure the workflow schema: ► *Asset Manager Advanced Use* guide, chapter *Workflow*.



## HP Client Automation

### Install HP Client Automation

In order to benefit from the software distribution and entitlement module, the following HP Client Automation components must be installed and configured in your environment:

- Configuration Server (RCS)
- Management Portal (RMP) and its web services (RMP WS)
- Messaging Server (RMS)

To learn how to install and configure HP Client Automation components: ► HP Client Automation *Essentials*, *Configuration Server*, *Management Portal* and *Messaging Server* guides.

## HP Connect-It

### Install HP Connect-It

- HP Connect-It *User's guide*, chapter *Installation*.

### Configure HP Connect-It scenarios

You will need to configure the following HP Connect-It scenarios that are located in <Full path to the HP Connect-It installation folder>\scenario\hpovcm\cm<HP Client Automation version number>ac51:

HP Connect-It scenario	Transferred data	Source database	Target database
ws_groups_devices.scn	Identification information for devices, groups of devices and their domains	HP Client Automation	Asset Manager
ws_services.scn	Services	HP Client Automation	Asset Manager
ws_jobs.scn	Deployment work orders to add or remove software	Asset Manager	HP Client Automation
ws_policies.scn	Deployment work orders to assign or remove rights to use software	Asset Manager	HP Client Automation
ws_status.scn	Status of Jobs	HP Client Automation	Asset Manager

HP Connect-It scenario	Transferred data	Source database	Target database
ldap_directory_service_all.scn	Identification information for devices, groups of devices, user accounts and their domains, and existing policies for these entities	External LDAP directory, such as Novell Directory Service, used by HP Client Automation	Asset Manager
ldap_active_directory_all.scn	Identification information for devices, groups of devices, user accounts and their domains, and existing policies for these entities	External LDAP directory, such as Microsoft Active Directory, used by HP Client Automation	Asset Manager

Several configuration types must or can be used *for each* of the scenarios:

- Connector configuration
- Schedule configuration
- Mapping configuration

Four connectors are used by each of the scenarios:

- Asset Manager
- Management Portal
- LDAP

For information on how to configure connectors, refer to the HP Connect-It *Connectors* guide.

Execution of each scenario can be scheduled in one of two ways:

- By defining a scheduler in HP Connect-It
- By defining a scheduled module in Asset Manager Automated Process Manager.

In the first case, refer to the ► *HP Connect-It User's guide*, chapter *Implementing an integration scenario*.

In the second case, follow the instructions below for each of the scenarios to schedule:

- 1 Start Asset Manager Automated Process Manager and connect to the production database.
- 2 Select the **Tools/ Configure modules** menu.
- 3 Click **New**.
- 4 Enter a name, description and the following command:

```
"$connectit_exedir$/conitsvc.exe" -once -wpplog '$connectit_exedir$/.  
/scenario/hpovcm/cm<Número de version de HP Client Automation>ac51/XXX.s  
cn' -dc:AssetCenter.SERVER=$cnx$ -dc:AssetCenter.LOGIN=$login$ -dc:Asse  
tCenter.TEXTPASSWORD=$pwd$
```

where *XXX* represents the name of scenario to schedule.

- 5 Schedule execution as needed.
- 6 Click *Create*.

Some scenarios may need to have their mappings tailored to the operating system on which they are run:

- 1 `ws_jobs.scn`: A mapping in this scenario uses a counter defined in an external file.

This file must be read-writable and the mapping must have the correct path to access it.

To do this, open the `Create_Temporary_Group` mapping and on the **Additional script** tab check that the `path_counter_file` variable contains the full path to the `cmac_counter.txt` file (<Full path to the HP Connect-It installation folder>\scenario\hpovcm\cm<HP Client Automation version number>ac51\cpt\).

- 2 `ldap_directory_service_all.scn` and `ldap_active_directory_all.scn`: These scenarios are based on standard LDAP directories.

If some classes of the objects that were retrieved by the scenarios have been customized, their mapping may need to be modified so that the correct information is replicated in Asset Manager.

---

## Optional components

### Inventory tool

An inventory tool can be installed in the production environment to inventory network elements and retrieve information used to populate the Asset Manager database.

Multiple inventory tools are available. We recommend the following:

- HP Device and Dependency Mapping
  - To learn how to install and configure HP Device and Dependency Mapping:
    - ▶ HP Device and Dependency Mapping *Installation and Initial Setup* guide.
- HP Client Automation Inventory Manager (IM).
  - To learn how to install and configure the HP Client Automation IM module:
    - ▶ HP Client Automation *Inventory Manager* guide.

## Asset Manager Automated Process Manager

### Configure and activate Asset Manager Automated Process Manager modules

If Asset Manager Automated Process Manager is used to manage scenario schedules, new modules will need to be created and configured.

► To do this, please refer to section [Configure HP Connect-It scenarios](#) [page 33]

## Asset Manager Web Service

### Installing Asset Manager Web Service

You need this module in several cases, most notably:

- If you want to let Asset Manager users access the production database via a Web client.
- If you want to implement a compliance module on the HP Client Automation server enabling it to query the Asset Manager production database via the Web services in order to check license rights.

To learn how to install and configure Asset Manager Web Service: ►

*Asset Manager Installation and upgrade* guide, chapter *Installing, configuring and uninstalling Asset Manager Web*.

## Java J2SE v 5.0 JDK

### Install Java J2SE v 5.0 JDK

If you want to implement a compliance module on the HP Client Automation server, Java J2SE v 5.0 JDK must be installed in order to handle calls to the Asset Manager Web services.

To learn how to install Java J2SE v 5.0 JDK: ► [Sun Microsystems web page http://java.sun.com/javase/downloads/index\\_jdk5.jsp](http://java.sun.com/javase/downloads/index_jdk5.jsp) about Java J2SE v 5.0 JDK

---

 **Warning:**

The path to the Java J2SE v 5.0 JDK installation folder must not contain any spaces.

---

## Apache AXIS 1.2

### Install Apache AXIS 1.2

If you want to implement a compliance module on the HP Client Automation server, Apache AXIS 1.2 must be installed in order to handle calls to the Asset Manager Web services.

To learn how to install these AXIS 1.2: ► [Apache web page http://ws.apache.org/axis/java/install.html](http://ws.apache.org/axis/java/install.html) about AXIS.

#### Warning:

The path to the Apache AXIS 1.2 installation folder must not contain any spaces.

## Apache ANT 1.6.5

### Install Apache ANT 1.6.5

If you want to change the license rights compliance module, Apache ANT 1.6.5 must be installed in order to handle the project and its source code.

To learn how to install Apache ANT 1.6.5: ► [Apache web page http://ant.apache.org/manual/index.html](http://ant.apache.org/manual/index.html) about ANT.

#### Warning:

The Apache ANT 1.6.5 installation folder must not contain any spaces.

## License rights compliance module

### Implementation

The license rights compliance module enables HP Client Automation to query the Asset Manager database via the Asset Manager Web services in order to check software license rights before installing software on clients.

This module is optional in the software distribution and entitlement process.

To implement it, do the following:

- 1 Copy the <HP Connect-It installation folder>\datakit\hpovcm4x\cm\licence\_check\ac\_verify.tcl file to the following folder:  
<Full path to the HP Client Automation RCS installation folder>\lib.

---

 **Note:**

This file is used to call Asset Manager Web services which verify if the number of rights is sufficient for a given application, and then retrieves the return code.

Edit the file and specify:

- The **LOGIN** variable using the Asset Manager user name.
- The **PASSWORD** variable using the password corresponding to the Asset Manager user.

---

 **Warning:**

To implement HP Client Automation, a password must be assigned to the user. The password must not be empty.

- The **HOST** variable using the name of the host on which the Asset Manager Web services are installed
- The **PORT** variable using the host port that the Web services use to communicate
- The **WSTAG** variable using the tag of the Asset Manager Web service to query

---

 **Note:**

By default, WSTAG equals *Head*.

---

 **Note:**

The syntax of the Web service URL used to check licenses is as follows:

```
http://<HOST>:<PORT>/AssetManagerWebService/services/<WSTAG>/Portfolio
```

- The **path\_axis** variable with the path to the AXIS 1.2 library (normally this is <Full path to the AXIS installation folder>\lib)(see section [Apache AXIS 1.2](#) [page 37]).
- 2 Decompress the contents of the <HP Connect-It installation folder>\datakit\hpovcm4x\cm\licence\_check\ac\_verify.tcl\ac\_verify.zip file to the following folder:  
<Full path to the HP Client Automation RCS installation folder>\bin.
  - 3 Run the setup.tcl file located in the folder using the following command lines:

```
cd <Full path to the HP Client Automation RCS installation folder>\bin
```

```
hvdkit setup.tcl -host <host> -user <user> -pass <password>
```

#### Note:

This file configures HP Client Automation to run the `ac_verify.tcl` file.

- 4 Restart the services for the RMS, RCS and RIS (Radia Integration Server, RMP component) components.

### Prerequisite conditions

In order for the license rights check to operate correctly for a given media, the following conditions must be met:

- The media is part of a software package
- The software package has at least one request line linked to a software installation model
- The software installation model is included by at least one software counter (**Scope of the installations or utilizations to be counted** (SoftInstQuery) link)

### Customization

#### Note:

The operations described in this section are optional.

#### Prerequisites to customize the license rights compliance module

Apache ANT must be installed (► [Asset Manager Web Service](#) [page 36]).

#### Customizing the license rights compliance module

This section explains how to adapt the license rights compliance module to your environment.

This adaptation consists in editing source files and rebuilding the components used by HP Client Automation to query the Asset Manager database via Asset Manager Web Service.

To edit and compile the source files:

- 1 Unzip the contents of the <HP Connect-It installation folder>\datakit\hpovcm4x\cm\licence\_check\ac\_verify.tcl\ac\_verify\_source.zip file into a work folder such as C:\Work.
- 2 Edit the `setPath.bat` file and modify the following parameters:
  - **JAVA\_HOME**: Full path to the Java J2SE v 5.0 JDK installation folder (see section [Java J2SE v 5.0 JDK](#) [page 36])

- *ANT\_HOME*: Full path to the Apache ANT installation folder (see section [Asset Manager Web Service](#) [page 36])
  - *STUB\_HOME*: Full path to the work folder that you just created.
  - *AXIS\_HOME*: Full path to the AXIS installation folder (see section [Apache AXIS 1.2](#) [page 37])
- 3 Edit the `ant.properties` file and modify the following parameters:
    - *ws.host*: Asset Manager Web Service host
    - *ws.port*: Port to access Asset Manager Web Service
    - *ws.user*: Login that Asset Manager Web Service uses to connect to the Asset Manager database
    - *ws.password*: Password associated with the login that Asset Manager Web Service uses to connect to the Asset Manager database
  - 4 Edit the `build.xml` file and specify the *lib* variable (AXIS lib folder), for example:

```
<property name="lib" value="C:\<Full path to the AXIS installation folder>\lib"/>
```

- 5 Open a DOS command prompt.
- 6 Change to the work folder (for example, `C:\Work`).
- 7 Execute `SetPath.bat`.

This updates the environment variables.

- 8 Execute `runAnt.cmd`.

This:

- Empties the contents of the `classes` and `stubSrc` folders when these folders exist and contain files
- Generates classes corresponding to Asset Manager Web Service and classes corresponding to the source code in the `src` folder.



**Note:**

This operation may take some time to complete (more than 30 minutes).

- 9 Execute `createJar.bat`.

This generates a `ac_verify_RunTime.jar` file that contains all the classes in the `classes` folder.

The `ac_verify_RunTime.jar` file contains the `ac_verify.class` class that is used by HP Client Automation to check if there are sufficient license rights.

- 10 Copy the `ac_verify_RunTime.jar` file into `<HP Client Automation installation folder>\ConfigurationServer\bin`.



## Operation of the license rights compliance module

Before installing software, HP Client Automation uses the `ac_verify.java` file, which is located in the `src\portfolio` folder, to query Asset Manager via Asset Manager Web Service in order to check if there are sufficient license rights.

Below is the list of arguments used:

```
<code> -u <login> -w <password> -h <host> -p <port> -t <tag>
```

with:

- *code*: **Code** (Code) field of the portfolio item that describes the software license to install
- *login*: Login that Asset Manager Web Service uses to connect to the Asset Manager database
- *password*: Password associated with the login that Asset Manager Web Service uses to connect to the Asset Manager database
- *host*: Asset Manager Web Service host
- *port*: Port to access Asset Manager Web Service
- *tag*: Code that identifies the Asset Manager Web Service status to use

If an error occurs during the query (for example, no portfolio item found, incorrect login or password), the value `4` is returned with an error message.

If no error occurs during the query, the value `0` is returned. Also, if there are insufficient license rights, the *No available license for: <Portfolio item code>* is also returned.

To find out if there are sufficient rights, the Web service searches for the portfolio item that corresponds to the media and tests the value of the *The service has sufficient license rights* (OVCMServiceHasEnoughLicense) calculated field.

The calculated field is evaluated by Asset Manager. Its value is *Yes* if the following conditions are met:

- The media is part of a software package
- The software package has request lines linked to a software installation model
- One of these software installation models is included by software counters (**Scope of the installations or utilizations to be counted** (SoftInstQuery) link)
- The **Rights count** (dLicUseRights) field for one of these counters has a value that is greater than the value in the **Installations/Utilizations count** (dSoftInstallCount) field.



## 3 Creating and updating reference information

The following reference information must be present in the Asset Manager production database before a deployment work order can be created and executed:

- [Computers](#) [page 43]
- [User accounts](#) [page 45]
- [Computer groups](#) [page 46]
- [Domains](#) [page 47]
- [Media](#) [page 48]
- [Software packages](#) [page 49]

This chapter explains how to enter the reference information.

---

### Computers

#### Why and where do the computers need to be referenced?

To ensure that software is distributed to a target computer properly, the computer must be identified in the same manner in:

- The *Asset Manager database*. This enables the computer to be referenced by deployment tasks created in Asset Manager
- The *HP Client Automation database*. This enables the computer to be referenced by work orders exported to HP Client Automation

- The *computer itself*. This enables the computer to be found when the job is executed by HP Client Automation

## How are computers imported?

Two possibilities exist:

- The Asset Manager database has already been populated via an integration with an inventory tool.

In this case, network computers are already known and a large amount of data has already been entered.

- The computers have not been inventoried and the database does not have this information.

Computers are imported (creation or update) via HP Connect-It scenarios (`ws_groups_devices.scn`, `ldap_active_directory_all.scn` and `ldap_directory_service_all.scn`). What follows is the reconciliation method that reflects the two types of use cases:

- 1 First reconciliation: Done using the computer's MAC address.

If the computer already exists in the database and its MAC address has been populated (via an inventory), the scenario completes the information and adds the computer's DN.

- 2 Second reconciliation: If the MAC address is unknown, the scenario tries using the full name of the computers.

If a computer is found using this key, the DN is added to its list of information.

- 3 Third reconciliation: If the two first reconciliations failed, the scenario tries using the computer's DN. This may mean that the computer was entered into the production database without a MAC address.

If all reconciliation attempts fail, the computer is created with the required information, including the DN which is replicated (see the reference data chapter, section [Replicating reference data](#) [page 23]).

## How are computers identified in the Asset Manager database?

A computer is a record in the **Portfolio items** (`amPortfolio`) table whose **External identifier** (`ExtPfiId`) field value is not empty and which is linked to a nature whose **Computer type** (`seCPUtype`) field equals *Computer*.

---

## User accounts

### Why and where do user accounts need to be referenced?

An LDAP directory defines the user account entity.

HP Client Automation can then define policies for these user accounts in order to authorize or refuse access to software.

In order for a user account to be managed in the software distribution and entitlement process, it must be identified in the same manner in:

- The *Asset Manager database*. This enables the user account to be referenced by scheduled tasks created in Asset Manager
- The *HP Client Automation database*. This enables the user account to be referenced by the work orders exported to HP Client Automation
- The *user account itself*. This enables the user account to be found when the job is executed by HP Client Automation

### How are user accounts imported?

User accounts are imported by HP Connect-It scenarios

(`ldap_active_directory_all.scn` and

`ldap_directory_service_all.scn`) which use a DN based reconciliation method. If the object does not already exist, they create two types of information:

- 1 A portfolio item corresponding to the user account, linked to a model, itself linked to a nature whose **User account** (bUserAccount) option is checked
- 2 An associated user

These two objects have the DN in their identifier field (see the [Replicating reference data](#) [page 23] section of the reference data chapter).

### How can a user account be identified in the Asset Manager database?

A user account is a record in the **Portfolio items** (amPortfolio) table whose **External identifier** (ExtPfiId) field value is not empty and which is linked to a nature whose **User account** (bUserAccount) field is selected and linked to a user.

---

## Computer groups

### Why and where do the computer groups need to be referenced?

Computer groups define sets of entities which can be computers or computer groups.

Entities can be grouped by common characteristics. Doing this will optimize software distribution and entitlement.

In order for a computer group to be managed in the deployment process, it must be identified in the same manner in:

- The *Asset Manager database*. This enables the computer group to be referenced by the tasks created in Asset Manager
- The *HP Client Automation database*. This enables the computer group to be referenced by the work orders exported to HP Client Automation

### How are computer groups imported?

Computer groups are imported by HP Connect-It scenarios (*ws\_groups\_devices.scn*, *ldap\_active\_directory\_all.scn* and *ldap\_directory\_service\_all.scn*) which use a DN based reconciliation method. If the object does not already exist, they create a computer linked to a nature whose *Computer type* (seCPUType) field equals *Computer group*.

Its members are added to it when they are replicated and establish a client-resource relationship whose **Dependency type** (CRType) link equals **Belongs to group**.

The portfolio item model is different depending on its origin:

- **LDAP Group**, if it is from an LDAP directory
- **Group for configuration management**, if its from the internal HP Client Automation database.

Both models have a nature whose **Computer type** (seCPUType) field equals *Computer group*.

▶ [Replicating reference data \[page 23\]](#).

### How is a computer group identified in the Asset Manager database?

A computer group is a record in the **Portfolio items** (amPortfolio) table whose **External identifier** (ExtPfiId) field value is not empty and which is linked to a nature whose **Computer type** (seCPUType) field equals *Computer group*.

---

## Domains

### Why and where do the domains need to be referenced?

Domains group sets of entities (also called entries) which can be computers, user accounts and computer groups that share a common name space.

Domains define a hierarchy.

They are present in an LDAP directory and in the HP Client Automation internal database which enables policies to be assigned to them.

They must be referenced in the same manner in:

- The *Asset Manager database*. This enables the computer to be referenced by scheduled tasks created in Asset Manager
- The *HP Client Automation database*. This enables the computer to be referenced by work orders exported to HP Client Automation

### How are domains imported?

Domains are imported via HP Connect-It scenarios (`ws_groups_devices.scn`, `ldap_active_directory_all.scn` and `ldap_directory_service_all.scn`) when each entry is replicated.

A domain is represented by:

- A portfolio item associated with an asset
- An entry in the computers table linked to the portfolio item

The portfolio item model is linked to a nature whose **Computer type** (seCPUType) field equals *Domain*.

The identifiers of these two associated objects are reconstructed from the DN of its entry via the following method:

If a computer whose DN is `cn=client1,cn=demo,cn=hp,cn=com` is replicated, the *demo*, *hp* and *com* domains will be created with the `cn=demo,cn=hp,cn=com`, `cn=hp,cn=com` and `cn=com` values for the **External identifier** (ExtPfiId) field.

► [Replicating reference data](#) [page 23].

### How is a domain identified in the Asset Manager database?

A domain is a record in the **Portfolio items** (amPortfolio) table whose **External identifier** (ExtPfiId) field value is not empty and which is linked to a nature whose **Computer type** (seCPUType) field equals *Domain*.

---

## Media

### Why and where do media need to be referenced?

Before a job can be created and executed, a service must be able to be assigned to it.

Services are defined in their entirety in HP Client Automation.

As these jobs are created in Asset Manager as work order deployments and services as media, media must be able to be selected in the Asset Manager database.

Also, part of the information concerning the services must be exported from the HP Client Automation database to the media in the Asset Manager database.

### How are services imported?

Services are imported via a HP Connect-It scenario (`ws_services.scn`) whose reconciliation method is based on the DCI.

Services are imported as a software installation linked to a model corresponding to the replicated service type, which itself is linked to a nature whose **Media** (`bSetUpMedia`) option is selected.

Since the information is not available in HP Client Automation, the description of the software applications that can be installed by the media must be added in order to enable the licenses associated with them to be managed.

Each media can be linked to a software package (see below in this chapter).

► [Replicating reference data \[page 23\]](#).

### How is a configuration management media identified in the Asset Manager database?

A configuration management media is a portfolio item linked to a model whose **Configuration management media** (`bCMSservice`) check box is selected and to a nature whose **Media** (`bSetUpMedia`) check box is selected.



---

## Software packages

### Why and where do the software packages need to be created?

Software packages are created in their entirety in Asset Manager.

They enable media which reference the same software entity to be grouped.

For example, the *MS Office* software package includes the *MS Word* and *MS Excel* media, etc.

### How are software packages created?

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Display the software packages (**Portfolio management/ IT/ DML/ Software packages** link on the navigation bar).
- 4 Create a new software package (**New** button).

---

#### Note:

This adds a record to the **Requests** (amRequest) table.

The **Req. status** (seStatus) field is set to *Standard request* and the **Software package** (bSoftPackage) check box is selected. This determines that the standard request corresponds to a software package.

- 5 If the software package is part of the DSL, select **DSL** in the **Certification** field.  
This criterion is taken into account by the wizards that create the deployment tasks: It is used to distinguish *Software packages* from *Authorized software packages*.
- 6 On the **Composition** tab, add the request lines that will be taken into account in the procurement cycle.
- 7 Populate all required fields and save the software package.

---

#### Tip:

Do not populate the **Media** tab at this stage.

► [How to link media that have not yet been linked to a software package](#)  
[page 50]

---

## How to link media that have not yet been linked to a software package

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Start the *Link media to a software package...* wizard (sysOVCMReconcilingDSLRefMedia) (**Portfolio management/ IT/ Universal CMDB/ Link media to a software package...** link on the navigation bar).
- 4 Provide the information on each of the pages of the wizard and then click finish.

---

 **Note:**

The list of media is taken into account by the wizards that create deployment tasks: This lets you find the software package to which a given media belongs.

---

---

## 4 Add or remove software, grant or remove the right to use a software application

Asset Manager is used to pilot the addition or removal of software as well as the assignment or removal of the right to use software.

This is done by creating requests via Asset Manager wizards.

Once validated and executed, these requests create deployment work orders and, for assignment or removal of rights to use software, deployment tasks.

These deployment work orders and tasks are transmitted to HP Client Automation as jobs via HP Connect-It scenarios.

HP Client Automation executes the jobs.

The job transmission and execution results are automatically sent to Asset Manager via HP Connect-It scenarios. This updates the deployment work orders and tasks.

---

### Add or remove software

There are several ways to add or remove software.

This section presents the different ways.

#### Add or remove software to/from locations

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.

- 3 Start the *Manage software...* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 4 On the **Manage software...** page, select **Define user rights and add or remove software**.
- 5 Click **Next**.
- 6 On the **Define user rights and add or remove software** page, click **Add or remove software to/from locations**.  
This starts the *Add or remove software to/from locations* (sysOVCMLocations) wizard.
- 7 Provide the information on each of the pages of the wizard and then click finish.
- 8 Exit the wizard (**OK** button).
- 9 The wizard creates an internal request with the information that was provided.

The deployment work order is only created in Asset Manager if the request is validated (if the **Req. status** (seStatus) field is set to *Validated*).

► [Configuring the approval workflow scheme](#). [page 32].

- 1 Display the request's detail (**Portfolio management/ Extended portfolio/ Internal requests** link on the navigation bar).
- 2 Click **Execute**.
- 3 Select the line to execute, then exit the wizard.
- 4 The wizard creates the corresponding deployment work order and the associated deployment tasks.
- 5 Close the wizard (**OK** button).

Once the request is validated, the lines of the request must be executed:

The deployment work orders can be accessed via the **Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar.

## Add or remove software for users

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Start the *Manage software...* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).

- 4 On the **Manage software...** page, select **Define user rights and add or remove software**.
- 5 Click **Next**.
- 6 On the **Define user rights and add or remove software** page, click **Add or remove software for users**.

This starts the *Add or remove software for users...* (sysOVCMLocations) wizard.

- 7 Provide the information on each of the pages of the wizard and then click finish.
- 8 Exit the wizard (**OK** button).
- 9 The wizard creates an internal request with the information that was provided.

The deployment work order is only created in Asset Manager if the request is validated (if the **Req. status** (seStatus) field is set to *Validated*).

► [Configuring the approval workflow scheme](#). [page 32].

Once the request is validated, the lines of the request must be executed:

- 1 Display the request's detail (**Portfolio management/ Extended portfolio/ Internal requests** link on the navigation bar).
- 2 Click **Execute**.
- 3 Select the line to execute, then exit the wizard.
- 4 The wizard creates the corresponding deployment work order and the associated deployment tasks.
- 5 Close the wizard (**OK** button).

The deployment work orders can be accessed via the **Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar.

## Add or remove software to/from computers

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Start the *Manage software...* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 4 On the **Manage software...** page, select **Define user rights and add or remove software**.
- 5 Click **Next**.

- 6 On the **Define user rights and add or remove software** page, click **Add or remove software to/from computers**.

This starts the *Add or remove software to/from computers...* (sysOVCMGeneric) wizard.

- 7 Provide the information on each of the pages of the wizard and then click finish.
- 8 Exit the wizard (**OK** button).
- 9 The wizard creates an internal request with the information that was provided.

The deployment work order is only created in Asset Manager if the request is validated (if the **Req. status** (seStatus) field is set to *Validated*).

► [Configuring the approval workflow scheme](#). [page 32].

Once the request is validated, the lines of the request must be executed:

- 1 Display the request's detail (**Portfolio management/ Extended portfolio/ Internal requests** link on the navigation bar).

- 2 Windows client: Click **Execute**.

Web client: Select *Execute* from the **Contextual actions** drop-down list.

- 3 Select the line to execute, then exit the wizard.

- 4 The wizard creates the corresponding deployment work order and the associated deployment tasks.

- 5 Close the wizard (**OK** button).

The deployment work orders can be accessed via the **Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar.

## Remove software from a computer

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Display the computers (**Portfolio management/ IT/ IT equipment/ Computers** link on the navigation bar).

- 4 Select the computer.

- 5 Windows client: Click the **Remove** button.

Web client: Select *Remove* from the **Contextual actions** drop-down list.

This starts the *Remove software from a computer...* (sysOVCMRemoveSoftFromCpu) wizard.

- 6 Provide the information on each of the pages of the wizard and then click finish.

- 7 Exit the wizard (**OK** button).
- 8 The wizard creates an internal request with the information that was provided.

The deployment work order is only created in Asset Manager if the request is validated (if the **Req. status** (seStatus) field is set to *Validated*).

► [Configuring the approval workflow scheme](#). [page 32].

Once the request is validated, the lines of the request must be executed:

- 1 Display the request's detail (**Portfolio management/ Extended portfolio/ Internal requests** link on the navigation bar).
- 2 Windows client: Click **Execute**.  
Web client: Select *Execute* from the **Contextual actions** drop-down list.
- 3 Select the line to execute, then exit the wizard.
- 4 The wizard creates the corresponding deployment work order and the associated deployment tasks.
- 5 Close the wizard (**OK** button).

The deployment work orders can be accessed via the **Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar.

---

## Grant or remove the rights to use a software application

### Grant or remove the rights to use a software application

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Start the *Create or delete a named entitlement...* (sysSamLauncher) wizard (**Portfolio management/ IT/ Configuration management/ Create or delete a named entitlement...** link on the navigation bar).
- 4 Provide the information on each of the pages of the wizard and then click finish.
- 5 Exit the wizard (**OK** button).
- 6 Using the information which was provided, the wizard creates an internal request and a named entitlement for each target entity.

The **Purpose** (ReqPurpose) field of each request has the value *Create a named entitlement for the media: 'XXX'* or *Delete a named entitlement for the media: 'XXX'*.

The **Name** (Name) field of each named entitlement that is created has the value *Media 'XXX'*.

Once the request is validated (the **Req. status** (seStatus) field is set to *Validated*) the lines of the request must be executed in order to create the deployment work order and submit it to HP Client Automation:

- 1 Display the request's detail (**Portfolio management/ Extended portfolio/ Internal requests** link on the navigation bar).
- 2 Click **Execute**.
- 3 Select the line to execute, then exit the wizard.
- 4 The wizard creates the corresponding work order.
- 5 Close the wizard (**OK** button).

 **Tip:**

To increase user friendliness in the Windows client, customize the automated named entitlements screen by creating a virtual hierarchy.

For example, you can group the entitlements by media:

- 1 Open the screen and right click the **Media** field.
- 2 Select **Group by this field** from the shortcut menu.

The list is sorted by media, each media defines a level in the hierarchy.

The named entitlements can be accessed via the **Portfolio management/ IT/ Configuration management/ Named entitlements** link, and the associated work orders via the **Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar.

 **Note:**

When rights are assigned to use a software application, you can force the deployment of media to the selected target computers and groups.

To do this check *Also add the software* or *Also remove the software* on the last page of the wizard.

In this case, the action creates a deployment task that follows the same process as the one described in this chapter.

## Remove rights to use software

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.



- 3 Display the named entitlements (**Portfolio management/ IT/ Configuration management/ Named entitlements** link on the navigation bar).
- 4 Select the named entitlement to remove.
- 5 Windows client: Click **Del. Req.**  
Web client: Select *Del. req.* from the **Contextual actions** drop-down list.  
This starts the *Delete named entitlement...* (sysOVCMContextRemoveEntitlement) wizard.
- 6 Provide the information on each of the pages of the wizard and then click finish.
- 7 Exit the wizard (**OK** button).
- 8 Using the information which was provided, the wizard creates and displays an internal request to remove the named entitlement.

The value of the request's **Purpose** (ReqPurpose) field is *Delete the named entitlement for the media*.

Once the request is validated (the **Req. status** (seStatus) field is set to *Validated*) the lines of the request must be executed in order to create the deployment task and submit the user rights removal request to HP Client Automation:

- 1 Display the request's detail (**Portfolio management/ Extended portfolio/ Internal requests** link on the navigation bar).
- 2 Click **Execute**.
- 3 Select the line to execute, then exit the wizard.
- 4 The wizard creates the corresponding work order.
- 5 Close the wizard (**OK** button).

 **Tip:**

To increase user friendliness, customize the named entitlements screen by creating a virtual hierarchy.

For example, you can group the entitlements by media:

- 1 Open the screen and right click the **Media** field.
- 2 Select **Group by this field** from the shortcut menu.

The list is sorted by media, each media defines a level in the hierarchy.

The named entitlements can be accessed via the **Portfolio management/ IT/ Configuration management/ Named entitlements** link, and the associated work orders via the **Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar.

---

## Transmitting a software installation or removal work order to HP Client Automation

A software installation or removal work order is only transmitted to HP Client Automation by the `ws_jobs.scn` HP Connect-It scenario if, in the work order's detail, the value of the **Transmission status** (amESDTask) field on the **General** tab is *To transmit*.

Deployment work orders are transmitted to HP Client Automation by the `ws_jobs.scn` HP Connect-It scenario.

To automate execution of the scenario: ► [Configure HP Connect-It scenarios](#) [page 33].

To check this, make sure that one of the deployment work orders created in Asset Manager is present in the HP Client Automation database.

---

## Check the transmission of a software installation or removal work order to HP Client Automation

The transmission status of software installation or removal work orders transmitted to HP Client Automation is updated by HP Connect-It scenario `ws_jobs.scn`.

### Update the transmission status automatically

To automate execution of the scenario: ► [Configure HP Connect-It scenarios](#) [page 33].

### Check the transmission status

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Display the deployment work orders (**Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar).
- 4 Select the deployment work order to check.
- 5 Look at the **Job status state** (JobStatusState) field.

---

## Check the execution of a job by HP Client Automation

### Update the execution status of the jobs

The execution status of jobs executed by HP Client Automation is updated by HP Connect-It scenario `ws_status.scn`.

To automate execution of the scenario: ► [Configure HP Connect-It scenarios](#) [page 33].

### Check the execution status of a deployment work order

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Display the deployment work orders (**Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar).
- 4 Select the deployment work order to check.
- 5 Look at the **Job status state** (JobStatusState) field.
- 6 Display the deployment tasks (**Portfolio management/ IT/ Configuration management/ Deployment tasks** link on the navigation bar).
- 7 Select the deployment task to check.
- 8 Look at the **Job status code** (JobStatusCode) and **Job status state** (JobStatusState) fields.

---

## Transmitting and executing a work order to grant or remove rights to use software to HP Client Automation

A work order to grant or remove rights to use software is only transmitted to HP Client Automation by the `ws_policies.scn` HP Connect-It scenario if, in the work order's detail, the value of the **Transmission status** (amESDTask) field is *To transmit*.

Deployment work orders are transmitted to HP Client Automation by the `ws_policies.scn` HP Connect-It scenario.

To automate execution of the scenario: ► [Configure HP Connect-It scenarios](#) [page 33].

To check this, make sure that one of the transmitted deployment work orders triggered the creation of the policy in the HP Client Automation database.

---

## Check the transmission and execution of a work order to grant or remove rights to use software to HP Client Automation

The transmission and execution status of work orders to grant or remove rights to use software transmitted to HP Client Automation is updated by HP Connect-It scenario `ws_policies.scn`.

### Update the transmission status automatically

To automate execution of the scenario: ► [Configure HP Connect-It scenarios](#) [page 33].

### Check the transmission status

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your production database.
- 3 Display the deployment work orders (**Portfolio management/ IT/ Configuration management/ Deployment work orders** link on the navigation bar).
- 4 Select the deployment work order to check.
- 5 Look at the **Job status state** (JobStatusState) field.

---

## II Integration with LANDesk Management Suite



# 5 Overview

---

## What is the software distribution process?

You can use different tools to carry out the computer inventory:

- HP Device and Dependency Mapping
- LANDesk

Software distribution processes differ slightly and are dependent on the tool you are using to carry out the computer inventory.

## Process if you use HP Device and Dependency Mapping to carry out the computer inventory

The software distribution process comprises the following steps:

Step	Component to use	Component usage frequency
<p><b>1</b></p> <p>Identify potential target computers</p>	<p><i>LANDesk Management Suite Agent</i> installed on each computer: This agent assigns a unique identifier to each computer.</p> <p>This identifier will be used to identify the computers in the LANDesk Management Suite, Asset Manager and HP Device and Dependency Mapping databases in the same manner.</p> <p><b>Note:</b></p> <p>In Asset Manager, the field that stores the identifier of the computers is the <b>Software distribution identifier</b> (SWDID) field.</p>	Once for each new computer
<p><b>2</b></p> <p>Declare computers in the LANDesk Management Suite database</p>	<p><i>LANDesk Management Suite</i>: This application inventories computers on which the LANDesk Management Suite agent has been deployed.</p> <p>A computer must be inventoried in LANDesk Management Suite to have a scheduled task executed on it.</p>	Once for each new computer, automatically
<p><b>3</b></p> <p>Computer inventory by HP Device and Dependency Mapping</p>	<p><i>HP Device and Dependency Mapping</i>: This application inventories the computers.</p> <p>After computers are inventoried, they can be imported in Asset Manager and selected when a scheduled task is created.</p>	Regularly and as automatically as possible in order to keep the list of computers up to date.
<p><b>4</b></p> <p>Import computers in the Asset Manager database</p>	<p><i>HP Connect-It</i> : edac . scn scenario.</p> <p>This import is used to add new computers and update them. But, it does not allow a computer that is no longer in the HP Device and Dependency Mapping database to be deleted from the Asset Manager database.</p>	Regularly and automatically in order to keep the list of computers up to date.
<p><b>5</b></p> <p>Create distribution packages and scripts</p>	<i>LANDesk Management Suite</i>	Once for each new distribution package or script
<p><b>6</b></p> <p>Create delivery methods</p>	<i>LANDesk Management Suite</i>	Once for each new delivery method








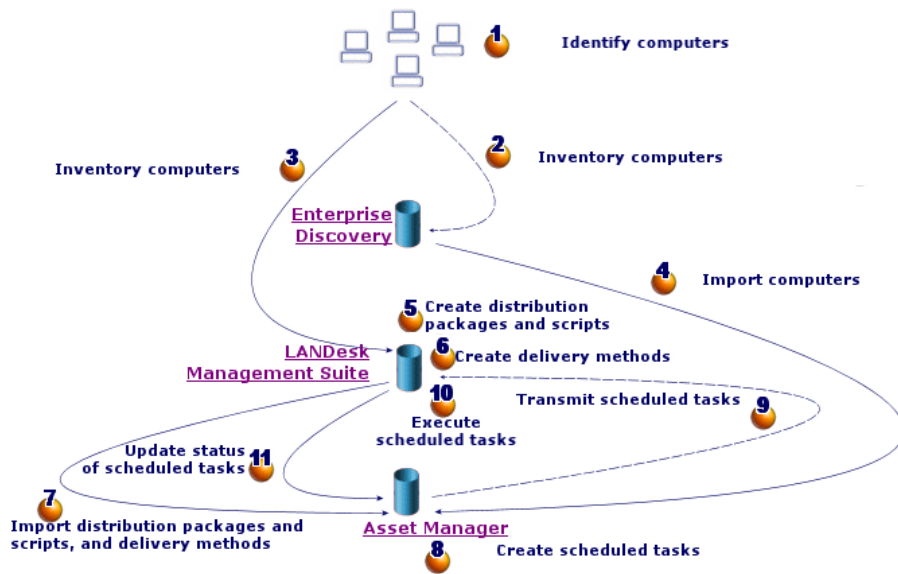
Step	Component to use	Component usage frequency
<p> 7</p> <p>Import distribution packages and scripts, and delivery methods into the Asset Manager database.</p>	<p><i>HP Connect-It</i> : LDUupdateRepository.scn scenario.</p> <p>This import is used to add new distribution packages and scripts and update them. But, it does not allow a distribution package that is no longer in the LANDesk Management Suite database to be deleted from the Asset Manager database.</p>	<p>Regularly and automatically in order to maintain the list of distribution packages and scripts, and delivery methods up to date.</p>
<p> 8</p> <p>Create scheduled task</p>	<p><i>Asset Manager</i>: Scheduled tasks are created in Asset Manager through the following steps:</p> <ul style="list-style-type: none"> <li>■ Distribute package/script to computers... (sysESDGeneric)</li> <li>■ Distribute package/script to locations... (sysESDLocation)</li> <li>■ Distribute package/script to users... (sysESDServices)</li> </ul>	<p>Once, when a distribution task must be planned</p>
<p> 9</p> <p>Transmit new scheduled tasks to LANDesk Management Suite</p>	<p><i>HP Connect-It</i> : DStarTasks.scn scenario.</p> <p>This import is used to add new scheduled tasks, but is not used to update or delete any.</p>	<p>Regularly and automatically</p>
<p> 10</p> <p>Execute scheduled tasks</p>	<p><i>LANDesk Management Suite</i></p>	<p>Following options defined in <i>LANDesk Management Suite</i></p>
<p> 11</p> <p>Update status for scheduled tasks in Asset Manager</p>	<p><i>HP Connect-It</i>: HP Connect-It LDUupdateTask.scn scenario.</p> <p>This import is used to update existing scheduled tasks, but is not used to create or delete any.</p>	<p>Regularly and automatically</p>

Figure 5.1. Software distribution process if you use HP Device and Dependency Mapping to inventory the computers



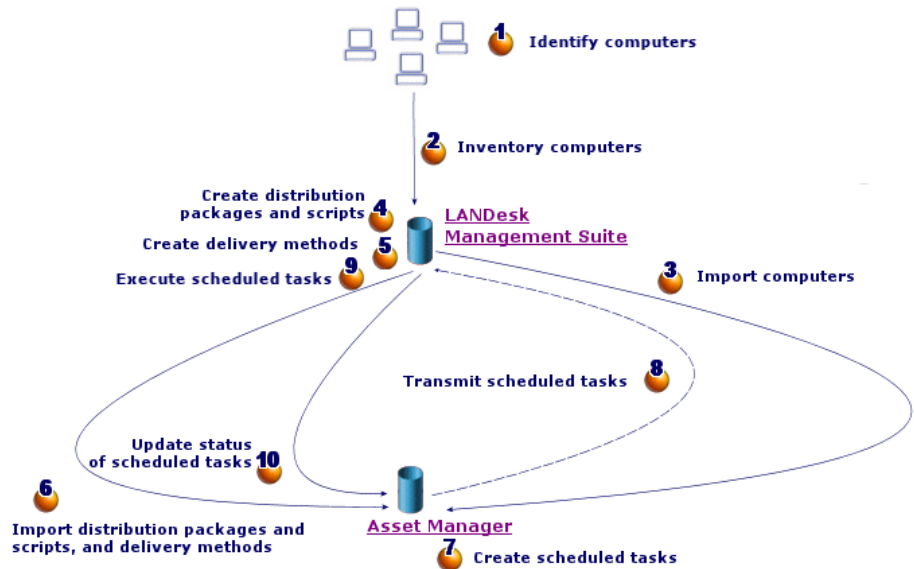
## Process if you use LANDesk Management Suite to inventory computers

The software distribution process comprises the following steps:

Step	Component to use	Component usage frequency
<p><b>1</b></p> <p>Identify potential target computers</p>	<p><i>LANDesk Management Suite Agent</i> installed on each computer: This agent assigns a unique identifier to each computer.</p> <p>This identifier will be used to identify the computers in the LANDesk Management Suite and Asset Manager databases in the same manner.</p> <p><b>Note:</b></p> <p>In Asset Manager, the field that stores the identifier of the computers is the <b>Software distribution identifier</b> (SWDID) field.</p>	Once for each new computer
<p><b>2</b></p> <p>Declare computers in the LANDesk Management Suite database</p>	<p><i>LANDesk Management Suite</i>: This application inventories computers on which the LANDesk Management Suite agent has been deployed.</p> <p>A computer must be inventoried in LANDesk Management Suite to have a scheduled task executed on it.</p>	Once for each new computer, automatically
<p><b>3</b></p> <p>Import computers in the Asset Manager database</p>	<p><i>HP Connect-It</i> scenario <i>HP Connect-It ld-skac.scn</i>.</p> <p>This import is used to add new computers and update them. But, it does not allow a computer that is no longer in the LANDesk Management Suite database to be deleted from the Asset Manager database.</p>	Regularly and automatically in order to keep the list of computers up to date.
<p><b>4</b></p> <p>Create distribution packages and scripts</p>	<i>LANDesk Management Suite</i>	Once for each new distribution package or script
<p><b>5</b></p> <p>Create delivery methods</p>	<i>LANDesk Management Suite</i>	Once for each new delivery method

Step	Component to use	Component usage frequency
<p data-bbox="297 196 319 227">6</p> <p data-bbox="187 279 429 418">Import distribution packages and scripts, and delivery methods into the Asset Manager database.</p>	<p data-bbox="446 196 943 248"><i>HP Connect-It</i> : HP Connect-It scenario LDUpdateRepository.scn.</p> <p data-bbox="446 262 943 427">This import is used to add new distribution packages and scripts and update them. But, it does not allow a distribution package that is no longer in the LANDesk Management Suite database to be deleted from the Asset Manager database.</p>	<p data-bbox="968 196 1226 392">Regularly and automatically in order to maintain the list of distribution packages and scripts, and delivery methods up to date.</p>
<p data-bbox="297 444 319 475">7</p> <p data-bbox="187 527 429 545">Create scheduled task</p>	<p data-bbox="446 444 943 496"><i>Asset Manager</i> : Scheduled tasks are created in Asset Manager via the following actions:</p> <ul data-bbox="446 505 943 678" style="list-style-type: none"> <li data-bbox="446 505 943 557">■ Distribute package/script to computers... (sysESDGeneric)</li> <li data-bbox="446 565 943 618">■ Distribute package/script to locations... (sysESDLocation)</li> <li data-bbox="446 626 943 678">■ Distribute package/script to users... (sysESDServices)</li> </ul>	<p data-bbox="968 444 1226 522">Once, when a distribution task must be planned</p>
<p data-bbox="297 692 319 723">8</p> <p data-bbox="187 775 429 880">Transmit new scheduled tasks to LANDesk Management Suite</p>	<p data-bbox="446 692 943 744"><i>HP Connect-It</i> : HP Connect-It scenario LDStarTasks.scn.</p> <p data-bbox="446 758 943 810">This import is used to add new scheduled tasks, but is not used to update or delete any.</p>	<p data-bbox="968 692 1226 744">Regularly and automatically</p>
<p data-bbox="297 895 319 927">9</p> <p data-bbox="187 979 429 1031">Execute scheduled tasks</p>	<p data-bbox="446 895 943 913"><i>LANDesk Management Suite</i></p>	<p data-bbox="968 895 1226 973">Following options defined in <i>LANDesk Management Suite</i></p>
<p data-bbox="297 1039 319 1071">10</p> <p data-bbox="187 1123 429 1203">Update status for scheduled tasks in Asset Manager</p>	<p data-bbox="446 1039 943 1091"><i>HP Connect-It</i> : HP Connect-It scenario LDUpdateTask.scn.</p> <p data-bbox="446 1105 943 1183">This import is used to update existing scheduled tasks, but is not used to create or delete any.</p>	<p data-bbox="968 1039 1226 1091">Regularly and automatically</p>

Figure 5.2. Software distribution process if you use LANDesk Management Suite to inventory the computers

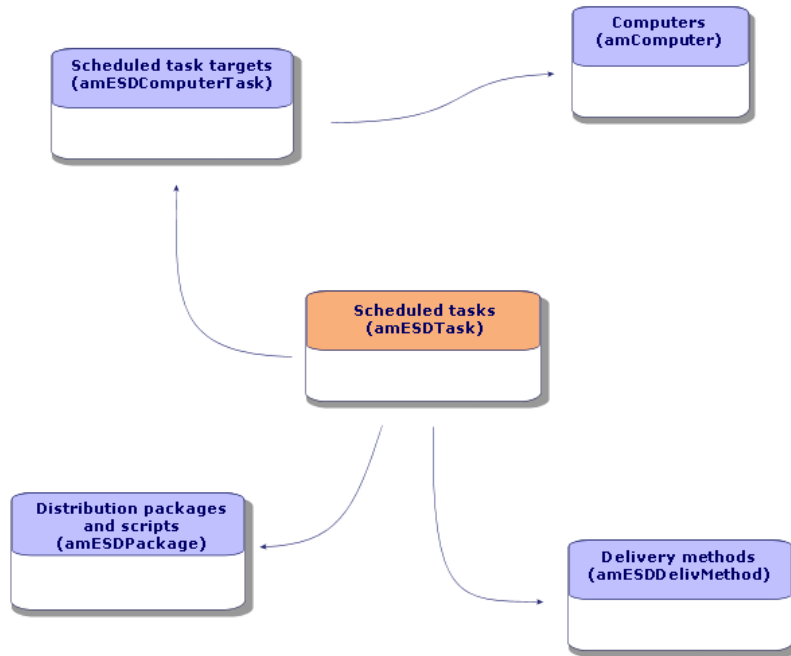


---

## What are the main tables used with software distribution?

Only a limited number of tables are used with software distribution:

Figure 5.3. Tables used with software distribution



## 6 Implementing required components

---

### Asset Manager

#### Installing Asset Manager

The following applications from the Asset Manager suite must be installed:

Which application?	Which machine?	Purpose?
Asset Manager Application Designer	1 Administrator workstation	Production database creation
Asset Manager Automated Process Manager	1 monitoring server	Automatic execution of HP Connect-It scenarios to exchange data between Asset Manager and LANDesk Management Suite and to import HP Device and Dependency Mapping inventory data (if you use HP Device and Dependency Mapping for the computer inventory)
Windows or Web client	1 or more user stations	Create scheduled tasks and monitor their status

To learn how to install these components: ► *Asset Manager Installation and upgrade* guide.

## Creating the Asset Manager production database

The Asset Manager production database must be created.

To learn how to install these components: ▶ *Asset Manager Administration* guide, chapter *Creating, modifying and deleting an Asset Manager database*.

## Activating the required license

Your Asset Manager user license must give you access to the following modules:

**Table 6.1.** *Software distribution module - Required user's license*

Module to be purchased within the license	Purpose?
Software distribution	Software distribution
Portfolio	Create computers

To find out how to activate a user's license: ▶ *Asset Manager Administration* guide, chapter *Creating, modifying and deleting an Asset Manager database*, section *Obtaining a license file*, and section *Modifying the license*.

## Activate required modules if you are accessing the database with a Windows client

You must activate these modules (**File/ Activate modules** menu):

- Software distribution
- Portfolio
- Administration

 **Note:**

Each of these modules is activated by default for Web clients.

---

## LANDesk Management Suite

### Install LANDesk Management Suite

- ▶ *LANDesk Management Suite Installation and deployment* guide.



---

## HP Device and Dependency Mapping

### Installing HP Device and Dependency Mapping



**Note:**

This installation is not required if you use HP Device and Dependency Mapping to carry out the computer inventory.

You can also use the LANDesk Management Suite inventory module.

- ▶ HP Device and Dependency Mapping *Installation and Initial Setup* guide.

---

## HP Connect-It

### Installing HP Connect-It

- ▶ HP Connect-It *Users guide*, chapter *Installing*.

### Configuring the HP Connect-It scenarios

You will need to configure the following HP Connect-It scenarios:

- `edac.scn` (if you use HP Device and Dependency Mapping to carry out the computer inventory)

or:

`ldskac.scn` (if you use LANDesk Management Suite to carry out the computer inventory)

- `LDStarTasks.scn`
- `LDUpdateTask.scn`
- `LDUpdateRepository.scn`

To learn how to configure the HP Connect-It scenarios: ▶ *Asset Manager Administration Guide*, chapter *Asset Manager Automated Process Manager*, section *Configuring the modules monitored by Asset Manager Automated Process Manager*.

---

## Asset Manager Automated Process Manager

### Configuring and activating the required Asset Manager Automated Process Manager modules

To find the list of Asset Manager Automated Process Manager modules to configure: ► this guide, chapter [Asset Manager Automated Process Manager modules](#) [page 112].

To learn how to configure the Asset Manager Automated Process Manager modules: ► *Administration Guide*, chapter *Asset Manager Automated Process Manager*, section *Configuring the modules monitored by Asset Manager Automated Process Manager*.

# 7 Creating and updating reference information

The following reference information must be entered before a scheduled task can be created and executed:

- Target computers
- Distribution packages and scripts
- Delivery methods

This chapter explains how to enter the reference information.

---

## Target computers

### Why and where do the target computers need to be referenced?

In order for software distribution to a target computer to function properly, the computer must be identified in the same manner in:

- the *Asset Manager database*, so that the computer is referenced by the scheduled tasks created in Asset Manager
- the *LANDesk Management Suite database*, so that the computer is referenced by the scheduled tasks exported to LANDesk Management Suite
- the *computer itself*, so that the computer is found when the scheduled task is executed by LANDesk Management Suite

## What must be done to reference the target computers?

To correctly reference the target computers, proceed in the following order:

- 1 Deploy a LANDesk Management Suite agent on each target computer.

A unique identifier is created for the computer.

The identifier is stored on the computer's hard drive.

The computer is automatically referenced in the LANDesk Management Suite database.

▶ LANDesk Management Suite *Installation and deployment* guide, chapter *Deploying main agents to peripherals*.

- 2 Launch a computer inventory with HP Device and Dependency Mapping.



### Note:

This is only required if you use HP Device and Dependency Mapping to carry out the computer inventory in addition to LANDesk Management Suite.

▶ HP Device and Dependency Mapping documentation.

- 3 Make sure that Asset Manager Automated Process Manager has been launched and that the *Update the database using Enterprise Discovery inventory results* module (EdAc) triggers the HP Connect-It `edac.scn` scenario (if you use HP Device and Dependency Mapping to carry out the computer inventory) or the `ldskac.scn` scenario (if you use LANDesk Management Suite to carry out the computer inventory).

To check this, make sure that one of the new computers inventoried by HP Device and Dependency Mapping or LANDesk Management Suite is listed in the Asset Manager database.

---

## Distribution packages and scripts

### Why and where do the distribution packages and scripts need to be referenced?

In order to create and execute a scheduled task, a distribution package or script must be assigned to it.

Distribution packages and scripts are created in their entirety in LANDesk Management Suite.

But, since scheduled tasks are created in Asset Manager, distribution packages and scripts must be selectable from the Asset Manager database.

Also, part of the information concerning distribution packages and scripts must be exported from the LANDesk Management Suite database to the Asset Manager database.

## How to reference distribution packages and scripts

To correctly reference the distribution packages and scripts, proceed in the following order:

- 1 Create the distribution packages and scripts in the LANDesk Management Suite database.
  - ▶ LANDesk Management Suite *Users* guide.
- 2 Make sure that Asset Manager Automated Process Manager has been launched and that the *Update software packages and delivery methods database* module (SWDRepo) triggers the HP Connect-It `LDUpdateRepository.scn` scenario.

To check this, make sure that one of the new distribution packages or scripts that you created in LANDesk Management Suite is listed in the Asset Manager database.

---

## Delivery methods

### Why and where do the delivery methods need to be referenced?

In order to create and execute a scheduled task, a delivery method must be assigned to it.

Delivery methods are created in their entirety in LANDesk Management Suite. But, since scheduled tasks are created in Asset Manager, delivery methods must be selectable from the Asset Manager database.

Also, part of the information concerning the delivery methods must be exported from the LANDesk Management Suite database to the Asset Manager database.

### How to reference delivery methods

To correctly reference the delivery methods, proceed in the following order:

- 1 Create the delivery methods in the LANDesk Management Suite database.
  - ▶ LANDesk Management Suite *Users* guide.
- 2 Make sure that Asset Manager Automated Process Manager has been launched and that the *Update software packages and delivery methods database* module (SWDRepo) triggers the HP Connect-It `LDUpdateRepository.scn` scenario.

To check this, make sure that one of the new delivery methods that you created in LANDesk Management Suite is listed in the Asset Manager database.



## 8 Distributing a software package or a script

Scheduled tasks are created in Asset Manager.

Once the tasks have been created in Asset Manager, they are automatically transmitted to LANDesk Management Suite by a HP Connect-It scenario.

LANDesk Management Suite executes the scheduled task

The transmission and execution results are automatically sent to Asset Manager by a HP Connect-It scenario.

---

### Creating a scheduled task in Asset Manager

There are several ways to create a scheduled task.

This section presents the different ways.

#### Creating a scheduled task without the wizard

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your working database.
- 3 Display the scheduled tasks (**Portfolio management/ IT/ Software distribution/ Scheduled Tasks** link on the navigation bar).
- 4 Create a new scheduled task (**New** button).
- 5 Enter and save the scheduled task.

## Creating a scheduled task for computers at a selected location (using wizard)

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your working database.
- 3 Start the *Distribute package/script to locations...* wizard (sysESDLocation) (**Portfolio management/ IT/ Software distribution/ Distribute package/script to locations...** link on the navigation bar).
- 4 Provide the information on each of the pages of the wizard and then click finish.

## Creating a scheduled task for a given user's computers (using wizard)

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your working database.
- 3 Start the *Distribute package/script to users...* wizard (sysESDServices) (**Portfolio management/ IT/ Software distribution/ Distribute package/script to users...** link on the navigation bar).
- 4 Provide the information on each of the pages of the wizard and then click finish.

## Creating a scheduled task for a set of computers (using wizard)

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your working database.
- 3 Start the *Distribute package/script to computers...* wizard (sysESDGeneric) (**Portfolio management/ IT/ Software distribution/ Distribute package/script to computers...** link on the navigation bar).
- 4 Provide the information on each of the pages of the wizard and then click finish.

---

## Transmitting a new scheduled task to LANDesk Management Suite

A task is only transmitted to LANDesk Management Suite by HP Connect-It scenario `LDStarTasks.scn` if, in the task's detail, the value of the **Transmission status** (seRequest) field is *To transmit*.

This field has this value in two cases:

- You created the scheduled task using the wizard and you selected the **Transmit at once** option before exiting the wizard.



- In other cases, you displayed the scheduled task's detail and clicked the **Transmit** button.

Scheduled tasks are transmitted to LANDesk Management Suite by the HP Connect-It scenario `LDStarTasks.scn`.

To automate this task, make sure that Asset Manager Automated Process Manager has been launched and that the *Create software distribution scheduled tasks* module (SWDCTask) triggers the HP Connect-It `LDStarTasks.scn` scenario.

To verify, make sure that one of the scheduled tasks created in Asset Manager whose **Transmission status** (seRequest) field is *To transmit* is present in the LANDesk Management Suite database.

---

## Checking the transmission of a scheduled task to LANDesk Management Suite

The transmission status of scheduled tasks transmitted to LANDesk Management Suite is located in the Asset Manager database, under the scheduled tasks' detail, in the **Transmission status** (seRequest) field.

The transmission status of scheduled tasks transmitted to LANDesk Management Suite is updated by HP Connect-It scenario `LDStarTasks.scn`.

## Updating the transmission status automatically

To automate this task, make sure that Asset Manager Automated Process Manager has been launched and that the *Create software distribution scheduled tasks* module (SWDCTask) triggers the HP Connect-It `LDStarTasks.scn` scenario.

To verify, make sure that one of the scheduled tasks that was successfully transmitted to LANDesk Management Suite, but has not yet been executed, has the correct status in the database:

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your working database.
- 3 Display the scheduled tasks (**Portfolio management/ IT/ Software distribution/ Scheduled Tasks** link on the navigation bar).
- 4 Select the scheduled task to check.
- 5 Look at the **Transmission status** (seRequest) field. Its value must be *Transmitted*.

## Checking the transmission status

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your working database.
- 3 Display the scheduled tasks (**Portfolio management/ IT/ Software distribution/ Scheduled Tasks** link on the navigation bar).
- 4 Select the scheduled task to check.
- 5 Look at the **Transmission status** (seRequest) field.

---

## Checking the execution of a scheduled task by LANDesk Management Suite

The transmission status of scheduled tasks transmitted to LANDesk Management Suite is located in the Asset Manager database:

- In the detail of the scheduled tasks, **Transmission status** (seRequest) field.
- In the detail of the scheduled tasks, **Task status** (ESDStatus) field.
- In the detail of the scheduled task targets, **Status** (Status) field.

The execution status of scheduled tasks executed by LANDesk Management Suite is updated by HP Connect-It scenario `LDUpdateTasks.scn`.

## Updating the execution status of the scheduled tasks automatically

To automate this task, make sure that Asset Manager Automated Process Manager has been launched and that the *Update software distribution scheduled tasks result* module (SWDUTask) triggers the HP Connect-It `LDUpdateTasks.scn` scenario.

To verify, make sure that one of the scheduled tasks that was successfully executed by LANDesk Management Suite has the correct status in the Asset Manager database:

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your working database.
- 3 Display the scheduled tasks (**Portfolio management/ IT/ Software distribution/ Scheduled Tasks** link on the navigation bar).
- 4 Select the scheduled task to check.
- 5 Look at the **Transmission status** (seRequest) field. Its value must be *Executed*.

## Checking execution status of a scheduled task

- 1 Start the Asset Manager Windows or Web client.
- 2 Connect to your working database.
- 3 Display the scheduled tasks (**Portfolio management/ IT/ Software distribution/ Scheduled Tasks** link on the navigation bar).
- 4 Select the scheduled task to check.
- 5 Look at the **Transmission status** (seRequest) field.
- 6 Look at the **Task status** (ESDStatus) field.
- 7 Select the **Targets** tab.
- 8 Look at the **Status** (Status) field for the scheduled task's different targets.



---

## III Integration with other software distribution tools



## 9 Adapting the LANDesk Management Suite integration to another software distribution tool

---

### Adapting the process

Examine the process described in section [What is the software distribution process?](#) [page 63].

Determine which tools will be used in the process to perform the following tasks:

- Identify and inventory the computers
- Distribute the software

Define the new process depending on the answers to these questions.

---

### Adapting HP Connect-It scenarios

The transfer of information between the different tools used in the new process ([▶ Adapting the process](#) [page 87]) is handled by HP Connect-It.

HP Connect-It uses the scenarios described in section [HP Connect-It](#) [page 73].

Refer to the existing scenarios when creating the scenarios that are adapted to the tools to be used in the new process.

In these scenarios, replace the HP Device and Dependency Mapping and LANDesk connectors with connectors adapted to the tools that you will use for the new process.

These connectors, depending on the information that they will transfer, must point to the following tables in the Asset Manager database.

- **Computers** (amComputer): To store inventoried computers.
- **Scheduled tasks** (amESDTask): To store the scheduled tasks whose execution is handled by the software distribution tool.
- **Distribution packages and scripts** (amESDPackage): To store distribution packages and scripts to distribute to the computers.
- **Delivery methods** (amESDDelivMethod): To store delivery methods, if they are required by your software distribution tool to distribute a package or script.

For all of these tables you can use the reconciliation key of your choosing.

---

## Adapting Asset Manager Automated Process Manager modules

Asset Manager Automated Process Manager is configured to automatically execute HP Connect-It scenarios to exchange data between Asset Manager and LANDesk Management Suite and to import HP Device and Dependency Mapping inventory data (if you use HP Device and Dependency Mapping for the computer inventory).

If you modify the HP Connect-It scenarios that are used in the software distribution process, check that the Asset Manager Automated Process Manager modules have been correctly adapted.



---

## IV Appendixes



# A Glossary

The glossary provides definitions of key terms used in the integration of Asset Manager with the software distribution and configuration management tools.

---

## Terminology specific to the HP Client Automation integration

### Deployment work order (Job)

A deployment work order describes an operation whose execution will be handled by HP Client Automation.

- Installing software
- Removing software
- Assigning rights to use software
- Removing rights to use software

Deployment work orders are created via wizards in the Asset Manager database, transmitted to HP Client Automation via a HP Connect-It scenario, and updated in the Asset Manager database via a HP Connect-It scenario.

Table in the Asset Manager database that describes these objects

**Work orders** (amWorkOrder)

## Deployment task (Job)

A deployment task completes the description of the deployment work orders by specifying the deployment target.

Deployment tasks are created via wizards in the Asset Manager database and updated in the Asset Manager database via a HP Connect-It scenario.

Table in the Asset Manager database that describes these objects

**Deployment tasks** (amCMTargetTask)

## User account (User account)

User accounts are defined in HP Client Automation or the LDAP tree used by HP Client Automation and are imported into the Asset Manager database using a HP Connect-It scenario.

LDAP accounts can be granted rights to use software via a named entitlement.

Table in the Asset Manager database that describes these objects

**Portfolio items** (amPortfolio)

Characteristics of these objects in the Asset Manager database

Records in the **Portfolio items** (amPortfolio) table whose **External identifier** (ExtPfiId) field value is not empty and which are linked to a nature whose **User account** (bUserAccount) field is selected and linked to a user

## Domain (Domain)

LDAP DNS domain.

Computers, user accounts and computer groups are organized hierarchically as a tree structure whose branches represent domains.

They can only belong to a single domain and are identified uniquely by their name and the list of parent domains (the domain hierarchy to which it is assigned).

Domains are defined in HP Client Automation and are imported into the Asset Manager database using a HP Connect-It script.

Table in the Asset Manager database that describes these objects

**Computers** (amComputer) and **Portfolio items** (amPortfolio)

## Characteristics of these objects in the Asset Manager database

Records in the **Portfolio items** (amPortfolio) table whose **External identifier** (ExtPfiId) field value is not empty and which are linked to a nature whose **Computer type** (seCPUType) field equals *Domain*

## Computer groups (Group of devices)

Set of computers or groups.

Groups are defined in HP Client Automation and are imported into the Asset Manager database using a HP Connect-It script.

Groups are used to filter computers when you create a deployment work order.

Computer groups can be granted rights to use software via a named entitlement.

## Table in the Asset Manager database that describes these objects

**Computers** (amComputer) and **Portfolio items** (amPortfolio)

## Characteristics of these objects in the Asset Manager database

Records in the **Portfolio items** (amPortfolio) table whose **External identifier** (ExtPfiId) field value is not empty and which are linked to a nature whose **Computer type** (seCPUType) field equals *Computer groups*

## Media (Service)

Parameters and files required to install software.

Media correspond to services defined in HP Client Automation.

They are imported into the Asset Manager database via a HP Connect-It scenario.

Media are grouped as *software packages*.

## Table in the Asset Manager database that describes these objects in the Asset Manager database

**Software installations or utilizations** (amSoftInstall) and **Portfolio items** (amPortfolio)

## Object characteristics

Records in the **Software installations or utilizations** (amSoftInstall) table linked to a nature whose **Media** (bSetUpMedia) check box is selected and which are linked to a model whose **Configuration management media** (bCMSservice) check box is selected.

## Software package

Set of media.

A software package is used to group a set of media that references the same software entity.

Software packages are used to filter media when you create a deployment work order.

For example, the *MS Office* software package includes the *MS Word* and *MS Excel* components, etc.

Software packages are defined in Asset Manager.

Table in the Asset Manager database that describes these objects

**Requests** (amRequest)

Characteristics of these objects in the Asset Manager database

To be considered a software package, the record in the request table must be populated as follows:

- **Req. status** (seStatus): *Standard request*
- **Software package** (bSoftPackage) option selected

## Named entitlement (Policy)

Named entitlements let you assign media user rights to user accounts, computers, computer groups and domains.

These named entitlements are created via wizards that can also create deployment work orders in the Asset Manager database.

Deployment work orders are transmitted to HP Client Automation and updated in the Asset Manager database via HP Connect-It scenarios.

Table in the Asset Manager database that describes these objects in the Asset Manager database

**Named entitlements** (amEntitlement)

Object characteristics

Records in the **Work orders** (amWorkOrder) table linked to a nature whose **Work order type** (seWorkOrderType) field is any value except *Other* and whose **Used for configuration management** (bAutomated) check box is selected.

---

## Terminology specific to the LANDesk Management Suite integration

### Scheduled task

A scheduled task describes a distribution task for a software distribution package or a script, following a delivery method, on a selection of computers. The task is not executed directly by Asset Manager. It is transmitted to the software distribution tool via a HP Connect-It scenario.

Table in the Asset Manager database that describes these objects

**Scheduled tasks** (amESDTask)

### Delivery Method

A delivery method defines how a software distribution package or a script is sent to target computers.

Delivery methods are defined in the software distribution tool and are imported into the Asset Manager database using a HP Connect-It script.

Delivery methods can be distinguished by their distribution type (Targeted Multicast, push, strategy, etc.)

Table in the Asset Manager database that describes these objects

**Delivery methods** (amESDDelivMethod)

### Distribution Package

Parameters and files required to install software.

Distribution packages are defined in the software distribution tool and are imported into the Asset Manager database using a HP Connect-It scenario.

Table in the Asset Manager database that describes these objects

**Distribution packages and scripts** (amESDPackage)

### Script

Script that is executed on a target computer.

Scripts are defined in the software distribution tool and are imported into the Asset Manager database using a HP Connect-It scenario.

Table in the Asset Manager database that describes these objects

**Distribution packages and scripts** (amESDPackage)



## B References

---

### Menus, navigation bar links and tabs

The data used for the Asset Manager integration with HP Client Automation and LANDesk Management Suite can be accessed using the following menus, tabs, links and fields:

**Table B.1. Menus and tabs (for the integration with HP Client Automation and LANDesk Management Suite)**

Sub-menu	Table the menu gives you access to (label and SQL name)	Tabs specifically designed for the <i>Software distribution</i> and <i>Configuration management</i> modules	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult

---

**Portfolio management/ IT/ IT equipment** *link on the navigation bar*

---

Sub-menu	Table the menu gives you access to (label and SQL name)	Tabs specifically designed for the <i>Software distribution</i> and <i>Configuration management</i> modules	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
Computers	Computers (amComputer)	None	External identifier (ExtPfiId)	Used to reconcile computers, computer groups, user accounts and domains with the software distribution and configuration management tools	<ul style="list-style-type: none"> <li>■ <a href="#">Target computers [page 75]</a></li> <li>■ <a href="#">How are domains imported? [page 47]</a></li> </ul>

---

**Tools menu**

Actions/ Edit	Actions (amAction)	Distribution	Type (seActionType)	Consult and edit the records in this table.	<a href="#">Actions and wizards [page 110]</a>
Actions/ <Name of action>	Does not apply	Does not apply	Does not apply	Proposes the actions that are either non-contextual or whose contexts are active.  Enables you to trigger the selected action.	<a href="#">Actions and wizards [page 110]</a>

---

**Administration menu**

---

Sub-menu	Table the menu gives you access to (label and SQL name)	Tabs specifically designed for the <i>Software distribution</i> and <i>Configuration management</i> modules	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
List of screens	Does not apply	Does not apply	Does not apply	Enables you to access tables that are not accessible using the main menus. This task is restricted to the administrator because such tables usually do not have to be modified directly.	

**Table B.2. Menus and tabs (HP Client Automation)**

Sub-menu	Table accessed via the menu (label and SQL name)	Tabs dedicated to the <i>Configurations</i> module	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
<b>File menu</b>					
Activate modules	Does not apply	Does not apply	Does not apply	Enables you to activate or deactivate the <i>Configurations</i> module if permitted by your license file. This is the menu to use if you can't see the following menus in your application.	Activate required modules if you are accessing the database with a Windows client [page 30]

**Configuration management** *link on the navigation bar*

Sub-menu	Table accessed via the menu (label and SQL name)	Tabs dedicated to the <i>Configurations</i> module	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
Portfolio items	Portfolio items (amPortfolio)	None	External identifier (ExtPfiId)	Identifier used to identify the portfolio item in a third-party software application	
Natures	Natures (amNature)	None	<ul style="list-style-type: none"> <li>■ Computer type (seCPUType)</li> <li>■ User account (bUserAccount)</li> <li>■ Media (bSetUpMedia)</li> </ul>	Is used to create natures that are used to identify portfolio items that are computer groups, domains, user accounts and media.	<ul style="list-style-type: none"> <li>■ <a href="#">Computer groups</a> [page 46]</li> <li>■ <a href="#">Domains</a> [page 47]</li> <li>■ <a href="#">User accounts</a> [page 45]</li> <li>■ <a href="#">Media</a> [page 48]</li> </ul>
Models	Models (amModel)	None	Configuration management media (bCMService)	Is used to distinguish media that are managed in the Asset Manager integration with HP Client Automation.	<a href="#">Media</a> [page 48]

---

**Portfolio management/ IT/ IT equipment** *link on the navigation bar*

Computer groups	Client-Resource Relationships table (amClientResource)	None	Update in progress (bUpdate)		
-----------------	--	------	------------------------------	--	--

---

**Configuration management/ Extended portfolio** *link on the navigation bar*

---

Sub-menu	Table accessed via the menu (label and SQL name)	Tabs dedicated to the <i>Configurations</i> module	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
Internal requests	Request lines (amReqLine)	None	<ul style="list-style-type: none"> <li>■ Software package (UsedCanInstall)</li> <li>■ Media (UsedMedia)</li> <li>■ Named entitlement (UsedEntitlement)</li> <li>■ Task associated with the software installation/removal (bAutomatedJob)</li> </ul>	Used to select the media, software package and named entitlement to install, remove, grant or remove.	Add or remove software, grant or remove the right to use a software application [page 51]
Internal requests	Requests (amRequest)	None	Software package (bSoftPackage)	Used to identify standard requests that correspond to a software package	Add or remove software [page 51]

---

**Portfolio management/ IT/ Configuration management** *link on the navigation bar*

---

Sub-menu	Table accessed via the menu (label and SQL name)	Tabs dedicated to the <i>Configurations</i> module	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
Media	Software installations or utilizations (amSoftInstall)	None	<ul style="list-style-type: none"> <li>■ Software package (CanInstall)</li> <li>■ Automatic deployment (bAutomaticDplmt)</li> <li>■ Available media (bAvailableMedia)</li> <li>■ Mandatory deployment (bMandatoryDplmt)</li> </ul>	Software package that the media is part of.	<a href="#">Media</a> [page 48]
Deployment tasks	Deployment tasks (amCMTargetTask)	All	All	Tasks that are created when you create a software installation or removal request, or when you request that rights to use software be granted or removed.	<a href="#">Add or remove software, grant or remove the right to use a software application</a> [page 51]

Sub-menu	Table accessed via the menu (label and SQL name)	Tabs dedicated to the <i>Configurations</i> module	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
Named entitlements	Named entitlements (amEntitlement)	None	<ul style="list-style-type: none"> <li>■ Used for configuration management (bAutomated)</li> <li>■ Media (UsedMedia)</li> <li>■ Authorization (seAutoPriority)</li> </ul>	Used to specify details about the named entitlements defined for configuration management	Grant or remove the rights to use a software application [page 55]
Deployment work orders	Work orders (amWorkOrder)	None	<ul style="list-style-type: none"> <li>■ Identifier (AutomationID)</li> <li>■ Status message (AutoStatusMsg)</li> <li>■ Temporary group (AutoTempGroup)</li> </ul>	Work orders that are created when you create a software installation or removal request, or when you request that rights to use software be granted or removed.	Add or remove software, grant or remove the right to use a software application [page 51]

**Table B.3. Menus and tabs (LANdesk Management Suite)**

Sub-menu	Table accessed via the menu (label and SQL name)	Tabs specifically designed for the <i>Software distribution</i> module	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
<b>File menu</b>					

Sub-menu	Table accessed via the menu (label and SQL name)	Tabs specifically designed for the <i>Software distribution</i> module	Important fields or links (outside of the dedicated tabs)	Use	Section of this guide to consult
Activating the modules	Does not apply	Does not apply	Does not apply	Enables you to activate or deactivate the Software distribution module if authorized by your license file.  This is the menu to use if you can't see the following menus in your application.	Activate required modules if you are accessing the database with a Windows client [page 72]

**Portfolio management/ IT/ Software distribution** *link on the navigation bar*

Delivery methods	Delivery methods (amESDDeliv-Method)	All	All	Consult and edit the records in this table.	Delivery methods [page 77]
Distribution packages and scripts	Distribution packages and scripts (amESDPackage)	All	All	Consult and edit the records in this table.	Distribution packages and scripts [page 76]
Scheduled tasks	Scheduled tasks (amESDTask)	All	All	Consult and edit the records in this table.	Creating a scheduled task in Asset Manager [page 79]

**Portfolio management/ IT/ IT equipment** *link on the navigation bar*

Computers	Computers (amComputer)	None	Scheduled task target (ESDComputer)	Identifies the target computers of a scheduled task.	Target computers [page 75]
-----------	------------------------	------	-------------------------------------	--	----------------------------

## Toolbar icons

No toolbar icons are available for the integration of Asset Manager with HP Client Automation and LANDesk Management Suite.



---

## Interface options

No interface options are available for the integration of Asset Manager with HP Client Automation and LANDesk Management Suite.

---

## Tables

The following tables are linked to the integration of Asset Manager with HP Client Automation and LANDesk Management Suite:

**Table B.4. Tables (integration with HP Client Automation)**

Label of the table	SQL name of the table	Link on the navigation bar used to access the table	Section of this guide to consult
<i>Tables specifically linked to the integration of Asset Manager with HP Client Automation</i>			
Deployment tasks	amCMTarget-Task	Portfolio management/ IT/ Configuration management/ Deployment tasks	<a href="#">Add or remove software, grant or remove the right to use a software application [page 51]</a>
<i>Tables indirectly linked to the integration of Asset Manager with HP Client Automation</i>			
Natures	amNature	Portfolio management/ Natures	<ul style="list-style-type: none"><li>■ <a href="#">Computer groups [page 46]</a></li><li>■ <a href="#">Domains [page 47]</a></li><li>■ <a href="#">User accounts [page 45]</a></li><li>■ <a href="#">Media [page 48]</a></li></ul>
Software installations or utilizations	amSoftInstall	Portfolio management/ IT/ Universal CMDB/ Software installation media	<a href="#">Media [page 48]</a>
Portfolio items	amPortfolio	Portfolio management/ Portfolio items	
Models	amModel	Portfolio management/ Models	<a href="#">Media [page 48]</a>
Client-resource relationships	amClientResource	Portfolio management/ IT/ IT equipment/ Computer groups	

Label of the table	SQL name of the table	Link on the navigation bar used to access the table	Section of this guide to consult
Request lines	amReqLine	Portfolio management/ Extended portfolio/ Internal requests	Add or remove software, grant or remove the right to use a software application [page 51]
Requests	amRequest	Portfolio management/ Extended portfolio/ Internal requests	Add or remove software [page 51]
Named entitlements	amEntitlement	Portfolio management/ IT/ Configuration management/ Named entitlements	Grant or remove the rights to use a software application [page 55]
Work orders	amWorkOrder	Portfolio management/ IT/ Configuration management/ Deployment work orders	Add or remove software, grant or remove the right to use a software application [page 51]

**Table B.5. Tables (integration with LANDesk Management Suite)**

Label of the table	SQL name of the table	Link on the navigation bar used to access the table	Section of this guide to consult
<i>Tables specifically linked to the integration of Asset Manager with LANDesk Management Suite</i>			
Delivery methods	amESDDeliv-Method	Portfolio management/ IT/ Software distribution/ Delivery methods	Delivery methods [page 77]
Distribution packages and scripts	amESDPackage	Portfolio management/ IT/ Software distribution/ Distribution packages and scripts	Distribution packages and scripts [page 76]
Scheduled task targets	amESDComputer-Task	<b>Administration/List of screens</b> menu in the Windows client	Creating a scheduled task in Asset Manager [page 79]

Label of the table	SQL name of the table	Link on the navigation bar used to access the table	Section of this guide to consult
Scheduled tasks	amESDTask	Portfolio management/ IT/ Software distribution/ Scheduled tasks	Creating a scheduled task in Asset Manager [page 79]
<i>Tables indirectly linked to the integration of Asset Manager with LANDesk Management Suite</i>			
Actions	amAction	Administration/ Actions	
Computers	amComputer	Portfolio management/ IT/ IT equipment/ Computers	Target computers [page 75]

## Dependencies between tables

The integration of Asset Manager with HP Client Automation and LANDesk Management Suite requires some tables in the Asset Manager database. There are links between these tables. Because of these links, you will find it useful to populate these tables in a certain, defined order.

The order that we propose below is not mandatory: Asset Manager enables you to create missing records in linked tables whenever it is necessary.

Here is a table that optimizes the order of how you should create your records. It indicates which dependant tables you need to populate.

Secondary tables that are directly linked to the integration of Asset Manager with HP Client Automation and LANDesk Management Suite have been excluded. These tables are automatically populated when you create records in one of the main tables.

**Table B.6. Dependencies between tables (integration with HP Client Automation)**

Table (label and SQL name)	Tables to populate beforehand (label and SQL name)
<i>Repository</i>	
Locations (amLocation)	
Departments and employees (amEmplDept)	
Natures (amNature)	► <i>Portfolio</i> guide, chapter <i>References</i> , section <i>Dependencies between tables</i>
Models (amModel)	► <i>Portfolio</i> guide, chapter <i>References</i> , section <i>Dependencies between tables</i>

Table (label and SQL name)	Tables to populate beforehand (label and SQL name)
Computers (amComputer)	► <i>Portfolio</i> guide, chapter <i>References</i> , section <i>Dependencies between tables</i>
Portfolio items (amPortfolio)	► <i>Portfolio</i> guide, chapter <i>References</i> , section <i>Dependencies between tables</i>
Software installations or utilizations (amSoft-Install)	► <i>Software assets</i> guide, chapter <i>References</i> , section <i>Dependencies between tables</i>
Client-Resource Relationships table (amClientResource)	Computers (amComputer)
Requests (amRequest)	Software installations or utilizations (amSoft-Install)
Request lines (amReqLine)	◆ Requests (amRequest)
Named entitlements (amEntitlement)	■ Computers (amComputer) ■ Portfolio items (amPortfolio)
<i>Deployment of tasks</i>	
Work orders (amWorkOrder)	Models (amModel)
Deployment tasks (amCMTargetTask)	■ Computers (amComputer) ■ Work orders (amWorkOrder)

**Table B.7. Dependencies between tables (integration with LANDesk Management Suite)**

Table (label and SQL name)	Tables to populate beforehand (label and SQL name)
<i>Repository</i>	
Computers (amComputer)	► <i>Portfolio</i> guide, chapter <i>References</i> , section <i>Dependencies between tables</i>
Distribution packages and scripts (amESDPackage)	
Delivery methods (amESDDelivMethod)	
<i>Scheduling tasks</i>	
Scheduled tasks (amESDTask)	■ Computers (amComputer) ■ Distribution packages and scripts (amESDPackage) ■ Delivery methods (amESDDelivMethod)

## Itemized lists

Certain fields can be populated by selecting their values from a list. These lists are called itemized lists.

You can access the **Itemized lists** table (amItemizedList) using the **Administration/ Itemized lists** link on the navigation bar.

The integration of Asset Manager with HP Client Automation and LANDesk Management Suite uses the following itemized lists:

**Table B.8. Itemized lists (integration with HP Client Automation)**

Identifier of the itemized list	Field populated from the itemized list (label and SQL name)	Table in which the field is found (label and SQL name)
amCMTarget-TaskJob-StatusCode	Code (JobStatusCode)	Deployment tasks (amCMTarget-Task)
amCMTarget-TaskJob-StatusState	Status (JobStatusState)	Deployment tasks (amCMTarget-Task)

**Table B.9. Itemized lists (integration with LANDesk Management Suite)**

Identifier of the itemized list	Field populated from the itemized list (label and SQL name)	Table in which the field is found (label and SQL name)
amESDDeliv-Type	Type (DelivType)	Delivery methods (amESDDelivMethod)
amESDPackage-Type	Type (PkgType)	Distribution packages and scripts (amESDPackage)

For more information on using itemized lists, refer to the *Advanced use guide*, chapter *Itemized lists*.

---

## Calculated fields

### Integration with HP Client Automation

The integration of Asset Manager with HP Client Automation uses certain calculated fields.

These calculated fields are used in the default values of certain fields.

You can access the **Calculated fields** (amCalcField) table using the **Administration/ System/ Calculated fields** link on the navigation bar.

The following calculated fields are directly linked to HP Client Automation:

**Table B.10. Calculated fields (integration with HP Client Automation)**

Label of the calculated field	SQL name of the calculated field	Label and SQL name of the field that uses the calculated field	Use
The service has sufficient license rights	OVCMServiceHasEnoughLicense	Portfolio items (amPortfolio)	This calculated field is displayed on the portfolio item's <b>Verify license</b> page.

## Integration with LANDesk Management Suite

The integration of Asset Manager with LANDesk Management Suite does not use any calculated field.

---

## Counters

The integration of Asset Manager with HP Client Automation LANDesk Management Suite does not use any counter.

---

## Actions and wizards

The integration of Asset Manager with HP Client Automation and LANDesk Management Suite uses actions to automate common tasks.

You can access the **Actions** table (amAction) using the **Tools/ Administration/ Actions** link on the navigation bar.

For more information on using actions, refer to the *Advanced use* guide, chapter *Actions*.

For more information on script writing, refer to the *Administration* guide, chapter *Using scripts*.

For more information on using APIs, refer to the *Programmer's reference* guide.

You can create new actions or customize existing ones.

## Integration with HP Client Automation

You can easily filter the actions linked to the Asset Manager integration with HP Client Automation by using a simple filter on the **Domain** field: Search for the */Portfolio management/IT/Configuration management/* value.

The actions that are directly linked to the Asset Manager integration with HP Client Automation and that are described in this guide are as follows:

**Table B.11. Actions and wizards (integration with HP Client Automation)**

Name of action	SQL name of the action	Type of action	Context of the action (SQL name of the table)	Section of this guide to consult
Delete named entitlement...	sysOVCMContextRemoveEntitlement	Wizard	amEntitlement	Remove rights to use software [page 56]
Create or delete a named entitlement...	sysOVCMEntitlement	Wizard	(No table)	Grant or remove the rights to use a software application [page 55]
Add or remove software to/from computers...	sysOVCMGeneric	Wizard	(No table)	Remove software from a computer [page 54]
Add or remove software to/from locations...	sysOVCMLocations	Wizard	(No table)	Add or remove software to/from locations [page 51]
Remove software from the computer...	sysOVCMRemoveSoft-FromCpu	Wizard	amComputer	Add or remove software to/from computers [page 53]
Add or remove software for users...	sysOVCMServices	Wizard	(No table)	Add or remove software for users [page 52]

## Integration with LANDesk Management Suite

You can easily filter the actions linked to the Asset Manager integration with LANDesk Management Suite using a simple filter on the **Domain** (Domain) field: Search for the value */Portfolio management/IT/Software distribution/*.

The actions that are directly linked to the integration of Asset Manager with LANDesk Management Suite and that are described in this guide are as follows:

**Table B.12. Actions and wizards (integration with LANDesk Management Suite)**

Name of action	SQL name of the action	Type of action	Context of the action (SQL name of the table)	Section of this guide to consult
Transmit the scheduled task	sysESDInstanceStart	Script	(System table)	Transmitting a new scheduled task to LANDesk Management Suite [page 80]
Add targets to the scheduled task...	sysESDTaskAddComputer	Wizard	(System table)	Creating a scheduled task without the wizard [page 79]
Distribute package/script to computers...	sysESDGeneric	Wizard	(No table)	Creating a scheduled task for a set of computers (using wizard) [page 80]
Distribute package/script to locations...	sysESDLocation	Wizard	(No table)	Creating a scheduled task for computers at a selected location (using wizard) [page 80]
Distribute package/script to users...	sysESDServices	Wizard	(No table)	Creating a scheduled task for a given user's computers (using wizard) [page 80]

## Asset Manager Automated Process Manager modules

### Integration with HP Client Automation

There are no Asset Manager Automated Process Manager modules specifically dedicated to the Asset Manager integration with HP Client Automation.



Tip:

To use Asset Manager Automated Process Manager to automate the triggering of HP Connect-It scenarios, you must create your own HP Connect-It scenarios.



## Integration with LANDesk Management Suite

The Asset Manager Automated Process Manager modules that are used to integrate Asset Manager with LANDesk Management Suite are as follows:

- Update the database using Enterprise Discovery inventory results (EdAc)

---

 **Note:**

This module is only used if you use HP Device and Dependency Mapping to carry out the computer inventory.

- Create software distribution scheduled tasks (SWDCTask)
- Update software packages and delivery methods database (SWDRepo)
- Update software distribution scheduled tasks result (SWDUTask)

For more information on these modules, refer to the *Administration* guide, chapter *Asset Manager Automated Process Manager*, section *Configuring the modules monitored by Asset Manager Automated Process Manager*.

---

## *System data and Line-of-business data*

Asset Manager is provided with standard data sets.

These data sets are a part of one of the following groups:

- *System data*: data required by the Asset Manager application in order to function properly.
- *Line-of-business data*: Data that can be inserted into your production database at your discretion.

This data is divided into functional groups.

- *Sample data*: data useful for familiarizing yourself with Asset Manager.

### *System data* **specifically linked to the integration of Asset Manager with HP Client Automation and LANDesk Management Suite**

*System data* involving the integration of Asset Manager with HP Client Automation includes data from the following tables:

- Client-resource relationship types (amCRType)
- Actions (amAction)
- Calculated fields (amCalcField)

*System data* involving the integration of Asset Manager with LANDesk Management Suite includes data from the following tables:

- Images (amImage)
- Actions (amAction)

*System data* is automatically included in the Asset Manager demonstration database.

*System data* is automatically included in your production database when you create it.

*Line-of-business data* **specifically linked to the integration of Asset Manager with HP Client Automation and LANDesk Management Suite**

There is no *Line-of-business data* directly linked to the integration of Asset Manager with LANDesk Management Suite.

*Line-of-business data* involving the integration of Asset Manager with HP Client Automation includes data from the following tables:

- Workflow schemes (amWfScheme)
- Actions (amAction)

The line-of-business data is automatically included in the Asset Manager demonstration database.

The line-of-business data is included in your production database if you select this option with Asset Manager Application Designer.

---

## Reports

Asset Manager is not supplied with any reports related to the integration of Asset Manager with HP Client Automation and LANDesk Management Suite.

---

## API

### Integration with HP Client Automation

No Asset Manager APIs are linked to the integration of Asset Manager with HP Client Automation.

### Integration with LANDesk Management Suite

Certain Asset Manager APIs are linked to the integration of Asset Manager with LANDesk Management Suite.

To obtain a list and description of the APIs concerning the *Software distribution* module, refer to the *Programmer's reference guide, Index, Available functions* - '*Software distribution*' module.

---

## Views

No default view is dedicated to the integration of Asset Manager with HP Client Automation and LANDesk Management Suite.

---

## Other documentation

This guide only provides information that is directly linked to the integration of Asset Manager with HP Client Automation and LANDesk Management Suite.

To obtain related information not covered in this guide, we recommend that you read the following documents:

**Table B.13. Other documentation - list**

The document ...	Covers information relating to...
Installation and upgrade	◆ Installing Asset Manager
User Interface	◆ General interface of the application
Portfolio	■ Managing computers ■ How natures and models work
Software assets	■ Software installations ■ Software counters
Administration	■ Managing itemized lists ■ Using wizards ■ Creating scripts ■ Customizing fields ■ Using Asset Manager Automated Process Manager
Help on fields and links	◆ Using fields and links in the database
Programmer's Reference	◆ Using APIs
Structure of the database	■ List of tables, fields, links and indexes of the database. ■ Agents automatically triggered by Asset Manager

The document ...	Covers information relating to...
Core tables	<ul style="list-style-type: none"> <li>■ Managing locations</li> <li>■ Managing employees and services</li> <li>■ Managing features</li> <li>■ And so on.</li> </ul>
Advanced use	<ul style="list-style-type: none"> <li>■ Using wizards</li> <li>■ Using calculated fields</li> <li>■ Managing itemized lists</li> <li>■ Creating scripts</li> </ul>
General online help	◆ Operation of the entire application

## Workflow schemes

### Integration with HP Client Automation

The integration with HP Client Automation uses a number of workflow schemes to manage certain processes.

You can access the **Workflow schemes** table (**amWfScheme**) using the **Administration/ Workflows/ Workflow schemes** link on the navigation bar.

You can easily filter the workflow schemes linked to the integration with HP Client Automation by using a simple filter on the **Reference** (Ref) field.

Search for values that start with *OVCM*.

The following workflow schemes are directly linked to the integration with HP Client Automation:

**Table B.14. Workflow schemes - list**

Name of the workflow scheme	Reference of the workflow scheme	Context of the workflow scheme (SQL name of the table)	Section of this guide to consult
Validate software installation or removal requests	OVCM_REQ_APPR	Requests (am-Request)	Configuring the approval workflow scheme. [page 32]

For more information on using workflow, refer to the *Advanced use* guide, chapter *Workflow*.

You can create new workflow schemes or customize existing workflow schemes.

## Integration with LANDesk Management Suite

The integration with LANDesk Management Suite does not use any workflow schemes.



# Index

## A

- Actions, 110
- Add or remove software, 51
- Apache ANT 1.6.5
  - Installation, 37 , 37
- Apache AXIS 1.2
  - Installation, 37 , 37
- API, 114
- Asset Manager
  - Installation, 71 , 29
  - License, 72 , 30
  - Modules, 72 , 30
  - Production database, 72 , 30 , 29
- Asset Manager Application Designer
  - Line-of-business data - import
    - Existing database, 31
    - New database, 31
- Asset Manager Automated Process Manager, 112
  - Configuration, 74 , 36
- Asset Manager license, 72 , 30
- Asset Manager modules, 72 , 30
- Asset Manager Web Service
  - Installation, 36

## C

- Calculated fields, 109
- Computer
  - How to reference, 44
  - Where to reference them, 43
  - Why reference them, 43
- Computer group
  - Definition, 93
  - How to reference, 46
  - Where to reference them, 46
  - Why reference them, 46
- Computer inventory, 64
- Configuring the approval workflow scheme., 32
- Counters, 110
- Create software distribution deployment tasks (Asset Manager Automated Process Manager module), 60 , 58
- Create software distribution scheduled tasks (Asset Manager Automated Process Manager module), 81
- Create software distribution scheduled tasks (Asset Manager Automated Process Manager module), 81
- Customization, 39

- D**
- Database
  - Line-of-business data - import
    - Existing database, 31
    - New database, 31
- Delivery Method
  - Create, 67 , 64
  - Definition, 95
  - How to reference, 77
  - Where to reference them, 77
  - Why reference them, 77
- Deployment process, 21
- Deployment task
  - Check transmission to HP Client Automation, 58
  - Creating in Asset Manager, 51
    - Using wizard, for computers, 54
    - Using wizard, for locations, 51
    - Using wizard, for users, 52
  - Definition, 92
  - Transmitting to HP Client Automation, 59
- Deployment work order
  - Check transmission to HP Client Automation, 60
  - Definition, 91
  - Transmitting to HP Client Automation, 58
- Distribute package/script to computers (action), 68 , 65
- Distribute package/script to locations (action), 68 , 65
- Distribute package/script to users (action), 68 , 65
- Distributing a software package or a script, 79
- Distribution Package
  - Create, 67 , 64
  - Definition, 95
  - Distribution, 79
  - How to reference, 77
  - Import in Asset Manager, 68 , 65
  - Where to reference them, 76
  - Why reference them, 76
- Distribution process, 63
- Domain
  - Definition, 92 , 92
  - How to reference, 47
  - Where to reference them, 47
  - Why reference them, 47
- E**
- edac.scn (HP Connect-It scenario), 76 , 64
- External data, 30
- G**
- Grant or remove the rights to use a software application, 51
- Group of devices
  - Definition, 93
- H**
- HP Client Automation
  - Installation, 33 , 33
- HP Connect-It, 67 , 64
  - Installation, 73 , 33
- HP Connect-It scenario
  - Configuration, 73 , 33
- HP Device and Dependency Mapping, 64
  - Installation, 73
- I**
- Icons, 104
- Identify target computers, 67 , 64
  - implementation, 37
- Import computers, 67 , 64
- Install
  - Apache AXIS 1.2, 37
  - Java J2SE v 5.0 JDK, 36
- Installation
  - Apache ANT 1.6.5, 37
  - Asset Manager, 71 , 29
  - Asset Manager Web, 36
  - HP Client Automation, 33
  - HP Connect-It, 73 , 33
  - HP Device and Dependency Mapping, 73
  - LANDesk Management Suite, 72
- Interactions between objects, 26



- Interface options, 105
- Interface - options, 105
- Inventory tool, 35
- Itemized lists, 108

## **J**

- Java J2SE v 5.0 JDK
  - Installation, 36

### **Job**

- Check execution, 59
- Definition, 91

### **Jobs**

- Updating the status automatically, 59

## **L**

### **LANDesk Management Suite**

- Agent, 67 , 64
- Installation, 72 , 72

- LANDesk Management Suite Agent, 67 , 64

- ldap\_active\_directory\_all.scn (HP Connect-It scenario), 47 , 46 , 45 , 44

- ldap\_directory\_service\_all.scn (HP Connect-It scenario), 47 , 46 , 45 , 44

- ldskac.scn (HP Connect-It scenario), 76

- LDStarTasks.scn (HP Connect-It scenario), 81 , 81 , 81 , 80 , 68 , 65

- LDUpdateRepository.scn (HP Connect-It scenario), 77 , 77 , 68 , 65

- LDUpdateTask.scn (HP Connect-It scenario), 82 , 68 , 65

- License rights compliance module, 37

- Line-of-business data, 113 , 31 , 31

## **M**

- Manuals, 115

### **Media**

- Definition, 93
- Where to reference it, 48
- Why reference it, 48

- Menus, 97

## **N**

- Named entitlements, 51

- Definition, 94
- Navigation bar, 97
- Navigation bar links, 97

## **O**

- Optional components, 35
- Overview, 19

## **P**

### **Policy**

- Definition, 94

- Production database, 72 , 29

## **R**

- Reference, 75 , 43

- Reports, 114

- Required components, 29

- Rights to use a software application

- Granting in Asset Manager, 55

- Removing from Asset Manager, 55

## **S**

### **Scheduled task**

- Check execution, 82

- Checking the transmission to LANDesk Management Suite, 81

- Create, 68 , 65

- Creating in Asset Manager, 79

- Using wizard, for computers, 80

- Using wizard, for locations, 80

- Using wizard, for users, 80

- Without wizard, 79

- Definition, 95

- Execute, 68 , 65

- Transmission to LANDesk Management Suite, 80 , 68 , 65

- Update status, 68 , 65

- Updating the status automatically, 82

### **Script**

- Create, 67 , 64

- Definition, 95

- Distribution, 79

- How to reference, 77

- Import in Asset Manager, 68 , 65

- Where to reference them, 76
- Why reference them, 76
- Service
  - Definition, 93
  - How to reference it, 48
  - Where to reference it, 48
  - Why reference it, 48
- Software package
  - Definition, 94
  - Deployment, 51
  - How to create them, 49
  - Media
    - Linking them to a software package, 50
    - Where to reference them, 49
    - Why reference them, 49
- Status (Asset Manager field), 82
- System data, 113
- T**
- Tables, 105
  - Dependencies between tables, 107
- Tables used with software distribution, 69
- Tabs, 97
- Target computer
  - Declaration in LANDesk Management Suite, 67 , 64
  - How to reference, 76
  - Identification, 67 , 64
  - Import in Asset Manager, 67 , 64
  - Inventory, 64
  - Where to reference them, 75
  - Why reference them, 75
- Task status (Asset Manager field), 82
- Task status code (Asset Manager field), 59
- Task status message (Asset Manager field), 59
- Task status state (Asset Manager field), 60 , 59 , 58
- Toolbar, 104
- Tools, 104
- Transmission status (Asset Manager field), 82 , 81
- Transmission status (field), 80

- Transmit (button), 81
- Transmit at once (wizard option), 80

## **U**

- Update software distribution scheduled tasks result (Asset Manager Automated Process Manager module), 82
- Update software packages and delivery methods database (Asset Manager Automated Process Manager module), 77 , 77
- Update the database using Enterprise Discovery inventory results (Asset Manager Automated Process Manager module), 76
- User account
  - Definition, 92 , 92
- user accounts
  - How to reference, 45
  - Where to reference them, 45
  - Why reference them, 45

## **V**

- Views, 115

## **W**

- Wizards, 110
- Workflow, 116
- Workflow schemes, 116
- ws\_groups\_devices.scn (HP Connect-It scenario), 47 , 46 , 44
- ws\_jobs.scn (HP Connect-It scenario), 58 , 58 , 58
- ws\_policies.scn (HP Connect-It scenario), 60 , 60 , 59
- ws\_services.scn (HP Connect-It scenario), 48
- ws\_status.scn (HP Connect-It scenario), 59