## HP OpenView AssetCenter

Software version: 5.0

## Software assets

invent

Build number: 27

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## Introduction

## Who is the Software assets module intended for?

The *Software assets* module is intended for organizations that want to manage, control and protect their software assets at each phase of their life cycle.

### What does the Software assets module do?

The *Software assets* module is generally used by people who:

- Populate the software contracts database
- Populate the software licenses database (acquisition of rights to use software applications)
- Populate the installations database (consumption of rights to use software applications)
- Monitor that installations comply with licenses
- Manage the software portfolio (installations, updates)

## How to use this guide

#### **Chapter Software Asset Management: The Stakes**

This chapter explains why the Software assets module was developed.

Read this chapter to learn why it is important to manage software assets and how AssetCenter lets you do this.

#### Chapter Licenses, entitlements, installations, utilizations and contracts

This chapter explains how AssetCenter has been designed to manage software assets.

Read this chapter to better understand the different mechanisms that are implemented in software asset management.

### **Chapter Preliminary tasks**

This chapter presents the tasks that must be completed before using the *Software assets* module.

#### **Chapter License contract management**

This chapter explains how to create, validate and update license contracts.

#### **Chapter Software license management**

This chapter explains how to request, create, modify and remove software licenses and entitlements.

#### **Chapter Software installations and utilizations management**

This chapter explains how to request, create, modify, describe and remove software installations and utilizations.

### **Chapter Monitoring license compliance of installations**

This chapter explains how to use the counters to check that the number of acquired rights (licenses) is consistent with the number of consumed rights (installations).

Read this chapter to learn how to check the compliance of your software installations with your acquired rights, and your internal entitlement policy.

### **Chapter Viewing reports and charts**

This chapter explains how to quickly display reports that summarize the status of your software assets.

### **Chapter Practical cases**

This chapter provides practical cases to execute using AssetCenter with the demonstration database.

Go through the practical cases to learn how to use the *Software assets* module.

### **Chapter Glossary**

The glossary contains the key terms used in the Software assets module.

### **Chapter References**

This chapter lists the references for the AssetCenter components that are used in conjunction with the  $Software \ assets \ module.$ 

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## 1 Software Asset Management: The Stakes

## Why should businesses implement software asset management?

Because of their intangible nature, software assets are more loosely managed than tangible assets.

### 🍯 Important:

It is estimated that only 10% of all businesses have implemented an effective software asset management program.

Nonetheless, software assets generate a large part of IT expenses in each of the following fields:

- Acquisition
- Installation
- Support
- Maintenance
- Utilization

## ♂ Important:

In most organizations the percentage of the IT budget used to procure software assets increases year after year.

In general, software asset procurement represents 18 to 37 percent of the IT budget.

Most organizations do NOT know:

- What software is installed
- Where the software is installed
- If the software installation is compliant with licensing rights

Without this information, organizations are running severe risks:

- Illegally using software by having too few license rights
- Overspending by purchasing licenses for software that is not installed or used

### *important:*

Most organizations purchase too many licenses by about 10 to 15 percent.

Being incapable of evaluating and organizing software updates

More information about effective software management and the stakes involved can be found on the Business Software Alliance (BSA) web site:

▶ Just ask SAM [http://www.justasksam.co.uk/index.cfm].

## Benefits of effective Software Asset Management

Managing software assets effectively can benefit your organization in several ways:

- Know who is using what software at any time
- Know which software installations are no longer used and reassign license rights to other users instead of acquiring more rights
- Improve negotiations with your suppliers using the knowledge of your organization's current software situation and its desired evolution
- Target updates with increased precision
- Eliminate illegal installations
- Ensure that workstations receive the updates that they need and for which they qualify

- Reduce the risk of fines paid for illegal software installations
- Produce on-demand reports of your organization's software installations during unscheduled audits

🍯 Important:

Most organizations that implement an effective software asset management program reduce software procurement expenses by 25%.

## Understanding existing license types

In practice, each software publisher implements its own licensing policy.

However, it is possible to define the main license types.

An interesting document on licensing schemes can be found on the BSA web site:

▶ Why does licensing matter?

[http://www.bsa.org/uk/antipiracy/upload/BSA-Licensing-Guide-July-2004.pdf]

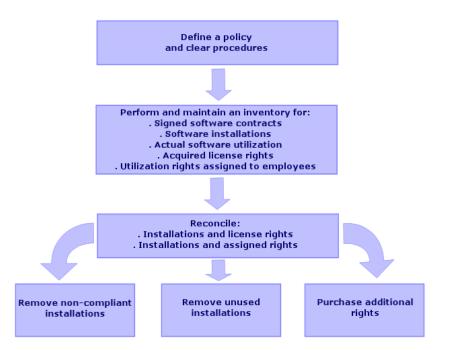
### Implementing software asset management

Implementing software asset management involves implementing procedures and tools to manage, control and protect software assets at each phase of their life cycle.

Managing software assets is not an aggregate of ad hoc operations. It is a continued, permanent effort.

Implementing software asset management is done in several stages:

## Figure 1.1. Managing software assets



- 1 Define a software policy and clear procedures:
  - Reaffirm your drive to be compliant with legislation while continuing to meet the best usefulness/economy ratio for the organization
  - Centralize software procurement
  - Define a validation procedure for software purchase requests
  - Define a list of certified software
  - Select reliable vendors
  - Collect and maintain original copies of purchased software in a *Definitive Hardware Store* (protected access) (licenses, manuals, CDs, registration cards, invoices, etc).
- 2 Inventory installed software and meter actual utilization.

The most effective way to do this is by using automated inventory tools. HP OpenView Enterprise Discovery can do this for you for your entire IT structure.

This task can be performed by a service provider.

Next, transfer the inventoried data to the AssetCenter database where you will be able to implement all required software management tasks.

Once the initial inventory has been performed, update it at regular intervals.

3 Collect information on the software installation rights that you have acquired (licenses, contracts, invoices, entitlements).

Two types of rights exist:

- License: A license grants the right to install a software application published by a third-party. Owning a license makes you compliant with the law.
- Entitlement: An entitlement grants employees the right to install a software application. Waiting for an entitlement before installing an application makes employees compliant with your internal policies.

Store this information in the AssetCenter database (licenses, contracts).

Once this has been done, update the AssetCenter database each time a license is acquired or an entitlement changes.

Using AssetCenter's *Procurement* module is an effective way to manage license acquisitions.

And doing so will increase the reliability of your data.

4 Reconcile installations with acquired rights (licenses) and granted rights (entitlements).

For each software application, one of three situations can occur:

- If the number of installations exceeds the number of license rights: Remove the excess installations or purchase more license rights. Metering actual software utilization will help you make a decision.
- If the number of license rights exceeds the number of installations: Do not purchase new license rights. Save the unused license rights for future use.
- If an application has been installed but not entitlement has been granted: Remove the non-compliant installation or grant the entitlement

More information about implementing an effective software management program can be found on the BSA web site:

▶ Guide to Software Management

[http://www.bsa.org/uk/antipiracy/upload/Guide-to-Software-Management-July-2004.pdf].

## How AssetCenter helps you manage software assets

AssetCenter's *Software assets* module empowers you to handle every aspect of your software asset management program.

This module is entirely integrated with other AssetCenter modules and, in particular, with the following modules:

Portfolio

- Contracts
- Procurement

AssetCenter is also integrated with Enterprise Discovery, which automatically discovers and inventories software.

Using the *Software assets* module you can:

- Manage license contracts
  - Contract validation process
  - Create new contracts
  - Modify existing contracts
- Describe licenses acquired from third party companies
- Describe internal assignments of rights
- Describe the software installations
- Describe actual software utilization
- Reconcile licenses and installations
  - Compare licenses and installations
  - Compare entitlements and installations
  - Process irregularities taking into account actual utilization
- View reports and charts

A wizard guides you through these tasks (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).

## 2 Licenses, entitlements, installations, utilizations and contracts

Managing a software application means managing its corresponding license agreements, entitlements, installations/utilizations and any related contracts.

## Tables concerned by software management

In AssetCenter the following tables are concerned by software asset management:

#### Table 2.1. Tables

Table	Use
Natures (amNature)	Create natures of:
	<ul> <li>Licenses</li> </ul>
	Installations/utilizations
	Contracts
Models (amModel)	Create models of:
	Licenses
	Installations/utilizations
	<ul> <li>Contracts</li> </ul>

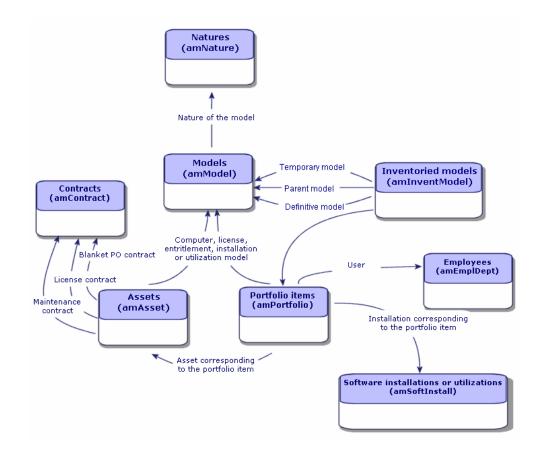
Table	Use
Inventoried models (amInventModel)	Mapping between installations/utilizations models from automatic inventory tools and models in the AssetCenter database
Portfolio items (amPortfolio)	Create instances:
	Licenses
	Installations/utilizations
Assets (amAsset)	<ul> <li>Each time a portfolio item corresponding to the following items is created, a corresponding record is created in the Assets table:</li> <li>All licenses.</li> <li>Installations and utilizations when they are associated with a model, itself associated with a nature whose Management constraint field (seMgtConstraint) is set to Asset tag or Unique asset tag (▶ Portfolio guide, chapter Overview, section Three management types).</li> </ul>
Software installations (amSoftInstall)	Each time a portfolio item corresponding to a software installation/utilization is created, a corresponding record is created in the Software Installations table.
Software counters (amSoftLicCounter)	Counters enable you to make sure you are in compliance with the software provider and you own internal policies.
	Counters compare the number of installa- tions/utilizations with the number of license rights.
Workflow schemes (amWfScheme)	This table contains workflow schemes that automate certain tasks linked to software li- cense management.
Actions (amAction)	This table contains wizards that automate certain tasks linked to software license management.
Contracts (amContract)	<ul> <li>This table enables you to create:</li> <li>Acquisition contracts (linked to licenses) or maintenance contracts (generally linked to installations and sometimes to licenses) when necessary.</li> <li>Microsoft Select type master lease contracts.</li> <li>ASP type contracts.</li> </ul>

## 💋 Note:

The contracts are used to describe agreements you have with software providers. Creating a contract is optional except for *ASP* agreements, which must be described by a contract.

You must create a portfolio item for each license acquired (whether it be due to a license contract or not).

## Figure 2.1. Physical data model



## Link between installations/utilizations and licenses

## ጆ Note:

*Installation* means the software is physically installed on the computer (individual workstation or server).

*Utilization* means the user can access and use the software without installing it. For example, this is the case for application services which can be accessed via an Internet browser.

Actual utilization of a software application is the amount of real utilization of an application that can be measured for a given user.

You have the choice of two approaches:

• Directly linking licenses with their installations/utilizations.

This requires detailed tracking in the field and in the AssetCenter database.

When using this approach, start by creating the licenses, then create the installations/utilizations and link them back to the corresponding license.

• Keep licenses separate from installations / utilizations.

Even if this does not seem the most rigorous method, it is the most realistic since software is most often installed from a CD-ROM or a server, independently of its license.

When using this approach, create the licenses as and when they are acquired. Create the installations separately as and when you make them or when they are inventoried via an automatic network scan.

Using software counters, you can reconcile licenses with installations/utilizations, even if there is not a direct link between them.

## Management types

As for other assets and portfolio items, you must choose a management type for licenses and installations/utilizations.

Their management type will depend on their importance and the way in which you choose to describe them:

- Individual management for expensive and indispensable software (AssetCenter, SAP, for example).
  - ▶ *Portfolio* guide, chapter *Portfolio items*, section *Assets*.
- Collective management for software of little value that you purchase in large quantities (File compression software, for example).

- ▶ Portfolio guide, chapter Portfolio items, section Batches.
- Undifferentiated management for free software for which you only want to know the number of its users (RealPlayer type multimedia software, for example).
  - ▶ Portfolio guide, chapter Portfolio items, section Untracked batches.

### Software assets module: Order of implementation

- 1 Create the software license contracts (▶ License contract management [page 33])
- 2 Create the software licenses( Software license management [page 47])
- 3 Create the named entitlements (► Software entitlement management [page 53])
- 4 Create and/or import the software installations/utilizations (► Software installations and utilizations management [page 57])
- 5 Check compliance of installations/utilizations with respect to licenses (> Monitoring license compliance of installations [page 73])
- 6 Analyze the situation of your company (► Viewing reports and charts [page 95])

### How to create records

The recommended method of creating records for contracts, licenses, entitlements, installations/utilizations and software counters is by using the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).

This wizard has the advantage of guiding you step-by-step in creating the records.

### \delta Important:

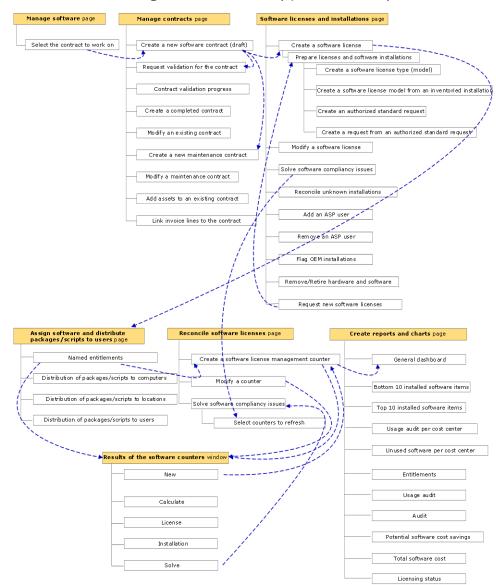
We recommend that you use the wizard to create records, especially when you start using the *Software assets* module.

Once you are familiarized with the module, you can also use the links on the navigation bar to directly access records in a given table (for example, the **Portfolio management/ Software counters** link).

## Manage Software wizard structure (sysSamLauncher)

This section provides an overview of the structure of the *Manage software* wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).

This wizard has its own pages as well as links to other wizards.



Manage software wizard (sysSamLauncher)

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## 3 Preliminary tasks

This chapter presents the tasks that must be completed before using the *Software assets* module.

### Insert the appropriate license in the AssetCenter database

Make sure your AssetCenter license allows access to the following modules:

- Portfolio
- Contracts
- Software assets

### Windows client: Activate required modules

- 1 Start the AssetCenter Windows client.
- 2 Activate the following modules (File/ Activate modules menu):
  - Portfolio
  - Contracts
  - Software assets

## Import the line-of-business into your existing database

In order to use the *Software assets* module with a database, you must import a specific set of line-of-business data.

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

Follow the instructions in the Administration guide, chapter Creating, modifying and deleting an AssetCenter database, section Creating the database structure with AssetCenter Database Administrator.

On the page **Data to import**, select:

- Software management Line-of-business data
- Contracts Line-of-business data

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

- 1 Start AssetCenter Database Administrator.
- 2 Select the File/ Open menu item.
- <sup>3</sup> Select the **Open database description file create new database** option.
- 4 Validate (**OK** button).
- 5 Select the gbbase.xml file, which is located in the config sub-folder of the AssetCenter installation folder (in general: C:\Program Files\HP OpenView\AssetCenter 5.00 xx).
- 6 Open the file (**Open** button).
- 7 Start the database creation wizard (Action/ Create database menu).
- 8 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Fields	Value	
Generate SQL script / Create database page		
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.
	Note:
	The AssetCenter database administrator
	is the record in the <b>Departments and</b>
	employees (amEmplDept) table for
	which the <b>Name</b> (Name) field is set to <i>Admin</i> .
	The database connection login in stored in the <b>User name</b> (UserLogin) field. The administration name is <i>Admin</i> .
	The password is stored in the <b>Pass-</b>
	word field (LoginPassword).
Data to import page	
Available data	Select: Software management - Line-of-business data

.

Contracts - Line-of-business data

problem is encountered.

Select this option for the import to stop if a

Full name of the file to which all import opera-

tions, including errors and warnings, are logged.

9	Execute the options defined using the wizard ( $\ensuremath{\textit{Finish}}$ button).

## To learn more about installing AssetCenter

Stop import if error

Log file

Refer to the Installation and upgrade guide.

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## 4 License contract management

This section explains how to manage license contracts with AssetCenter. License contracts are used to describe the terms and conditions negotiated with software providers and vendors.

## *important:*

License contracts are not to be confused with the actual licenses themselves (which are portfolio items that describe acquired license rights).

The counters use licenses and not contracts as the basis to reconcile acquired and consumed rights.

### Creating a license contract

This section explains how to create a new contract.

### Method 1: Using the Manage software wizard (sysSamLauncher)

- 1 Collect together the contract signed with software providers and vendors.
- 2 Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/** Manage software... link on the navigation bar).

- <sup>3</sup> In the Manage software page, select the Create/Modify software contracts option.
- 4 Click Next.
- <sup>5</sup> On the Contract management page, click Create a new software contract (Draft) or Create a completed contract.

💋 Note:

The **Create a new software contract (Draft)** button is used to create a contract whose **Contract status** (seStatus) field is set to *In preparation*.

The **Create a completed contract** button is used to create a contract whose **Contract status** (seStatus) field is set to *Validated*.

This is the only difference between these two buttons.

6 This starts the *Create a software contract (Draft)* (sysSamCreateSoftContract) wizard.

Populate the wizard according to your needs.

Validate all parameters of the contract (Finish button

The Create a software contract (Draft) wizard creates the contract.

### Method 2: Using the menus

- 1 Collect together the contract signed with software providers.
- 2 Display the contracts (**Contracts / Contracts** link on the navigation bar).
- 3 Add a new record (**New** button).
- 4 Populate in particular the following fields and links:

Field or link	Description
Type (seType)	<ul> <li><i>Master lease</i>: If there is a master lease with the software vendor</li> </ul>
	<ul> <li>License: For the license contract strictly speaking</li> </ul>
	<ul> <li>Insurance: For support contracts, upgrades, software assurance, etc.</li> </ul>
General tab	
Attached to (Parent)	To link a license contract to a master lease or an insurance contract to a license contract
Licenses tab	
License contract type (seLicenseType)	Specifies the license type

Tab list (Licenses (Licenses) link)

Description Assets describing the license rights acquired in a license contract

# Selecting the current contract in the *Manage software* wizard (sysSamLauncher)

This section explains how to associate a contract by default with the *Manage software* wizard.

The default contract is taken into account by some of the other wizards that are triggered by the *Manage software* wizard.

### ጆ Note:

The selected contract remains associated with the wizard, even if you exit the wizard.

The current contract is associated with the AssetCenter database login and is therefore different for each login.

- 1 Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- <sup>2</sup> In the Manage software page, click on the Select a contract to work on button.
- 3 This starts the *Select your current software contract* (sysSamGetEnv) wizard. Populate the wizard according to your needs.

Validate the contract selection (**OK** button).

In this guide, *current contract* will refer to the current contract associated with the *Manage software* wizard for a given login to the AssetCenter database.

### Automating contract validation

This section explains how contract validation is automated by AssetCenter and how to configure and implement this.

### Overview

The system data belonging to the *Software assets* module contains a workflow entitled *Contract validation* (sysSam\_CNTR\_APPR).

This workflow schema automates the validation of license contracts.

The following is a description of this workflow scheme:

#### Table 4.1. License contract validation - Contract validation workflow scheme

Events that trig- ger the workflow scheme	<ul> <li>The workflow scheme starts if one of the following events occurs:</li> <li>Record added to the Contracts (amContract) table.</li> <li>Updated Contracts (amContract) table, Status (Status) field.</li> </ul>			
Conditions re- quired for the workflow to con- tinue running	The workflow scheme continues running if the following fields are set to the following values:			
	Table name	Field name	Field value	
	<b>Contracts</b> (am- Contract)	Status (Status)	SAM_WORKFLOW	
	<b>Contracts</b> (am- Contract)	Contract status (seStatus)	Awaiting approval (13) or Awaiting approval for re- newal (33)	
Is AssetCenter Server required to trigger and run the workflow scheme? Simplified de- scription of the workflow scheme	No 1 The workflow	scheme creates a budgetary	validation request assigned	
	to a group that is selected by the workflow scheme. This validation request is shown by a workflow activity assigned to the group supervisor. This workflow activity is visible to all members of the group. A message is also sent to the group supervisor.			
	group member	group members, the workflow creates a validation request for the <i>Billing</i> approval, Legal approval, Financial approval and Technical approval		
	These validation requests are each shown by a workflow activity assigned to the group supervisor. These workflow activities are visible to all members of the corresponding group. A message is also sent to the su- pervisor of each group.			
		If the four validation requests are approved, the contract supervisor receives a message.		
	4 If the contract is refused by one or more of the validation groups, a message informs the contract supervisor who can choose to leave the contract as-is, or to make changes and resubmit it for validation.			

#### Configuring how the budgetary validation group is selected

By default, to select the appropriate budgetary validation group, the workflow scheme proceeds as follows:

- 1 It looks for all groups linked to the contract (**Contracts** tab in the group detail).
- 2 It selects the groups whose **Barcode** (BarCode) field begins with *STRBUDGET*.
- 3 If no group is found, it assigns the request validation to the group whose **Barcode** (BarCode) field is set to *sysSam\_CNTR\_BUD*.

Before you can use the *Contract validation* workflow scheme, you must perform the following operations:

- 1 Display the groups (**Organization/ Employee groups** link).
- 2 For each contract validated by a specific group:
  - a Create a new group (**New** button) or display the detail of an existing group.
  - b Make sure that the following fields and links have the appropriate values:

Field or link	Value
Bar code (code)	A name starting with STRBUDGET.
Supervisor (Supervisor)	The person designated by this link receives a message when a workflow activity for the con- tract validation request is created by the <i>Con-</i> <i>tract validation</i> workflow. The person also views these workflow activities.
Composition tab	
Tab list ( <b>Members</b> (Members) link)	The members of the group view the workflow activities for the contract validation request created by the <i>Contract validation</i> workflow and can accept or reject validation requests.
Contracts tab	
Tab list ( <b>Contracts</b> (Contracts) link)	Add that contracts that are validated from a budgetary standpoint by the group.

#### 🍯 Important:

In order for this system to work, a contract to validate must only be included in one single group for which the **Barcode** (BarCode) field starts with *STRBUDGET*.

- 3 For contracts to be validated using the default group:
  - a Display the detail of the *Budgetary approval* group whose **Barcode** (BarCode) field is set to *sysSam\_CNTR\_BUD*.

b Make sure that the following fields and links have the appropriate values:

Field or link	Value
Supervisor (Supervisor)	The person designated by this link receives a message when a workflow activity for the con- tract validation request is created by the <i>Con-</i> <i>tract validation</i> workflow. The person also views these workflow activities.
Composition tab	
Tab list ( <b>Members</b> (Members) link)	The members of the group view the workflow activities for the contract validation requests created by the <i>Contract validation</i> workflow and can accept or reject the validation requests.

# 6 Important:

In order for this group to be used for a given contract, this contract must not be included in a group whose **Barcode** (BarCode) field begins with *STRBUDGET*.

#### Configuring the other validation groups

The other validations are handled by the following validation groups:

- Billing approval (sysSam\_CNTR\_BILL)
- Legal approval (sysSam\_CNTR\_JURI)
- *Financial approval* (sysSam\_CNTR\_FINA)
- Technical approval (sysSam\_CNTR\_OPER)

You must define these groups as follows:

- 1 Display the groups (**Organization/ Employee groups** link).
- 2 Display the details of these groups one after the other.
- 3 Populate the following fields and links:

Field or link	Value
Supervisor (Supervisor)	The person designated by this link receives a
	message when a workflow activity for the contract
	validation request is created by the <i>Contract validation</i> workflow. The person also views these
	workflow activities.
Composition tab	

Field or link	Value
Tab list ( <b>Members</b> (Members) link)	The members of the group view the workflow activities for the contract validation requests created by the <i>Contract validation</i> workflow and can accept or reject the validation requests.

#### Customize the Contract validation workflow scheme

# 💋 Note:

This operation can only be done using the Windows client.

#### The Contract validation should only be considered as a sample.

It is more than likely that you will need to tailor it to suit your own validation processes, in the following areas in particular:

- Validation types to perform (budgetary, financial, technical, etc.)
- The way in which validators are selected (named user, calculated user, named group, calculated group)

Here is how, for example, you can change the way in which the financial validation group is selected, so that it is deduced and not simply named:

- 1 Display the workflow schemes (Administration/ Workflow/ Workflow schemes link on the navigation bar).
- $2 \hspace{0.1in} \text{Select the } \textit{Contract validation} \hspace{0.1in} (\text{sysSam\_CNTR\_APPR}) \hspace{0.1in} \text{scheme}.$
- 3 Display the detail of the *Contract validation: Financial* (SAM\_APPR\_CNTR\_FINA) activity (shortcut menu **Detail of activity** on the *Contract validation: Financial* box).
- 4 Display the **Parameters** tab.
- 5 Display the detail of the **Assignee** link (click on the magnifier)
- 6 Modify the following fields and links:

Field or link	Value
Context (ContextTable)	Contracts (amContract)
Type (seType)	Calculated group

Value
Const STR <validation type="">="CNTR<validation type="">"</validation></validation>
RetVal=amDbGetLong("SELECT g.lGroupId FROM amRelEmplGrpCntr r, amEmplGroup g WHERE r. lGroupId=g.lGroupId AND r.lCntrId="& [lCnt rId] & " AND g.BarCode LIKE '" & STR <valid< th=""></valid<>
ation type> & "%'") if RetVal=0 Then RetVal=amDbGetLong("SELEC T lGroupId FROM amEmplGroup WHERE BarCode ='sysSam_CNTR_ <validation type="">'")</validation>
by replacing the <i><validation type=""></validation></i> variable with <i>FINA</i> .
Tip:
<ul> <li>If you wish to customize how another validation group type is selected, you can use the same script, and replace &lt;<i>Validation type&gt;</i> with another value:</li> <li>Billing approval: <i>BILL</i></li> <li>Legal approval: <i>LEGA</i></li> <li>Technical approval: <i>OPER</i></li> </ul>

- 7 Save the modifications (**Modify** button) and close the detail of the workflow role (**Close** button).
- 8 Close the detail of the activity (**Close** button).
- 9 Close the detail of the workflow scheme (**Close** button).
- 10 Display the groups (Organization/ Employee groups link).
- 11 For the contracts that are validated by a specific group:
  - a Create a new group (**New** button) or display the detail of an existing group.
  - $b\quad$  Make sure that the following fields and links have the appropriate values:

Field or link	Value
Bar code (code)	A name starting with <i>CNTR</i> < <i>Validation type&gt;</i> , where <i><validation type=""></validation></i> is the value defined in the validation group selection script; In this example: <i>FINA</i> .
Supervisor (Supervisor)	The person designated by this link receives a message when a workflow activity for the con- tract validation request is created by the <i>Con-</i> <i>tract validation</i> workflow. The person also views these workflow activities.

Field or link	Value
Composition tab	
Tab list ( <b>Members</b> (Members) link)	The members of the group view the workflow activities for the contract validation requests created by the <i>Contract validation</i> workflow and can accept or reject the validation requests.
Contracts tab	
Tab list ( <b>Contracts</b> (Contracts) link)	Add that contracts that are validated from a financial standpoint by the group.

- 12 For contracts to be validated using a named group:
  - a Display the detail of the group whose **Barcode** (BarCode) field is set to sysSam\_CNTR\_FINA.
  - b Make sure that the following fields and links have the appropriate values:

Field or link	Value
Supervisor (Supervisor)	The person designated by this link receives a message when a workflow activity for the con- tract validation request is created by the <i>Con-</i> <i>tract validation</i> workflow. The person also views these workflow activities.
Composition tab	
Tab list ( <b>Members</b> (Members) link)	The members of the group view the workflow activities for the contract validation requests created by the <i>Contract validation</i> workflow.

# *important:*

In order for this group to be used for a given contract, this contract must not be included in a group whose **Barcode** (BarCode) field begins with *CNTRFINA*.

#### Requesting validation for the current contract

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- 2 In the **Manage software** page, check that the wizard is associated to the current contract and select the **Create/Modify software contracts** option.
- 3 Click Next.

- 4 In the Manage contracts page, click the Request contract validation button.
- 5 This starts the *Request validation for a contract* (sysSamReqContractApproval) wizard.

 $Validate \ the \ contract \ validation \ request \ (Finish \ button).$ 

This wizard modifies the following fields and links of the current contract:

Field name	Field value
Status (Status)	SAM_WORKFLOW
Contract status (seStatus)	Awaiting approval

These modifications trigger the *Contract validation* (sysSam\_CNTR\_APPR) workflow for the current contract (> Overview [page 36].)

#### Viewing the validation progress status of the current contract

- 1 Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> On the **Manage software** page, check that the current contract in the wizard is the contract for which you want to check the validation process and select the **Create/Modify software contracts** option.
- 3 Click Next.
- 4 In the Manage software wizard page, click the Contract validation progress button.
- 5 This displays a screen showing the progress of the *Contract validation* (sysSam\_CNTR\_APPR) workflow (▶ Overview [page 36]).

#### Accepting or refusing a contract validation request

For each requested validation, the *Contract validation* workflow scheme creates a workflow activity.

These workflow activities are assigned to the group supervisor in charge of the different validations.

A workflow scheme is visible to the supervisor and the members of the group to which the task is assigned.

To accept or refuse a validation request:

1 Connect to the AssetCenter database with the supervisor login or the one of a group member.

- <sup>2</sup> Display current tasks (**Portfolio management/ My workflow tasks** link on the navigation bar).
- 3 Select the task corresponding to the validation request.
- 4 Take a look at the workflow task.
- 5 Click either the **Validate the contract** or **Refuse the contract** button.

#### Restarting a contract validation cycle

If a contract is refused, the workflow scheme sends a message to the contract supervisor.

To make a decision on how to process the contract:

- 1 Connect to the AssetCenter database with the contract supervisor login.
- 2 Display the messages (**Administration/ System/ My messages** link on the navigation bar).
- 3 In the detail of the refusal notification message, consult the contract detail (**Ref. obj.** button .)
- 4 Modify the contract.
- 5 Display current tasks (**Portfolio management/ My workflow tasks** link on the navigation bar).
- 6 Select the task corresponding to the validation refusal
- 7 Take a look at the workflow task.
- 8 Click **Yes** to restart the validation circuit or **No** to quit the process.

When you click **Yes**, the workflow activity modifies the following fields and links in the contract being validated:

Field name	Field value
Status (Status)	SAM_WORKFLOW
Contract status (seStatus)	Awaiting approval

These modifications trigger the *Contract validation* (sysSam\_CNTR\_APPR) workflow for the current contract (> Overview [page 36].)

# Modifying a license contract

This section explains how to modify an existing contract.

#### Method 1: Using the Manage software wizard (sysSamLauncher)

- 1 Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/** Manage software... link on the navigation bar).
- <sup>2</sup> In the Manage software page, select the Create/Modify software contracts option.
- 3 Click Next.
- 4 In the Manage contracts page, click the Modify an existing contract button.
- 5 This starts the Create a software contract (Draft) (sysSamCreateSoftContract) wizard.

Populate the wizard according to your needs.

Validate all parameters of the contract ( $\ensuremath{\textit{Finish}}$  button

The wizard modifies the contract.

#### Method 2: Using the menus

- 1 Display the contracts (**Contracts / Contracts** link on the navigation bar).
- 2 Select the contract to be modified.
- 3 Modify the contract.
- 4 Validate the modifications (**Modify** button).

## Associating a new maintenance contract to a license contract

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> In the Manage software page, select the Create/Modify software contracts option.
- 3 Click Next.
- 4 In the Manage contracts page, click the Create a new maintenance contract button.
- 5 This starts the *Create a contract* wizard (BstCntrCreateContract). Populate the pages in the wizard.

Validate what you entered (Finish button.)

The *Create a software contract* wizard creates the maintenance contract and links it to the current contract.

# Modifying a maintenance contract associated with the current contract

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> On the **Manage software** page, check that the current contract in the wizard is the license contract for which you want to modify the maintenance contract that is associated with it. Then select the **Create/Modify software contracts** option.
- 3 Click Next.
- 4 In the Manage contracts page, click the Modify a maintenance contract button.
- 5 This displays the list of maintenance contracts associated with the current contract.

Modify the associated contracts.

Validate what you entered (**Modify** button.)

# Adding assets to the current contract

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> On the **Manage software** page, check that the wizard is associated with the current contract to which you want to add assets. Then select the **Create/Modify software contracts** option.
- 3 Click Next.
- 4 In the Manage contracts page, click the Add assets to an existing contract button.
- 5 This displays the list of records in the **Assets** (amAsset) tab that are not already linked to the current contract.
- 6 Select one or more assets.
- 7 Populate the other pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons).
- 8 Validate what you entered (Finish button.)

This links the assets to the current contract (visible on the **Assets** tab in the contract detail and **Contracts** tab in the asset detail).

9 Exit the wizard (**OK** button).

# Link invoice lines to the current contract

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- <sup>2</sup> On the **Manage software** page, check that the wizard is associated with the current contract to which you want to add invoice lines. Then select the **Create/Modify software contracts** option.
- 3 Click Next.
- 4 In the Manage software wizard page, click the Link invoice lines to the contract. button.
- 5 This starts the Add assets to an existing contract (Ast2Cntr) wizard.
- 6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons).
- 7 Validate what you entered (Finish button.)

This links the invoice lines to the current contract (**Associated contract** (CntrInvLine) link of the invoice lines).

8 Exit the wizard (**OK** button).

# 5 Software license management

A software license is a portfolio item (> *Portfolio* guide, chapter *Portfolio items*). Just like for any other portfolio item, you can choose an individual, collective or undifferentiated management for this item.

# Create a software license nature

- 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
- 2 Add a new record (**New** button).
- 3 Populate in particular the following fields and links:

Field	Value
Also create (seOverflowTbl)	Nothing
Software license	Yes

# 💋 Note:

You will note that you only need to create one nature.

It can be used to create all license models.

For more information about natures, refer to the *Portfolio* guide, chapter *Portfolio items*, section *Natures*.

# Create a software license model

Method 1: Using the *Manage software* wizard (sysSamLauncher)

▶ Create a software license [page 48]

#### Method 2: Using the menus

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Add a new record (**New** button).
- 3 Populate in particular the following fields and links:

Field or link	Comment on the value
General tab	
Nature (Nature)	Nature for which the <b>Also create</b> (seOver- flowTbl) field is set to <i>Nothing</i> and the <b>Software</b> <b>license</b> option is selected

# Create a software license

#### Method 1: Using the *Manage software* wizard (sysSamLauncher)

- 1 Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/** Manage software... link on the navigation bar).
- <sup>2</sup> In the Manage software page, select the Create/Modify software licenses and installations option.
- 3 Click **Next**.
- 4 In the Licenses and software installations page, click the Create a software license button.
- 5 This starts the *Create a new software license* (sysSamCreateLicpfi) wizard. Populate the wizard according to your needs.

In particular, if there is not yet an appropriate model to create the software license, click **Prepare licenses and software installations** on the **Create a new software license** page.

This starts the *Prepare licenses and software installations* (sysSamLicenseProcess) wizard.

Click one of the following two buttons:

• **Create a software license type (model)**: This starts the wizard *Create a software license type (model)* (sysSamCreateLicModel).

This wizard is used to create a software license model from an existing model (**amModel** table) or from a catalog product (**amCatProduct** table).

 Create a software license type (model) from an inventoried installation: This starts the Create a software license model from installations (sysSamCreateLicModFromInst) wizard.

This wizard is used to create a software license model from inventoried installations.

6 Validate all parameters (Finish button

The wizard creates the license.

#### Method 2: Using the menus

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Create a portfolio item based on an appropriate model.
- 3 Populate the **License** tab in particular.

# Modify a software license

#### Method 1: Using the Manage software wizard (sysSamLauncher)

- 1 Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- <sup>2</sup> In the Manage software page, select the Create/Modify software licenses and installations option.
- 3 Click Next.
- 4 In the Licenses and software installations page, click the Modify a software license button.
- 5 Triggers the Modify a software license (sysSamModifyLicpfi) wizard.

- 6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons).
- 7 Validate all parameters (Finish button).The wizard modifies the license.
- 8 Exit the wizard (**OK** button).

#### Method 2: Using the menus

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Select the license to modify and modify it.
- 3 Validate the modifications (**Modify** button).

# Request new software licenses

#### Method 1: Using the *Manage software* wizard (sysSamLauncher)

- 1 Connect to the database using the login of the user associated to the named entitlement.
- <sup>2</sup> Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- <sup>3</sup> In the Manage software page, select the Create/Modify software licenses and installations option.
- 4 Click Next.
- 5 In the Licenses and software installations page, click the Request new software licenses button.

This starts the *Request software licenses* (sysSamCreateLicReq) wizard.

6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons).

In particular, if there is not yet an appropriate model to create the software license, click **Prepare licenses and software installations** on the **Create a new software license** page.

This starts the *Prepare licenses and software installations* (sysSamLicenseProcess) wizard.

Click one of the following two buttons:

• **Create a software license type (model)**: This starts the wizard *Create a software license type (model)* (sysSamCreateLicModel).

This wizard is used to create a software license model from an existing model (**amModel** table) or from a catalog product (**amCatProduct** table).

• Create a software license type (model) from an inventoried installation: This starts the *Create a software license model from installations* (sysSamCreateLicModFromInst) wizard.

This wizard is used to create a software license model from inventoried installations.

7 Validate all parameters (Finish button

The wizard creates the request.

8 Exit the wizard (**OK** button).

#### Method 2: Using the menus

- 1 Display the internal requests (**Portfolio management/ Extended** portfolio/ Internal requests link on the navigation bar).
- $2 \quad \text{Add a new record (New button).}$

# Retiring a license

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 2 In the Manage software page, select the Create/Modify software licenses and installations option.
- 3 Click Next.
- 4 In the Software licenses and installations page, click the Remove licenses or installations from the portfolio button.
- 5 This starts the *Retire portfolio items* (AstRetire) wizard.

Populate the wizard according to your needs.

Validate all parameters (Finish button

The wizard executes the defined tasks.

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# 6 Software entitlement management

# Create a named entitlement for a license

This section explains how to create a new named entitlement that assigns license rights to designated users or computers.

#### Method 1: Using the Manage software wizard (sysSamLauncher)

- 1 Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- <sup>2</sup> On the Manage software page, select the Assign software and distribute packages/scripts to users option.
- 3 Click Next.
- 4 On the Assign software and distribute packages/scripts to users page, click Named entitlements.

This starts the Assign software (sysSamEntitleUserOrItem) wizard.

- 5 In the Assign software licenses... page, select the Create a new entitlement option.
- 6 Populate the rest of the wizard according to your needs.
- 7 Validate all parameters (Finish button
- 8 Exit the wizard (**OK** button).

#### Method 2: Using the menus

- 1 Display the named entitlements (**Organization/ Named entitlements** link on the navigation bar).
- 2 Add a new record (**New** button).

# Modifying named entitlements for licenses

This section explains how to modify a named entitlement that assigns license rights to designated users or computers.

#### Method 1: Using the Manage software wizard (sysSamLauncher)

- 1 Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/** Manage software... link on the navigation bar).
- <sup>2</sup> On the Manage software page, select the Assign software and distribute packages/scripts to users option.
- 3 Click **Next**.
- 4 On the Assign software and distribute packages/scripts to users page, click Named entitlements.

This starts the Assign software (sysSamEntitleUserOrItem) wizard.

- 5 On the Assign software licenses... page, select the Modify an existing entitlement option.
- 6 Populate the rest of the wizard according to your needs.
- 7 Validate all parameters (**Finish** button).
- 8 Exit the wizard (**OK** button).

#### Method 2: Using the menus

- 1 Display the named entitlements (**Organization/ Named entitlements** link on the navigation bar).
- 2 Select the entitlement to modify.
- 3 Modify the selected entitlement.
- 4 Save the modifications (**Modify** button).

# Deleting a named entitlements for a license

This section explains how to delete a named entitlement that assigns license rights to designated users or computers.

- 1 Display the named entitlements (**Organization/ Named entitlements** link on the navigation bar).
- 2 Select the entitlement to delete.
- 3 Delete the selected entitlement (**Delete** button).

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# 7 Software installations and utilizations management

# Create installations/utilizations automatically

The most effective and reliable way to represent the status of your installations/utilizations is to use automatic network inventory tools such as Enterprise Discovery.

## 💋 Note:

You can, of course, use other inventory tools. You must make the required changes to the Connect-It scenarios and the AssetCenter Server modules for them to work with your inventory software.

Using such tools, you can identify the installations by computer and then transfer this information to the AssetCenter database.

# Configure your environment to import the results from a database obtained with Enterprise Discovery

- 1 Perform a software inventory using Enterprise Discovery. Use the version specified in the Connect-It Compatibility Matrix that ships with AssetCenter 5.0.
- 2 Install Connect-It in the version as provided with AssetCenter 5.0.
- 3 Start Connect-It.

4 Open the scenario edac-swnorm.scn (located in the scenario\ed\ed<Enterprise Discovery version number>ac<AssetCenter version number>sub-folder of the Connect-It installation folder) (**File/ Open** menu).

For example: C:\Program Files\Peregrine\Connect-It <Version
number> <language>\scenario\ed\ed2ac50.

5 Configure the *Peregrine Enterprise Discovery* connector (select the connector in the scenario diagram, **Configure connector** shortcut menu).

On the *Select a connection type* wizard page, select a connection type and then populate the related pages in the wizard.

6 Configure the Asset Management connector (select the connector in the scenario scheme, shortcut menu Configure connector).
Populate the Define the connection parameters page of the configuration

Populate the *Define the connection parameters* page of the configuration wizard.

- 7 Save your modifications and then exit Connect-It.
- 8 Start AssetCenter Server.
- <sup>9</sup> Connect to the AssetCenter database (File/Connect to database).
- 10 Display the modules (Tools/ Configure modules menu).
- 11 Select the *Update the database using Enterprise Discovery inventory results* module (EdAc).
- 12 Select the **Enabled** option.
- 13 Modify the **User data item** field as follows:

```
"$connectit_exedir$/conitsvc.exe" -once -wpplog '$connectit_exedir$/../
scenario/ed/ed2ac$version$/edac.scn' -dc:'Asset Management.SERVER'=$cnx
$ -dc:'Asset Management.LOGIN'=$login$ -dc:'Asset Management.TEXTPASSWO
RD'=$pwd$
```

- Replace the number 2 with the version number of Enterprise Discovery that is installed on your station.
- Replace *edac.scn* with *edac-swnorm.scn*
- 14 Define the frequency of the *Update the database using Enterprise Discovery inventory results* module (**Verification schedules** frame.)
- 15 Save your modifications (**Modify** button).
- 16 Exit AssetCenter Server.

#### Configure the *Model normalization* (sysSam\_ModelNorm) group.

This group is used to assign workflow schemes from the *Model normalization:* '*amInventModel*' *added* (sysIvtExtModelNew) (▶ Automatic mechanism triggered when a new record is created in the Inventoried models (amInventModel) table [page 61]).

To define who can handle the workflow tasks:

- 1 Display the groups (**Organization/ Employee groups** link).
- 2 Display the *Model normalization* (sysSam\_ModelNorm) group.
- 3 Populate at the least the following links:

Field or link	Comment
Supervisor (Supervisor)	The person designated by this link views the tasks created by the <i>Model normalization:</i> ' <i>amInventModel</i> ' added workflow scheme.
Composition tab	
Members (Members)	The members of the group view the workflow schemes created by the <i>Model normalization:</i> ' <i>amInventModel</i> ' <i>added</i> workflow.

#### Importing the inventory database obtained by Enterprise Discovery

#### Importing the inventory database

AssetCenter Server, when running in the background with the appropriate modules activated, automatically imports the information from the Enterprise Discovery inventory database.

#### What is imported from the inventory database

The inventory database contains all the inventoried computers.

To each inventoried computer is attached the components (screen, printer, etc.) and the identified software.

#### Result of the import in the AssetCenter database

A portfolio item is created for every computer, computer component and software item identified on the computer.

Let's now take a closer look at software.

For every inventoried software item:

- 1 Connect-It searches in AssetCenter if a record already exists in the **Inventoried models** (amInventModel) table for which the **Key** (InventoryKey) field is the concatenation of:
  - the string *PDI*
  - the *applicationdata.application.versionid* field value from the inventory database record to import

If such a record is not found, Connect-It:

• Creates the record.

 Populates the Temporary model (ModelTmp) link with the unknown software installation model.

# 💋 Note:

The unknown software installation model corresponds to the record in the **Model** (amModel) table whose **Barcode** (BarCode) field is set to *sysUNKNOWN\_SOFT* and whose **Name** (Name) field equals *Unknown software installation*.

If it exists, Connect-It updates the record.

# ጆ Note:

The line-of-business data from the *Software assets* module populates the **Inventoried models** (amInventModel) table with the models that correspond to the Enterprise Discovery version given in the Connect-It compatibility matrix that ships with AssetCenter 5.0.

These temporary models are not associated to the records in the **Model** (amModel) table so that only the installation models that are available in your portfolio are created. The creation of models that corresponds to the inventoried models is automated (> Automatic mechanism triggered when an existing record of the Inventoried models table is linked to a software installation for the first time [page 62].)

- 2 Connect-It searches in the AssetCenter database if there already is a record in the **Portfolio items** (amPortfolio) table:
  - Linked to a computer on which the software was identified
  - Whose Installation folder (folder) field is set to the value of the SWSubComponents.SWVersion.Version\_ID field of the record to import
  - Linked to the record in the Inventoried Models (amInventModel) table whose Key (InventoryKey) field results from the concatenation of the PDI string and the SWSubComponents.SWVersion.Version\_ID field value.

If such a record is not found, Connect-It:

- Creates the record
- Populates the **Models** (amModel) link with the unknown software installation model.

# ጆ Note:

The unknown software installation model corresponds to the record in the **Model** (amModel) table whose **Barcode** (BarCode) field is set to *sysUNKNOWN\_SOFT* and whose **Name** (Name) field equals *Unknown software installation model*.

If it exists, Connect-It updates the record.

<sup>3</sup> Connect-It creates or updates the record in the **Software installations or utilizations** (amSoftInstall) table which is automatically associated with the portfolio item.

## Automatic mechanisms triggered by the import

Automatic mechanism triggered when a new record is created in the **Inventoried models** (amInventModel) table

When Connect-It adds a record to the **Inventoried models** table, the *Model normalization: 'amInventModel' added* (sysSam\_ExtModelNew) workflow scheme is automatically launched.

This workflow creates a task assigned to the *Normalize models* (sysSam\_ModelNorm) group.

This workflow task asks you to manually map the **Inventoried models** record to a **Model** (amModel) record.

To perform the workflow task:

- 1 Connect to the AssetCenter database using the supervisor login or a *Model normalization* (sysSam\_ModelNorm) group member login:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.
- 2 Display current tasks (**Portfolio management/ My workflow tasks** link on the navigation bar).
- 3 Select the task.
- 4 Click the **Wizard** button.

AssetCenter launches the *Reconcile external software license models* (sysSamReconcExtModelWiz) wizard.

- 5 Populate the **Definitive model** link.
- 6 Click **OK**.

AssetCenter associates the record in the **Inventoried models** table with the record in the **Models** table.

This automatically triggers the *Normalize models: 'amInventModel' resolved* (sysSamExtModelEnd) workflow scheme.

This workflow scheme triggers the *Propagate reconciliation of external model* (SYS\_RES\_MOD\_ACT01) action.

This action:

- a Searches all the portfolio items linked to the record in the **Inventoried models** table that was resolved.
- b Links every portfolio item that was found to the record in the **Models** table associated with the record in the **Inventoried models** table.

Automatic mechanism triggered when an existing record of the **Inventoried models** table is linked to a software installation for the first time

The *Model normalization: 'amPortfolio' modified* (sysSamExtModelSync) workflow is automatically launched in the following cases:

- When Connect-It creates a software installation associated with an existing record in the **Inventoried models** table that is not yet associated with a record in the **Models** (amModel) table.
- When Connect-It associates an existing software installation with an already existing record in the **Inventoried models** table that is not yet associated with a record in the **Models** (amModel) table.

This workflow scheme triggers the *Propagate reconciliation of external model* (SYS\_RES\_MOD\_ACT01) action.

This action:

- 1 Creates a new record in the **Models** table using the following fields from the **Inventoried models** table:
  - Brand (BrandName)
  - Model (ModelName)
  - Parent model (ModelParent)

This model is linked to the nature as the parent model.

2 Links the software installation to a record in the **Models** table that was associated to the record in the **Inventoried Models** table.

#### Flagging software missing from the last computer inventory

This section explains how AssetCenter automates the flagging of software installations/utilizations missing from the last computer inventory.

This task is performed by the workflow *Detection of software missing from last scan* (BST\_SAM20).

This workflow scheme is part of the line-of-business data of the *Software assets* module.

Events that trigger the workflow	Modification of the <b>Computers</b> (amComputer) table, <b>Last software scan</b> (dtSoftScan) field.
Execution conditions of the workflow scheme	No conditions
Is AssetCenter Server required to trigger and run the workflow scheme?	No
Simplified description of the workflow scheme	The workflow scheme triggers the <i>Missing</i> software assignment (BstSamMissingSoftware) action.
	This action looks at each software installa- tion/utilization associated with the computer.
	If the <b>Inventory date</b> (dtInvent) field of an installation/utilization is older than the <b>Last</b> <b>software scan</b> (dtSoftScan) of the computer, then the action updates the <b>Assignment</b> (seAssignment) field of the installation/utiliza- tion by setting it to <i>Missing</i> .

#### Table 7.1. Inventory import - Detection of software missing from last scan workflow scheme

# Creating installations/utilizations manually

# 🐓 Warning:

Creating installations/utilizations manually can prove to be tedious and unreliable:

- Tedious, because of the large numbers involved.
- Unreliable, because you rarely have control over what is installed.

An software installation or utilization is a portfolio item (**>** *Portfolio* guide, chapter *Portfolio items*). Just like for any other portfolio item, you can choose an individual, collective or undifferentiated management for this item.

#### Creating a software installation/utilization nature

- 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
- $2 \quad Add \ a \ new \ record \ (\textbf{New} \ button).$
- 3 Populate in particular the following fields and links:

Field	Value
Create (seBasis)	Portfolio item
Also create (seOverflowTbl)	Software installations or utilizations (amSoftInstall)

For more information about natures, refer to the *Portfolio* guide, chapter *Portfolio items*, section *Natures*.

#### Creating software installation/utilization model

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- $2 \quad Add \ a \ new \ record \ (\textbf{New} \ button).$
- 3 Populate in particular the following fields and links:

Field or link	Comment on the value	
General tab		
Nature (Nature)	Nature whose <b>Also create</b> field (seOverflowTbl)	
	is set to <i>Software installations or utilizations</i> (amSoftInstall).	
Software inst. tab		
Useful fields and links	The values of the fields in the tab will be inher- ited by all the software installations/utilizations created referencing this model.	

#### Manually creating a software installation/utilization

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Add a new record (**New** button).
- 3 Populate in particular the following fields and links:

Field or link	Comment on the value
Model (Model) A model linked to a nature whose Also	
	field (seOverflowTbl) is set to Software installa-
	tions or utilizations (amSoftInstall).
<b>Software inst.</b> tab	

Field or link	Comment on the value
No of points (lUseCount)	For certain licenses, the software installation/util- ization corresponds to the consumption of a cer- tain number of points. Example: A Microsoft Se- lect license indicates that installing Microsoft Word corresponds to the consumption of 3 points. Thus, 100 of these such installations corresponds to 300 points.
	The number of points to be counted for each in- stallation is specified in the <b>No of points</b> field (lUseCount).
	When you use software installation counters ( Practical case 1d: Take into account effective software usage [page 134]), you can specify if the installation count should also count the number of points related to each installation/utilization.
Last use (dtLastUse)	The <b>Utilization</b> tab in the software installa- tion/utilization detail gives information on how the software is used.
	Among the fields in this tab, the <b>Last use</b> field (dtLastUse) may be used by software counters (> Practical case 1b: Limit the scope of the counter to a given department [page 129]): At the level of the counter, you specify whether the installa- tion/utilization count takes the last use date into account.

Each time a record corresponding to a software installation/utilization is created in the portfolio item's table, a corresponding record is automatically created in the software installations table. This table is an overflow table ( $\triangleright$  *Portfolio* guide, chapter *Overview*, section *Overflow tables*.

Click the **Portfolio management/ IT/ Software installations** link on the navigation bar to access the software installations table.

In the list of portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar), a **Software inst.** tab is present for records that correspond to a software installation/utilization. This tab reproduces the detail of the record from the software installations table that corresponds to this item.

The detail of each software-installation record regroups the information entered in the **Software inst.** tab of the model upon which the installation is based.

# Sending an automatic message when a unauthorized installation occurs

This section explains how to send an automatic notification when a user makes an unauthorized installation/ utilization.

This task is performed by the  $Installation\ not\ authorized\ (BST_SAM03)\ workflow\ scheme.$ 

#### Main features of the Installation not authorized workflow scheme

This workflow scheme is part of the line-of-business data of the  $Software \ assets$  module.

 Table 7.2. License control - Installation not authorized workflow scheme

Events that trigger the workflow	Creation of a new installation/utilization
Execution conditions of the workflow scheme	PortfolioItem.Model.seAuthorization = 2
Is AssetCenter Server required to trigger and	No
run the workflow scheme?	
Simplified description of the workflow scheme	A message is sent to the person designated by the <i>Mail to administrator concerning unauthor-</i> <i>ized installation</i> (BstSamUnauthinstalla- tion_found) action.
	By default, this person corresponds to the re- cord in the <b>Departments and employees</b> (amEmplDept) table for which the <b>Name</b> (Name) field is set to <i>Admin</i> .
	The message is sent to the address given in the <b>EMail</b> (EMail) field.

#### Defining which installations/utilizations are not authorized

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Display the model to not authorize.
- 3 Modify the following fields and links:

Field or link	Value	
Software inst. tab		

Field or link	Value
Authorization (seAuthorization)	Non authorized

#### Selecting another recipient, changing the subject or body of the warning message

- 1 Display the actions (Administration/ Actions link on the navigation bar).
- 2 Display the action *Mail to administrator concerning unauthorized installation* (BstSamUnauthinstallation\_found).
- 3 Modify the following fields and links:

eld or link	
lessaging tab	
o (MsgTo)	
ubject (Subject)	
lessage (memMsgText)	

#### Defining the recipient address for the notification message

- 1 Display the departments and employees (**Organization/ Employees** link on the navigation bar).
- 2 Display the recipient of the action *Mail to administrator concerning unauthorized installation* (BstSamUnauthinstallation\_found).
- 3 Modify the **EMail** (EMail) field.

# Retiring an installation/utilization

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 2 In the Manage software page, select the Create/Modify software licenses and installations option.
- 3 Click Next.
- 4 In the Software licenses and installations page, click the Remove licenses or installations from the portfolio button.
- 5 This starts the *Retire portfolio items* (AstRetire) wizard. Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons).

- 6 Validate all parameters (Finish button The wizard creates the request.
- 7 Exit the wizard (**OK** button).

# Reconcile unknown installations

This task consists of associating inventoried models with a definitive model if this is not already the case.

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> In the Manage software page, select the Create/Modify software licenses and installations option.
- 3 Click Next.
- 4 In the Licenses and software installations page, click the Reconcile unknown installations button.
- 5 This starts the *Reconcile unknown installations with known software installations* (sysSamNormalizeModels) wizard.

Populate the wizard according to your needs.

6 Validate all parameters (Finish button

The wizard associates the records in the **Inventoried models** table with the record in the **Models** table:

This automatically triggers the *Normalize models: 'amInventModel' resolved* (sysSamExtModelEnd) workflow scheme.

This workflow scheme triggers the *Propagate reconciliation of external model* (SYS\_RES\_MOD\_ACT01) action.

This action:

- a Searches all the portfolio items linked to the record in the **Inventoried models** table that was resolved.
- b Links every portfolio item that was found to the record in the **Models** table associated with the record in the **Inventoried models** table.
- 7 Exit the wizard (**OK** button).

# Flagging installations as OEM installations

The purpose of this action is to flag installations that you may use without having to acquire a specific license.

Such installations are called "OEM" installations because the license is granted directly by the software provider to the vendor of the hardware you bought.

This is case, for example, when you purchase a computer: Computers often ship with pre-installed software that you may legally use without having to acquire a specific license separately.

Flagging consists of setting the **Installation type** (seType) field to *OEM installation* for OEM installations.

This enables you to exclude OEM installations from calculations made by the counters.

# 🐓 Warning:

In order for OEM installations to be excluded from installation counts, you must modify the query associated with the **Scope of the installations or utilizations to be counted** (SoftInstQuery) link of the counter as appropriate.

For example, if the query that does not exclude OEM installations is:

Model.ModelRef = 'PC1 - PowerPoint - Installation'

change it to:

```
(Model.ModelRef = 'PC1 - PowerPoint - Installation') AND (SoftInstall.seTy pe <> 2)
```

To flag an OEM installation:

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 2 Make sure that the current contract is the OEM contract to which you want to link the software installations.
- <sup>3</sup> In the Manage software page, select the Create/Modify software licenses and installations option.
- 4 Click Next.
- 5 In the Licenses and software installations page, click the Flag OEM installations button.
- 6 This starts the Flag OEM installations (sysSamFlagOEMInst) wizard.

Populate the wizard according to your needs.

7 Validate all parameters (**Finish** button).

The wizard sets the **Installation type** (seType) field to *OEM installation* for the selected installations.

8 Exit the wizard (**OK** button).

# Adding a user to the current ASP contract

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> In the **Manage software** page, check that the wizard is associated to the ASP contract as the current contract and select the **Create/Modify software licenses and installations** option.
- 3 Click Next.
- 4 In the Licenses and software installations page, click the Add an ASP user button.
- 5 This starts the Add an ASP user wizard (sysSamAddAspUsers2Cntr).
- 6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons).
- 7 Validate what you entered (Finish button.)

This links the selected users to the current ASP contract (**Employees** tab of the contract detail).

8 Exit the wizard (**OK** button).

▶ Contracts guide, part II Utilization, chapter Day-to-day management of ASP contracts, section Managing user accounts / Processes / Creating a user account.

## Removing a user from the current ASP contract

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> In the **Manage software** page, check that the wizard is associated to the ASP contract as the current contract and select the **Create/Modify software licenses and installations** option.

- 3 Click Next.
- 4 In the Licenses and software installations page, click the Remove an ASP user button.
- 5 This starts the Remove an ASP user wizard (sysSamDelAspUsersFromCntr).
- 6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons).
- 7 Validate what you entered (Finish button.)

This removes the selected users from the current ASP contract (**Employees** tab of the contract detail).

8 Exit the wizard (**OK** button).

▶ Contracts guide, part II Utilization, chapter Day-to-day management of ASP contracts, section Managing user accounts / Processes / Deleting a user account.

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# 8 Monitoring license compliance of installations

## Overview

## Objectives of software control

Software control aims to check compliance:

- With software providers
- With your internal policies

#### Using software counters

Software control is achieved using the software counters.

Software counters are used to reconcile a license rights and entitlements count with an installations/utilizations count.

Effective software utilization can be taken into account.

These counts can be grouped by records of a table of your choice (by employee or cost center, for instance).

## Manage software compliance on a global scale

AssetCenter lets you manage counters on a global scale.

To include a counter in corporate software management, the **ls part of** corporate software management (bFamily) option must be enabled.

A given software license model and a given software installation/utilization model can only be counted in one global compliance management counter at a time.

Doing so ensures that rights, entitlements, installations and utilizations are counted only once by the global compliance management counters.

Counters whose **Is part of corporate software management** (bFamily) option is cleared can reference license and installation/utilization models that are already included in other counters.

## Using wizards to create and modify counters

A counter can be created and modified with or without a wizard

To modify a counter using a wizard, it must be created using a wizard and only modified using a wizard.

Counters that are maintained by wizards have their **Edit the counter using the wizards** (bAutomated) option enabled.

A corporate software management counter must be created and modified by wizards.

Wizards simplify counter creation and modification.

## Link between counters, licenses and installations/utilizations

The definition of counters is extremely flexible.

You can adapt them to:

- the way in which you describe licenses and installations/utilizations (there
  are numerous different ways of doing this)
- the way in which you want to analyze the data (by employee, by site, etc.)

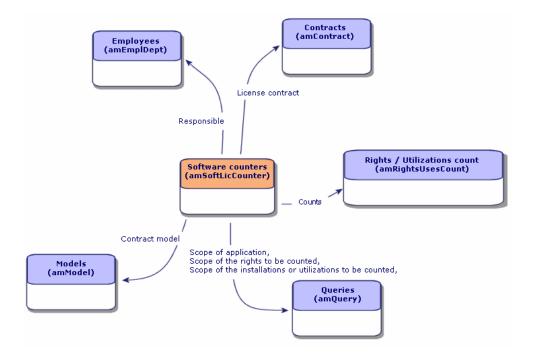
## 💡 Tip:

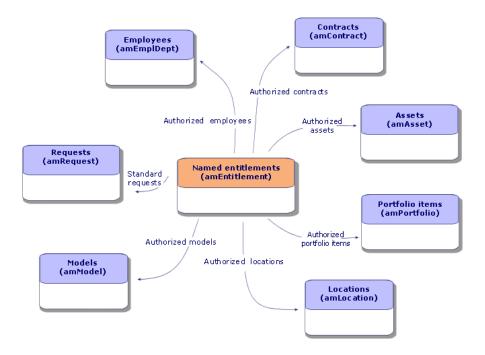
You can use the counters for other purposes than for software rights and installations/utilizations.

These guidelines for constructing counters do not cover all the different possibilities.

## Main tables linked to counters

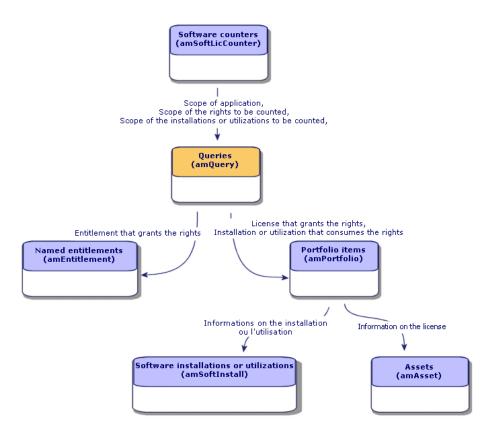






## Figure 8.2. Tables involved in named entitlements

Figure 8.3. Link between counters, entitlements and portfolio items



You will notice that there is no direct link between the counters and the objects that are counted. Queries are used to establish this link.

This method greatly increases the flexibility of counters. However, it requires appropriate queries to be designed.

## Creating software counters

Method 1: Create a counter using the *Create a software license management counter*... (sysSamCreateSoftwareCounter) wizard

Prerequisites

The *Create a software license management counter*... wizard requires counter templates to function.

## ! Warning:

The first page of the *Create a software license management counter*... wizard (*Select how software installations/utilizations are to be counted* page) lets you choose a value from a list.

Depending on the selected value:

- The wizard filters the counters on the next page (*Select a counter template* page) depending on the value of the counter's **Code** (Code) field.
- The wizard filters the license models listed on the *Select software licenses based on software application type* page depending on the value of the license model's **License type** (seSoftLicType) field.

The following is the correspondence between the values to select in the wizard and the values of the counter's **Code** field:

The wizard keeps the counter models whose
Code field starts with
BST_SAM
BST_SAM_PIU
BST_SAM_PNW
BST_SAM_UACC
BST_SAM_PCA
BST_SAM_PLP
BST_SAM_PCP
BST_SAM_PWH
BST_SAM_PSS
BST_SAM_POE
BST_SAM_PRO

## 😯 Tip:

Several counter templates are included in the line-of-business data in the datakit specific to the *Software assets* module.

(> Import the line-of-business into your existing database [page 30]).

To start the Create a software license management counter... wizard

1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).

- <sup>2</sup> In the Manage software page, select the Reconcile software licenses option.
- 3 Click Next.
- 4 In the Manage contracts page, click the Create software reconciliation counters button.
- 5 This starts the *Create a software license management counter...* wizard. Populate the wizard according to your needs.

 $Validate \ the \ parameters \ of \ the \ counter \ (Finish \ button).$ 

# Method 2: Create a simple counter using the *Create a simple counter* wizard (sysSamSimpleSoftCounterCreate)

This section explains how to create a counter that compares licenses and installations linked to a given model.

Licenses and installations are grouped by employees and departments.

To create a simple counter:

- 1 Starts the *Create a simple counter*... wizard. (Portfolio management/ IT/ Licenses/ Create a simple counter... link on the navigation bar).
- 2 Populate the wizard according to your needs.
- 3 Validate your parameters (Finish button).
- 4 Exit the wizard (**OK** button).

## 🍯 Important:

The wizard prompts you to select a license model and an installation model.

However, these models themselves will not be used as the references for counting licenses and installations: The value of the **Technical ref.** field (ModelRef) is used for this.

All models whose **Technical ref.** field have the same values are used.

You must therefore make sure that this field is populated at the level of the license model and the installation model that you select.

Example of a license selection query generated by the wizard:

Model.ModelRef = 'PC1 - PowerPoint - Installation'

with the **Portfolio items** table (amPortfolio) used as the context.

Counters created using the *Create a simple counter*... wizard are excluded from compliance management and cannot be modified using the wizards.

## Method 3: Creating a counter directly

To create a counter directly:

- 1 Display the counters (**Portfolio management/ Software counters** link on the navigation bar).
- 2 Click New.
- 3 Populate the top half of the detail, and in particular the following fields and links:
  - **Group By** (Context): Select the *Employees and departments* (amEmplDept) table, for example, if you want the **Results** tab to display a count line per employee.
  - Scope of application (Definition): Create and select a query if you only want to take into account certain records in the table indicated in the Group by field.
- 4 Check the **Rights count** (bCountLic) box if necessary, and populate the **Rights** tab, with special attention to the following fields and links:
  - **Rights counter context** (LicContext): Select the *Assets (amAsset)* table, for example, if you want to account for license rights.
  - Scope of the rights to be counted (LicQuery): Create and select a query to identify the records whose rights you want to count.
  - Rights -> Group By link (EntGroupBy): Specify the link from the table specified in the Rights counter context field to the table specified in the Group by field. For example, from the Assets (amAsset) table to the Employees and departments (amEmplDept) table, the link can be PortfolioItem.User.
  - Populate also the lower part of the tab, which describes the calculation required to obtain the rights count.
- 5 Check the **Installations/Utilizations count** (bCountInst) box if necessary, and populate the **Installations/Utilizations** tab, with special attention to the following fields and links:
  - Installation/Utilization counter context (InstContext): Select, for example, the *Software installations or utilizations (amSoftInstall)* table if you want to account for software installations.
  - Scope of the installations or utilizations to be counted (SoftInstQuery): Create and select a query to identify the records whose installations/utilizations you wish to count.
  - Installations/Utilizations -> Group By link (InstGroupBy): Specify the link from the table specified in the Installation/Utilization counter context field to the table specified in the Group by field. For example, from the Software installations or utilizations (amSoftInstall) table to

the *Employees and departments (amEmplDept)* table, the link can be *PortfolioItem.Parent.User*.

• **Use metering information** (bUseMetering): Select this option if you want the Last Use date of the installations/utilizations to be taken into account by the counter (**Last use** field (dtLastUse) in the installations/utilizations detail).

## 💋 Note:

The unused installations/utilizations are not removed from the installations/utilizations count in the following places:

- General tab of the counter, Installations/Utilizations count field (dSoftInstallCount)
- Results tab of the counter, No of installations/utilizations column

They are simply accounted for by the following fields:

- General tab of the counter, Unused installations field (dUnusedInstall)
- Results tab of the counter, Number of unused installations field
- Include usage information (bUseMetering):
- **Period of non use** (tsUnusedDuration): Select this option to take into account actual software utilization.
- **Definition of unused installations** (UnusedQuery): Create and select a query if you wish to restrict the list of records that may be considered as potentially no longer used.
- Populate also the lower part of the tab, which describes the calculation required to obtain the installations/utilizations count.
- 6 Check the Entitlements count (bCountEnt) box if necessary, and populate the Entitlements tab, with special attention to the following fields and links:
  - **Entitlements counter context** (EntContext): Select the *Employees and departments(amEmplDept)* table, for example, if you want to assign rights to employees and departments.
  - Scope of the entitlements to be counted (EntQuery): Create and select a query to identify the records whose rights you want to count.
  - Entitlements -> Group By link (EntGroupBy): Specify the link from the table specified in the Entitlements counter context field to the table specified in the Group by field. For example, from the *Employees*

and departments (amEmplDept) table to the Companies (amCompany) table the link could be CostCenter.Company.

- Populate also the lower part of the tab, which describes the calculation required to obtain the entitlements count.
- 7 Click Create.

#### Interesting reference fields

The information relating to licenses, entitlements and installations/utilizations is found in several places.

The following table suggests fields to be used in the counts:

#### Table 8.1. Counters - Useful fields for counts

Table	Field
Portfolio items (amPortfolio)	Quantity (fQty)
Software installations or utilizations (am-	Counts for (lUseCount)
SoftInstall)	
Assets (amAsset)	Rights (lSoftLicUseRights)

The following table suggests fields to be used to identify utilizations and installations:

#### Table 8.2. Counters - Useful fields for identifying installations/utilizations

Table	Field
Natures (amNature)	Also create (seOverflowTbl)
	Name (Name)
Software installations (amSoftInstall)	Authorization (seAuthorization)
	Installation type (seType)
	Local/Remote (bLocal)
	Is a software suite component (bSuiteCom-
	ponent)
Models (amModel)	Name (Name)
	System (SoftOS)
	Version level (VersionLevel)
	Technical ref. (ModelRef)

The following table suggests fields to be used to identify a license:

#### Table 8.3. Counters - Useful fields for identifying licenses

License (bSoftLicense) Name (Name)
· · · ·
Installation date (dInstall)
License type (seSoftLicType)
Single/Multiple (seSoftLicMulti)
Name (Name)
System (SoftOS)
Version level (VersionLevel)
Technical ref. (ModelRef)

The following table suggests fields to be used to define an entitlement:

#### Table 8.4. Counters - Useful fields for identifying entitlements

Table	Field
amEntitlement (Named entitlements)	Code (Code)
	Name (Name)
Entitlements of the employee (amRelEm- plEntitl)	Employee Id (lEmplDeptId)
	Entitlement ID (lEntitlId)
Contract entitlements (amRelEntitlContract)	Contract (lCntrId)
	Entitlement (lEntitlId)
Entitlements of the location (amRelEntitl- Loc)	Location (lLocaId)
	Entitlement (lEntitlId)
Entitlements of the portfolio item (amRe- lEntitlPortf)	Portfolio item (lPortfolioItemId)
	Entitlement ID (lEntitlId)
Entitlements (amRelModelEntitl)	Model ID (lModelId)
	Entitlement ID (lEntitlId)
<b>Employees and departments</b> (amEmplDept)	Bar code (BarCode)
	ID # (IDNo)
Contracts (amContract)	Reference (Ref)
Locations (amLocation)	Bar code (BarCode)
Portfolio items (amPortfolio)	Code (Code)

## Modifying software counters

## Counters modified by wizards

#### Prerequisites

A counter can be modified by a wizard only if it was created by the *Create a* software license management counter (sysSamCreateSoftwareCounter) wizard and if the **Edit the counter using the wizards** (bAutomated) option is enabled.

▶ Method 1: Create a counter using the Create a software license management counter... (sysSamCreateSoftwareCounter) wizard [page 78].

#### To modify a counter

- 1 Display the **Results of the software counters** page
  - Method 1: Using the *Manage software* wizard (sysSamLauncher)
    - a Start the *Manage software* (sysSamLauncher) wizard (**Portfolio** management/ IT/ Licenses/ Manage software... link on the navigation bar).
    - b On the Manage software page, select the Reconcile software licenses option.
    - c Click Next.
    - d On the Manage contracts page, click the Modify a counter button.
  - Method 2: Using the Windows client menus

Click the Software/ Results of the software counters menu.

- 2 Select the counter to be modified.
- 3 Use the following buttons:
  - **License**: Triggers the *Modify the list of license models to take into account* (sysSamAddLic2Counter) wizard
  - Installation: Triggers the *Modify the list of installation models to take into account* (sysSamAddInst2Counter) wizard
  - **Scope**: Triggers the *Define or redefine the counter's scope of application* (sysSamAddScope2Counter) wizard

## ጆ Note:

These buttons are displayed depending on the value of the following fields in the counter's detail:

- User-rights count (bCountLic)
- Installation/Utilization counter context (InstContext)
- Include usage information (bUseMetering):

#### Counters modified without an wizard

The following fields and links in a counter's detail can only be modified if the counter's **Edit the counter using the wizards** (bAutomated) option is not enabled.

- Scope of application link (definition)
- Fields and links on the **Rights** tab:
- Fields and links on the **Entitlements** tab:
- Fields and links on the **Installations/Utilizations** tab:

To modify a counter without using a wizard:

- 1 Display the counters (**Portfolio management/ Software counters** link on the navigation bar).
- 2 Select the counter to be modified.
- 3 Modify the counter.
- 4 Save the modifications (**Modify** button).

## Updating the results of a software counter

## To update the results of a counter

#### Counters modified by wizards

#### Prerequisites

A counter can be modified by a wizard only if it was created by the *Create a* software license management counter (sysSamCreateSoftwareCounter) wizard and if the **Edit the counter using the wizards** (bAutomated) option is enabled.

▶ Method 1: Create a counter using the Create a software license management counter... (sysSamCreateSoftwareCounter) wizard [page 78].

#### To modify a counter

- 1 Display the **Results of the software counters** page
  - Method 1: Using the *Manage software* wizard (sysSamLauncher)
    - a Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
    - b On the Manage software page, select the Reconcile software licenses option.
    - c Click Next.
    - d On the Manage contracts page, click the Modify a counter button.
  - Method 2: Using the Windows client menus

Click the Software/ Results of the software counters menu.

- 2 Select the counter to update.
- 3 Click Calculate.

## 💋 Note:

The **Calculate** button starts the action *Refresh the software counter* (sysCoreSoftLicCountCalc). This is seamless for the user.

- 4 The list at the top displays count totals for all counters.
- 5 The list at the bottom displays detailed results of the counter that is selected in the list at the top.

One line is given per record in the group by table (**Group by** (Context) field) within the limits of the scope defined for the counter (**Scope of the rights to be counted** (Definition) field).

#### All counter types

To modify a counter without using a wizard:

- 1 Display the counters (**Portfolio management/ Software counters** link on the navigation bar).
- 2 Select the counter to update.
- 3 Click Calculate.

## 💋 Note:

The **Calculate** button starts the action *Refresh the software counter* (sysCoreSoftLicCountCalc). This is seamless for the user.

4 Examine the results on the **General** and **Results** tabs.

## Periodical cleaning

Each time you click **Calculate**, you create a record in the **Rights / Utilizations count** table (amRightsUsesCount) for each line displayed in the **Results** tab.

The **Results** tab only shows the results of the last calculation made by clicking the **Calculate** button.

The previous results are not erased, however.

Using these results, you can track the evolution of licenses and installations/utilizations, and use them, for example, to create reports.

We recommend that you periodically delete the records in the **Rights / Utilizations count** table that you no longer require, if the table becomes too large.

## 😯 Tip:

The records that have been generated by the same calculation have the same values in the **Results identifier** (lResultId) and **Count date** (dtCountRequest) fields.

## Processing irregularities between installations/utilizations and licenses

This section explains how to achieve software license compliance:

- Ordering missing license rights
- Uninstalling the excess installation/utilizations

## Prerequisites

Only corporate software management counters can be used to solve irregularities between installations/utilizations and licenses

To include a counter in corporate software management, the **Is part of corporate software management** (bFamily) option must be enabled.

The Solve software compliancy issues (sysSamIdentifyIllegalInstall) wizard uses a work order model whose **Barcode** (BarCode) field equals SOFTUNINST.

Make sure this model is present in the database.

## Solve the irregularities

1 One of the following methods can be used:

- Method 1: Using the *Manage software* wizard (sysSamLauncher)
  - a Start the *Manage software* (sysSamLauncher) wizard (**Portfolio** management/ IT/ Licenses/ Manage software... link on the navigation bar).
  - b In the Manage software page, select the Reconcile software licenses option.
  - c Click Next.
  - d In the Manage contracts page, click the Fix irregularities button.
- Method 2: Using the Windows client menus
  - a Click the Software/ Results of the software counters menu.
  - b Select the counter to solve.
  - c Click Solve.
- $\label{eq:starts} \begin{array}{l} \mbox{2 } \\ \mbox{ SamIdentifyIllegalInstall} \\ \mbox{wizard.} \end{array}$

Select the counter to examine.

Click **Next** and then follow the instructions in the wizard.

If you are short of license rights, the wizard enables you to make a license request or to uninstall the software.

- 3 Validate the parameters (Finish button).
- 4 Exit the wizard (**OK** button).

## "Previous mode" software counters

## 🐓 Warning:

This section only applies to the Windows client.

In version 4.3.0 of AssetCenter, the counters have been fully overhauled. However, so that you can use the counters you have migrated from previous versions of AssetCenter as-is, "previous mode" counters are supported.

#### Accessing "previous mode" counters

- 1 Display the list of screens (Administration/ List of screens menu).
- 2 Click **Screen** on the list header.
- 3 Search for Software counters (previous format) (sysOldamSoftLicCounter).

4 Open this screen.

#### Information on "previous mode" counters

For information on the "previous mode", refer to the guide AssetCenter 4.2.0 - Portfolio, chapter Software, section Software counters.

#### **Converting "previous mode" counters**

When you migrate a database version earlier than 5.0, the counters are imported as-is.

You can carry on using them as they worked before.

If you wish to upgrade them, we recommend creating new counters using the old ones to guide you.

## Sending an automatic message in case of license overrun

This section explains how to send automatic notification when software license rights are overrun.

This task is automatically performed by the *No more licenses available* (BST\_SAM01) workflow scheme.

This workflow scheme is part of the line-of-business data of the *Software assets* module.

▶ Import the line-of-business into your existing database [page 30].

The following is a description of this workflow scheme:

#### Table 8.5. License control - No more licenses available workflow scheme

Events that trigger the	Creation of a new counter
workflow	Or modification of one of following fields in the <b>Software counters</b>
	(amSoftLicCounter) table:
	<ul> <li>No of rights (lLicUseRights)</li> </ul>
	■ No of install. (lSoftInstallCount)
	<ul> <li>Rights count (dLicUseRights)</li> </ul>
	<ul> <li>Installations/Utilizations count (dSoftInstallCount)</li> </ul>
Execution conditions of	(lSoftInstallCount > lLicUseRights) OR (dSoftInstallCount >
the workflow scheme	dLicUseRights)
Is AssetCenter Server re-	No
quired to trigger and run	
the workflow scheme?	

Simplified description of the workflow scheme	A message is sent to the person designated by the action <i>Mail to administrator concerning licenses overrun</i> (BstSamLicenses_exceeded).
	By default, this person corresponds to the record in the <b>Depart- ments and employees</b> (amEmplDept) table for which the <b>Name</b> (Name) field is set to <i>Admin</i> .
	The message is sent to the address specified in the <b>E-mail</b> (EMail) field of the designated employee.

To select another recipient, modify the body or subject of the warning message:

- 1 Display the actions (**Administration/ Actions** link on the navigation bar).
- 2 Display the action *Mail to administrator concerning licenses overrun* (BstSamLicenses\_exceeded).
- 3 Modify the following fields and links:

Field or link	Fie	d	or	lin	k
---------------	-----	---	----	-----	---

Messaging tab	
To (MsgTo)	
Subject (Subject)	
Message (memMsgText)	

To define the recipient address for the notification message:

- 1 Display the departments and employees (**Organization/ Employees** link on the navigation bar).
- 2 Display the recipient of the action *Mail to administrator concerning licenses* overrun (BstSamLicenses\_exceeded).
- 3 Modify the **EMail** (EMail) field.

## Automate periodical calculation of the software counters

This section explains how to automatically recalculate all the counters on a regular basis.

This task is performed by the *Periodic verification of licenses* (BST\_SAM02) workflow.

#### Main features of the Periodic verification of licenses workflow scheme

This workflow scheme is part of the line-of-business data of the *Software assets* module.

▶ Import the line-of-business into your existing database [page 30].

#### Table 8.6. License control - Periodic verification of licenses workflow scheme

Triggering of the workflow scheme	According to the frequency defined by the cal- endar of the initial event in the workflow scheme
Is AssetCenter Server required to trigger and	Yes
run the workflow scheme?	
Simplified description of the workflow scheme	The workflow scheme executes the action
	Calculate all software installations (BstSam-
	ComputeAllLicAndInstall), which recalculates
	all counters.

#### Configuring AssetCenter Server

AssetCenter Server tests whether the *Periodic verification of licenses* workflow should be triggered using the information given in the calendar of the initial event of the *Periodic verification of licenses* workflow scheme.

To make sure AssetCenter Server performs this task:

- 1 Start AssetCenter Server.
- 2 Connect to the AssetCenter database (File/ Connect to database menu).
- 3 Display the modules (Tools/ Configure modules menu).
- 4 Select the *Execute workflow rules for execution group 'SYS\_SAM'* (WkGroupSYS\_SAM) module.
- 5 Define the triggering calendar for the module (**Verification schedules** frame).

## Executing AssetCenter Server as background task

AssetCenter Server must be executed as a background task in order for the *Execute workflow rules for execution group 'SYS\_SAM'* module to be executed periodically.

#### Consequences of recalculating counters

When recalculating counters, the following fields in particular are updated:

Field
No of rights (lLicUseRights)
No of install. (lSoftInstallCount)
Rights count (dLicUseRights)
Installations/Utilizations count (dSoftInstallCount)

#### Field Entitlements count (dEntCount)

When one of these fields is modified, the *No more licenses available* (BST\_SAM01) is triggered (**>** Sending an automatic message in case of license overrun [page 90]).

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# 9 Viewing reports and charts

## Display the software dashboard

## Displaying the dashboard

#### Method 1: Using the Manage software wizard (sysSamLauncher)

- a Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- b On the **Manage software** page, select the **View reports and charts** option.
- c Click Next.
- d In the **Create reports and charts** page, click the **General dashboard** button.

#### Method: Using the links on the navigation bar

Click the **Portfolio management/ IT/ Licenses/ Software dashboard** link on the navigation bar.

#### Customizing the dashboard

To modify the list of reports that make up the dashboard:

- 1 Display the actions (**Administration/ Actions** link on the navigation bar).
- 2 Select the action Software dashboard (BstSamDashBoard).
- 3 Select the **Indicators** tab.
- 4 Modify the list of statistics and reports in the dashboard.
- 5 Save the modifications (**Modify** button).

## Displaying a report on software

## Method 1: Using the Manage software wizard (sysSamLauncher)

- 1 Start the *Manage software* wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 2 On the Manage software page, select the View reports and charts option.
- 3 Click Next.
- 4 In the **Create reports and charts** page, click the button corresponding to the report of your choice.

## Method 2: Using the menus

## ጆ Note:

This operation can only be done using the Windows client.

- 1 Display the reports (**Administration / Reporting/ Reports** link on the navigation bar).
- 2 If the **Domain** column is not displayed in the list:
  - a Right click within the list.
  - b Select Utilities/ Configure list from the shortcut menu.
  - c Add the **Domain** (Domain) link to the columns in the list.
  - d Click **OK**.
- 3 Sort the list on the **Domain** column.
- 4 Reports that are part of the *Software assets* module can be identified by the paths /*Portfolio management*/*IT*/*Licenses*/ or /*Portfolio management*/*IT*/*Reports*/.

## 10 Practical cases

## General information and prerequisites

#### **General information**

The practical cases demonstrate how to manage software assets with AssetCenter.

Each practical case concentrates on a particular aspect of software control.

To ensure that the practical cases work correctly, make sure you carry out each step in full and follow the order shown. Only essential fields and links are mentioned. You may have a look at the other fields and links by yourself.

#### **Prerequisites**

To execute the practical cases, you must first:

- 1 Connect to the AssetCenter demonstration database using the *Admin* login (the corresponding password is empty).
- 2 If you are using the Windows client: Enable, at minimum, the *Portfolio*, *Software assets*, *Procurement*, *Financials*, *Contracts* and *Administration* modules using the **File/ Activate modules** menu.
- 3 Import line-of-business data from the *Software assets* module.
  - ▶ Import the line-of-business into your existing database [page 30].

## Practical case 1: Create required items

#### Presentation

This practical case explains how to create the items to be used in the practical cases that will follow.

## Create the natures

- 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	PC1 - Computer
General tab	
Create (seBasis)	Portfolio item
Also create (seOverflowTbl)	Computers (amComputer)
Management constraint (seMgtConstraint)	Unique asset tag
Has software installed (bHasSoftInstall)	Yes

Field or link	Value
Name (Name)	PC1 - License
General tab	
Create (seBasis)	Portfolio item
Also create (seOverflowTbl)	(No table)
Management constraint (seMgtConstraint)	Unique asset tag
License (bSoftLicense)	Yes

Field or link	Value
Name (Name)	PC1 - Installation
General tab	
Create (seBasis)	Portfolio item
Also create (seOverflowTbl)	Software installations or utilizations (amSoftIn-
	stall)

## Practical case 4: creating a contract license

#### Prerequisites

This practical case can only be carried out after practical case 1 has been carried out in full.

#### Presentation

This practical case explains how to create and modify a license contract.

#### Scenario

Mr. PC4 - Seagul is the MIS at his company's head office.

Mr. *PC4 - Seagul* acquires a license, *PC4 - PowerPoint*, off the global license agreement. He records this license in the AssetCenter database.

At a later stage, Mr. *PC4* - *Seagul* signs a global license agreement, *PC4* - *Microsoft license contract* with the company *PC4* - *Microsoft*.

He creates the contract PC4 - Microsoft license contract in the database, then updates it. He also sets up an alarm for the end of term date in order to terminate the contract within the notice period.

Mr. *PC4* - *Seagul* reincorporates the license *PC4* - *PowerPoint* in the contract *PC4* - *Microsoft license contract*, which is intended to a blanket contract.

Since the contract *PC4-001* is linked to a maintenance contract, Mr. *PC4 - Seagul* creates the maintenance contract in the AssetCenter database and links it to the contract *PC4 - Microsoft license contract*.

#### Main stages of the practical case

- 1 Creating the contract supervisor [page 100]
- 2 Creating the location of the company [page 101]
- 3 Creating a file represnting the scan of the paper document signed with the supplier [page 101]
- 4 Connecting to the database as PC4 Seagul [page 101]
- 5 Creating the reseller for the PC4 PowerPoint license [page 102]
- 6 Create the model for the PC4 PowerPoint license [page 103]
- 7 Creating the asset corresponding to the PC4 PowerPoint license [page 104]

- 8 Creating the contract [page 102]
- 9 Modifying the contract PC4-001 [page 105]
- 10 Examining the contract created and modified by the wizard [page 106]
- 11 Creating the action associated to the alarm on the end of contract date [page 106]
- 12 Associating an alarm with the end date [page 107]
- 13 Triggering the Verify alarms (Alarms) module in AssetCenter Server [page 107]
- 14 Reconnecting to the database as PC4 Seagul [page 108]
- 15 Creating the invoice associated to the PC4 PowerPoint license [page 108]
- 16 Add a line to the invoice corresponding to the license PC4 PowerPoint [page 108]
- 17 Linking the invoice line of the license PC4 PowerPoint License to the contract PC4-001 [page 109]
- 18 Associating a maintenance contract with the contract PC4-001 [page 110]
- 19 Modifying the maintenance contract [page 111]

#### Steps to carry out

#### Creating the contract supervisor

- 1 Display the employees (**Organization/ Employees** link on the navigation bar).
- <sup>2</sup> Create the following record (**New** button), by populating the fields and links as shown in the following table:

Field or link	Value
Name (Name)	PC4 - Seagul
General tab	
EMail (EMail)	AM:seagul
Profile tab	
Access type (seLoginClass)	Floating
Status of the user account (seLoginStatus)	Active
Login (UserLogin)	seagul
Password (LoginPassword)	Leave empty.
Administration rights (bAdminRight)	Yes

3 Windows client: Close all windows.

#### Creating the location of the company

- 1 Display the locations (**Organization/ Locations** link on the navigation bar).
- <sup>2</sup> Create the following record (**New** button), by populating the fields and links as shown in the following table:

Field or link	Value
Name (Name)	PC4 - Headquarters
City (City)	PC4 - Paris
	Note:
	If the message Would you like to add the value 'XXX' to itemized list 'YYY'? is displayed, click <b>Yes</b> .

3 Windows client: Close all windows.

Creating a file represnting the scan of the paper document signed with the supplier

- 1 Start a text editor.
- 2 Enter the text:

This document represents the scanned paper document signed with the sup plier.

- 3 Save this file as C:\Temp\Contract.txt.
- 4 Exit the text editor.

Connecting to the database as PC4 - Seagul

- 1 Connect to the database as *PC4 Seagul*:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	seagul
Password	Leave empty.

Field	Value
Use integrated NT security	No

#### Creating the reseller for the PC4 - PowerPoint license

- 1 Display the companies (**Portfolio management/ Companies** link on the navigation bar).
- 2 Create the following record, by populating the fields and links as shown in the following table:

Field or link	Value
Name (Name)	PC4 - Microsoft

3 Windows client: Close all windows.

#### Creating the contract

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> In the Manage software page, select the Create/Modify software contracts option.
- 3 Click **Next**.
- 4 On the Manage contracts page, click the Create a completed contract button.

This triggers the *Create a software contract (Draft)* (sysSamCreateSoftContract) wizard.

5 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Enter a software contract page	
From scratch	Yes
Contract type page	
Select the type of contract to create	Microsoft
Microsoft contract page	
Contract number	PC4-MSNUM001
Who is the reseller for this software con-	
tract page	
Name	PC4 - Microsoft
New supplier	No
Define vendor details page	

Field or link	Record
New contact	Yes
Wizard page	
Family name	PC4 - Kramer
Title	PC4 - Sales engineer
Define reseller location page	
New location	Yes
Wizard page	
Location name	PC4 - French Subsidiary
City	PC4 - Paris
General contract information page	
Internal contract reference (Ref)	PC4-001
Object	PC4 - Microsoft license contract
Reseller reference	PC4-MSREF001
Start	January 1st, 2005
End	December 31, 2005
Notice	60 days
Financial information page	
Nature of payments	None
Define internal contacts page	
Supervisor	PC4 - Seagul
Notification address	/PC4 - Headquarters/
Key contractual terms and conditions page	Do not enter anything
Contract documentation and notes page	Do not enter anything
Summary page	
Choose the step you wish to perform after creating the contract	None

6 Validate all the parameters defined with the wizard (**Finish** button).

The wizard creates the contract, the location of the supplier and the supplier contact.

- 7 Exit the wizard (**OK** button).
- 8 Exit the wizard (Finish button).

Create the model for the PC4 - PowerPoint license

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Create the following record, by populating the fields and links as shown in the following table:

Field or link	Value
Name (Name)	PC4 - PowerPoint - License

Field or link	Value
Nature (Nature)	PC1 - License

3 Windows client: Close all windows.

#### Creating the asset corresponding to the PC4 - PowerPoint license

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- 2 In the Manage software page, click on the Select a contract to work on button.
- 3 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Select your current software contract $pag$	e
Contracts list	Select the PC4-001 (PC4 - Microsoft license con-
	tract) Microsoft standard Pc4 - Seagul, Pc4 -
	Seagul contract.

- 4 Validate all the parameters defined with the wizard (**OK** button).
- 5 In the Manage software page, select the Create/Modify software licenses and installations option.
- 6 Click **Next**.
- 7 In the Licenses and software installations page, click the Create a software license button.

This triggers the *Create a new software license*... (sysSamCreateLicpfi) wizard.

8 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Create a new software license page	
Select a license type (model) for this new	Select the PC4 - PowerPoint - License record
license from existing software application	
licenses list:	
Populate license information page	
Label (Asset tag)	PC4-001
Financial information page	
Contracts	PC4-001 (PC4 - Microsoft license contract)
Summary: page	

Field or link	Record
None	Yes

9 Validate all the parameters defined with the wizard (Finish button). The wizard creates the license and links it to the contract.

#### Modifying the contract PC4-001

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- 2 Make sure that the current contract is *PC4-001*. If this is not the case, select it (*Select a contract to work on* button).
- <sup>3</sup> In the Manage software page, select the Create/Modify software contracts option.
- 4 Click Next.
- 5 In the Manage contracts page, click the Modify an existing contract button.

This triggers the *Create a software contract (Draft)* (sysSamCreateSoftContract) wizard.

6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Modify a software contract page	
Which contract would you like to modify?	Modifying the current contract PC4-001
Select the part of the contract you wish to	
modify page	
Select the part of the contract you want to modify	Add documents to the contract
Contract documentation and notes page	
Unique name of the document	PC4 - Contract with ISP
Path of document to keep with the contract	C:\Temp\Contract.txt
Category of the above document	PC4 - Scanned contract
Status of the above document	Validated
Click Add a document	
Summary page	
Choose the step you wish to perform after creat-	None
ing the contract	

- 7 Validate all the parameters defined with the wizard (**Finish** button).
  - The wizard adds the document to the contract.
- 8 Exit the wizard (**OK** button).

9 Exit the wizard (Finish button).

Examining the contract created and modified by the wizard

- 1 Display the contracts (**Contracts / Contracts** link on the navigation bar).
- 2 Display the detail of the *PC4-001* contract (**Reference** (Ref) field).
- 3 Pay close attention to the following fields and links in particular:

Field or link	Value
Reference (Ref)	PC4-001
Type (seType)	The value <i>License</i> is automatically assigned by
	the wizard without having to select it.
Purpose (Purpose)	PC4 - Microsoft license contract
General tab	
Supervisor (Supervisor)	PC4 - Seagul
Nature (Nature)	Microsoft
Number (ContractNo)	PC4-MSREF001
Company (Company)	PC4 - Microsoft
Start (dStart)	January 1st, 2005
End (dEnd)	December 31, 2005
Notice (tsNotice)	2 months
Contacts tab	
Notification address (NotiffAddress)	/PC4 - Headquarters/
Contact (Contact)	PC4 - Kramer
Documents tab	You will find the document you linked with the
	wizard.
Licenses tab	You will find the license PC4 - PowerPoint Li-
	cense (PC4-001).

4 Windows client: Close all windows.

Creating the action associated to the alarm on the end of contract date

- 1 Display the actions (Administration/ Actions link on the navigation bar).
- 2 Create the following record (**New** button), by populating the fields and links as shown in the following table:

Field or link	Value
Name	PC4 - End of term alarm
Context	Contracts (amContract)
Туре	Messaging
Messaging tab	
То	AM:seagul
Subject	Approaching end of term

Field or link	Value
Message	The contract [Ref] expires on [dEnd].
	Notice period: [tsNotice]

3 Windows client: Close all windows.

Associating an alarm with the end date

- 1 Display the contracts (**Contracts / Contracts** link on the navigation bar).
- 2 Display the detail of the *PC4-001* contract (**Reference** (Ref) field).
- 3 Select the **General** tab.
- 4 Click the **Alarm** icon to the right of the **End** (dEnd) field.
- 5 Populate the fields and links shown in the following table:

Field or link	Value
Alarm on	Yes
Trigger	90
Action	PC4 - End of term alarm

- 6 Save the alarm (**OK** button).
- 7 Modify the contract (**Modify** button).
- 8 Windows client: Close all windows.

Triggering the Verify alarms (Alarms) module in AssetCenter Server

- Start AssetCenter Server (Start/ Programs/ HP OpenView/ AssetCenter 5.0 < language>/ AssetCenter Server menu in Windows).
- 2 Connect to the database as *Admin* (File/ Connect to database menu):

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	Admin
Password	Leave empty.
Use this connection in service mode	No

- 3 Display the actions to trigger (**Action/ Trigger** link).
- 4 Select the action Verify alarms.
- 5 Execute the selected action (**OK** button).
- 6 Exit AssetCenter Server (File/ Exit menu).

#### Reconnecting to the database as PC4 - Seagul

- 1 Enable the AssetCenter client.
- 2 Reconnect to the database as *PC4 Seagul*:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	seagul
Password	Leave empty.
Use integrated NT security	No

AssetCenter displays the following message *You have unread messages*. *Do you want to read them now*?.

3 Display the unread messages (**Yes** button).

This triggers the *Read messages* (sysCoreReadMsg) wizard.

4 Click Next.

The wizard displays the detail of the message informing you that a contract is approaching end of term.

- 5 Display the detail of the contract (**Referenced object** button).
- 6 Close the contract detail.
- 7 Exit the wizard (**Finish** button).

#### Creating the invoice associated to the PC4 - PowerPoint license

- 1 Display the invoices (**Procurement/ Supplier invoices** link on the navigation bar).
- 2 Create the following record, by populating the fields and links as shown in the following table:

Field or link	Value
Number (InvoiceNumber)	PC4-001
Supplier (Supplier)	PC4 - Microsoft
General tab	
Purpose (Purpose)	PC4 - PowerPoint - License
Invoice status (seStatus)	Paid

3 Leave the detail of the invoice displayed.

#### Add a line to the invoice corresponding to the license PC4 - PowerPoint

1 Make sure that the detail of the *PC4-001* invoice is displayed.

- 2 Select the **Composition** tab.
- <sup>3</sup> Add the following record (+ button), by populating the fields and links as shown in the following table:

Field or link	Value
Quantity (fQty)	1
Description (Description)	PC4 - PowerPoint - License

- 4 Add the line (**Add** button).
- 5 Modify the invoice (**Modify** button).
- 6 Windows client: Close all windows.

Linking the invoice line of the license PC4 - PowerPoint - License to the contract PC4-001

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 2 Make sure that the current contract is *PC4-001*. If this is not the case, select it (*Select a contract to work on* button).
- <sup>3</sup> In the Manage software page, select the Create/Modify software contracts option.
- 4 Click **Next**.
- 5 In the Manage software wizard page, click the Link invoice lines to the contract. button.

This starts the  $Link\ invoice\ lines\ to\ the\ contract\ (sysSamLinkInvoices2Cntr)\ wizard.$ 

6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Link invoice lines to the contract page PC4-001 (PC4 - Microsoft license contract)	
Filter on the contract supplier	Yes
Link invoice lines to the contract page	
Supplier invoices	Select the invoice PC4-001 PC4 - Microsoft
Link invoice lines to the contract page	
Invoice lines	Select the line PC4-001 1 PC4 - PowerPoint li- cense 1 0.00

7 Validate what you entered (Finish button.)

This links the invoice line to the contract.

- 8 Exit the wizard (**OK** button).
- 9 Exit the wizard (Finish button).
- 10 Display the contracts (Contracts/ Contracts link on the navigation bar).
- 11 Select PC1-004 (Reference (Ref) field).
- 12 Pay close attention to the following fields and links in particular:

Field or link	Value
Invoice lines tab	You will find the invoice line 1 PC4 - PowerPoint
	license 0,00 /PC4-001/.

13 Windows client: Close all windows.

#### Associating a maintenance contract with the contract PC4-001

- 1 Make sure that you are connected to the database as *PC3 Seagul*.
- 2 Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- 3 Make sure that the current contract is *PC4-001*.

If this is not the case, select it (Select a contract to work on button).

- 4 In the Manage software page, select the Create/Modify software contracts option.
- 5 Click **Next**.
- 6 In the Manage contracts page, click the Create a new maintenance contract button.

This starts the Create a contract wizard (BstCntrCreateContract).

7 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
You are going to define an maintenance contract linked to software contract PC4-001	
page	
Number	PC4-MAINT001
Object	Support and upgrades
Start	January 1, 2006
End	November 30, 2006
Linking assets to the maintenance contract	Yes
Link the assets to the contract $\operatorname{page}$	
Date included	January 1, 2006
Planned removal date	November 30, 2006
List of assets	Select the <i>PC4-001</i> record ( <b>Asset tag</b> field).

Field or link	Record
Create a contract page	
Supervisor	PC4 - Seagul
Notification address	/PC4 - Headquarters/
Create a contract page	Do not enter anything
Contract documentation and notes page	Do not enter anything
Summary page	
Display the contract detail	Yes

- 8 Validate all the parameters defined with the wizard (**Finish** button).
- 9 Exit the wizard (**OK** button).

The wizard creates and displays the maintenance contract.

10 Pay close attention to the following fields and links in particular:

Field or link	Value
Type (seType)	The value <i>Maintenance</i> is automatically assigned
	by the wizard without having to select it.
Purpose (Purpose)	Support and upgrades
General tab	
Attached to (Parent)	The contract is automatically linked to the cur-
	rent contract PC4-001 (PC4 - Microsoft license
	contract).
Supervisor (Supervisor)	PC4 - Seagul
Number (ContractNo)	PC4-MAINT001
Company (Company)	PC4 - Microsoft
Start (dStart)	January 1, 2006
End (dEnd)	November 30, 2006
Notice (tsNotice)	2 months
Contacts tab	
Notification address (NotiffAddress)	/PC4 - Headquarters/
Contact (Contact)	PC4 - Kramer
Assets tab	You will find PC4 - PowerPoint - License.

11 Windows client: Close all windows.

#### Modifying the maintenance contract

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 2 Make sure that the current contract is *PC4-001*.

If this is not the case, select it (Select a contract to work on button).

<sup>3</sup> In the Manage software page, select the Create/Modify software contracts option.

- 4 Click **Next**.
- <sup>5</sup> In the Manage contracts page, click the Modify a maintenance contract button.
- 6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Modify a maintenance contract page	
Contracts	Select the sub-contract of the <i>PC4-001</i> contract
Link the contract to an existing contract	No
Change your contract details $\operatorname{page}$	
End	December 31, 2006

- Validate all the parameters defined with the wizard (Finish button).The wizard creates the contract, the location of the supplier and the supplier contact.
- 8 Exit the wizard (**OK** button).
- 9 Exit the wizard (**Finish** button).
- 10 Windows client: Close all windows.

# Practical case 3: Managing the validation process of a license contract

## Presentation

This practical case leads you through the implementation of a full license contract validation procedure.

#### Scenario

Mr. *PC3 - Hawk*, MIS, wishes to establish a contract between his company and one its suppliers.

A contract of this sort must be validated from a budgetary standpoint by a group called *PC3* - *Budgetary validation*. This group is lead by *PC3* - *Azeman*, CFO, and includes Mr. *PC3* - *Delmar*, an accountant.

If the contract is validated from a budgetary standpoint, it must also be validated from a legal standpoint by a group called *PC3 - Legal validation*. This group is lead by Mr. *PC3 - Delaney*, legal counsel, and includes Mr. *PC3 - Bertini*, a lawyer.

Validation can be given either by the group leader or by one of its members.

### Main stages of the practical case

- 1 Creating the validators [page 113]
- 2 Create the contract (Mr. Pc3 Hawk) [page 115]
- 3 Creating the validation groups [page 116]
- 4 Customize the Contract validation (sysSam\_CNTR\_APPR) workflow scheme [page 117]
- 5 Request validation (Mr. Pc3 Hawk) [page 118]
- 6 Refusing budgetary validation for the contract (Mr. Pc3 Azeman) [page 119]
- 7 Modifying the contract and resubmitting it for validation (Mr. Pc3 Hawk) [page 120]
- 8 Validating the contract from a budgetary standpoint (Mr. Pc3 Delmar) [page 121]

# Steps to carry out

Creating the validators

- 1 Display the employees (**Organization/ Employees** link on the navigation bar).
- 2 Create the following records (**New** button), by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	PC3 - Azeman
Title (Title)	CFO
	Note:

If the message Would you like to add the value 'XXX' to itemized list 'YYY'? is displayed, click **Yes**.

General tab	
EMail (EMail)	AM:azeman
Profile tab	
Access type (seLoginClass)	Floating
Status of the user account (seLoginStatus)	Active
Login (UserLogin)	azeman
Password (LoginPassword)	Leave empty.
Administration rights (bAdminRight)	Yes

Field or link	Value
Name (Name)	Pc3 - Delmar

Field or link	Value
Title (Title)	Accountant
	Note:

If the message *Would you like to add the value 'XXX' to itemized list 'YYY'?* is displayed, click **Yes**.

General tab	
EMail (EMail)	AM:delmar
Profile tab	
Access type (seLoginClass)	Floating
Status of the user account (seLoginStatus)	Active
Login (UserLogin)	delmar
Password (LoginPassword)	Leave empty.
Administration rights (bAdminRight)	Yes

Field or link	Value
Name (Name)	Pc3 - Bertini
Title (Title)	Legal counsel
	Note:

If the message *Would you like to add the value 'XXX' to itemized list 'YYY'?* is displayed, click **Yes**.

General tab	
EMail (EMail)	AM:bertini
Profile tab	
Access type (seLoginClass)	Floating
Status of the user account (seLoginStatus)	Active
Login (UserLogin)	bertini
Password (LoginPassword)	Leave empty.
Administration rights (bAdminRight)	Yes

Field or link	Value
Name (Name)	Pc3 - Delaney
	Note:
	If the message Would you like to add the value 'XXX' to itemized list 'YYY'? is displayed, click <b>Yes</b> .
Title (Title)	Lawyer

Field or link	Value
General tab	
EMail (EMail)	AM:delaney
Profile tab	
Access type (seLoginClass)	Floating
Status of the user account (seLoginStatus)	Active
Login (UserLogin)	delaney
Password (LoginPassword)	Leave empty.
Administration rights (bAdminRight)	Yes

Field or link	Value
Name (Name)	Pc3 - Hawk
Title (Title)	CIO

Note:

If the message *Would you like to add the value 'XXX' to itemized list 'YYY'?* is displayed, click **Yes**.

General tab	
EMail (EMail)	AM:hawk
Profile tab	
Access type (seLoginClass)	Floating
Status of the user account (seLoginStatus)	Active
Login (UserLogin)	hawk
Password (LoginPassword)	Leave empty.
Administration rights (bAdminRight)	Yes

3 Windows client: Close the list of employees (**Close** button).

#### Create the contract (Mr. Pc3 - Hawk)

- 1 Connect to the database as *Pc3 Hawk* CIO:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	hawk
Password	Leave empty.

Field	Value
Use integrated NT security	No

- 2 Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>3</sup> In the Manage software page, select the Create/Modify software contracts option.
- 4 Click **Next**.
- 5 In the Manage contracts page, click the Create a new software contract (draft) button.

This triggers the *Create a software contract (Draft)* (sysSamCreateSoftContract) wizard.

6 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Create a software contract (Draft) page	
From scratch	Yes
Contract type page	
Other	Yes
Define contract addendum page	
Do not redefine the external contacts	Yes
General contract information page	
Internal contract reference (Ref)	PC3-001
Financial information page	
Payment amount	10000
Define internal contacts page	
Supervisor	PC3 - Hawk
Key contractual terms and conditions page	Do not enter anything
Contract documentation and notes page	Do not enter anything
Summary page	
None	Yes

7 Validate all the parameters defined with the wizard (**Finish** button).

- 8 Exit the wizard (**OK** button).
- 9 Exit the wizard (Finish button).

# Creating the validation groups

1 Display the groups (**Organization/ Employee groups** link).

<sup>2</sup> Create the following records (**New** button), by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	PC3 - Budgetary validation
Supervisor (Supervisor)	PC3 - Azeman
Bar code (code)	CNTRBUDGET-PC3
Create the new record (click Create) to proceed	
Composition tab	
Members (Members)	Add PC3 - Delmar.
Contracts tab	
Contracts (Contracts)	Add <i>Pc3 - 001</i> .
Field or link	Value
Name (Name)	PC3 - Legal validation
Supervisor (Supervisor)	PC3 - Delaney
Bar code (code)	CNTRLEGA-PC3
Create the new record (click <b>Create</b> ) to proceed	
Composition tab	
Members (Members)	Add PC3 - Bertini.
Contracts tab	
Contracts (Contracts)	Add Pc3 - 001.

3 Windows client: Close the list of groups (**Close** button).

Customize the Contract validation (sysSam\_CNTR\_APPR) workflow scheme

# 💋 Note:

This operation can only be done using the Windows client.

- 1 Display the workflow schemes (Administration/ Workflow/ Workflow schemes link on the navigation bar).
- 2 Select the Contract validation (sysSam\_CNTR\_APPR) scheme.
- 3 Display the **Activities** tab.
- 4 Delete the *Contract validation: Technical* (SAM\_APPR\_CNTR\_OPER) activity (shortcut menu **Delete** on the *Contract validation: Technical* box).
- 5 Delete the *Contract validation: Financial* (SAM\_APPR\_CNTR\_FINA) activity (shortcut menu **Delete** on the *Contract validation: Financial* box).
- 6 Delete the *Contract validation: Billing* (SAM\_APPR\_CNTR\_BILL) activity (shortcut menu **Delete** on the *Contract validation: Billing* box).

- 7 Display the detail of the *Contract validation: Legal* (SAM\_APPR\_CNTR\_JURI) activity (shortcut menu **Detail of activity** on the *Contract validation: Legal* box).
- 8 Display the **Parameters** tab.
- 9 Display the detail of the **Assignee** link (click on the magnifier)
- 10 Modify the following fields and links:

Field or link	Value
Context (ContextTable)	Contracts (amContract)
Type (seType)	Calculated group
Script (memScript)	Const STRJURI="CNTRJURI"
	RetVal=amDbGetLong("SELECT g.lGroupId FROM
	amRelEmplGrpCntr r, amEmplGroup g WHERE r.
	lGroupId=g.lGroupId AND r.lCntrId="& [lCnt
	rId] & " AND g.BarCode LIKE '" & STRJURI &
	"%'")
	if RetVal=0 Then RetVal=amDbGetLong("SELEC
	T lGroupId FROM amEmplGroup WHERE BarCode
	='sysSam_CNTR_JURI'")

- 11 Save the modifications (**Modify** button) and close the detail of the workflow role (**Close** button).
- 12 Close the detail of the activity (**Close** button).
- 13 Windows client: Close all windows.

## Request validation (Mr. Pc3 - Hawk)

- 1 If not done so already, connect to the database as *Pc3 Hawk*, CIO:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	hawk
Password	Leave empty.
Use integrated NT security	No

2 Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).

3 Make sure that the current contract is *PC3-001*. If this is not the case, select it (*Select a contract to work on* button).

- 4 In the Manage software page, select the Create/Modify software contracts option.
- 5 Click **Next**.
- 6 Click on the **Request validation for a contract** button.

 $\label{eq:stars} This \ triggers \ the \ Request \ contract \ validation \ (sysSamReqContractApproval) \\ wizard.$ 

7 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Request validation for a contract $page$	
Request contract validation	Yes

- 8 Validate all the parameters defined with the wizard (**Finish** button).
- 9 Exit the wizard (**OK** button).
- $10\,$  Exit the wizard (Finish button).

Refusing budgetary validation for the contract (Mr. Pc3 - Azeman)

- 1 Connect to the database as *Pc3 Azeman* CFO:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	azeman
Password	Leave empty.
Use integrated NT security	No

- 2 AssetCenter displays the following message You have unread messages. Do you want to read them now?.
- 3 Display the unread messages (**Yes** button).

This triggers the *Read messages* (sysCoreReadMsg) wizard.

4 Click **Next**.

The wizard displays a message to inform you that validation is pending for the contract.

- 5 Exit the wizard (**Finish** button).
- 6 Display current tasks (**Portfolio management/ My workflow tasks** link on the navigation bar).

- 7 Select the Contract validation: Budget task.
- 8 Refuse the contract (**Refuse the contract**, then **Modify**).
- 9 Close the list of tasks (**Close** button).
- 10 Connect to the database as *Pc3 Hawk* CIO:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	hawk
Password	Leave empty.
Use integrated NT security	No

- 11 AssetCenter displays the following message You have unread messages. Do you want to read them now?.
- 12 Display the unread messages (**Yes** button).

This triggers the *Read messages* (sysCoreReadMsg) wizard.

13 Click Next.

The wizard displays the detail of the message informing Mr. Pc3 - Hawk that the contract has been refused and that the validation circuit may be started once more.

14 Exit the wizard (Finish button).

Modifying the contract and resubmitting it for validation (Mr. *Pc3 - Hawk*)

- 1 Make sure that you are connected to the database as *Pc3 Hawk*.
- 2 Display current tasks (**Portfolio management/ My workflow tasks** link on the navigation bar).
- 3 Select the task *Refused contract to reprocess*.
- 4 Display the detail of the contract that has just been refused (**Detail** button).
- 5 Modify the fields and links shown in the following table:

Field or link	Value	
General tab		
Init. payment (mIntPay)	3000	

- 6 Save the modifications (**Modify** button).
- 7 Close the contract detail (**Close** button).
- 8 Restart the contract validation circuit (click **Yes**, then **Modify**).

9 Close the list of tasks (**Close** button).

Validating the contract from a budgetary standpoint (Mr. Pc3 - Delmar)

- 1 Connect to the database as *Pc3 Delmar*, accountant:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	delmar
Password	Leave empty.
Use integrated NT security	No

- 2 AssetCenter does not inform you that there is a message because the *Contract validation* workflow scheme only sends a message to the validation group supervisor.
- <sup>3</sup> Display current tasks (**Portfolio management/ My workflow tasks** link on the navigation bar).

💋 Note:

*Pc3 - Delmas* is able to access the budgetary validation tasks as a member of the *PC3 - Budgetary validation* group.

- 4 Select the Contract validation: Budget task.
- 5 Accept the contract (Click Validate the contract, then Modify).
- 6 Close the list of tasks (**Close** button).

Accepting the contract from a legal standpoint (Mr. *Pc3 - Delaney*)

- 1 Connect to the database as *Pc3 Delaney*, legal counsel:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	delaney
Password	Leave empty.

Field	Value
Use integrated NT security	No

- 2 AssetCenter displays the following message You have unread messages. Do you want to read them now?.
- 3 Display the unread messages (**Yes** button).

This triggers the *Read messages* (sysCoreReadMsg) wizard.

4 Click **Next**.

The wizard displays a message to inform you that validation is pending for the contract.

- 5 Exit the wizard (**Finish** button).
- 6 Display current tasks (**Portfolio management/ My workflow tasks** link on the navigation bar).
- 7 Select the Contract validation: Legal task.
- 8 Accept the contract (Click Validate the contract, then Modify).
- 9 Close the list of tasks (**Close** button).

Keeping informed of the validation status (Mr. Pc3 - Hawk)

- 1 Connect to the database as *Pc3 Hawk* CIO:
  - Windows client: File/ Connect to database menu.
  - Web client: Click the icon at the upper right to disconnect, then reconnect.

Field	Value
Connection	Connection to the database in which you perform
	the practical case.
Login	hawk
Password	Leave empty.
Use integrated NT security	No

- 2 AssetCenter displays the following message You have unread messages. Do you want to read them now?.
- 3 Display the unread messages (**Yes** button).

This triggers the *Read messages* (sysCoreReadMsg) wizard.

4 Click Next.

The wizard displays the detail of the message informing you that the contract has been validated.

- 5 Exit the wizard (Finish button).
- 6 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).

- 7 In the Manage software page, select the Create/Modify software contracts option.
- 8 Click Next.
- 9 Click on the Contract validation progress button. This displays the progress status. Consult the information available.
- 10 Close the progress status (**Close** button).
- $11\,$  Exit the wizard (Finish button).

# Practical case 1a: Create a simple counter for licenses and installations

# Presentation

This simplified practical case aims to illustrate the basics of using counters. Scenario of the practical case:

- The purpose is to examine how the *PowerPoint* application is deployed.
- User rights for *PowerPoint* are recorded as licenses called *PC1 PowerPoint* in the Portfolio Items table.

Licenses are directly linked to the user.

 Installations of *PowerPoint* are recorded as installations called *PC1* -*PowerPoint* - *Installation* in the Portfolio Items table.

Installations are directly linked to their users.

Each installation consumes 2 license rights.

• The right to use the *PowerPoint* software license is granted to the *PC1* - *Marketing* cost center.

Main stages of the practical case:

- 1 Creating departments and users.
- 2 Creating a license, installation and computer models.
- 3 Creating a portfolio item for the computer, the license and the installation.
- 4 Creating the counter.

# Steps to carry out

## Create the departments

1 Display the departments and employees (**Organization/ Departments** link on the navigation bar).

2 Create the following records by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	Pc1 - Marketing
Field or link	Value
Name (Name)	Pc1 - Training

#### Create the cost centers

- 1 Display the cost centers (**Portfolio management/ Cost centers** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Title (Title)	PC1 - Marketing

Field or link	Value
Title (Title)	PC1 - Training

#### Create the employees

- 1 Display the departments and employees (**Organization/ Employees** link on the navigation bar).
- 2 Create the following records by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	Pc1 - Doe
Department (Parent)	Pc1 - Marketing
Finances tab	
Cost center (CostCenter)	PC1 - Marketing

Field or link	Value
Name (Name)	Pc1 - Smith
Department (Parent)	Pc1 - Training
Finances tab	

Field or link	Value
Cost center (CostCenter)	PC1 - Training

#### Create the models

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	PC1 - Computer
Nature (Nature)	PC1 - Computer

Field or link	Value
Name (Name)	PC1 - PowerPoint - License
General tab	
Nature (Nature)	PC1 - License
Technical ref. (ModelRef)	PC1 - PowerPoint - License
License tab	
License type (seSoftLicType)	Per named workstation

Field or link	Value
Name (Name)	PC1 - PowerPoint - Installation
Nature (Nature)	PC1 - Installation
Technical ref. (ModelRef)	PC1 - PowerPoint - Installation

# Create the portfolio items

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Model (Model)	PC1 - Computer
General tab	
User (User)	Pc1 - Doe

Field or link	Value
Cost center (CostCenter)	Pc1 - Marketing

Field or link	Value
Model (Model)	PC1 - PowerPoint - License
General tab	
User (User)	Pc1 - Doe
License tab	
Rights (lSoftLicUseRights)	2

Field or link	Value
Model (Model)	PC1 - PowerPoint - Installation
General tab	
Quantity (fQty)	1
User (User)	Pc1 - Doe
Component of (Parent)	Select the <i>PC1</i> - <i>Computer</i> record from the list

- 3 Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- 4 In the Manage software page, select the Create/Modify software licenses and installations option.
- 5 Click **Next**.
- 6 In the Licenses and software installations page, click the Create a software license button.

This triggers the Create a new software license... (sysSamCreateLicpfi) wizard.

7 Populate the pages of the wizard as follows (navigate through the wizard pages using the **Next** and **Previous** buttons):

Field or link	Record
Create a new software license page	
Select a license type (model) for this new license	Select the PC1 - PowerPoint - License record
from existing software application licenses	
Populate license information page	
Label (Asset tag)	PC1-001
Total qty.	1
Rights	1
User name	Pc1 - Doe
Financial information page	Do not change
Summary page	

Field or link	Record
Choose the step you wish to perform after creat-	None
ing the software license	

- 8 Click **Finish**.
- 9 Click **OK**.
- 10 Windows client: Close all windows.

### Create the counter

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/IT/Licenses/Manage software...** link on the navigation bar).
- 2 In the Manage software page, select the Reconcile software licenses option.
- 3 Click Next.
- 4 In the Reconcile software licenses page, click the Create a software license management counter button.
- 5 Populate the fields and links shown in the following table:

Field or link	Record
Select how software installations/utiliza-	Select the Per named workstation option
tions are to be counted page	
Select a counter template page	
Counter templates	Select the Installations, entitlements and actual utilization by cost center (Type: per named work- station) model
Use this counter for global software compliance	No
management	
Do not publish in the compliance report	Yes
Select software licenses based on software	Select the PC1 - PowerPoint - License model.
application type page	
Select software installations based on soft-	Select the PC1 - PowerPoint - Installation model.
ware application type page	
Select cost centers covered by the entitle-	Select the <i>Pc1</i> - <i>Marketing</i> cost center.
ment page	
Define non use criteria page	
Period of non use	0
Select the way entitlements are defined page	Define the list of entitlements
Select cost centers covered by the entitle-	Select the PC1 - Marketing record
ment page	
Define the counter's scope of application pa	ge
Limit counter's scope of application	No

Field or link	Record
Enter the other parameters of the counter page	
Counter name	PC1 - PowerPoint - Simple count of licenses and
	installations
No contract	Yes
Create a software license management	Select the Display/Adjust/Calculate counts op-
counter page	tion

- 6 Click Finish.
- 7 Click **OK**.
- 8 Examine the **Results of the software counters** window.

Pay special attention to the PC1 - Marketing 0 1 2 2 line.

This cost center is not compliant: The installations use two rights. The cost center has one license right and one entitlement.

#### Examine the counter created by the wizard

- 1 Display the counters (**Portfolio management/ Software counters** link on the navigation bar).
- 2 Select the PC1 PowerPoint Simple count of licenses and installations counter.
- 3 Examine the top of the screen:

**Group By** (Context): This field is set to *Cost centers (amCostCenter)* (this is the default value). You will see in Practical case 1b: Limit the scope of the counter to a given department [page 129] what this field is used for and how it can be associated to the **Scope of application** (Definition) field.

- 4 Display the **General** tab: The counts are summarized here.
- 5 Display the **Rights** tab:

The wizard has created a query associated with the *Scope of the rights to be counted* (LicQuery) link which is used to identify portfolio items whose model is *PC1 - PowerPoint - License*.

**Rights-calculation mode** (seLicCountMode) is set to *Point count*: The counter takes rights points into account.

6 Display the **Entitlements** tab:

The wizard has created a query associated with the *Scope of the entitlements to be counted* (EntContext) link which is used to identify employees and departments that are associated with the *PC1* - *Marketing* cost center.

7 Display the Installations/Utilizations tab:

The wizard has created a query associated with the *Scope of the installations* or utilizations to be counted (SoftInstQuery) link which is used to identify portfolio items whose model is *PC1 - PowerPoint - Installation*.

**Installations/Utilizations-calculation mode** (seInstallCountMode) is set to *Point count*: The counter takes consumption of rights points into account.

# Practical case 1b: Limit the scope of the counter to a given department

## Presentation

This simplified practical case aims to illustrate the principles of counters, when:

 A scope is defined to filter the records in the table selected by the Group By (Context) link.

The scenario of the practical case is identical to practical case 1a, except for the following points:

♦ For each user in the department *Pc1* - *Marketing*, the counter compares the license rights acquired for *PowerPoint* with declared installations.

Main stages of the practical case:

- 1 The Initial steps correspond to practical case 1a.
- 2 Modifying the license.
- 3 Creating the counter.

## Prerequisites

This practical case can only be carried out after practical cases 1 and 1a have been carried out in full.

## Steps to carry out

#### Modify the license

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Select the portfolio item whose model is PC1 PowerPoint License.
- 3 Modify the record, by populating the fields and links as shown in the following table:

Field or link	Value
General tab	
User (User)	Pc1 - Marketing
License tab	

Field or link	Value
License type (seSoftLicType)	Per installation or utilization

#### Create the counter

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 2 On the **Manage software** page, select the **Reconcile software licenses** option.
- 3 Click **Next**.
- 4 In the Reconcile software licenses page, click the Create a software license management counter button.
- 5 Populate the fields and links shown in the following table:

Field or link	Record
Select how software installations/utiliza-	Select the Per installation or utilization option.
tions are to be counted page	
Select a counter template page	
Counter templates	Select the Installations, entitlements and actual utilization by department/employee (Type: per installations and utilizations) model
Use this counter for global software compliance management	No
Do not publish in the compliance report	Yes
Select software licenses based on software	Select the PC1 - PowerPoint - License model.
application type page	
Select software installations based on soft-	Select the PC1 - PowerPoint - Installation model.
ware application type page	
Define non use criteria page	
Period of non use	0
Select the way entitlements are defined $page$	Define the list of entitlements
Select cost centers covered by the entitle-	Select the PC1 - Marketing record
ment page	
Define the counter's scope of application pag	ge
Limit counter's scope of application	Yes
Define the counter's scope of application $pag$	ge
Employees and departments	Select the Pc1 - Marketing record
Select entire department	Yes
Enter the other parameters of the counter $\mathbf{p}\mathbf{a}$	age
Counter name	PC1b - PowerPoint installations in the Marketing
	department
No contract	Yes

Field or link	Record
Create a software license management	Select the Display/Adjust/Calculate counts op-
counter page	tion

- 6 Click **Finish**.
- 7 Click **OK**.
- 8 Examine the **Results of the software counters** window.

Pay special attention to the *PC1* - *Marketing 0 1 2 2* line.

This cost center is not compliant: The installations use two rights. The cost center has one license right and one entitlement.

# Practical case 1c: Internal assignment of rights

### Presentation

This simplified practical case aims to illustrate the principles of counters that use named entitlements.

Scenario of the practical case:

- The purpose is to examine how *PowerPoint* is deployed with regard to the internal entitlement policy of the company.
- Internal user rights for *PowerPoint* are declared in the Named Entitlements table.
- Installations of *PowerPoint* are recorded as installations called *PC1* -*PowerPoint* - *Installation* in the Portfolio Items table.

Installations are linked to the user's computer.

Each installation consumes 1 license right.

• For each user listed in the named entitlement *PC1c* - *Named user rights for PowerPoint*, the counter compares the user rights declared for *PowerPoint* with recorded installations.

Main stages of the practical case:

- 1 The initial steps are the same as in practical cases 1, 1a and 1b.
- 2 Creating a named entitlement.
- 3 Creating the counter.

## Prerequisites

This practical case can only be carried out after practical cases 1, 1a and 1b have been carried out in full.

# Steps to carry out

#### Create the models

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	PC1c - PowerPoint - License
General tab	
Nature (Nature)	PC1 - License
License tab	
License type (seSoftLicType)	Per named user
Field or link	Value
Nama (Nama)	DC1a DoworDoint Installation

	(dibe	
Name (Name)	PC1c - PowerPoint - Installation	
General tab		
Nature (Nature)	PC1 - Installation	

# Create the portfolio items

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Model (Model)	PC1c - PowerPoint - License
General tab	
Cost center (CostCenter)	PC1 - Training
License tab	
Rights (lSoftLicUseRights)	1

Field or link	Value
Model (Model)	PC1c - PowerPoint - Installation
General tab	
Quantity (fQty)	1

Field or link	Value
Component of (Parent)	Select the PC1 - Computer record from the list

### Creating the named entitlement

- 1 Display the named entitlements (**Organization/ Named entitlements** link on the navigation bar).
- 2 Create the following record, by populating the fields and links as shown in the following table:

Field or link	Value
Name (Name)	PC1c - Named user rights for PowerPoint
Click <b>Create</b> to continue.	
Entitled Employees/Departments tab	
	Pc1 - Doe
	Pc1 - Smith

#### Creating the counter

- 1 Start the *Manage software* (sysSamLauncher) wizard (**Portfolio management/ IT/ Licenses/ Manage software...** link on the navigation bar).
- 2 In the Manage software page, select the Reconcile software licenses option.
- 3 Click **Next**.
- 4 In the Reconcile software licenses page, click the Create a software license management counter button.
- 5 Populate the fields and links shown in the following table:

Field or link	Record
Select how software installations/utiliza-	Select the Per named user option.
tions are to be counted $\operatorname{page}$	
Select a counter template page	
Counter templates	Select the Compliance and assignments by cost center (per named user) model
Use this counter for global software compliance management	No
Do not publish in the compliance report	Yes
Select software licenses based on software application type page	Select the <i>PC1c</i> - <i>PowerPoint</i> - <i>License</i> model.
Select software installations based on software application type $\operatorname{page}$	Select the PC1c - PowerPoint - Installation model.

Field or link	Record	
Define non use criteria page	Leave the page as is.	
Select the way entitlements are defined $page$	Select a named entitlement	
Select named entitlements covered by the	Select the PC1c - Named user rights for Power-	
entitlement page	Point entitlement	
Define the counter's scope of application page		
Limit counter's scope of application	No	
Enter the other parameters of the counter page		
Counter name	PC1c - Named user rights for PowerPoint	
No contract	Yes	
Create a software license management	Select the Display/Adjust/Calculate counts op-	
counter page	tion	

- 6 Click **Finish**.
- 7 Click **OK**.
- 8 Windows client: Close all windows.

#### Examine the results of the counter

There is one line for *Pc1* - *Marketing* and one for *Pc1* - *Training*.

Both cost centers are compliant with your internal policy (entitlements).

The *Pc1* - *Marketing* cost center is not license compliant.

# Practical case 1d: Take into account effective software usage

## Presentation

This simple practical case illustrates how the counters work when you take the effective usage of installations/utilizations into account.

The scenario is the same as in practical case 1b, except that the counter takes into account the effective usage of software.

Main stages of the practical case:

- 1 The initial steps are the same as in practical cases 1, 1a and 1b.
- 2 Adding information on usage of the installation.
- 3 Creating the counter.

## Prerequisites

This practical case can only be carried out after practical cases 1, 1a and 1b have been carried out in full.

# Steps to carry out

Populate usage information for the installation

- 1 Display the software installations (**Portfolio management/ IT/ Software installations** link on the navigation bar).
- 2 Select PC1 PowerPoint Installation.
- 3 Modify the record, by populating the fields and links as shown in the following table:

Field	Value
Utilization tab	
Last use (dtLastUse)	Current date and time minus 2 months

#### Define non use criteria for the counter

- Start the Manage software (sysSamLauncher) wizard (Portfolio management/ IT/ Licenses/ Manage software... link on the navigation bar).
- <sup>2</sup> On the Manage software page, select the Reconcile software licenses option.
- 3 Click Next.
- 4 On the **Reconcile software licenses** page, click the **Modify a counter** button.
- 5 Select the PC1 PowerPoint Simple count of licenses and installations record.
- 6 Click the **Installation** button.
- 7 This triggers the *Modify the list of installation models to take into account...* (sysSamAddInst2Counter) wizard.
- 8 Populate the fields and links shown in the following table:

Field or link	Record
Modify the list of installation models to tak	e into account page
Period of non use	1 month
Recalculate the results of the counter after execut- ing the wizard	Yes

- 9 Click **Finish**.
- 10 Click **OK**.
- 11 Examine the upper part of the **Results of the software counters** window for the *PC1 PowerPoint Simple count of licenses and installations* counter.

The **Installations/Utilizations count** field (dSoftInstallCount) is set to 2 as in practical case 1b, but the **Unused installation counts** field (dUnusedInstall) is now set to 2.

12 Examine the lower part of the **Results of the software counters** window for the *PC1 - PowerPoint - Simple count of licenses and installations* counter.

There is a line for *PC1* - *Marketing*, as for practical case 1b.

This result shows you that you do not have enough licenses for the number of installation points and that the software is not used by the Pc1 - *Marketing* cost center. If the software is not really used, uninstall it.

# Practical case 2: Microsoft Select contract

# Presentation

This elaborate practical case demonstrates how to manage a Microsoft Select contract.

# **Reminders about Microsoft Select 6.0 contracts**

- They are intended from medium to large-size companies.
- The are based around a target purchase volume over a period of three years. This target covers the total number of licenses that a company intends to purchase in any of the following product groups:
  - Application products
  - System products
  - Server products
- Within each of these groups, the company can organize its purchases to obtain the best rates.

As not all software has the same value, the Select program does not count licenses but uses a system of license points.

Additionally, it enables customers to copy software and use these copies automatically if the license points are available.

- There are four pricing levels, which are determined by purchase targets over three years, for each of the three product groups.
- You can opt for purchasing:
  - The license only (L).

The license, L, entitles you install the full version of a software product.

**Software Assurance (SA).** 

The SA license entitles you to all updates (major, minor, service packs, patches, etc.) for the duration of the Select contract.

• The license plus Software Assurance (L+SA).

# Basic information on the Microsoft Select contract in the practical case

- Start: January 1st, 2003
- End: December 31, 2006
- The main contract is a master contract between your company and Microsoft.

The master lease is linked to a blanket PO contract which covers acquisition of new licenses in the *Applications* pool. This contract defines in particular the number of points in volume targeted over the 3 year period (1500 points). This contract is also used as a reference for the acquisition of new licenses (which are acquired once and for all).

The blanket PO contract is linked to a maintenance contract that covers license assurance for the *Applications* pool.

- The company deploys applications within the contract: Excel and Project.
- Before the contract came into effect, the company owned 100 Excel licenses and 10 Project licenses.

The 100 Excel licenses will be covered by the Select Software Assurance.

The update of the 10 Project licenses is not covered by the Select contract.

• The company purchases 300 new Excel licenses including Select Software Assurance.

It also purchases 20 new Project licenses without Software Assurance.

## Aspects we want to manage in the practical case

 Ascertain the acquired number of volume points and compare them to the contractual targets (commercial aspects of the contract).

Calculated fields are used to compare the targeted points with actual acquired points.

• Make sure the number of installations is in compliance with the number of authorized licenses.

A counter is used to compare installations with purchased licenses.

## Main stages of the practical case

- 1 Creating the natures and models.
- 2 Creating the contracts.
- 3 Creating the portfolio items.
- 4 Creating the catalog references.
- 5 Creating the requests and orders.

- 6 Creating the calculated fields.
- 7 Creating the counter.

# Steps to carry out

### Create the natures

- 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	PC2 - Computer
Create (seBasis)	Portfolio item
Also create (seOverflowTbl)	Computers (amComputer)
Management constraint (seMgtConstraint)	Unique asset tag
Has software installed (bHasSoftInstall)	Yes

Field or link	Value
Name (Name)	PC2 - License
Create (seBasis)	Portfolio item
Management constraint (seMgtConstraint)	Asset tag
License (bSoftLicense)	Yes

Field or link	Value
Name (Name)	PC2 - Installation
Create (seBasis)	Portfolio item
Also create (seOverflowTbl)	Software installations or utilizations (amSoftIn-
	stall)
Management constraint (seMgtConstraint)	Free

Field or link	Value
Name (Name)	PC2 - Blanket PO contract
Create (seBasis)	Contract
Contract type (seCntrType)	Blanket PO

#### Create the brands

1 Display the brands (**Portfolio management/ Brands** link on the navigation bar).

2 If it doesn't already exist, create the following record by populating the fields and links as shown in the following table:

Field or link	Value
Name (Name)	Microsoft

#### Create the units for features

- 1 Display the units (**Administration / System/ Units** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following table:

Field or link	Value
Name (Name)	Points
Dimension (Dimension)	Count
	Note:
	If the message <i>Would you like to add the value 'XXX' to itemized list 'YYY'?</i> is displayed, click <b>Yes</b> .
Symbol (Symbol)	Pts
	Note:
	If the message Would you like to add the value 'XXX' to itemized list 'YYY'? is displayed, click <b>Yes</b> .
Conv. coeff. (fConv)	0

### Create the features for models and contracts

- 1 Display the features (**Administration / Features / Features** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
	This feature to be associated with the license models
	is used to define the number of points obtained each
	time a license is purchased.
Label (TextLabel)	PC2SelectPointsL

Field or link Input tab Input type (seDataType) Unit (Unit)	Value This feature to be associated with the license models is used to define the number of points obtained each time a license is purchased. Numeric Points
Field or link Label (TextLabel)	Value This feature to be associated with the license models is used to define the number of Software Assurance points obtained each time a license is purchased during the third year of the contract (with less than one year of Software Assurance left). PC2SelectPointsSA1
Input tab	
Input type (seDataType)	Numeric
Unit (Unit)	Points
Field or link Label (TextLabel)	Value This feature to be associated with the license models is used to define the number of Software Assurance points obtained each time a license is purchased during the second year of the contract (with 1 to 2 years of Software Assurance left). PC2SelectPointsSA2
Input tab	
Input type (seDataType)	Numeric
Unit (Unit)	Points
Field or link	Value This feature to be associated with the license models is used to define the number of Software Assurance points obtained each time a license is purchased during the first year of the contract (with 2 to 3 years of Software Assurance left).
Label (TextLabel)	PC2SelectPointsSA3
Input tab	
Input type (seDataType)	Numeric

Field or link	Value
	This feature to be associated with the license models is used to define the number of Software Assurance
	points obtained each time a license is purchased during the first year of the contract (with 2 to 3 years
	of Software Assurance left).
Unit (Unit)	Points

Field or link	Value
	This feature to be associated with the blanket PO contract for a given pool is used to define the points
	target.
Label (TextLabel)	PC2SelectPointsTarget
Input tab	
Input type (seDataType)	Numeric
Unit (Unit)	Points

#### Add the parameters to the features

- 1 Display the features (**Administration / Features / Features** link on the navigation bar).
- 2 Select the feature *PC2SelectPointsL*.
- 3 Display the **Parameters** tab.
- 4 Add a parameter (+ button).
- 5 Populate the fields and links shown in the following table:

Field or link	Value
Table (TableName)	Models (amModel)

- 6 Proceed in the same way for the features *PC2SelectPointsSA1*, *PC2SelectPointsSA2* and *PC2SelectPointsSA3*.
- 7 Select the feature *PC2SelectPointsTarget*.
- 8 Display the **Parameters** tab.
- 9 Add a parameter (+ button).
- 10 Populate the fields and links shown in the following table:

Field or link	Value
Table (TableName)	Contracts (amContract)

### Create the models

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Name (Name)	PC2 - Computer
General tab	
Nature (Nature)	PC2 - Computer
Field or link	Value
Name (Name)	PC2 - Excel - License
Brand (Brand)	Microsoft
General tab	
Nature (Nature)	PC2 - License
Features tab	
PC2SelectPointsL	1
PC2SelectPointsSA1	1
PC2SelectPointsSA2	1
PC2SelectPointsSA3	2
Field or link	
Name (Name)	PC2 - Project - License
Brand (Brand)	Microsoft
General tab	
Nature (Nature)	PC2 - License
Features tab	
PC2SelectPointsL	4
PC2SelectPointsSA1	2
PC2SelectPointsSA2	4
PC2SelectPointsSA3	6

Field or link	Value
Name (Name)	PC2 - Microsoft Select - Pool
Brand (Brand)	Microsoft
General tab	

Field or link	Value
Nature (Nature)	PC2 - Blanket PO contract

Field or link	Value
Name (Name)	PC2 - Excel - Installation
Brand (Brand)	Microsoft
General tab	
Nature (Nature)	PC2 - Installation

### Create the contracts

- 1 Display the contracts (**Contracts / Contracts** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
	Main contract.
Reference (Ref)	PC2MSML
Purpose (Purpose)	PC2 - Microsoft Select - Master lease
Type (seType)	Master lease
Contract status (seStatus)	Active
General tab	
Nature of payments (sePayType)	None
Start (dStart)	January 1, 2006
End (dEnd)	December 31, 2006

Field or link	Value
	Blanket PO contact covering the acquisition of new licenses in the <i>Applications</i> pool.
Reference (Ref)	PC2MSA1
Purpose (Purpose)	PC2 - Microsoft Select - Applications - Acquisi-
	tions
Type (seType)	Blanket PO
Model (Model)	PC2 - Microsoft Select - Pool
General tab	
Attached to (Parent)	Select the PC2MSCC (PC2 - Microsoft Select -
	Master lease) contract from the list
Nature of payments (sePayType)	None
Start (dStart)	January 1, 2006
End (dEnd)	December 31, 2006
Features tab	

Field or link	Value
	Blanket PO contact covering the acquisition of new
	licenses in the Applications pool.
PC2SelectPointsTarget	1500
Field or link	Value
	Maintenance contract covering Software Assurance for the licenses in the <i>Applications</i> pool.
Reference (Ref)	PC2MSA2
Purpose (Purpose)	PC2 - Microsoft Select - Applications - Assurance
Type (seType)	Maintenance
Contract status (seStatus)	Active
General tab	
Attached to (Parent)	Select the PC2MSA1 (PC2 - Microsoft Select -
	Applications - Acquisitions) contract from the list
Nature of payments (sePayType)	Rents
Start (dStart)	January 1, 2006
End (dEnd)	December 31, 2006

#### Create a cost center

- 1 Display the cost centers (**Portfolio management/ Cost centers** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following table:

Field or link	Value
Label (Title)	PC2 - National Marketing

### Create the portfolio items

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
	Excel licenses acquired before the start of the Select
	contract.
Model (Model)	PC2 - Excel - License
General tab	
Quantity (fQty)	100
Cost center (CostCenter)	PC2 - National Marketing

Field or link	Value
	Excel licenses acquired before the start of the Select
	contract.
License tab	
Rights (lSoftLicUseRights)	1
Field or link	Value
	Project licenses acquired before the start of the Select
	contract.
Model (Model)	PC2 - Project - License
General tab	
Quantity (fQty)	10
Cost center (CostCenter)	PC2 - National Marketing
License tab	
Rights (lSoftLicUseRights)	1
Field or link	Value
Model (Model)	PC2 - Computer
General tab	
Cost center (CostCenter)	PC2 - National Marketing
Field or link	Value
	An Excel installation made before the start of the
	Select contract, and which will be covered by the
	Select Software Assurance.
Model (Model)	PC2 - Excel - Installation
General tab	
Quantity (fQty)	1
Component of (Parent)	Select the PC2 - Computer record from the list
Software inst. tab	
No of points (lUseCount)	1

#### Create the supplier

- 1 Display the companies (**Portfolio management/ Companies** link on the navigation bar).
- 2 If it doesn't already exist, create the following record by populating the fields and links as shown in the following table:

Field or link	Value
Name (Name)	Microsoft

#### Create the products

- 1 Create the products (**Catalog/ Products** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Description (Description)	PC2 - Excel - License
Brand (Brand)	Microsoft
General tab	
Model (Model)	PC2 - Excel - License

Field or link	Value
Description (Description)	PC2 - Project - License
Brand (Brand)	Microsoft
General tab	
Model (Model)	PC2 - Project - License

#### Create the catalog

- 1 Display the catalogs (**Catalog/ Catalogs** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value	
Name (Name)	Microsoft	
Validate the creation of the record ( <b>Create</b> button)		
Distributors	Add a link to Microsoft	
Default supplier (DefSuppCat)	Microsoft	

#### Create the references

- 1 Display the catalogs (**Catalog / Catalog references** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Catalog (Catalog)	Microsoft
Product (CatProduct)	PC2 - Excel - License
Price (sysCoreCatRefPrice)	200

Field or link	Value
Catalog (Catalog)	Microsoft
Product (CatProduct)	PC2 - Project - License
Price (sysCoreCatRefPrice)	800

### Create the license and assurance requests from the master lease

- 1 Display the requests (**Procurement/ Purchase requests** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
Purpose (Purpose)	PC2 - License + Excel Software Assurance
Number (PONumber)	PC2-01

Field or link	Value
Purpose (Purpose)	PC2 - Project license
Number (PONumber)	PC2-02

Field or link	Value
Purpose (Purpose)	PC2 - Excel Assurance
Number (PONumber)	PC2-03

#### Create the request lines for the PC2-01 request

- 1 Display the requests (**Procurement/ Purchase requests** link on the navigation bar).
- 2 Select request *PC2-01* (Number (PONumber) field).
- 3 Display the **Composition** tab.
- 4 Add the following request lines by populating the fields and links as shown in the following tables:

Field or link	Value
Contract utilization (bCntrUtilization)	No
Quantity (fQty)	300

Field or link	Value
Reference (CatalogRef)	Select the PC2 - Excel - License (Microsoft) - PC2
	- <i>Excel</i> - <i>License</i> record from the list

### 💡 Tip:

To be able to create the following line correctly in the Windows client, you must first have saved the inclusion of the first line of the request using the **Modify** button.

Field or link	Value
Contract utilization (bCntrUtilization)	Yes
Quantity (fQty)	1
Icon to the right of the <b>Contract requested</b>	Click
(UsedReqLineCntr) field	
Drop-down list under the <b>Quantity</b> (fQty) field	Contract used
Field to the right of the drop-down list with the	Select the PC2MSA2 (PC2 - Microsoft Select -
Used contract value	Applications - Assurance) record from the list
Port. item requested (UsedReqLineAsset)	300 PC2 - Excel - License

#### Create the request lines for the PC2-02 request

- 1 Display the requests (**Procurement/ Purchase requests** link on the navigation bar).
- 2 Select request *PC2-02* (Number (PONumber) field).
- 3 Display the **Composition** tab.
- 4 Add the following request line by populating the fields and links as shown in the following tables:

Field or link	Value
Quantity (fQty)	20
Reference (CatalogRef)	Select the PC2 - Project - License (Microsoft) -
	PC2 - Excel - License record from the list

#### Create the request lines for the PC2-03 request

- 1 Display the requests (**Procurement/ Purchase requests** link on the navigation bar).
- 2 Select request *PC2-03* (Number (PONumber) field).
- 3 Display the **Composition** tab.

4 Add the following request line by populating the fields and links as shown in the following tables:

Field or link	Value
Contract utilization (bCntrUtilization)	Yes
Quantity (fQty)	1
Icon to the right of the <b>Contract requested</b>	Click
(UsedReqLineCntr) field	
Drop-down list under the <b>Quantity</b> (fQty) field	Contract used
Field to the right of the drop-down list with the	Select the PC2MSA2 (PC2 - Microsoft Select -
Used contract value	Applications - Assurance) record from the list
Icon to the right of the <b>Port. item requested</b>	Click
(UsedReqLineAsset) field	
Drop-down list under the drop-down list with the	Asset used
Used contract value	
Field to the right of the drop-down list with the	Microsoft PC2 - Excel - License
Asset used value	

Creating, issuing and receiving the orders PC2-01 and PC2-02

- 1 Display the requests (**Procurement/ Purchase requests** link on the navigation bar).
- 2 Select request *PC2-01* (Number (PONumber) field).
- <sup>3</sup> Click **Quote**, and then **Finish** and then **OK** to accept the proposed values.
- 4 In the detail of the purchase order generated from the request:
  - a Populate the fields and links shown in the following table:

Field or link	Value
Number (PONumber)	PC2-01
General tab	
Sent (dtSent)	March 31, 2006

- **b** Display the **Composition** tab.
- c Display the detail of the purchase order line.
- d In the detail of the order line, display the **Allocation** tab.
- e Populate the fields and links shown in the following table:

Field or link	Value
Cost center (CostCenter)	PC2 - National Marketing

f In the detail of the order line, display the **Financing** tab.

g Populate the fields and links shown in the following table:

Field or link	Value
On blanket PO (bUsesBlanketPO)	Yes
Blanket PO contract (BlanketPOCntr)	Select the PC2MSA1 (PC2 - Microsoft Select -
	Applications) record from the list

- $h \ \ \, Save the modifications made to the order (Modify button).$
- 5 Click **Issue**, and then **Finish**, and then **OK** to accept the proposed values.
- 6 Click **Receive**, and then **Finish**, and then **OK** to accept the proposed values.
- 7 Examine the details of this portfolio item that was created during the reception of the purchase order.
- 8 Windows client: Windows client: Close all windows.
- 9 Display the requests (**Procurement/ Purchase requests** link on the navigation bar).
- 10 Select request *PC2-02* (Number (PONumber) field).
- 11 Click **Quote**, and then **Finish**. Accept the proposed values as they are. Click **OK**.
- 12 Populate the fields and links shown in the following table:

Field or link	Value
Number (PONumber)	PC2-02
General tab	
Sent (dtSent)	March 31, 2006

13 In the detail of the estimate generated from the request:

- a Display the **Composition** tab.
- b Display the detail of the purchase order line.
- c In the detail of the order line, display the **Allocation** tab.
- d Populate the fields and links shown in the following table:

Field or link	Value
Cost center (CostCenter)	PC2 - National Marketing

- e In the detail of the order line, display the **Financing** tab.
- f Populate the fields and links shown in the following table:

Field or link	Value
On blanket PO (bUsesBlanketPO)	Yes

- g Save the modifications made to the order (**Modify** button).
- 14 For the estimate that was created from the purchase request, click **Issue**, and then **Finish**. Accept the proposed values as they are. Click **OK**.
- 15 In the details of the purchase order that was created from the purchase request, click **Receive**, and then **Finish**. Accept the proposed values as they are. Click **OK**.
- 16 Examine the details of this portfolio item that was created during the reception of the purchase order.
- 17 Windows client: Close all windows.

#### Execute the request PC2-03

- 1 Display the requests (**Procurement/ Purchase requests** link on the navigation bar).
- 2 Select request *PC2-03* (Number (PONumber) field).
- 3 Set the **Req. status** field (seStatus) to *Validated*.
- 4 Click **Modify**.
- 5 Click **Execute**, and then **Finish**. Accept the proposed values as they are. Click **OK**.
- 6 Display the **Composition** tab.
- 7 Display the detail of the request line **Contract utilization**.
- 8 Click the magnifier to the right of the field set to *Microsoft PC2 Excel License*.
- 9 Display the **Contracts** tab.

You will notice that the asset is linked to the contract *PC2MSA2* (*PC2* - *Microsoft Select - Applications - Assurance*).

10 Windows client: Close all windows.

Create the calculated fields for the points tracking

- 1 Display the calculated fields (**Administration/ System/ Calculated fields** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

# 😯 Tip:

We recommend coping the scripts from chm of the documentation to AssetCenter.

Field or link	Value
Label (TextLabel)	PC2 - Select - License Points
SQL name (SQLName)	PC2L
Table (TableName)	Contracts (amContract)
Field type (seType)	Basic script
Result type (seDataType)	Numeric
Calculated-field script (Script)	RetVal = AmDbGetDouble( "SELECT SUM(fQty
	* CatalogRef.CatProduct.Model.fv_PC2Select-
	PointsL) FROM amPOrdLine WHERE Blanket-
	POCntr = " & [lCntrId] & " AND POrder.dtSent
	>= #" & [dStart] & "# AND POrder.dtSent <= #"
	& [dEnd] & "#")

Description of the script:

- *RetVal* =: The script returns a value.
- AmDbGetDouble(...): The value returned is a double-precision number (8 bytes).
- *FROM amPOrdLine*: The query searches the **Order lines** table.
- WHERE BlanketPOCntr = "& [lCntrId] & "AND POrder.dtSent >= #" & [dStart] & "# AND POrder.dtSent <= #" & [dEnd] & "#": The records in the Order lines table must by linked to the contract by the Blanket PO contract (BlanketPOCntr), the order to which the order line belongs must have been issued (link to the POrder.dtSent field) after the start of the contract (dStart field) and before its end (dEnd field).
- SUM(fQty \* CatalogRef.CatProduct.Model.fv\_PC2SelectPointsL): The query sums (SUM(...)) the feature values fv\_PC2SelectPointsL associated with the product model of the catalog reference of the order line (CatalogRef.CatProduct.Model.fv\_PC2SelectPointsL link) for each order line selected by the WHERE(...) clause.

Field or link	Value
Label (TextLabel)	PC2 - Select - Assurance points
SQL name (SQLName)	PC2SA
Table (TableName)	Contracts (amContract)
Field type (seType)	Basic script
Result type (seDataType)	Numeric

Field or link	Value
Script (Calculated-field script)	RetVal = AmDbGetDouble("SELECT SUM(As- set.fTotalQty * Asset.Model.fv_PC2Select- PointsSA1) FROM amAstCntrDesc WHERE lCntrId = " & [lCntrId] & " AND dCntrIncluded >= #" & ( Year([dStart]) + 2 ) & "-" & Month([dStart]) & "-" & Day([dStart]) & "# AND dCntrIncluded < #" & ( Year([dStart]) + 3 ) & "-" & Month([dStart]) & "-" & Day([dStart]) & "#")
	RetVal = RetVal + AmDbGetDouble("SELECT SUM(Asset.fTotalQty * Asset.Model.fv_PC2Se- lectPointsSA2) FROM amAstCntrDesc WHERE lCntrId = " & [lCntrId] & " AND dCntrIncluded >= #" & ( Year([dStart]) + 1 ) & "-" & Month([dStart]) & "-" & Day([dStart]) & "# AND dCntrIncluded < #" & ( Year([dStart]) + 2 ) & "-" & Month([dStart]) & "-" & Day([dStart]) & "#")
	RetVal = RetVal + AmDbGetDouble("SELECT SUM(Asset.fTotalQty * Asset.Model.fv_PC2Se- lectPointsSA3) FROM amAstCntrDesc WHERE lCntrId = " & [lCntrId] & " AND dCntrIncluded >= #" & ( Year([dStart]) + 0 ) & "-" & Month([dStart]) & "-" & Day([dStart]) & "# AND dCntrIncluded < #" & ( Year([dStart]) + 1 ) & "-" & Month([dStart]) & "-" & Day([dStart]) & "#")

Description of the first *RetVal* = of the script:

*RetVal* =: The script returns a value.
 For better readability, the calculation is performed if

For better readability, the calculation is performed in three parts, thus we have: RetVal = RetVal + ...

- AmDbGetDouble(...): The value returned is a double-precision number (8 bytes).
- *FROM amAstCntrDesc*: The query searches the **Assets covered by contracts** table.
- *lCntrId* = " & [*lCntrId*] & ": First condition of the WHERE clause.

The assets covered by contracts must be linked to the current contract identified by the **ICntrId** field.

dCntrIncluded >= #" & (Year([dStart]) + 2) & "-" & Month([dStart]) & "-" & Day([dStart]) & "#: Second condition of the WHERE clause.

The assets covered by contracts must have been included (**dCntrincluded** field) at least two years after the start of the contract.

The # character is used to delimit the reference date.

The reference date is reconstituted by concatenating the year, month and day of the start of the contract (**dStart** field).

We thus obtain a date with the format #YYYY-MM-DD#.

dCntrIncluded < #" & (Year([dStart]) + 3) & "-" & Month([dStart]) & "-" & Day([dStart]) & "#: Third condition of the WHERE clause.</li>

The assets covered by contracts must have been included (**dCntrincluded** field) at least 3 years after the start of the contract.

 SUM(Asset.fTotalQty \*Asset.Model.fv\_PC2SelectPointsSA3): The query sums the products of the Total qty. (fTotalQty) fields and the feature PC2SelectPointsSA3 of the assets covered by contracts selected by the WHERE clause.

In effect, it is this feature that gives the number of Software Assurance points to be counted when the license is acquired during the first year of the contract, when there remains 2 to 3 years of Software Assurance.

### Display the calculated fields and the feature of the contracts

# ጆ Note:

This operation can only be done using the Windows client.

You must use AssetCenter Database Administrator to customize windows and have them display calculated fields in a detail window or in a list in the Web client.

- 1 Display the contracts (**Contracts/ Contracts** link on the navigation bar).
- 2 Right-click the list header.
- 3 Select **Utilities/ Configure list** from the shortcut menu.
- 4 Add the calculated fields *PC2 Select Assurance Points* (*PC2SA*) and *PC2 Select License Points* (*PC2L*).
- 5 Click **OK**.
- 6 Examine the values you have added for the *PC2MSA1* and *PC2MSA2* contracts.

#### Create the queries required for the Excel counter

- 1 Display the queries (**Administration/ Queries** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Value
	Identification of the cost center for which we will
	account for license rights and installations.
Name (Name)	PC2 - Cost center 1
Table (TableName)	Cost centers (amCostCenter)

Field or link	Value
	Identification of the cost center for which we will
	account for license rights and installations.
Query tab	
Query (memQueryText)	Title = 'PC2 - National Marketing'
Field or link	Value
	Identification of Excel licenses
Name (Name)	PC2 - Excel - Licenses
Table (TableName)	Portfolio items (amPortfolio)
Query tab	
Query (memQueryText)	Model.Name = 'PC2 - Excel - License'
Field or link	Value
	Identification of Excel licenses
Name (Name)	PC2 - Excel - Installations
Table (TableName)	Portfolio items (amPortfolio)
Query tab	
Query (memQueryText)	Model.Name = 'PC2 - Excel - Installation'

#### Create the Excel counter

- 1 Display the counters (**Portfolio management/ Software counters** link on the navigation bar).
- 2 Create the following records, by populating the fields and links as shown in the following tables:

Field or link	Record
Name (Name)	PC2 - Excel - License control
Use as model (bType)	No
Not used for compliance (bInternal)	Yes
Edit the counter using the wizards (bAutomated)	No
User-rights count (bCountLic)	Yes
Installations/Utilizations count (bCountInst)	Yes
Entitlements count (bCountEnt)	No
Group by (Context)	Cost centers (amCostCenter)
Scope of application (Definition)	PC2 - Cost center 1
License contract (Contract)	Select the PC2MSA1 (PC2 - Microsoft Select -
	Applications - Acquisitions) record from the list
Rights tab	
Rights counter context (LicContext)	Portfolio items (amPortfolio)
Scope of the rights to be counted (LicQuery)	PC2 - Excel - Licenses

Field or link	Record
Rights -> Group By link (LicGroupBy)	CostCenter
	Note:
	AssetCenter adds automatically a period (full stop) to the end of the string you type or paste.
	You must delete this period (full stop) in order to validate what you have entered.
Rights-calculation mode (seLicCountMode)	Count according to a calculation formula
Field for rights count (LicCountFormula)	SUM((fQty * Asset.lSoftLicUseRights))
Installations/Utilizations ${ m tab}$	
Installation/Utilization counter context (InstCon- text)	Portfolio items (amPortfolio)
Scope of the installations or utilizations to be counted (SoftInstQuery)	PC2 - Excel - Installations
Installations/Utilizations -> Group By link (Inst-	Parent.CostCenter
GroupBy)	Note:
	AssetCenter adds automatically a period (full stop) to the end of the string you type or paste.
	You must delete this period (full stop) in order to validate what you have entered.
Installations/Utilizations-calculation mode (seInstallCountMode)	Count according to a calculation formula
Installations/Utilizations calculation formula (InstCountSQL)	Countdistinct(lParentId)

- 3 Click the **Calculate** button.
- 4 Display the **General** tab: The counts are summarized here.
- 5 Display the **Results** tab: The counts are detailed here.

## 💋 Note:

You can create a counter for Project in the same way.

# 11 Glossary

This section proposes a glossary of terms used in software asset management.

💋 Note:

The terms do not appear in alphabetical order.

# Software installation/utilization

Software installations/utilizations are represented in the database by portfolio items.

When the software is physically installed on a computer, it can be declared as a component of the computer.

When the software does not require being physically installed, it can be associated with its user.

Utilization that is defined here should not be confused with *actual utilization* which reflects the frequency with which a software application is used.

# Software license

A software license is an asset that describes the user rights (number of possible installations, number of database accesses, etc).

For example: A license that grants 1000 accesses to an AssetCenter database. The contractual aspects of the license are described at the contract level.

# License right

The software counters count off license rights and compare them with counted installations/utilizations.

# Software counter

A software counter is used to reconcile a rights count with an installations/utilizations count.

These counts can be grouped together (by user, by cost center, etc.).

A counter enables you to:

- Verify compliance with a software provider,
- Verify compliance with internal policies.

Counters can easily be used to count other things than software.

# Named entitlements

Software counters count rights and installations/utilizations

For rights, it is often possible to use a simple query to identify the records to be used as the basis of the count (For example: All employees in the accounting department).

However, it is not always possible to define a simple query. (For example: When the records to be used do not have a common denominator).

In this case, we need to define a named entitlement in which the records to be selected are listed one by one.

# Normalization of inventoried models

Normalizing inventoried models consists of mapping software installation models from inventory databases to a limited number of software installation models in AssetCenter.

Doing this provides you with a simple and effective may of organizing and structuring software installations.

# ITIL

 $\label{eq:ITIL} \ensuremath{\text{ITIL}} (Information \ensuremath{\,\text{Technology}} \ensuremath{\,\text{Infrastructure Library}}) \ is \ an \ IT \ service \ management \ methodology.$ 

This methodology comprises a library of tried and tested best practices.

A number of organizations provides ITIL training and certification as well as consultancy services.

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# 12 References

# Navigation bar, menus and tabs

The following navigation bar links and menus of the Windows client are directly linked to the *Software assets* module:

Table 12.1. Navigation bar links,	menus and tabs in the Softwar	re assets module - list
-----------------------------------	-------------------------------	-------------------------

Menu and naviga- tion bar link	Table that the menu accesses (la- bel and SQL name)	Dedicated tabs, fields or links	Comments	Section of the guide to consult
File Activate modules	Does not apply.	Does not apply.	Enables you to activate or deac- tivate the Soft- ware assets mod- ule if your license file authorizes it.	Refer to the Tail- oring guide, part 1 Customizing client computers, chapter Customiz- ing a client work- station, section Activating the modules

Menu and naviga- tion bar link	Table that the menu accesses (la- bel and SQL name)	Dedicated tabs, Comments fields or links	s Section of the guide to consult
Portfolio/ Port- folio items menu Portfolio man- agement/ Port- folio items link	Portfolio items (amPortfolio)	<ul> <li>Software inst. tab</li> <li>Utilization tab</li> <li>License tab</li> </ul>	<ul> <li>Method 2: Using the menus [page 49]</li> <li>Method 2: Using the menus [page 50]</li> </ul>
Portfolio/ As- sets and batches menu Portfolio man- agement/ As- sets link	Assets (amAsset)	♦ License tab	
Portfolio/ Soft- ware installa- tions and utiliz- ations menu Portfolio man- agement/ IT/ Software install- ations link	Software installa- tions or utiliza- tions (amSoftIn- stall)	♦ All	Software installa- tions and utiliza- tions manage- ment [page 57]
Portfolio/ Natures menu Portfolio man- agement/ Natures link	Natures (am- Nature)	<ul> <li>Also create field (Over- flowTbl)</li> <li>Has soft- ware in- stalled field (bHasSoftIn- stall)</li> <li>License field (bSoftLi- cense)</li> </ul>	<ul> <li>Manually creating a software installation/utilization [page 64]</li> <li>Create a software license nature [page 47]</li> </ul>

Menu and naviga- tion bar link	Table that the menu accesses (la- bel and SQL name)	Dedicated tabs, fields or links	Comments	Section of the guide to consult
Portfolio/ Mod- els menu Portfolio man- agement/ Mod- els link	Models (amMod- el)	<ul> <li>Software inst. tab</li> <li>License tab</li> </ul>		<ul> <li>Manually creating a software installation/utilization/utilization [page 64]</li> <li>Method 2: Using the menus [page 48]</li> </ul>
Portfolio/ Named entitle- ments menu Organization/	Named entitle- ments (amEntitle- ment)	♦ All		Software entitle- ment manage- ment [page 53]
Named entitle- ments link Software/ Soft- ware asset management	Does not apply.	Does not apply.	Triggers the Manage Software wizard.	How to create re- cords [page 25]
menu Portfolio man- agement/ IT/ Licenses/ Man- age software link				
Software/ Dashboard menu Portfolio man- agement/ IT/ Licenses/ Soft- ware dash- board link	Does not apply.	Does not apply.	Displays a re- ports dashboard.	Method: Using the links on the navigation bar [page 95]

Menu and naviga- tion bar link	Table that the menu accesses (la- bel and SQL name)	Dedicated tabs, fields or links	Comments	Section of the guide to consult
Software/ Definitive Soft- ware library menu Portfolio man- agement/ IT/ Licenses/ Defin- itive Software Library link	Models (amMod- el)	♦ Software inst. tab	Displays the list of records in the <b>Models</b> table (amModel) linked to a nature whose <b>Also create</b> field (OverflowTbl) is set to Software installations or utilizations (am- SoftInstall).	
Portfolio man- agement/ IT/ Licenses/ In- ventoried soft- ware keys link	Inventoried mod- els (amInvent- Model)	♦ All		Result of the im- port in the Asset- Center database [page 59]
Software/ Res- ults of the soft- ware counters menu. Portfolio man- agement/ Res- ults of the soft- ware counters link	Software coun- ters (amSoftLic- Counter)	◆ All	Displays the list of all counters that are not mod- els, and also dis- plays the results of the selected counter. Can also be used to recalculate the counts, modify counters using wizards, and solve irregularit- ies between li- cense rights and installations/util- izations.	Updating the results of a software counter [page 86]
Software/ Soft- ware counters menu Portfolio man- agement/ Soft- ware counters link	Software coun- ters (amSoftLic- Counter)	♦ All		Method 3: Creat- ing a counter dir- ectly [page 81]

Menu and naviga- tion bar link	Table that the menu accesses (la- bel and SQL name)	Dedicated tabs, fields or links	Comments	Section of the guide to consult
Contracts/ Con- tracts menu	Contracts (am- Contract)	♦ Licenses tab		Method 2: Using the menus [page 34]
Contracts/Con- tracts link				[bage e 1]
Contracts/ Master leases menu	Contracts (am- Contract)	• Licenses tab		Method 2: Using the menus [page 34]
Portfolio man- agement/ IT/ Licenses/ Con- tracts link				
Tools/Actions/ Edit menu Administra- tion/Actions link	Actions (amAc- tion)	♦ All		Refer to the User interface guide, chapter Reference information, sec- tion Actions.
Tools/ Actions/ <name ac-<br="" of="">tion&gt; menu Multiple loca- tions on the nav- igation bar de- pending on the action's function- al domain.</name>	Does not apply.	Does not apply.	Proposes the ac- tions that are either non-contex- tual or whose contexts are act- ive. Enables you to trigger the selec- ted action.	Actions and wiz- ards [page 173]
Tools/ Custom- ize toolbar menu	Does not apply.	Does not apply.	Enables you to add icons to or drop icons from the toolbar ( <i>Port-</i> <i>folio</i> category).	Windows client toolbar icons [page 167]
Tools/ Report- ing/ Reports menu Administra- tion/ Report- ing/ Reports link	Reports (amReport)	♦ All	,	Reports and forms [page 180]

Menu and naviga- tion bar link	Table that the menu accesses (la- bel and SQL name)	Dedicated tabs, fields or links	Comments	Section of the guide to consult
Tools/ Report- ing/ Forms menu Administra- tion/ Report- ing/ Internal forms link	Forms (amForm)	♦ All		Reports and forms [page 180]
Administra- tion/List of screens menu	Does not apply.	Does not apply.	Enables you to access tables that are not accessible by the present menus. This task is re- served for the ad- ministrator. This is because these tables are not usually modified directly.	Refer to the User interface guide, chapter Record lists, chapter Us- ing lists.
Administra- tion/ Itemized lists menu Administra- tion/ System/ Itemized lists menu	Itemized lists (amItemizedList)	♦ All		Itemized lists [page 171]
Administra- tion/ Counters menu Administra- tion/ System/ Counters link	Counters (am- Counter)	♦ All		Counters [page 172]
Administra- tion/ Calcu- lated fields menu Administra- tion/ System/ Calculated fields link	Calculated fields (amCalcField)	♦ All		Calculated fields [page 172]

This table does not list the actions or reports included in the *Software assets* module and which can be found on the *Portfolio management/IT/Licenses* branch of the navigation bar.

# Windows client toolbar icons

No toolbar icons of the Windows client are specific to the *Software assets* module. For more information on customizing the toolbar, consult the *Tailoring* guide, part 1 *Customizing client computers*, chapter *Customizing a client workstation*, section *Customizing the toolbar*.

## Windows client interface options

There are no Windows client interface options specifically dedicated to the *Software assets* module.

For more information on configuring the interface options, consult the *Tailoring* guide, part 1 *Customizing client computers*, chapter *Customizing a client workstation*, section *General options*.

# Tables

The *Software assets* module uses numerous tables. The following tables are linked directly to the *Software assets* module:

#### Table 12.2. Tables in the Software assets module - list

Table label	SQL name of the table	Links on the navigation bar used to access the table	Section of the guide to consult
Generic tables			
Portfolio items	amPortfolio	Portfolio management/ Portfolio items	<ul> <li>Create a software license [page 48]</li> <li>Manually creating a software installa- tion/utilization [page 64]</li> </ul>

Table label	SQL name of the table	Links on the navigation bar used to access the table	Section of the guide to consult
Models	amModel	Portfolio management/ Models	<ul> <li>Create a software license model [page 48]</li> <li>Creating software installation/utiliza- tion model [page 64]</li> </ul>
Natures	amNature	Portfolio management/ Natures	<ul> <li>Create a software license nature [page 47]</li> <li>Creating a soft- ware installa- tion/utilization nature [page 63]</li> </ul>
Tables specific to softw		<u> </u>	<b>T</b> 1
Contracts	amContract	Contracts/ Contracts	License contract man- agement [page 33]
Named entitlements	amEntitlement	Organization/ Named entitlements	Create a named enti- tlement for a license [page 53]
Software counters	amSoftLicCounter	Portfolio management/ Software counters Administration / List of screens menu, Software counters (previous format) line	Monitoring license compliance of installa- tions [page 73]
Rights / Utilizations count	amRightsUsesCount	Administration / List of screens menu, Rights / Utilizations count line	Periodical cleaning [page 88]
Software installations or utilizations	amSoftInstall	Portfolio management/ Software installations	Software installations and utilizations man- agement [page 57]
Inventoried models	amInventModel	Portfolio management/ IT/ Licenses/ Inventor- ied software keys	Result of the import in the AssetCenter database [page 59]
Installations to create	amModelSoftInfo	Administration / List of screens menu, In- stallations to create line	

# Relationships between tables

The *Software assets* module uses numerous tables in the AssetCenter database. There are multitudes of 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: AssetCenter 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.

The practical cases used in this guide follow these recommendations.

#### Table 12.3. Interdependence of tables - table

Table (label and SQL name)	Tables to populate beforehand (label and SQL name)	Mandatory values	Automatically cre- ated records
Locations (am-			
Location)			
Departments and	Locations (amLocation)		
employees			
(amEmplDept)			
Contracts (am-	Employees and departments		
Contract)	(amEmplDept)		

Table (label and SQL name)	Tables to populate beforehand (label and SQL name)	Mandatory values	Automatically cre- ated records
Nature (am- Nature)		<b>Create</b> (sebasis): Portfolio item	
		Also create (seOverflowTbl): (No table)	
		Management constraint (seMgtCon- straint): Unique asset tag	
		License (bSoftLi- cense): Yes Create (sebasis): Portfolio item	_
		Also create (seOverflowTbl): Software installa- tions or utiliza- tions (amSoftIn- stall)	
		Management constraint (seMgtCon- straint): Free	
Models (amMod- el)	Nature (amNature)	,	
Portfolio items (amPortfolio)	Models (amModel)		<ul> <li>Asset (amAsset)</li> <li>Software installations or utilizations (amSoftInstall)</li> <li>Rights / Utilizations count (amRightsusesCount)</li> </ul>
Named entitle- ments (amEntitle- ment)	Departments and employees (amEmplDept)		
Queries (am- Query)			

Table (label and SQL name)	Tables to populate beforehand (label and SQL name)	Mandatory values	Automatically cre- ated records
Counters (am- Counter)	<ul> <li>Departments and employees (amEmplDept)</li> <li>Models (amModel)</li> <li>Queries (amQuery)</li> <li>Portfolio items (amPortfolio)</li> <li>Named entitlements (amEntitlement)</li> </ul>		Rights / Utiliza- tions count (am- Right- sUsesCount)

# Itemized lists

You can select the value of certain fields using an open or closed itemized list.

# To access the **Itemized lists** table (**amItemizedList**), use the **Administration/Itemized lists** menu.

The following table details the itemized lists specific to the  $Software \ assets$  module.

#### Table 12.4. Itemized lists - list

Table (label and SQL name)	Field populated using an itemized list (label and SQL name)	Itemized list identifier
Software coun-	Nature (Type)	amSLCountNature
ters (amSoftLic- Counter)		
Software installa-	Language (Language)	amLanguage
tions or utiliza-	Language (Language)	umbanguage
tions (amSoftIn-		
stall)		
Software installa-	Operating system (SoftOS)	amOS
tions or utiliza-		
tions (amSoftIn-		
stall)		
Software installa-	Status (Status)	amSoftInstStatus
tions or utiliza-		
tions (amSoftIn-		
stall)		
Contracts (am-	Nature (Nature)	amCntrNature
Contract)		
Contracts (am-	Status (Status)	amCntrStatus
Contract)		

For more information about itemized lists, consult the *Advanced use* guide, chapter *Itemized lists*.

# Calculated fields

The *Software assets* module uses numerous calculated fields. The following table details the calculated fields specific to the *Software assets* module.

#### Table 12.5. Calculated fields - list

Label of the calculated field	SQL name of the calculated field	Label and SQL name of the field that uses the calculated field	Utilization
Productivity software in- stallations count	sysSamOfficeInst	Portfolio items(amPort- folio)	Programming
Productivity software li- cense count	sysSamOfficeLic	Portfolio items (amPort- folio)	Programming
Utilization- points count	sysSamUses	Portfolio items (amPort- folio)	Programming
License- points count	sysSamLicences	Portfolio items (amPort- folio)	Programming

For more information about calculated fields, consult the *Advanced use* guide, *Calculated fields* chapter.

For more information about writing scripts, consult the *Advanced use* guide, chapter *Scripts*.

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

# Counters

The *Software assets* module does not use counters.

To access the **Counters** table (amCounter), select the **Administration/ System/ Counters** link on the navigation bar.

# Actions and wizards

The Software assets module uses actions to automate common tasks.

To access the **Actions** table (**amAction**), select the **Administration/ Actions** link on the navigation bar.

You can filter the actions linked to the *Portfolio* and *Software assets* modules by using a simple filter on one of the following fields:

- Domain (Domain)
- Nature (**Nature**)

The following actions are directly linked to the *Software assets* module:

Name of action	SQL name of the action	Type of action	Context of the action (SQL name of the table)	Section of the guide to consult
Create a	sysSamCreateSoft-	Wizard		Method 1: Create a
software	wareCounter			counter using the
license				Create a software li-
manage-				cense management
ment				counter (sysSamCre-
counter				ateSoftwareCounter)
				wizard [page 78]
Create a	sysSamSimpleSoft-	Wizard		Method 2: Create a
simple	CounterCreate			simple counter using
counter				the Create a simple
				counter wizard (sys-
				SamSimpleSoftCoun-
				terCreate) [page 80]
Calculate	BstSamCom-	Script		Main features of the
all soft-	puteAllLicAndInstall			Periodic verification of
ware in-				licenses workflow
stalla-				scheme [page 91]
tions				
Software	BstSamDashBoard	Dash-		Customizing the
dash-		board		dashboard [page 95]
board				

#### Table 12.6. Actions and wizards - list

Name of action	SQL name of the action	Type of action	Context of the action (SQL name of the table)	Section of the guide to consult
Mail to adminis- trator concern- ing li- censes overrun	BstSamLicenses_ex- ceeded	Mes- saging	amSoftLicCounter	Sending an automatic message in case of li- cense overrun [page 90]
Missing software assign- ment	BstSamMissingSoft- ware	Script	amComputer	Flagging software missing from the last computer inventory [page 62]
Mail to adminis- trator concern- ing unau- thorized installa- tion	BstSamUnauthinstall- ation_found	Mes- saging	amSoftInstall	Sending an automatic message when a unau- thorized installation occurs [page 66]
Add an ASP user	sysSamAd- dAspUsers2Cntr	Wizard		Adding a user to the current ASP contract [page 70]
Create a software license type (model)	sysSamCreateLicMod- el	Wizard		Create a software li- cense [page 48]
Create a software license model from in- stalla- tions	sysSamCreateLicMod- FromInst	Wizard		Create a software li- cense [page 48]
Create a new soft- ware li- cense	sysSamCreateLicpfi	Wizard		<ul> <li>Method 1: Using the Manage soft- ware wizard (sys- SamLauncher) [page 48]</li> <li>This starts the Create a new soft- ware license (sys- SamCreateLicpfi) wizard. [page 48]</li> </ul>

Name of action	SQL name of the action	Type of action	Context of the action (SQL name of the table)	Section of the guide to consult
Create a request on named entitle- ment	sysSamCreateReqFro- mEntitledTempl	Wizard		Method 1: Using the Manage software wiz- ard (sysSamLauncher) [page 50]
Create a	sysSamCreateSoftCon-	Wizard		Creating a license
software contract	tract			contract [page 33]
(Draft)				<ul> <li>Modifying a li- cense contract [page 43]</li> </ul>
Delete an	sysSam-	Wizard		Removing a user from
ASP	DelAspUsersFrom-			the current ASP con-
user	Cntr			tract [page 70]
Flag OEM in- stalla-	sysSamFlagOEMInst	Wizard		Flagging installations as OEM installations [page 69]
tions Select	sysSamGetEnv	Wizard		Selecting the current
your cur-	sysSamGetEnv	wizard		contract in the Man-
rent soft-				age software wizard
ware con-				(sysSamLauncher)
tract				[page 35]
Solve soft- ware com-	sysSamIdentifyIllegal- Install	Wizard		Processing irregularit- ies between installa- tions/utilizations and
pliancy is- sues				licenses [page 88]
Manage	sysSamLauncher	Wizard		How to create records
soft- ware	Systemillautorier	Wizaru		[page 25]
Prepare	sysSamLicensePro-	Wizard		<ul> <li>Create a software</li> </ul>
licenses	cess			license [page 48]
and soft-				<ul> <li>Method 1: Using</li> </ul>
ware in-				the Manage soft-
stalla-				ware wizard (sys-
tions				SamLauncher) [page 50]
Link in-	sysSamLinkIn-	Wizard		Link invoice lines to
voice	voices2Cntr			the current contract
lines to				[page 46]
the con-				
tract				

Name of	SQL name of the action	Type of	Context of the action	Section of the guide to
action		action	(SQL name of the table)	consult
Recalcu- late	sysSamReCalcCoun- ters	Wizard		Processing irregularit- ies between installa-
rights				tions/utilizations and
and in- stalla-				licenses [page 88]
stana- tions				
Reconcile	sysIvtReconcExtMod-	Wizard	amInventModel	Automatic mechanism
external	elWiz	,, izuru		triggered when a new
software				record is created in
license				the Inventoried mod-
models				els (amInventModel)
				table [page 61]
Request	sysSamReqCon-	Wizard		Requesting validation
contract	tractApproval			for the current con-
valida-				tract [page 41]
tion	EVE DEC MOD ACTOI	Contrat	om Turron 4 Modol	Automotio mochon
Propagate reconcili-	SYS_RES_MOD_ACT01	Script	amInventModel	Automatic mechan- isms triggered by the
ation of				import [page 61]
external				import [page 01]
model				
Modify	sysSamAd-	Wizard	amSoftLicCounter	Modifying software
the list of	dInst2Counter			counters [page 85]
installa-				-10
tion mod-				
els to take				
into ac-				
count	~		~ ~ ~ ~	
Modify	sysSamAd-	Wizard	amSoftLicCounter	Modifying software
the list of	dLic2Counter			counters [page 85]
license models to				
take into				
account				
Define or	sysSa-	Wizard	amSoftLicCounter	Modifying software
redefine	mAddScope2Counter	Wizaru	amooremeeounter	counters [page 85]
the				······································
counter's				
scope of				
applica-				
tion				
Request	sysSamCreateLicReq	Wizard		Request new software
software				licenses [page 50]
licenses	0 <b>D</b>			~
Assign	sysSamEntitleUserOr-	Wizard		Create a named enti-
soft-	Item			tlement for a license
ware				[page 53]

Name of action	SQL name of the action	Type of action	Context of the action (SQL name of the table)	Section of the guide to consult
Modify a	sysSamModifyLicpfi	Wizard		Modify a software li-
software				cense [page 49]
license				
Reconcile	sysSamNormalizeMod-	Wizard		Reconcile unknown
unknown	els			installations [page 68]
installa-				
tions with				
known				
software				
installa-				
tions				

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

For more information about writing scripts, consult the *Advanced use* guide, chapter *Scripts*.

For more information on using APIs, refer to the *Programmer's reference* guide. You can create new actions or customize some of the existing ones.

# Workflow

The Software assets module uses workflow schemes to handle certain procedures.

To access the **Workflow schemes** (amWfScheme) table, click the **Administration/ Workflows/ Workflow schemes** link on the navigation bar.

The following workflow schemes are directly linked to the *Software assets* module:

#### Table 12.7. Workflow - list

Name of the workflow scheme	Reference of the workflow scheme	Context of the workflow scheme (SQL name of the table)	Section of the guide to consult
No more li-	BST_SAM01	amSoftLicCounter	Sending an automatic
censes available			message in case of license overrun [page 90]
Periodic verification	BST_SAM02	amSoftLicCounter	Automate periodical calcu- lation of the software
of licenses			counters [page 91]

Name of the workflow scheme	Reference of the workflow scheme	Context of the workflow scheme (SQL name of the table)	Section of the guide to consult
Installation not author- ized	BST_SAM03	amSoftInstall	Sending an automatic message when a unauthor- ized installation occurs [page 66]
Detection of software missing from last scan	BST_SAM20	amComputer	Flagging software miss- ing from the last com- puter inventory [page 62]
Contract validation	sysSam_CNTR_APPR	amContract	Overview [page 36]
Normalize models: 'amInvent- Model' re- solved	sysIvtExtModelEnd	amInventModel	Automatic mechanism triggered when a new re- cord is created in the In- ventoried models (amIn- ventModel) table [page 61]
Normalize models: 'amInvent- Model' ad- ded	sysIvtExtModelNew	amInventModel	Automatic mechanism triggered when a new re- cord is created in the In- ventoried models (amIn- ventModel) table [page 61]
Normalize models: 'amPortfo- lio' modi- fied	sysIvtExtModelSync	amPortfolio	Automatic mechanism triggered when an exist- ing record of the Inventor- ied models table is linked to a software installation for the first time [page 62]

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

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

# AssetCenter Server modules

Certain AssetCenter Server modules are specific to the Software assets module.

To access the AssetCenter Server modules:

- 1 Launch AssetCenter Server.
- 2 Connect to your AssetCenter database.
- 3 Select the Tools/ Configure modules menu.

#### Table 12.8. AssetCenter Server module - list

Name of the module	Description
WkGrIddAcoupSYS_SAM	Execute workflow rules for execution group 'SYS_SAM'
EdAc	Update the database using Enterprise Discovery inventory results.

For more information about the AssetCenter Server modules, consult the *Administration* guide, chapter *AssetCenter Server*, section *Configuring the modules monitored by AssetCenter Server*.

# System data and Line-of-business data

AssetCenter is provided with a standard set of data.

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

- System data: Data required by the AssetCenter 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 areas.

• Sample data: Data that you can use to familiarize yourself with AssetCenter.

#### System data specific to the Software assets module

For the *Software assets* module, the *system data* package contains data for the following tables:

- Actions (amAction)
- Scripts (amScriptLibrary)
- Application options (amOption)

The system data is incorporated by default in the AssetCenter database.

#### Line-of-business data specific to the Software assets module

For the *Software assets* module, the *line-of-business data* package contains data for a number of tables. Here are some examples:

- Employee groups (amEmplGroup)
- Software counters (amSoftLicCounter)
- Actions (amAction)
- Workflow schemes (amWfScheme)
- Itemized list values (amItemListVal)
- Inventoried models (amInventModel)

- Reports (amReport)
- Dashboard item (amDashboardItem)

*Line-of-business data* is automatically included in the AssetCenter demonstration database.

The *line-of-business data* is included in your working database if you select this option with AssetCenter Database Administrator.

▶ Import the line-of-business into your existing database [page 30].

## Reports and forms

AssetCenter is provided with forms and reports. Certain of these forms and reports are specific to the *Software assets* module.

In order for these reports and forms to be available in your database, you must import them using AssetCenter Database Administrator.

#### Importing and identifying reports specific to the Software assets module

To find out how to import reports, refer to the Advanced use guide, chapter Crystal Reports, section Installing and using the reporting tool, sub-section Installing preconfigured Crystal Reports in your database.

To identify the reports specific to the *Software assets* module, refer to the *Advanced use* guide, chapter *Crystal Reports*, section *Identifying Crystal reports* specific to a given module.

#### Importing and identifying forms specific to the Software assets module

To find out how to import forms, refer to the *Advanced use* guide, chapter *Forms*, section *Installing preconfigured forms into your working database*.

To identify the forms specific to the *Software assets* module, refer to the *Advanced use* guide, chapter *Forms*, section *Identifying forms specific to a given module*.

### Background processes

For more information on the automatic background processes executed by AssetCenter, consult the *Database structure* guide. For each table discussed in this guide, you will find a *Background processes* section.

▶ Tables [page 167].

## API

Certain AssetCenter APIs are used in the *Software assets* module. To obtain the list and description of the *Software assets* module's APIs, consult the *Programmer's reference*.

## Views

There are no default views for the *Software assets* module. For more information on using views, refer to the *Tailoring* guide, part 1 *Customizing client computers*, chapter *Using views*.

# Other documentation

This guide only provides information directly related to the *Software assets* module.

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

#### Table 12.9. Other documentation - list

Document		ontents	Format	Location in the AssetCenter installa- tion folder
Installation and up-		Installation of As-	Printed	\doc\pdf\*InstallationAndUp-
grade		setCenter		grade*.pdf
			Online	\doc\chm\install.chm
Core tables	٥	Management of	Printed	\doc\pdf\CommonTables*.pdf
		locations and em-	Online	\doc\chm\commontables.chm
		ployees		
User Interface	\$	General interface	Printed	\doc\pdf\*UserInter-
		of the application		face*.pdf
			Online	\doc\chm\userinterface.chm
Portfolio	\$	Management of	Printed	\doc\pdf\*Portfolio*.pdf
		natures, models,	Online	\doc\chm\portfolio.chm
		portfolio items and		
		assets		

Document	Contents	Format	Location in the AssetCenter installa- tion folder
Administration	<ul><li>Use of wizards</li><li>Customization of</li></ul>	Printed	\doc\pdf\*Administra- tion*.pdf
	fields ■ Use of calculated fields	Online	\doc\chm\administration.chm
Advanced use	<ul> <li>Itemized-list management</li> <li>Creation of scripts</li> </ul>	Online	\doc\pdf\*AdvancedUse*.pdf \doc\chm\advanceduse.chm
Context-sensitive help for fields and links	<ul> <li>Use of database fields and links</li> </ul>	Online	<ul> <li>To access contextual help on a field or link:</li> <li>Select a field or link.</li> <li>Perform one of the following actions: <ul> <li>Right-click and select Help on this field from the shortcut menu.</li> <li>Press Shift and F1 simultaneously on the keyboard.</li> <li>Select the Help/Help on this field menu.</li> </ul> </li> </ul>
Programmer's refer- ence	♦ Use of APIs	Printed Online	<pre>\doc\pdf\*ProgrammersRefer- ence*.pdf \doc\progref.chm</pre>
Database structure	<ul> <li>List of the data- base's tables, fields, links and indexes</li> </ul>	Text file Online	<pre>doc\infos\database.txt     \infos\tables.txt     \doc\chm\dbstructure.chm</pre>
	• Automatic agents triggered by Asset- Center.		
General online help	<ul> <li>The functioning of the entire applica- tion</li> </ul>		<ul> <li>To access the online help, do one of the following:</li> <li>1 Press <i>F1</i> on the keyboard.</li> <li>2 Select the <b>Help/ Index</b> menu.</li> </ul>

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