HP Asset Manager

Software version: 5.10

Portfolio



Document Release Date: 06 June 2008 Software Release Date: June 2008

Legal Notices

Copyright Notices

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

Restricted Rights Legend

Confidential computer software.

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

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

Warranty

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

Nothing herein should be construed as constituting an additional warranty.

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

The information contained herein is subject to change without notice.

Trademark Notices

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

Table of Contents

Introduction	9
Who is the Portfolio module intended for?	10
Chapter 1. Overview	13
Three management types	13 14 16 19 21 23
Chapter 2. Portfolio items	25
Natures Models Portfolio item users Assets Batches Untracked batches Financial tracking of assets	25 27 29 30 34 38 40 44
Movements of portfolio items	44

Assets linked to a contract	48 49
Chapter 3. IT portfolio	55
Computers	55 66 67 74 85
Chapter 4. Telephones	89
Telephones and functions	89 90
Chapter 5. Business services	93
Client-resource relationships	93 94 98 102 104
Chapter 6. Work orders and projects	119
Work orders	119 124
Chapter 7. Adjusting items	125
Adjusting items and target items	125 127 129
Chapter 8. Glossary	135
Portfolio items	135 140
Index	141

List of Figures

1.1. Portfolio - Data model	16
1.2. Overflow tables - data models	19
5.1. Practical case - Functional representation of the "Asset Manager Web"	
business service	106
6.1. Work order - Full cycle	121

List of Tables

2.1. Portfolio - Examples of natures								26
6.1. Work order - The different statuses								121

Introduction

Who is the Portfolio module intended for?

The Portfolio module spans a wide range of uses, and thus can be used by nearly every department in a company.

For the most part, it is used by the following people:

- IS managers
- Stock managers
- Asset Manager deployment technicians
- Financial managers
- Purchasers
- Security managers
- General departments
- Cabling managers
- Network managers
- Telephony managers

The Portfolio module is the point of focus for Asset Manager's other module. This guide covers the general concepts of this module that will come in handy for a wide range of Asset Manager users.

What does the Portfolio module do?

The Portfolio module enables you to perform the following tasks:

- Keep a detailed, physical inventory of all the items composing your portfolio. For each item you can take into account its:
 - Description
 - User and manager
 - Geographic location
 - Cost center
- Precisely track the portfolio items using:
 - Individual tracking
 - Collective tracking (by batch)
 - Undifferentiated management

Managing these tasks enables you to:

- Describe each portfolio item (features, location, etc.)
- Track each portfolio item according to its constraints or requirements.
- Manage the portfolio items in a differentiated manner.
- Easily perform work orders on the portfolio items.
- Create projects necessitating the use of portfolio items.

How to use this guide

Chapter Overview

This chapter presents the different portfolio management styles proposed by Asset Manager. It also presents the tables that you must populate to structure your portfolio.

You should read this information to form a general idea of how Asset Manager functions.

Chapter Portfolio items

This chapter discusses what you need to do to manage your portfolio items. Read this chapter to familiarize yourself with the Portfolio module.

Chapter IT portfolio

This chapter explains how to manage your IT portfolio using the Portfolio module.

Read this chapter to familiarize yourself with how computers, computer connections and IT configurations are managed.

This chapter also deals with automatic computer inventory.

Chapter Telephones

This chapter explains how to manage telephones using the Portfolio module. Read this chapter if you want to manage your telephones with the Portfolio module. You can also associate certain functions with the buttons of the telephones.

Chapter Business services

This chapter explains how to manage business services using Asset Manager's Portfolio module.

Read this chapter to familiarize yourself with how business services and client-resource relationships that make up business services are managed.

Chapter Work orders and projects

This chapter explains how to perform work orders on your portfolio and how to include portfolio items in your projects.

Chapter Adjusting items

This chapter explains how to adjust the fields of your records.

To explain how adjusting items work, we created an example that you can reproduce in order to familiarize yourself with their functions.

Chapter Glossary

The terminology specific to the Portfolio module is specialized. The glossary contains the key terms that we use to describe the Portfolio module.

Read this chapter to understand these terms.

Overview

Asset Manager helps you manage the items in your company's portfolio. These items can be physical objects (computers, machines-tools, consumables, office supplies) or intangible objects (software installations).

Asset Manager lets you closely track portfolio items throughout their lifecycle. Different management types enable you to apply the most suitable form of management to items in your portfolio depending on their value and/or their use.

Three management types

Asset Manager offers you three management types that are suited to the value of items in your portfolio:

- Individualized management (by asset)
- Collective management (by batch)
- Undifferentiated management (by untracked batch)

What sets these three management types apart is the level of tracking applied to each one.

Whether or not you track an item in your portfolio depends on whether or not it has a record in the Assets table. All items with records in this table can be tracked according to their financial, technical and contractual information. The notion of untracked portfolio items refers to those items that do not have records in this table (untracked batches).

With Asset Manager, you can increase the level of tracking for your portfolio items. Example: You can transform an untracked batch to a tracked batch, which corresponds to a record in the Assets table.

Individualized management (by asset)

Assets are portfolio items of substantial value, and they are tracked individually in Asset Manager. In the case of a server, for example, Asset Manager can hold information about its location, supervisor, price, depreciation type, etc. All this information is specific to the asset. Technically, an asset in Asset Manager corresponds to a record in the Portfolio items table that is linked to a record in the Assets table.

Collective management (by batch)

Certain, identical portfolio items of lesser value can be tracked collectively as a batch. In this case, the Assets table holds information that helps you track the entire batch, and not individual items within the batch. This management mode avoids superfluous duplication of tracking information, such as the acquisition price. Technically, a batch in Asset Manager corresponds to one record in the Assets table and one or more records in the Portfolio items table. This is especially the case when a batch is divided, and the resulting batches are used by different departments.

Undifferentiated management (by untracked batch)

Certain portfolio items of little value, or consumables, are managed as untracked batches (pencils, ink cartridges). An untracked batch does not have a linked record in the Assets table. Most of the time, these items are indirectly tracked by default via items with which they are associated. You can transform a untracked batch into a tracked batch at any given time.

Main tables used in portfolio management

The main tables used in portfolio management are:

- The Models table (amModel) and the Natures table (amNature).
 These two tables are prerequisites for creating items in your portfolio.
 Portfolio items are based on a model, which in turn is based on a nature.
 The Models table enables you to organize your portfolio (▶ Portfolio items [page 25]).
- The Portfolio items table (amPortfolio)

All portfolio items are recorded in this table.

Click the **Portfolio management/ Portfolio items** link on the navigation bar to display the list of portfolio items.

By using the detail of an asset you can access the detail of a portfolio item. The Portfolio items table is linked to other tables, which enable you to put these items into context:

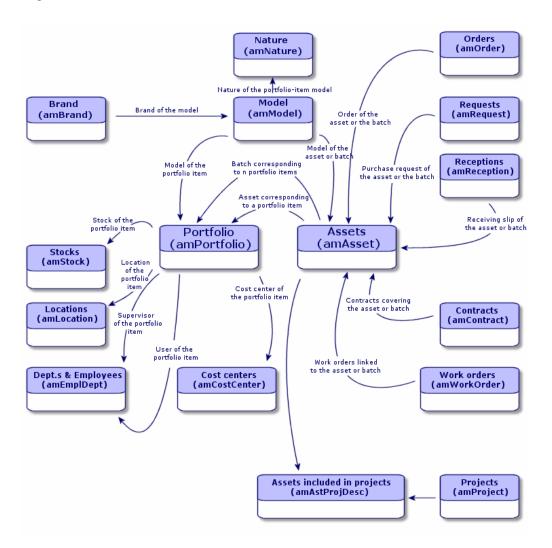
- The Employees and Departments table (amEmplDept) provides the items' users and supervisors.
- The Locations table (amLocation) provides their location.
- The Cost Centers table (amCostCenter) provides their related expense lines.

The Assets table:

Portfolio items with records in the Assets table can be tracked more closely, since, here, they are linked to their corresponding financial, technical and contractual information. This information is recorded in multiple tables with which the Assets table is linked. Among the most important of these tables are:

- The Contracts table (amContract)
- The Work Orders table (amWOrder)
- The table of assets assigned to projects (amAstProjDesc)
- The Requests table (amRequest)
- The Purchase Orders table (amPOrder)
- The Receipt Lines table (amReceiptLine)

Figure 1.1. Portfolio - Data model



Overflow tables

Certain portfolio items are very specific and thus necessitate the use of specific fields. Example: Managing and tracking computers requires that you store large amounts of information. Adding fields in the Portfolio items table to contain this specific information would:

- Slow down Asset Manager's performance.
- Be useless for many other items not needing such information specified.

A typical solution is to have specific tables to contain this information. For example: Any portfolio item corresponding to a computer is recorded in the Portfolio items table and then in a second table: the Computers table. However, this method makes the synchronization process very difficult, since you must constantly make sure that:

- The computers are recorded in both the Portfolio items table and the Computers table.
- The deletion of a computer from the portfolio automatically deletes the computer from the Computers table.
- Etc.

To avoid these synchronization problems, Asset Manager uses overflow tables. Each time you specify one or more overflow table for a portfolio-item record, this record is simultaneously created in the Portfolio items table and the overflow table: the Assets table and the Computers table, for example. Each creation or deletion of a record in one of these two tables is automatically carried over into the other tables, saving you precious time in the synchronization process.

The overflow tables enable you to more easily integrate Asset Manager with other applications. For example: Asset Manager provides out-of-the-box integration with different software distribution tools and stores all information required by this functionality. All this information is present in the Computers overflow table.

You can easily add new overflow tables. This expands Asset Manager's physical data model without you having to make large modifications to its database.

For further information, refer to the Administration guide, chapter Standard database description files.

Overview of the overflow tables

In order that a portfolio item be recorded in an overflow table, you need to specify this action in the nature of this item's model (A nature's creation criteria [page 21]).

Available overflow tables

The available overflow tables are the:

Assets table (amAsset)

This is the main overflow table in Asset Manager. The only portfolio items not recorded in this table are those defined as untracked batched. (Untracked batches [page 38]).



The overflow link (PortfolioItems) contained in this table enables the creation of batches and shares the foreign key.

This table enables you to store detailed information on assets:

- Purchase date
- Status
- Rent
- Acquisition method
- Fixed Asset number
- Etc.
- Computers table (amComputer)

This table is an overflow table of the Assets table: Creating a computer generates a record in the Portfolio Items table, the Assets table, and the Computers table.

In particular, it is used to store information relating to integration with software distribution tools:

- Software distribution identifier (SWDID)
- Telephones table (amPhone)

This table is an overflow table of the Assets table: Creating a telephone generates a record in the Portfolio Items table, the Assets table, and in the Telephones table.

It enables you to store information relating to telephony assets:

- Voice mail
- Extension
- Number
- Etc.
- Software installations table (amSoftInstal)

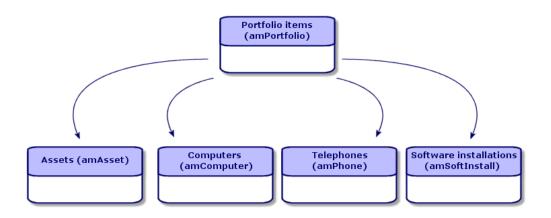
This is an overflow table stemming from the Portfolio items table: The creation of a software installation does not necessitate the creation of a record in the Assets table: The creation of a software installation generates a record in the Portfolio items table and a record in the Software installations table.

This table enables you to store information about your software installations.

- License number
- Certification
- Installation type
- Number of points consumed by each software installation (for Microsoft Select type licenses).

Etc.

Figure 1.2. Overflow tables - data models



Description and tracking of portfolio items

Asset Manager enables you to contextualize items in your portfolio.

Contextualization

One of the main goals in managing your portfolio is to be able to contextualize its items. Whether you manage a thousand items or a hundred thousand items, you can contextualize them with accuracy. Asset Manager provides the following contextual information for each item or batch of items:

- Its status.
- Its user and supervisor.
- Its location.
- Its cost center.
- All other linked items in the portfolio (associated assets, consumables, supplies).

By being able to precisely locate portfolio items and see how they are used, you

Efficiently monitor their movements (Example: assignment of a group of computers to another department).

- Evaluate the needs of each department (Example: calculate the ratio of photocopiers per department).
- Distribute new computer hardware evenly.
- Locate hardware given to a customer.
- Avoid allocating 2 identical assets to the same person (For instance: a consultant who uses several laptops).
- Rapidly reorganize cost centers related to portfolio items.
- Etc.

Tracking

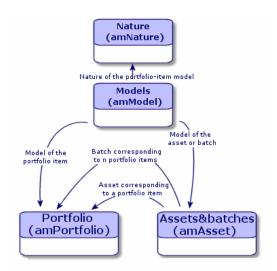
The tracking of portfolio items is fundamental. Asset Manager lets you choose whether to track portfolio items individually or by batch. For portfolio items that you don't consider worth tracking closely (office supplies or consumables), an undifferentiated tracking (by untracked batch) lets you simply contextualize them.

For each asset or batch, the tracking options enable you to:

- Create a fixed asset.
- Obtain linked requests, estimates, purchase orders and receiving slips when using the Procurement module.
- Obtain cost-related information.
- Obtain work order and project-related information.
- Look up its acquisition method (purchase, lease, rental, loan).

Nature: Creation and behavior

The organization of your portfolio depends on the organization of models, which are in turn based on natures. Therefore, you need to create the natures before creating the models.



The nature of a model determines different criteria that are inherited by the portfolio items and all other items based on the models in Asset Manager: Contracts, Trainings, Work orders, Cables, etc.

Each nature specifies the tables in which you can create records for the model linked to this nature. Example: A *Computer* nature enables you to create models that will in turn create computers in the Portfolio items table. In order for natures to enable you to create portfolio items, a second condition must be entered: the management constraint.

For each nature enabling you to create portfolio item models, you can also select behavior options. Example: For a *Computer* nature, the **Can be connected** option enables you to display tabs relating to connection ports.

A nature's creation criteria

For each nature, you must indicate the table in which the models based on this nature will be able to create records. Example: One nature enables you to create models of portfolio items; another nature enables you to create models of contracts; etc.

For the natures enabling you to create portfolio item models, you must indicate an overflow table: Computers table, Software installations table, Telephones table, or any table of your choice. Example: A nature enables you to create models for portfolio items and computers. In this case, creating a portfolio item based on this nature automatically creates a corresponding record in the Computers table. \triangleright Creating a nature for computers [page 55].

For further information, refer to the *Administration* guide, chapter *Standard* database description files.

Management constraint

The management constraints enable you to define the way in which you manage a portfolio item.

The management constraint is rendered by the use or absence of an asset tag. An asset tag conditions whether the portfolio item is linked to a record in the Assets table. There are three options for the management constraint:

- Unique asset tag
 - Portfolio items with their own asset tag are individually tracked assets. Using a unique asset tag is recommended for more important portfolio items that require close and constant tracking. Examples: A server, a machine tool, a photocopier.
- Unique or shared asset tag

Portfolio items sharing the same asset tag are grouped together in a batch and tracked collectively. Items in the same batch share the same asset tag. This management mode is recommended for identical items that do not need to be tracked individually. Example: A batch of 100 chairs; a batch of 20 hard hats.

Free

If this option is selected for the portfolio item, you are free to choose whether to give it an asset tag or not. Portfolio items without asset tags are those for which accurate tracking is not required. These items are grouped together in untracked batches and do not appear in the Assets table. Example: Office supplies of little value (pencils, erasers, paperclips) or consumables that are tracked indirectly through the items that consume them.

A nature's behavior criteria

Selecting one or more behavior option for the nature of an item conditions the availability of certain fields and tabs in the tables of these items. Example: Selecting **License** in the nature of a portfolio item enables the **License** tab to be displayed in the Models table. The following behavior options are available in Asset Manager:

Has software installed

- Can be connected
- Consumable
- Cable device
- License

Models: Organizing your portfolio

By creating models, you determine a number of features that the portfolio items inherit when you create them: name, brand, other technical features related to computers, etc.

Models are organized hierarchically: Generic models enable you to classify your models more precisely. The way in which you organize your models governs the way in which your portfolio will be organized.

2 Portfolio items

This chapter describes the procedures for managing portfolio items. These procedures concern how records are edited in the following tables:

- Natures (amNature)
- Models (amModel)
- Portfolio items (amPortfolio)
- Assets (amAsset)
- Computers (amComputer)
- Software installations (amSoftInstall)
- Telephones (amPhone)

Natures

Natures are required to create the models that you use to create the portfolio items. Because the nature governs the management constraints of the portfolio items, you must create as many natures as you require for a given type of portfolio item. Example: If you manage software as assets, batches and untracked assets, you must create three corresponding natures: Software, Software (batch), Software (untracked batch).

To display the list of natures, click the **Portfolio management/ Natures** link on the navigation bar.

Creating the nature for a portfolio item

To create the nature for a portfolio item:

- 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
- 2 Click **New**.
- 3 Enter a value in the **Name** field.
- 4 Modify the **Code** field, if required.

By default, the **Code** field uses the value of the **Name** field. This field enables you to enter a code to uniquely identify the record. It can be used as a reconciliation key between records in the Asset Manager and other applications when importing or exporting data.

- 5 Select Portfolio item in the Creates field.
- 6 Select **Telephone** or **Computer** in the **Also create** field if you want to create a nature that allows you to create models of telephones or computers.
- 7 Select a management constraint.
- 8 Select, if required, one of the options in the **Behavior** frame.
- 9 Click **Create** to confirm your creation.

Examples of natures

We recommend creating as many natures as there are models of portfolio items. The following table presents a non-exhaustive list of examples of natures.

Table 2.1. Portfolio	· Exampl	les of	f natures
----------------------	----------	--------	-----------

Name	Also create	Management constraint	Behavior		
General					
Asset	Nothing	Unique asset tag	No option		
Batch	Nothing	Asset tag	No option		
Untracked batch	Nothing	Free	No option		
Consumable	Nothing	Free	Consumable		
Raw material	Nothing	Asset tag	No option		
\overline{IT}					
Computer	Computer	Unique asset tag	 Has software in- stalled 		
			Can be connected		
Computers (batch)	Nothing	Asset tag	No option		
Software installation	Software installa-	Unique asset tag	No option		
	tions				
Software installations	Software installa-	Asset tag	No option		
(batch)	tions				

Name	Also create	Management constraint	Behavior
Software installations	Software installa-	Free	No option
(untracked batch)	tions		
License	Nothing	Unique asset tag	License
Licenses (batch)	Nothing	Asset tag	♦ License
Licenses (untracked	Nothing	Free	♦ License
batch)			
Standard configuration	Computer	Asset tag	Has software in- stalled
			Can be connected
Other			
Cable device	Nothing	Unique asset tag	 Cable device
Telephone	Telephone	Unique asset tag	No option

Models

Models, which are based on natures, enable you to organize your portfolio items. Depending on your requirements, models can go from very generic to very specific.

Example of organization of software models

The following example represents a way of organizing your software models:

- 1 All the software models are based on a nature that creates a portfolio item. The management constraint depends on the way you want to manage your software: individually, by batch or by untracked batch.
- 2 A generic **Software** model is created.
- 3 Sub-models enable you to classify software according to their use: Office automation, ERP, Project management, etc.
- 4 Other models are created for the Office Automation sub-model for specific applications: Word processor, Spreadsheet, DTP, File Management.
- 5 Models created at the bottom of the hierarchy correspond to specific models which can be used to create individual software items in the Portfolio items table: Software/Office Automation/Word processor/Microsoft Word 2000.

To display the list of models, click the **Portfolio management/ Models** link on the navigation bar.

Creating a portfolio item model

To create a model:

- 1 Click **New**.
- 2 Enter a value in the **Nature** field of the **General** tab.

- 3 Enter a value in the **Name** field.
- 4 Enter a parent model in the **Sub-model of** field.

Example: When creating the **Office Automation** model, enter **Software** in the **Sub-model of** field.

- 5 Enter a value in the **Brand** field in the case of a specific model.
 - Example: When creating the **Word 2000** model, enter **Microsoft** in the **Brand** field.
- 6 In the case of a batch, select the unit used.
- 7 Select **Certified** if the model created can be used in a purchase request. If necessary, enter a date and a certification level.
- 8 Click **Create** to confirm your creation.
- 9 Populate the different tabs according to the features that the items in your portfolio have inherited from the created model.

Units used in batches

You sometimes need to specify a unit of measure when you create a model for a batch of items. Example: Let's say you create a model for a batch that contains sand. You want to use the unit of measure *Ton*, for example.

To create units, you need to have already created reference units for each of the dimensions that you use in your portfolio. Here are some examples of dimensions: Temperature, Measure, Mass. After having created reference units, you can create an unlimited number of other units whose coefficients of conversion with the reference unit need to be specified. Example: For the Mass dimension, you create the reference unit Kilogram and the unit Ton whose conversion coefficient is $1000 \ (1000 \ kg = 1 \ ton)$.

The unit selected in the model of a portfolio item appears in symbolic form after the **Quantity** field in the Portfolio items table and Assets table.

Creating a reference unit

To create a reference unit:

- 1 Display the units (**Administration / System/ Units** link on the navigation bar).
- 2 Click New.
- 3 Populate the **Name**, **Dimension** and **Symbol** fields. (Example: Kilogram, Mass, Kg.)
- 4 Enter 1 in the Conv. coeff. field.
- 5 Click **Create** to confirm your creation.

Creating units

To create a unit:

- 1 Display the units (Administration / System/ Units link on the navigation bar).
- 2 Click **New**.
- 3 Populate the Name, Dimension and Symbol fields. (Example: Pound, Mass. Lb.)
 - Once you have chosen your dimension, the reference unit symbol of this dimension appears in the field next to the **Conv. coeff.** field.
- 4 In the **Conv. coeff.** field, enter the number that converts the reference unit into the created unit. Example: For the pound, you would enter 0.454. (One pound equals 0.454 kilograms.)
- 5 Click **Create** to validate.

Viewing units



This operation can only be done using the Windows client.

For ease of use, we recommend customizing the units screen and creating a virtual hierarchy.

You can, for example, group the information by the dimensions of units:

- 1 Display the units (Administration / System/ Units link on the navigation bar).
- 2 Right-click the **Dimension** field.
- 3 Select **Group by this field** from the shortcut menu. The list is sorted by dimension, each dimension defining a level in the hierarchy.

Portfolio item users

For each portfolio item, you need to choose between 2 modes of user management

- Assign a single user
- Assign a principal user and secondary users

Assign a single user

1 Display portfolio item detail.

- 2 Go to the **General** tab.
- 3 Uncheck the shared portfolio item box (bUsers).
- 4 Populate the **User** link (User).

Assign a principal user and secondary users

- 1 Display portfolio item detail.
- 2 Go to the **General** tab.
- 3 Check the **Shared portfolio item** box (bUsers).
- 4 Populate the **User** link (User).



This link plays a key role, as certain processes are based on this link and not on the **Users** link (Users) in the **Users** tab.

For example, the default requester of a deployment work order is determined by the **User** (User) link.

- 5 Go to the **Users** tab.
- 6 Add secondary users



It can be useful to add the user who has been selected at the level of the **User** (User) link.

Values in the User link are not automatically updated in the Users link.

Find all portfolio item users

When searching for all portfolio item users (filter or request, by example), think of referring to the following links

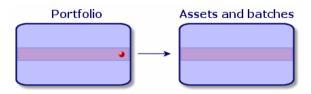
- User (User)
- Users (Users)

Assets

In Asset Manager, an asset corresponds to a portfolio item whose nature has the management constraint: Unique asset tag (

Management constraint [page 22]). The Unique-asset-tag management constraint means an asset will

be managed individually (individual management). In the database, an asset is represented by a record in the Assets table and a record in the Portfolio items table.





For each record in the Assets table, you can select the Portfolio tab to consult the detail of the corresponding portfolio item.

To display the list of assets, click the **Portfolio management/ Assets** link on the navigation bar.

Creating an asset

To create an asset:

- 1 Display the assets (**Portfolio management/ Assets** link on the navigation bar).
- 2 Click **New**.

In the **General** tab, an asset tag is assigned to a new record.

3 Select a model in the **Model** field.

The model of an asset must rely on a nature whose management constraint is **Unique asset tag** (▶ Management constraint [page 22]).

If the selected model has a prefix, this prefix appears in front of the asset's asset tag.

- 4 Click **Create** to confirm your creation.
- 5 Populate the tabs according to the different tracking information that is available for that asset.

Other than the **General**, **Portfolio** and **Project** tabs, the tabs available for the Assets table concern different domains of tracking:

- Financial domain
 - Costs
 - Acquisition
 - Fixed assets

- ▶ Financial tracking of assets [page 40].
- IT domain
 - License
 - Connections
 - Port
 - ▶ IT portfolio [page 55].
- Contractual domain
 - Contracts
 - Maint. (maintenance)
 - ▶ Assets linked to a contract [page 48] and the *Contracts* guide.
- Cabling domain
 - Slots
 - Pins/Terminals
 - Traces
 - Ports
 - ▶ Cable guide.

Portfolio items associated with an asset

An asset is the only item in the portfolio that can be associated with other portfolio items. The portfolio items associated with other items can be divided into:

Consumables

Consumables are the portfolio items whose model is based on a nature for which the option **Consumables** has been selected.

For more information about behavior options, refer to section Nature: Creation and behavior [page 21].

Software installations

Software installations are portfolio items whose model is based on a nature for which the option **Software installation** has been selected (in the **Also create** field (seOverflowTbl)).

- ▶ Software assets guide.
- Licenses

Licenses are the portfolio items whose model is based on a nature for which the **License** option is selected.

▶ Software assets guide.

Associating portfolio items to an asset

To associate portfolio items with an asset, several methods are available depending on the following criteria:

- The portfolio item already exists in the database.
- The portfolio item must be created on the fly when associated to an asset.
- The portfolio item is a batch in stock, and you want to associate some of the batch to an asset.

To filter by nature the portfolio items associated with an asset (consumables, licenses, installations), select one of the options displayed by default to the left of the list of items associated to an asset.

To filter by date of association the portfolio items associated with an asset, enter values in the **To** and **From** fields.

To associate an existing portfolio item to an asset

- 1 Display the portfolio items (Portfolio management/ Portfolio items link on the navigation bar).
- 2 Select the portfolio item that you want to associate with your asset.
- 3 Select the asset using the **Component of** link (Parent).
- 4 Click Modify.

To associate an asset with a portfolio item on the fly

- 1 Display the assets (**Portfolio management/ Assets** link on the navigation bar).
- 2 Select the asset with which you want to associate the portfolio item.
- 3 Select the Components sub-tab in the Portfolio tab.
- 4 Click
- 5 Create the portfolio item that you are associating to your asset.
- 6 Click Add.

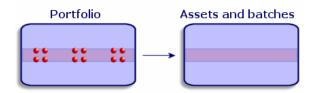
To associate an asset to certain items of a batch in stock

- 1 Display the portfolio items (Portfolio management/ Portfolio items link on the navigation bar).
- 2 Select the asset with which you want to associate a portfolio item from a batch in stock.
- 3 Click Stock.
- 4 Wait until the **Add an item from stock** wizard appears.
- 5 In the **Select an item from stock** page, select the batch that you want to associate with your asset.
- 6 Click **Next**.

- 7 In the **Quantity** page, select the number of items from your batch to associate with your asset.
 - You can also populate the other fields on this page if you wish.
- 8 Click Finish.

Batches

In Asset Manager, a batch corresponds to a portfolio item whose nature has the management constraint: Asset tag (Management constraint [page 22]). The Asset-tag management constraint means that an item will be managed collectively instead of individually (unique Asset tag). The batches contain identical items whose quantity is indicated. Example: a batch of 1000 safety helmets. These batches can be composed either of countable items (keyboards, bags of cement, etc.) or uncountable items (cement, sand, kerosene, etc.). For uncountable items, a unit of measurement is used: kilogram, ton, liter, meter, etc. When you create a batch, a double-record is created: one in the Portfolio items table and one in the Assets table.





For each batch record in the Assets table, you can select the Portfolio tab to consult the detail of the corresponding portfolio item.

No matter how many divisions exist for a batch, each of these divisions in the Portfolio items table all correspond to the same, single record in the Assets table (Dividing a batch [page 36]).

To display the list of assets, click the **Portfolio management/ Assets** link on the navigation bar.

Creating a batch

To create a batch:

- 1 Display the assets (**Portfolio management/ Assets** link on the navigation bar).
- 2 Click **New**.

In the **General** tab, an asset tag is assigned to this new record.

3 Select a model in the **Model** field.

The model of an asset must rely on a nature whose management constraint is **Asset tag**. (▶ Management constraint [page 22]).

If the selected model has a prefix, this prefix appears in front of the batch's asset tag.

4 Specify the quantity in your batch.

You must choose the batch's reference unit of measurement in the model used to define your batch (Units used in batches [page 28]).

- 5 Click **Create** to confirm your creation.
- 6 Populate the tabs according to the different tracking information that is available for that batch.

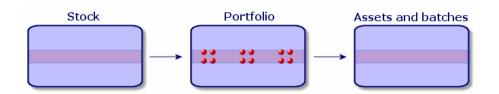
Other than the **General**, **Portfolio** and **Project** tabs, the tabs available for the Assets and batches table concern different domains of tracking:

- Financial domain
 - Costs
 - Acquisition
 - Fixed assets
 - ▶ Financial tracking of assets [page 40]
- IT domain
 - License
 - Connections
 - Port
 - ▶ IT portfolio [page 55].
- Contractual domain
 - Contracts
 - Maint. (maintenance)
 - ▶ Assets linked to a contract [page 48] and the *Contracts* guide.
- Cabling domain
 - Slots
 - Pins/Terminals
 - Traces
 - Ports
 - ▶ Cable guide.

Dividing a batch

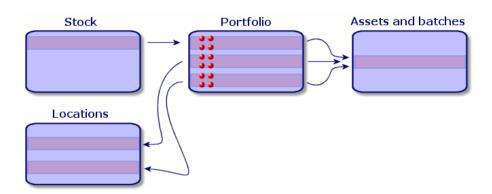
Dividing a batch enables you to create, from the initial record in the Assets table, several records in the Portfolio items table that are associated with that initial record. Each of these records corresponds to the batch obtained from dividing the record of the initial batch.

For example: Let's say you receive a batch of 12 chairs in stock. You create a record in the Assets table for these chairs. In the database, a record is created in the Assets table and in the Portfolio items table. This batch is put in stock.



Next, let's say you divide this batch into three batches of 4 chairs. One batch of 4 stays in stock and the other two batches of 4 go to two different locations in your company. In this case, the record corresponding to the batch is identical to the one in the Assets table, but it is henceforth linked to three records in the Portfolio items table, corresponding to:

- A batch of 4 chairs still in stock.
- A batch of 4 chairs linked to the first location.
- A batch of 4 chairs linked to the second location.



Dividing a batch

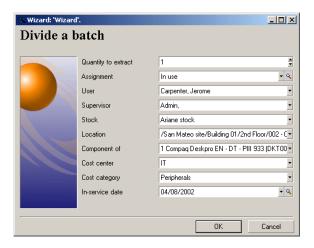
There are two ways to divide a batch:

- Using a Divide a batch wizard.
- Creating several links from the Assets table to the Portfolio items table.

Using the **Divide a batch** wizard

To use the **Divide a batch** wizard:

- 1 Display the list of portfolio items.
- Select the batch that you want to divide.
- Click **Divide**
- 4 Wait for the first page of the **Divide a batch** wizard to appear.



- Enter the number of items of the new batch in the Quantity to extract field.
- 6 Enter the new data that will enable you to contextualize the new batch: locations, users, managers, etc.
- 7 Click Finish

In the Portfolio items table, the number of items contained in the new batch is subtracted from divided batch. The new batch then appears as a new record in the Portfolio items table.

Creating several links to the Portfolio items table from the Assets table

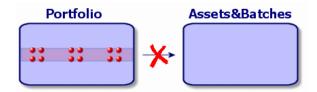
To create several links to the Portfolio items table from the Assets table:

- 1 Display the list of assets.
- 2 Select a record corresponding to a batch.
- 3 Go to the **Portfolio** tab and add a link toward the Portfolio items table. Windows client: Once a record from the Assets and batches table is linked to several records in the Portfolio items table, we recommend that you display these links in list form. (Go to the Portfolio tab, right-click and select List **only** from the shortcut menu that appears.)

Untracked batches

In Asset Manager, an untracked batch corresponds to a portfolio item that uses a nature whose management constraint is free. (Management constraint [page 22]). This management constraint corresponds to the undifferentiated management type.

An untracked batch only appears in the Portfolio items table, which enables it to be contextualized: It is linked to a location, a user, a manager, a cost center. The absence of an untracked batch in the Assets table means that it doesn't contain financial, technical or contractual information. Untracked batches are reserved for items of little value (office supplies, for example) or consumables. In fact, consumables can be tracked indirectly by managing the portfolio items that consume them.



Click the **Portfolio management/ Portfolio items** link on the navigation bar to display the list of portfolio items.

Creating an untracked batch

To create an untracked batch:

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Click **New**.

A code is assigned to this new record.

- 3 Select a model in the **Model** field.
- 4 Specify the quantity in your untracked batch.

 You must choose the batch's reference unit of measurement in the model used to define your batch. (▶ Units used in batches [page 28])
- 5 Click **Create** to confirm your creation.
- 6 Populate the tabs according to the different contextual information that is available for that batch. (▶ Contextualizing portfolio items [page 45])

Consumables

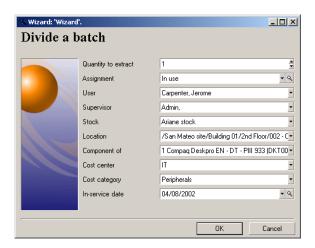
Consumables are portfolio items that, once they are associated with an asset, can no longer be disassociated from it. Consumables are created from models whose nature has a **Free** management constraint. The **Consumable** behavior option must also be selected. (Management constraint [page 22])

▶ Portfolio items associated with an asset [page 32]

Dividing an untracked batch

To divide an untracked batch:

- 1 Display the list of portfolio items.
- Select the batch that you want to split up.
- Click **Divide**.
- 4 Wait until the **Divide the batch** wizard appears.



- 5 Enter the number of items in the new batch into the Quantity to extract field.
- 6 Enter the new data that will enable you to contextualize the new batch: location, user, supervisor, etc.
- 7 Click Finish.

In the Portfolio items table, the number of items contained in the new batch is subtracted from divided batch. The new batch then appears as a new record in the Portfolio items table.

Transforming an untracked batch into a tracked batch

You might need to change an untracked batch into a tracked batch for a variety of reasons. Example: You need to link a batch of desks, which you use for several offices, to different projects. To do this, this batch must correspond to a record in the Assets table.

To transform an untracked batch:

- 1 Display the list of portfolio items.
- 2 Select the untracked batch.
- 3 Click Taa.

This action creates a record corresponding to that batch in the Assets and batches table. The tag assigned to the batch's record is actually an asset tag, which is one of the features of the records located in the Assets table.

Financial tracking of assets

Financially tracking assets enables you to:

- Describe their mode of acquisition. Was the messaging server purchased, rented or borrowed?
- Log the expenses resulting from them. How many times did we need to order batches of 50 reams of paper for the photocopier in the documentation department?
- Describe their fixed-asset accounting information.

What type of depreciation method has been chosen for company vehicles?

To consult or modify financial information, you must display the list of assets and select one of the three following tabs:

- **Acquis.** (Acquisition)
- Costs
- Fixed assets



In this section, Assets covers both assets and batches, which have similar-type records in the Assets table.

Asset-acquisition information

The **Acquis.** tab enables you to view the main information on how an asset was acquired. Most of this information is organized into sub-tabs.

Acquisition method

Asset Manager manages four acquisition methods for assets:

- Purchase
- Rental
- Lease
- Loan

The acquisition method you choose determines the information displayed:

- Certain tabs in the asset detail.
- Certain fields in the **Acquis.** tab.
- Certain sub-tabs in the **Acquis.** tab.

An asset's acquisition method (SQL name: seAcquMethod) is Purchase by default. The other acquisition methods available are the following: Rental, Lease, Loan.

Contracts related to asset acquisition

No matter what acquisition method you select, you can always link a contract to the acquisition from the **Procurement** sub-tab. The selected contract then appears in the **Contracts** tab of the asset detail.



Warning:

If you confirm your selection of a contract, the **Acq. method** (SQL name: seAcquMethod) is modified automatically to indicate the financing mode specified in the **Default acquisition method for assets** field (SQL name: seAcquMethod), in the **General** tab of the contract detail.

Companies related to the acquisition of an asset or batch

In the **Procurement** sub-tab, you can select:

- A **Lessor** (SQL name: Lessor) for rented or leased assets.
- A **Lessor** for assets on loan.

Additional rent description sub-tabs

Whatever acquisition method you select, it is possible to add rent description sub-tabs in the **Acquis.** tab. To add a sub-tab, right-click the sub-tab zone and select Add linked record.

We use rent in the broadest possible sense of the word: It can be taken to mean any sum to be paid periodically for an asset such as insurance premiums, maintenance contract payments, etc.

These sub-tabs are similar to lease-rent description sub-tabs.

Costs of an asset

The **Costs** tab in an asset detail displays the expense lines associated with that asset.

Specific filters are located at the top of the list.

The button lets you total the costs displayed in the list after filtering.

Fixed-asset information

This section describes the following points:

- Describing fixed assets.
- How to associate fixed-asset accounting information with assets.

Describing fixed assets

Describing and calculating the depreciation of an asset

The information concerning the depreciation of an asset appears in the **Fixed Asset** tab of an asset's detail.

This tab only appears if you set the **Acq. method** field (SQL name: seAcquMethod) in the **Acquis.** tab to **Purchase**.

There are two kinds of information contained in this tab:

- In the left-hand frame, there is information (fields and links) used for calculating the depreciation and residual value of an asset.
- In the right-hand frame, there is information (records) from the **Fixed assets** table (SQL name: amFixedAsset) associated with the asset after it is imported into Asset Manager.

The depreciation calculation formulas are defined in the **Depreciation** calculation formulas table (SQL name: amDeprScheme).

You can select the calculation formula used for the asset via the **Depreciation type** link (SQL name: DeprScheme) in the left-hand frame of the tab.

Defining the depreciation calculation formulas

To define a depreciation calculation formula:

- In an asset detail:
 - 1 Go to the **Fixed Asset** tab.
 - 2 Click the (Windows client) or (Web client) button to the right of the **Depreciation type** (DeprScheme) field.
- Or via the **Administration/List of screens** menu, which opens a window:



This operation can only be done using the Windows client.

- 1 Select List of depreciation types (SQL name: amDeprScheme).
- 2 Click **New**.
- 3 Populate the **General** tab.
- 4 Create a calculation script in the **Script** tab.

The objective of the script is to calculate the depreciation values using the following fields:

- In the Depreciation calculation formulas table:
 - **Duration** field (SQL name: tsDeprDur)
 - Coefficient field (SQL name: fCoeff)
 - **Rate** field (SQL name: pRate).
- In the **Assets** table (SQL name:amAsset):
 - **Start date** field (SQL name: dStartAcqu)
 - **Depreciation basis** field (SQL name: mDeprBasis)
 - **Estimation date** field (SQL name: dDeprRecalc)

The amount obtained must modify the value of the **Depreciation** field (SQL name: mDeprVal).



The **Residual value** field (SQL name: mNetValue) is automatically recalculated by Asset Manager when the **Depreciation basis** and/or **Depreciation** fields are modified.

Simplified example of a calculation script describing a straight-line depreciation:

```
Dim iNbOfDays As Integer
iNbOfDays = amDateDiff([dDeprRecalc],[dStartAcqu])
If (iNbOfDays <= 0) Or ([DeprScheme.tsDeprDur] <= 0) Then
Set [mDeprVal] = 0
ElseIf (iNbOfDays >= [DeprScheme.tsDeprDur]) Then
Set [mDeprVal] = [mDeprBasis]
Else
Set [mDeprVal] = [mDeprBasis] * iNbOfDays / [DeprScheme.tsDeprDur]
Set [dDeprRecalc] = amDate -> Set [dDeprRecalc] = amDate()
```

Asset Manager uses an automatic mechanism to recalculate the value of the **Depreciation** field if the reference fields are modified.

Estimating depreciation for a group of assets

In some cases, you might want to update the value of the **Depreciation** field on a given date for a selection of assets. To do this, you simply need to modify the value of the **Estimation date** field after having selected the assets to be updated together.

You can also create a **Script Type** action (SQL name: seActionType) to perform this task. Its script will resemble:

```
Set [dDeprRecalc] = amDate
```

Asset Manager will then use an automatic default mechanism to update the **Depreciation** field.

You can even create a workflow that triggers the above action on a periodical basis for a group of assets.

How to associate fixed-asset accounting information with assets

Two methods are available:

From the asset detail

- 1 Click the **Fixed Asset** tab.
- 2 Add or remove fixed assets associated with the asset.

You can also display the list of fixed assets in another window, select the fixed asset to be associated with the asset, and drag it into the list in the asset's **Fixed asset** tab.

From the fixed asset detail

- 1 Click the **Assets** tab.
- 2 Add or remove assets associated with the fixed asset.

You can also display the list of fixed assets in another window, select the fixed asset to be associated with the asset, and drag it into the list in the fixed asset's **Asset** tab.

Movements of portfolio items

The Portfolio items table enables you to monitor the movements of portfolio items.

For each selected item, you have contextual information. Other operations in Asset Manager are reflected in the Portfolio items table. Example: If a photocopier is reassigned to another department in the Employees and Departments table, you simply need to consult the record in the Portfolio items

table in order to see that this change has been made. The Portfolio items table also helps you find out who has reserved items that are on order but not yet received.

In the Portfolio items table, two tabs enable you to monitor movements of portfolio items:

- The **General** tab enables you to monitor the physical movements of portfolio
- The **Reservation** tab enables you to reserve unassigned items.

Contextualizing portfolio items

The following fields in the **General** tab of the Portfolio items table enable you to contextualize each item by associating them with:

- A particular assignment.
- The dates they were put into production and inventoried.
- A user.
- A manager.
- A location, or a stock if the item is not yet assigned.
- A cost center.

If the contextual information given by default is insufficient, you can add as many fields and features as necessary. To add features, refer to the chapter 'Features tables' in the "Cross-functional tables" guide and the chapter "Customizing the database" in the Asset Manager Administration Guide.

In the Portfolio items table, you can also divide a batch. The Dividing a batch [page 36] wizard enables you to assign a batch a new location, a new department, a new cost center, etc. Each batch created using the Dividing a batch [page 36] wizard stays linked to the same record in the Assets table. This enables you to track together items that have different contextual information.

▶ Batches [page 34]

Reserving portfolio items

An item can only be reserved if the **Assignment** field (SQL name: seAssignment) in the General tab of the detail of the item is set to In stock or Awaiting receipt.

Several methods are available for reserving portfolio items.

From the portfolio item detail

To reserve a portfolio item:

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Specify the request line of the selected portfolio item.
- 3 Display the **Reservation** tab of the detail of the portfolio item you want to reserve.
- 4 Specify the reservation start and end dates as well as the person who reserved the asset.

To delete a reservation, modify the value of the **Assignment** field, or delete the values of the fields relative to the reservation.

From a purchase request

A purchase request may include:

- Items to be ordered that do not yet exist in the Portfolio items table.
- Items to be reserved via the purchase request. These items have already been created in the Portfolio items table, and they meet the conditions defined above.

To reserve a portfolio item via a purchase request:

- 1 Display the purchase request detail.
- 2 Display the detail of the request composition by clicking **Compo.**.
- 3 Go to the **Reservations** tab.
- 4 Click **□**
- 5 The displayed window lists portfolio items whose **Assignment** field (SQL name: seAssignment) indicates **In stock** or **Awaiting delivery**.
- 6 If there are portfolio items corresponding to these criteria in the database, select them, then click **Select** to reserve them. Otherwise, click **New** to create new portfolio items. The **Assignment** of the portfolio items that you create should show **In stock** or **Awaiting delivery**. Populate the necessary fields, then click **Add** to create the portfolio item, then **Select** to reserve it.
- 7 Validate the reservation by clicking **Modify** in the detail of the request composition, then in the request detail.
- 8 You can also populate the **End date** (SQL name: dReservEnd) field of the asset detail. To do so, click the button in the **Reservations** tab in the detail of the request composition.

To delete a reservation made through a request:

- 1 Select the reservation from the list in the **Reservations** tab of the request composition detail.
- 2 Click to delete the reservation.

Impact on stock management

Reserving a portfolio item affects the management of the stock for that portfolio item: Reserved portfolio items are no longer counted when stock levels are checked (▶ Creating stock rules [page 50]).



The stock to which a reserved portfolio item is assigned is indicated in the **Stock** field (SQL name: Stock) in the **General** tab of the portfolio item detail.

Managing the end of a portfolio item's life

When a portfolio item is no longer used (written off, destroyed, stolen, sold, etc.), you may want to leave it in the database and just modify its description to take into account its new status.

To show that a portfolio item is no longer used:

- Select the item that is no longer used.
- 2 On the **General** tab, set the **Assignment** field (SQL name: seAssignment) to Retired (or consumed).
- 3 If necessary, unlink the item from its parent item by clearing the **Component of (SQL name: Parent) field.**
- 4 In the case of an asset or a tracked batch, update the **Fixed Asset**, Contracts, Maint., Acquis., Connections and Projects tabs in the Assets table.



When the record of a portfolio item is destroyed, all information concerning this item is lost for good. We recommend simply retiring items that are no longer used but for which information needs to be kept.

Return a portfolio item to a supplier

If a portfolio item was delivered and accepted, but there is a problem (for example, the portfolio item is damaged):

- 1 Select the portfolio in question.
- Set the **Assignment** field (SQL name: seAssignment) to Return to supplier.

This status is temporary as how the portfolio item will be handled is currently unknown:

If the portfolio item is repaired and recovered: set the **Assignment** field to In use.

The portfolio item's identifiers (**Asset tag** field) remain unchanged.

- If the portfolio item is replaced by another portfolio item: Set the Assignment field to Retired (or consumed) and create the new portfolio item (with new identifiers).
- If the portfolio item is taken back by the supplier: Set the **Assignment** field to *Retired (or consumed)*.

Entrust temporarily the portfolio item to a third-party company

If a portfolio item has been temporarily entrusted to a third-party company for repair, preventive maintenance or to be updated:

- 1 Select the portfolio in question.
- 2 Set the **Assignment** field (SQL name: seAssignment) to *Return for maintenance*.

The portfolio item should be returned to the portfolio at a later date.

Set a portfolio item as missing

If a portfolio item cannot be found:

- 1 Select the portfolio in question.
- 2 Set the **Assignment** field (SQL name: seAssignment) to *Missing*.

It is recommended that you select this value for a software installation whose **Inventory date** (dtInvent) field value is previous to the computer's **Last software scan** (dtSoftScan) field value.

Assets linked to a contract

You can associate an asset with one or more contracts.

These associated contracts can be viewed in two of the tabs in the Asset's table: **Contracts** and **Acquis**.



In this section, *Assets* covers both assets and batches, which have similar records in the Assets table.

The Contracts tab

The **Contracts** tab presents the list of all the contracts associated with the asset.

A specific filter is located at the top of the tab.

This filter enables you to view the contracts based on three conditions:

- **All**: displays all the contracts.
- **Current:** displays only the current, valid contracts for a given period.
- **Expired**: displays out-dated contracts.

The associated contracts are listed and sorted according to their nature. company, start date, end date or the date the asset was put on that contract.

When you add a contract, or when you consult the contract line, a new window opens displaying the detail of that contract line.

- Select the desired contract, then enter the date on which the asset is added to it, as well as the asset's planned removal date from the contract.
- You can also populate the Authorization and No. of utilizations fields, but they are not mandatory.

The Acquis. tab

An asset can be acquired within the framework of a contract.

The **Acquis.** tab enables you to associate a contract with an asset using any of the following methods:

- Purchase
- Rental
- Lease
- Loan

According to the acquisition method, sub-tabs enable you to specify the details of the acquisition contract.

Refer to the Contracts guide for more information on how to create and manage contracts associated with an asset.

Stocks

A stock contains in-stock portfolio items or those awaiting delivery. In the detail of a portfolio item, the **Assignment** field (SQL name: seAssignment) in the General tab is set to In stock or Awaiting receipt.

Example: a portfolio item recently bought but not yet been installed or given

to a user. These portfolio items can be seen in the **Portfolio** tab of the stock detail.

Asset Manager enables you to set up automatic stock reorder rules. Asset Manager Server monitors stock reorder levels.



You need to run Asset Manager Automated Process Manager on a client or server station so that it can monitor the stock reorder levels.

You can create as many stocks as you want using Asset Manager.

To display the stocks table, click the **Portfolio management/ Extended portfolio/ Stocks** link on the navigation bar.

Creating stock rules

Asset Manager enables you to associate rules with a stock that will trigger automatic purchase requests in order to replenish your stock with portfolio items.

These stock management rules are defined in the **Management** tab of a stock detail. Each rule is associated with a model and indicates the quantity that is needed in order for the portfolio items to exist in the same number as indicated for the model.

It is Asset Manager Automated Process Manager that verifies the level of replenishment of stock lines.

To create a stock rule:

- 1 Click the Manage tab.
- 2 Click
- 3 Wait until the **Add a stock management rule** window appears.
- 4 Specify the model of the portfolio item for which you want to create a stock rule (Example: ink cartridges for printers).
- 5 Populate the **Reorder level** field with the quantity for which the purchase order request is automatically created (Example: 5).
- 6 Populate the **To order** field with the number of portfolio items to order. If a portfolio item is an asset or a tracked batch, Asset Manager Automated Process Manager creates a purchase order whose **Quantity** field is equal to 5. Upon receipt of an order based on this request:
 - In the case of an asset, 5 records are created in the Portfolio items table.
 - In the case of a tracked batch, a record with a quantity of 5 is created in the Portfolio items table.

For each stock management rule relating to a model:

- 1 Asset Manager Automated Process Manager calculates the quantity of items available from the **Portfolio** tab of the stock detail.
 - For portfolio items corresponding to tracked batches, Asset Manager Automated Process Manager verifies that the quantity of the items in the batch equals the amount indicated in the **Quantity** field.
- 2 Using the quantity indicated in the **Reorder level** field (SQL name: lReordLevel) of the stock rule detail, Asset Manager Automated Process Manager automatically creates a purchase request order.
- 3 As long as the request has not been entirely received, Asset Manager Server will not verify the stock management rule that it has generated. So, no new requests will be sent out until the previous request has been fully received.
- 4 As soon as the request has been entirely received, Asset Manager Server:
 - Readjusts the stock levels.
 - Deletes the contents of the Request line field (SQL name: RegLine) from the stock rule detail.
 - Re-enables the stock management rule.



The frequency with which the stock table is verified is defined at the level of Asset Manager Automated Process Manager.

Calculation of the number of items effectively available

To count the number of items currently available during each stock-rule verification for a given model, Asset Manager Automated Process Manager counts the number of items based on this model contained in the **Portfolio** detail of the stock.

Only the unreserved portfolio items are counted.

Creating reorder requests

If necessary, Asset Manager Automated Process Manager generates a purchase-order-request line to reorder stock for each stock rule:

- The purchase-order parameters are described in the **Auto-request** tab of the stock detail.
- The purchase order specifies the quantity to be reordered in the **To order** field (SQL name: lQtyToOrder) of the stock rule detail.

When a purchase request created automatically through stock level verification is delivered, the quantities in stock are adjusted.

Stock management procedure

This section details the following points:

- List of portfolio items in stock.
- Placing portfolio items in stock.
- Issuing portfolio items from a stock.

List of portfolio items in stock

The **Portfolio** tab of the stock detail lists all the portfolio items in the selected stock.

Filters

Above the list of portfolio items in stock are three filters:

- First simple filter.
- Second simple filter.
- Third simple filter.

Between the filters there is an "AND" condition (in the SQL sense).

Tree view of the list of the portfolio items in stock

When you list the portfolio items in stock using a tree view:

- If an item in stock contains items associated with it, but that are not in stock, these items will not be displayed.
- If an item in stock is a sub-item of other items, the entire chain of parent items appears. The parent items that are not in stock appear in gray.

Placing items in stock

There are several ways of putting items in stock:

From the detail of portfolio items

In the **General** tab of portfolio items:

- 1 Set the **Assignment** (SQL name: seAssignment) field to *In stock*.
- 2 Select the stock in the **Stock** field (SQL name: Stock).

From the stock detail

In the **Portfolio** tab of the stock detail, use the \blacksquare button to add items.

From an order detail

The purchase-order composition lines creating portfolio items can create items in stock. To do this:

- 1 Select the appropriate order in the table of orders (**Procurement/ Orders** link on the navigation bar).
- 2 For each purchase-order composition line creating a portfolio item, verify that the **Deliv. stock** field (SQL name: Stock) of the **Purchase** tab indicates the name of the stock. Otherwise, you need to populate this field.
- 3 To create the portfolio items awaiting receipt, make sure the **Ord. status** field is set to **Validated** or **Ordered**. Click **Create**: The portfolio items are created in the portfolio items table.

For each item thus created in the Portfolio items table:

- The **Assignment** field in the **General** tab of the item's detail indicates Awaiting receipt.
- The **Stock** field has the same value as in the **Delivery** field of the **Purchase** tab of the item's order-composition line.

Issuing assets from a stock

There are several ways to take items out of stock:

From the detail of portfolio items

In the **General** tab of a portfolio item's detail:

- 1 Display the list of portfolio items in "List and Detail" mode.
- 2 Select all the portfolio items that you want to remove from stock.
- 3 Set the **Assignment** field (SQL name: seAssignement) to *In use*.
- 4 Select the user and the manger of these items if they all items belong to the same user and manager.
- 5 Define the location as well, if they all have the same location.

From the stock detail

- 1 Go to the **Portfolio** tab of the stock detail.
- 2 Select all the items to remove from stock.
- 3 Click to the right of the list. In this case, the value of the item's Assignment field changes to In use.

Or

- 1 Go to the **Portfolio** tab of the stock detail.
- 2 Display the detail of each of the items that you want to remove from stock.
- 3 Select In use for the Assignment field, in the General tab of each item's detail.
- 4 Select the user, the manager and the location for each the portfolio item.

3 IT portfolio

Asset Manager has been specifically designed to help manage your IT portfolio. For every computer in your IT portfolio (computer, workstation, laptop, server, etc.) Asset Manager provides you with a multitude of fields and tables to help you manage it.

Computers

We recommend that you manage your computers individually. This method of management enables you to define a computer's technical data in its model. Individualized management is also the only type of management allowing a record to be present in the Portfolio items table, the Assets table and the

Creating a nature for computers

To create a nature for a computer that you want to manage individually:

Telephones table at the same time (▶ Overflow tables [page 16]).

- 1 Display the natures (Portfolio management/ Natures link on the navigation bar).
- 2 Click Create.
- 3 Enter the name and the code of the nature you are creating (example: Computer and Computer).

- 4 Select Portfolio item in the Create field.
- 5 Select Computer in the Also create field.
 The Computers table is used to integrate software distribution tools with Asset Manager.
- 6 Select the Has software installed and Can be connected options.
- 7 Click **Create** to confirm your creation.

Creating a computer model

Creating a computer model is exactly the same as creating any other model (> Models [page 27]). You just need to choose the nature for computers (> Creating a nature for computers [page 55]).

Since the Models table enables you to organize your portfolio, we suggest that you create generic models. For example: Let's say you create the model *Computer* and sub-models *Office computers*, *Laptops* and *Servers*. Using these sub-model, you can create computer models that you will use to create the computer assets in your portfolio.

Creating a computer model (example)

This section will show you how to create a computer model with the following features:

- HP VECTRA VL 800 computer
- Intel® Pentium® 4 1.3 GHz processor
- 128 Mo standard RDRAM memory
- 40 GB hard drive
- **3.5**", 1.44 MB disk drive
- DVD-ROM 12x/40x
- HP multimedia keyboard
- HP optical mouse device

To create the model of this computer:

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Click **New**.
- 3 Enter VECTRA VL 800 in the Name field.
- 4 Enter **Hewlett-Packard** in the **Brand** field.
- 5 Select, for example, *Office computer* in the **Sub-model of** field.

- 6 In the **General** tab, enter or select in the **Nature** field a nature which will allow you to create computer models. (Creating a nature for computers [page 55])
- 7 In the **Hardware** tab, enter the data corresponding to your computer:
 - *Pentium 4* in the **CPU** field.
 - 1300 in the **CPU speed** field (in megahertz by default).
 - Enter 128 in the **Memory** field.
 - Enter 40000 in the **Disk size** field.
- 8 Click **Create** to confirm your creation.
- 9 Repeat the same steps to create models corresponding to the different items associated with your computer:
 - Disk drive
 - DVD drive
 - Keyboard
 - Mouse

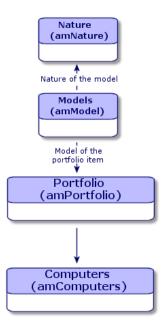
You cannot associate models with other models. On the other hand, you can, when you create your VECTRA VL 800 computer, associate it with these different assets based on these models (Portfolio items associated with an asset [page 32]).

Create computers manually

The computers are recorded in three different Asset Manager tables:

- The Portfolio items table (amPortfolio)
- The Assets and batches table (amAsset)
- The Computers table (amComputer)

The following diagram illustrates which tables deal with computers.



Since the creation of a computer is similar to the creation of an asset, you should refer to the section Creating an asset [page 31]. To associate portfolio items with a computer, refer to the section Associating portfolio items to an asset [page 33]. The assets associated with a computer are its peripheral devices (keyboard, printer, various drives), its software applications and its consumable products.

Create computers automatically

The most effective and reliable way to represent the status of your computer portfolio is to use automatic network inventory tools such as HP Device and Dependency Mapping.



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

These tools are used to identify computers that are present in your portfolio. Inventoried computers can be transferred to the Asset Manager database.

Configure your environment to import the inventory database created using HP Device and Dependency Mapping

- 1 Perform the computer inventory using HP Device and Dependency Mapping. Use the version specified in the HP Connect-It Compatibility Matrix that ships with Asset Manager 5.1 (available at www.hp.com/go/hpsoftwaresupport).
- 2 Install HP Connect-It in the version as provided with Asset Manager 5.1.
- 3 Start the HP Connect-It scenario builder.
- 4 Open the scenario edac.scn (located in the scenario \ed \ed < HP Device and Dependency Mapping version number>\ed<Numéro de version de HP Device and Dependency Mapping>ac<Asset Manager version number > sub-folder of the HP Connect-It installation folder) (File/ Open menu).
 - For example: C:\Program Files\HP\Connect-It <Version number> <Language>\scenario\ed\ed25ac51.
- 5 Configure the 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 wizard.
- 7 Save your modifications and then exit HP Connect-It.
- 8 Start Asset Manager Automated Process Manager.
- 9 Connect to the Asset Manager 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 Check the **Enabled** box.
- 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 HP Device and Dependency Mapping that is installed on your station.

- 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 Asset Manager Automated Process Manager.

Importing the inventory database obtained by HP Device and Dependency Mapping

Importing the inventory database

Asset Manager Automated Process Manager, when running in the background with the appropriate modules activated, automatically imports the information from the HP Device and Dependency Mapping 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 Asset Manager database

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

Viewing computers in the HP Device and Dependency Mapping database from Asset Manager

From a computer detail, users can display the detail of the computer in the HP Device and Dependency Mapping database by clicking on the computer's URL address.

Preliminary tasks

Make the HP Device and Dependency Mapping database accessible via Internet Explorer

Users who want to display the computer detail in the HP Device and Dependency Mapping database must be able to access the HP Device and Dependency Mapping database via Internet Explorer.

Import the Portfolio - Line-of-business data into your database

The *Portfolio - Line-of-business data* must be imported in order for the integration to work properly.

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

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

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

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

Proceed in the following manner:

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

Generate SQL script / Create database page:

Fields	Value
Database Select the connection to the database in	
	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 Asset Manager database administrator is the record in the Departments and employees (amEmplDept) table for which the Name (Name) field is set to <i>Admin</i> .
	The database connection login is stored in the $\bf User$ $\bf name$ (Userlogin) field. The administration name is $Admin$.
	The password is stored in the Password field (LoginPassword).

Data to import page:

Fields	Value
Available data	Select the Portfolio - Line-of-business data option

Fields	Value	
Stop import if error	Select this option for the import to stop if a	
	problem is encountered.	
Log file	Full name of the file to which all import opera-	
	tions, including errors and warnings, are logged.	

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

Declare the URL address of the HP Device and Dependency Mapping Web client

- 1 Start the Asset Manager Windows or Web client.
- 2 Start the Edit the URL address of the application servers... wizard (BstBackEndOpt) (Administration/ Edit the URL address of the application servers... link on the navigation bar).
- 3 Populate this wizard as follows:

Field	Value		
Add and/or modify properties of the application servers page			
Name of the application server to add	If, in the lower part of the page, there is no line whose Application column equals <i>ED</i> , populate this field with the value <i>ED</i> , then click Add the application server .		
List of applications, line whose Application column equals ED , Server's URL address column	http or https:// <hp and="" dependency<br="" device="">Mapping server name>:<port by="" device<br="" hp="" used="">and Dependency Mapping></port></hp>		
Summary page	Verify the contents of the page.		
Click Finish			
Windows client: Click OK			

4 Windows client: Reconnect to the database (File/Connect to database menu).

Creating computers in the Asset Manager database

- 1 Start the Asset Manager Windows or Web client.
- 2 Display the computers (Portfolio management/ IT/ IT equipment/ Computers link).
- 3 Populate the detail of the computer, and in particular the following fields and links:

Name of the field or link	SQL name of the field or link	Value
Network tab		

Name of the field or link	SQL name of the field or link	Value
Physical address	PhysicalAddress	Computer identifier in the
		HP Device and Dependency
		Mapping database.
		The format of this identifier is
		$AB ext{-}CD ext{-}EF ext{-}GH ext{-}IJ ext{-}KL.$
		This identifier must be provided
		in order to find the computer in
		the HP Device and Dependency
		Mapping database.

Viewing the computer in the HP Device and Dependency Mapping database from Asset Manager

- 1 Start the Asset Manager Windows or Web client.
- 2 Display the computers (Portfolio management/ IT/ IT equipment/ **Computers** link on the navigation bar).
- 3 Select the computer to display in the HP Device and Dependency Mapping database.
- 4 Display the **Hardware** tab.
- 5 Click the *Display the detail in Enterprise Discovery* link.

Windows client: The default Internet browser starts and displays the page corresponding to the URL address associated with the Display the detail in Enterprise Discovery link.

Web client: The Web client displays the page corresponding to the URL address associated with the *Display the detail in Enterprise Discovery* link.

How did it work?

Asset Manager uses the *Enterprise Discovery* (sysCoreWebED) calculated field to generate an HTML <*A*> anchor with an *HREF* attribute whose label is Display the detail in Enterprise Discovery. This points to a URL address generated by concatenation:

- Text strings
- The URL address of the HP Device and Dependency Mapping defined by the Edit the URL address of the application servers... wizard (BstBackEndOpt)
- Physical address field of the computer

When you click the *Display the detail in Enterprise Discovery* link, Asset Manager processes the URL address.

Displaying incidents, changes and problems for the computer in the HP Service Manager database

From a computer detail, users can display the list of incidents, changes and problems declared for the computer in the HP Service Manager database.

Preliminary tasks

Make the HP Service Manager database accessible via Internet Explorer

Users who want to display the computer detail in the HP Service Manager database must be able to access the HP Service Manager database via Internet Explorer.

Import the Portfolio - Line-of-business data into your database

The *Portfolio - Line-of-business data* must be imported in order for the integration to work properly.

▶ Import the Portfolio - Line-of-business data into your database [page 60]

Declare the URL address of the HP Service Manager Web client

- 1 Start the Asset Manager Windows or Web client.
- 2 Start the Edit the URL address of the application servers... wizard (BstBackEndOpt) (Administration/ Edit the URL address of the application servers... link on the navigation bar).
- 3 Populate this wizard as follows:

Field	Value		
Add and/or modify properties of the application servers page			
Name of the application server to add	If, in the lower part of the page, there is no line whose Application column equals <i>HP Service Manager</i> , populate this field with the value		
	HP Service Manager, then click Add the application server.		
List of applications, line whose Application	http or https:// <hp manager="" server<="" service="" td=""></hp>		
column equals HP Service Manager, Server's	name>: <port by="" hp="" manager="" service="" used=""></port>		
URL address column			
Summary page	Verify the contents of the page.		
Click Finish			
Windows client: Click OK			

4 Windows client: Reconnect to the database (File/Connect to database menu).

Creating the computers in the Asset Manager and HP Service Manager databases

In order for computers selected in the Asset Manager database to be found in the HP Service Manager database, they must be identified in the same way for the following fields:

	Table	Field
Asset Manager	Computers (amComputer)	Name (Name)
HP Service Manager	computer	logical.name

In order to automate reconciliation between the Asset Manager database and the HP Service Manager database, you can use HP Connect-It integration scenarios between Asset Manager and HP Service Manager or between an inventory tool and Asset Manager and between the same inventory tool and HP Service Manager.

View incidents, changes and problems for the computer in the HP Service Manager database from a Asset Manager Windows client.

- 1 Start the Windows client.
- 2 Display the computers (Portfolio management/ IT/ IT equipment/ **Computers** link on the navigation bar).
- 3 Display the computer detail.
- 4 Do one of the following tasks:

Objective	Action to perform	
View incidents in HP Service Manager	Do one of the following tasks:	
	Click HP Service Manager.	
	Select View incidents in HP Service Man-	
	ager from the contextual actions (Actions shortcut menu).	
View changes in HP Service Manager	Select View changes in HP Service Manager	
	from the contextual actions (Actions shortcut	
	menu).	
View problems in HP Service Manager	Select View problems in HP Service Manager	
	from the contextual actions (Actions shortcut	
	menu).	

View incidents, changes and problems for the computer in the HP Service Manager database from a Asset Manager Web client.

- 1 Start the Web client.
- 2 Display the list of computers (Portfolio management/ IT/ IT equipment/ **Computers** link on the navigation bar).

- 3 Select the computer from the list (check box in the left-hand column).
- 4 Do one of the following tasks:

Objective	Select the following value from the Contextual actions list.
View incidents in HP Service Manager	View incidents in HP Service Manager
View changes in HP Service Manager	View changes in HP Service Manager
View problems in HP Service Manager	View problems in HP Service Manager

How did it work?

To generate a URL address, Asset Manager uses the following calculated fields (**Administration/ System/ Calculated fields** link on the navigation bar):

- Changes in HP Service Manager (sysCoreWebSCChanges)
- Problems in HP Service Manager (sysCoreWebSCProblems)
- Incidents in HP Service Manager (sysCoreWebSCTickets)

To open the appropriate page of the HP Service Manager Web client, Asset Manager uses the following actions (**Administration/ Actions** link on the navigation bar):

- View changes in HP Service Manager (BstSCChanges)
- View problems in HP Service Manager (BstSCProblems)
- View incidents in HP Service Manager (BstSCTickets)
- View incidents in HP Service Manager (BstHP Service ManagerTickets)

These actions use the calculated fields to retrieve the URL of the HP Service Manager page to display.

Standard configurations

Standard configurations include a CPU, its standard peripheral devices and standard software applications. They correspond to the packaged offers that many IT suppliers provide.

Depending on your needs, you can manage the entire standard configuration as an individual asset, or you can manage each separate element of the configuration as its own asset and then associated them with each other.

Managing a standard configuration as an individual asset

To manage a standard configuration as an individual asset, you need to create a model corresponding to this configuration. Once the configurations that rely on this model have been created, you can associate them with other items in the portfolio that are not included in the configuration: consumables, new software, new peripheral devices, etc.

Advantages

Managing a standard configuration as an individual asset enables you to reduce the number of records you create. Since this standard configuration represents just one record in the Assets and Batches table, you reduce costs tied to tracking these assets financially: depreciation, individual purchasing price, simplified accounting, etc. On the other hand, tracking major changes (deletions, updates) of one of the configuration items can only be done with the help of a complex adjustment operation.

Managing standard configuration items as associated assets

To manage standard-configuration items as associated assets, you need to:

- 1 Create records corresponding to these assets in your portfolio (▶ Creating an asset [page 31])
- 2 Choose a main item among all those included in the standard configuration (example: the CPU).
- 3 Associate this main item with the other items in the configuration (▶ Portfolio items associated with an asset [page 32]).

Advantages

Managing a standard configuration as individual, associated assets enables you to track each item precisely. Thus, all you need to do to replace a keyboard, for example, is delete the link going to that keyboard and create a new link to the new keyboard that you are going to use instead.

Connections between computers

Asset Manager enables you to describe the connections that exist between computers.

The connection model used in Asset Manager describes a generic connection between computer A and computer B. You can customize this model and describe any type of connection you want, and, in particular, the Client/Server type connection. This idea of connections between computers can be found in the following parts of Asset Manager:

- In the **Ports** tab of a model detail (amModel) or an asset detail (amAsset).
- In the list of connection types (amCnxType).

Prerequisites

The connections are described in the **Ports** tab of an asset detail. This tab only appears if the **Can be connected** option has been selected for this asset's model in the Nature table. (**A** nature's behavior criteria [page 22] and Natures [page 25]).



A computer can have an unlimited number of ports, each one identified individually by a number. Each port, however, can only be involved in one connection.

Ports

The connection between two computers is created with ports. This connection is only valid when the port of computer A and the port of computer B are linked together. This connection is reciprocal: It appears in the **Ports** tab of details of all of the computers involved in the connection. A connection port can be:

• Occupied (linked to a port of another computer or to a different port of the same computer). In this case, it is described in the following way:

```
<Computer> <Port number> - <Port number> <Computer>
```

For example, the connection between computer A and computer B is described in the following way:

• In the detail of computer A:

```
<Computer A> <Port number of computer A> - <Port number of computer
B> <Computer B>
```

In the detail of computer B:

```
<Computer B> <Port number of computer B> - <Port number of computer
A> <Computer A>
```

• Free (available for a connection). In this case, it is described in the following way:

```
<Computer> <Port number> -
```

Creating a connection

In this section, we will use an example to illustrate the method we use to create a connection between two computers: a server and a client post. The example breaks itself down into the following steps:

- 1 Creating a connection.
- 2 Creating computers to connect.

- 3 Declaring the connection.
- 4 Providing supplementary information on the connection.

Creating a connection

Creating a connection type enables you to link two types of ports, identified by the following fields:

- **Type** (SQL name: Type), which designates the source port.
- Targ. type (SQL name: TargetType), which designates the target port associated with the source port.

This relation only works in one direction. In a connection, selecting for your port a source port-type forces you to choose a destination-port type to which to connect it. On the other hand, selecting for your port a target-port type does not force you to choose the type of source port for the computer to which it is connected. The result is that, to create a reciprocal connection, you need to create two symmetrical connection types. For example, in the case of a Client/Server connection:

- From "Client" type to "Server" type.
- From "Server" type to "Client" type.

In this section, we are going to create a reciprocal Client/Server connection model. Selecting this model when you create the connection between computer A and computer B triggers the following automatic mechanisms:

- If the type of port for asset A is "Client", then type of port to which it is connected on asset B becomes "Server".
- If the type of a port on asset A is "Server", then the type of port to which it is connected on asset B becomes "Client".



This automatic mechanism is invoked only when the connection is created directly.

Opening the Connection types screen

Display the connection types (Administration/ Connection types link on the navigation bar).

Creating a Client/Server type of connection

Create the Client/Server type of connection by following these steps:

- 1 Click **New**.
- 2 Set the **Type** field to "Client".
- 3 Set the **Targ. type** field to "Server".
- 4 You can enter an additional description in the **Description** field (SQL name: memDescription), but this is not mandatory.

5 Click **Create** to confirm your creation.

Creating a Server/Client type of connection

Create the Server/Client by following these steps:

- 1 Click **New**.
- 2 Set the **Type** field to "Server".
- 3 Set the **Targ. type** to "Client".
- 4 You can enter an additional description in the **Description** field (SQL name: memDescription), but this is not mandatory.
- 5 Click **Create** to confirm your creation.

Creating the computers to connect

Step 1: Creating two computer models

To create a server model and a client model, refer to the section Creating a computer model (example) [page 56].

When you create the computer models, populate the fields in the **Ports** tab. The computers later on created from these two models in the Assets table will inherit the features that you enter in this tab.

The following table shows you examples of a server model and a client model.

Se	rver	Cli	ent
-	Sun Microsystems Sun Fire 15K	-	HP VECTRA VL 800 computer
	UltraSparc III 64-bit 900 MHz		Intel® Pentium® 4 1.3 GHz processor
			128 Mo standard RDRAM memory
			40 GB hard drive

Once you have created your two computer models, you can create the computers' records in the Assets table using the information from the computer models (reating an asset [page 31]).

Step 2: Creating the computers in the Assets table

Display the assets (**Portfolio management/ Assets** link on the navigation bar).

Create two new assets by selecting for each one of them one of the two models previously created. Validate these creations by clicking **Create**.

Declaring the connection

Methods for creating a connection

There are two ways to create a connection between two computers:

- Creating a port on each of the computers in question, then by attaching these ports to create the connection. We suggest you use this method to create connections.
- Creating the connection directly from either of the two computers.

We will connect two assets using both methods.

Creating ports on each asset, then attaching these ports

From the list of records in the Assets and Batches table, select Sun Fire 15K and click the **Ports** tab in the asset detail. Now you will create a vacant port for this computer in the following steps:

- 1 Click the button. Asset Manager displays the screen for creating connection ports on the Sun Fire 15K.
- 2 We simply want to create a vacant "Server"-type port. Consequently, the Tarq. asset and Tarq. port fields (SQL: TargetAsset and TargetPort) will be left empty. (These are the fields that enable you to identify the asset and the port of the asset to which you are connected.)
- 3 Set the **Port type** field (SQL name: Type) to "Server".
- 4 Click **Create** to confirm your creation.
- 5 Note that the port is displayed in the **Ports** tab as:

Now you will perform the same operation for the VECTRA VL 800 computer:

- 1 Select *VECTRA VL 800* and click the **Ports** tab in the asset detail.
- 2 Click ■. Asset Manager displays the screen for creating connection ports for this asset.
- 3 Populate the **Type** field only; set its value to "Client".
- 4 Click **Create** to confirm your creation.
- Note that the port is displayed in the **Ports** tab as:

All that remains is to connect these two ports. You can do this from one of the two computers:

- 1 Select *Sun Fire 15K* and click the **Ports** tab.
- 2 Select port 1 and then click \square .
- 3 Now populate the **Target asset** field (SQL name: TargetAsset) by selecting the VECTRA VL 800 client.

4 The **Target port** field lists all the vacant ports for this asset.



You can also choose a port directly from the list of ports by clicking . When you choose a port from this list, Asset Manager automatically populates the Target asset field (SQL name: TargetAsset).

- 5 Click Modify or Close.
- 6 In the detail of the Sun Fire 15K asset, the connection is displayed as:

```
1 - 1 (<AssetTag of the target asset>)
```

In the detail of the *VECTRA VL 800* asset, the reciprocal connection is created, i.e.:

```
1 - 1 (<AssetTag of the target asset>)
```

7 The connection is validated.

Directly creating a connection



Note:

To create this connection while keeping the previously created computers, you must delete the entries in the Ports tab for each of the computers. To do this, select them and then click the - button.

From the list of records in the Assets table, select Sun Fire 15K and click the Ports tab in the asset detail. Now you will create a connection to Sun Fire 15K using the following steps:

- 1 Click the ▶ button. Asset Manager displays the screen for creating connection ports on the Sun Fire 15K computer.
- 2 Populate the Target asset field (SQL name: TargetAsset) and set its value to VECTRA VL 800.
- 3 Set the *Type* to "Server".
- 4 Click Add.

Asset Manager automatically creates:

- A "Server" type port on the *Sun Fire 15K* computer.
- A "Client" type port on the *VECTRA VL 800* computer.
- A connection between these two ports.

Additional information on a connection.

Asset Manager enables you to add information about a connection via the connection detail. In the asset detail, click the **Ports** tab, select an existing connection and click the \(\) button. Asset Manager displays the connection detail. Use the **Connection** field (SQL name: Connection) to define additional information. When you click the button, Asset Manager displays the connection detail screen:



No automatic calculations are associated with the fields in this screen. In particular, expense lines are not generated for expenses related to a connection.

Managing connections

This section explains how to manage a connection. You will find information on the following topics:

- Viewing the number of connections.
- Terminating a connection between two assets.
- Impact of deleting a connected asset.
- Impact of changing the port assignment of a connection.

Viewing the number of connections

The information in the *Ports* tab of an asset detail enables you to track an asset's connections. The Max no. connections and Current connections fields (SQL names: sMaxCnxCount and sCnxCount) describe the number of possible connections and the actual number of connections for an asset, respectively. Asset Manager updates the Current connections field (SQL name: sCnxCount) when adding or deleting a connection.



The Max no. connections field provides an approximate value; it does not trigger any automatic mechanisms. Asset Manager does not prevent you from creating an additional connection if the actual number of connections is greater than the number of possible connections.

Deleting a connection between two assets

This is the procedure for deleting a connection:

- 1 Move to the detail of one of the assets.
- 2 Click the **Ports** tab and select the connection you want to delete. Click the \ button.
- 3 Asset Manager displays the connection detail.
- 4 Clear either the *Target asset* or the *Target port* fields (SQL names: TargetAsset and TargetPort) and click **Modify**, Asset Manager deletes the connection between the two assets. As a result:

- Additional connection information (accessible from the *Connection* field (SQL name: Connection)) is erased.
- The ports used for the connection are freed.



If you click the \blacksquare button in the Ports tab of the detail of one of the connected assets, you will also delete the ports used in the connection.

Impact of deleting a connected asset

When you delete a connected asset, Asset Manager performs the following operations. It:

- Deletes all the connections associated with the asset.
- Deletes all the ports of the asset.
- Frees the ports of all the assets connected to the asset just deleted.

Impact of changing the port assignment of a connection

You can modify the assignment of a connection port by:

- Completely freeing the port; now it is available for a new connection.
- Connecting the port to a port other than the one originally assigned. In this
 case, the target port to which the port was previously connected is freed,
 and it is available for a new connection.

Mobile devices

Mobile devices correspond to communication devices and accessories such as mobile phones, PDAs, etc.

Like computers, mobile devices are stored as portfolio items. They are listed in the computers table and have specific fields.

You can view the mobiles devices via the Portfolio management/ IT/ IT equipment/ Computers/ Mobile devices link on the navigation bar.

A mobile device can be linked to a service provider (for example, a telephone carrier).

Mobile devices can be managed in different ways:

- Creating mobile devices manually [page 75]
- Creating mobile devices automatically [page 79]

Creating mobile devices manually

Creating natures

If none exist, create one or more mobile device natures:

- 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
- 2 Add a nature.

Populate in particular the following fields and links:

Name	SQL Name	Value
General tab		
Create	seBasis	Portfolio item
Also create	OverflowTbl	Computers (amComputer)
Type of equipment	seComputerType	Mobile device

Associating this type of nature to a portfolio item (via its model) determines how and on which screens information specific to mobile devices will be displayed.

To learn how to create a nature, please read paragraph ▶ Natures [page 25].

Instead of creating a nature manually, you can use the nature that is provided in the Portfolio - Line-of-business data after this data has been imported into your database.

To learn how to import the *Portfolio - Line-of-business data*: ▶ Import the Portfolio - Line-of-business data into your database [page 60].

After importing the line-of-business data, the *Mobile device* nature will be available.

Creating mobile device models

Create the models that will be required when creating the portfolio items to represent the mobile devices that will be in the portfolio.

To learn how to create a model, please read paragraph ▶ Models [page 27].

The procedure for creating mobile device models is exactly the same as for creating any other model (Models [page 27]). Once created, you need to link them to a mobile device nature (Creating natures [page 75]).

We recommend that you create several models to categorize your items and then create a model for each mobile device model that will be in your portfolio and link them to one of the categorization models.

Example of a model hierarchy used to categorize items:

- Mobile device
 - PDA

■ Mobile phone

Instead of creating models manually, you can use the models that are provided in the *Portfolio - Line-of-business* data after this data has been imported into your database.

To learn how to import the *Portfolio - Line-of-business data*: ▶ Import the Portfolio - Line-of-business data into your database [page 60]

After importing the line-of-business data, you will have a model structure that is organized as follows:

- IT and Telecom
 - Communications Devices and Accessories
 - Mobile device
 - PDA
 - Mobile phone

You can link the models that correspond to the mobile devices in your portfolio to one of the models in this model structure.

Creating mobile devices

- 1 Display the mobile devices (Portfolio management/ IT/ IT equipment/ Mobile devices link on the navigation bar).
- 2 Add a mobile device.

Populate the **Model** (Model) link by selecting a mobile device model (Creating mobile device models [page 75]).

The following fields and links are specific to mobile devices:

Name	SQL Name
Status of the mobile device	MDStatus
Hardware tab	
ROM	lROMMb
External RAM	lExternalRAMMb
Network tab	
Telephone number	PhoneNum
Service providers tab	

This indicates the link to the service providers. You cannot update the *Resources* directly from the mobile device's record. You need to access the *Client-resource relationships* in order to do this (\triangleright Creating clients and resources involved in a business service [page 96]).

Creating service provider models

You must create a model for each service provider. This model will be selected when creating the portfolio item used to represent the service provider.

There are no special constraints concerning the nature to which you are linking the models.

Creating service providers

To create a service provider:

- 1 Display the portfolio items (Portfolio management/ Portfolio items link on the navigation bar).
- 2 Add a portfolio item.

Populate the **Model** (Model) link by selecting a service provider model (Creating service provider models [page 76]).

Create client-resource relationship types

Asset Manager uses client-resource relationships to represent the link that exists between a mobile device and a service provider.

To describe your client-resource relationships accurately, you will need to use the correct client-resource relationship types (for example: Uses the carrier's network).

To create a client-resource relationship type:

- 1 Display the client-resource relationship types (**Portfolio management/** Business services/ Client-resource relationship types link on the navigation bar).
- 2 Add a client-resource relationship type.

You are only required to populate the mandatory fields, unless you want to manage your business services in greater detail (> Business services [page 93]).

Linking mobile devices to service providers

To link a mobile device to a service provider:

- 1 Display the client-resource relationship (Portfolio management/ Business services/ Client-resource relationships link on the navigation bar).
- 2 Add a client-resource relationship.

Populate in particular the following fields and links:

Name	SQL Name	Value
Client	Client	Select the mobile device
Relationship type	CRType	Select the client-resource rela-
		tionship type that exists
		between the mobile device and
		the service provider
Resource	Resource	Select the service provider

▶ Please read section Practical case: Create a mobile device [page 81] for an example on how to link to a service provider.

Creating software installation models for software that is present on a mobile device

Create the models that will be required when creating the portfolio items to represent the software installations that are in use on a mobile device (antivirus, GPS navigator, etc).

The procedure for creating software installation models for software which is present on a mobile device is exactly the same as for creating any other model (▶ Models [page 27]).

We recommend the following: First, create a Software for mobile devices model and link it to a software installation nature. Second, create a software installation model for each software application that is present on your mobile device. Third, link those models to the Software for mobile devices model.

Examples of the models hierarchy:

- Software for mobile devices
 - Cvberon VoiceCommander
 - Google Maps
 - Norton Antivirus

You can now create records in the Software installations or utilizations (amSoftInstall) table (Portfolio management/ IT/ Software installations link on the navigation bar) and link them to these models, as well as specify the mobile device on which the software is installed in the IT equipment (ParentPortfolio) field.



Note:

If you are using HP Device and Dependency Mapping to inventory the mobile devices and the software installed on these mobile devices, the edac-mobiledevices.scn HP Connect-It scenario (▶ Creating mobile devices automatically [page 79]) will automatically create the Software for mobile devices model.

This provides you with a model structure that is organized as follows:

- IT and Telecom
 - Software
 - Software installation
 - Software for mobile devices

The sub-models that are required for the software installations that are present on your mobile devices are created automatically by the edac-mobiledevices.scn HP Connect-It scenario (Creating mobile devices automatically [page 79]) and are linked to the Software for mobile devices model.

HP Connect-It creates or updates the record in the Software installations or utilizations (amSoftInstall) table which is automatically associated with the portfolio item.

Creating mobile devices automatically

The most effective and reliable way to represent the status of your mobile devices portfolio is to use automatic network inventory tools such as HP Device and Dependency Mapping.



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

These tools are used to identify the mobile devices that are present in your portfolio and the software that is installed on those devices. Once the mobile devices have been inventoried, this information can be transferred to the Asset Manager database.

Prerequisites

You must import the *Portfolio - Line-of-business* data before importing the mobile device data.

▶ Import the Portfolio - Line-of-business data into your database [page 60]

This must be done because the HP Connect-It edac-mobiledevices.scn scenario requires the nature and model information that is included in the *Portfolio - Line-of-business* data.

Do not delete the nature (*Mobile device*) nor the models (*Mobile device*, *PDA* and *Mobile phone*) that are imported.

Do not modify the value of the nature's **Code** (Code) field, nor the value of the **Barcode** (BarCode) field of the imported models.

If you decide to create your own natures and models different from those specified below, you will need to modify the edac-mobiledevices.scn HP Connect-It scenario.

Configure your environment to import the inventory database created using HP Device and Dependency Mapping

- 1 Perform the mobile device inventory using HP Device and Dependency Mapping. Use the version specified in the HP Connect-It Compatibility Matrix that ships with Asset Manager 5.1 (available at www.hp.com/go/hpsoftwaresupport).
- 2 Install HP Connect-It in the version as provided with Asset Manager 5.1.
- 3 Start the HP Connect-It scenario builder.
- 4 Open the edac-mobiledevices.scn scenario (File/ Open menu).

 This scenario is located in the scenario\ed\ed\ed\ed\HP Device and

 Dependency Mapping version number>\ed<Numéro de version de

HP Device and Dependency Mapping>ac<Asset Manager version number > sub-folder of the HP Connect-It installation folder).

For example: C:\Program Files\HP\Connect-It <Version number> <language>\scenario\ed\ed25\ed25ac51.

- 5 Configure the 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 Manager connector (select the connector in the scenario scheme, shortcut menu Configure connector).
 - Populate the *Define the connection parameters* page of the configuration wizard.
- 7 Save your modifications and then exit HP Connect-It.
- 8 Start Asset Manager Automated Process Manager.
- 9 Connect to the Asset Manager database (File/Connect to database).
- 10 Display the modules (**Tools/ Configure modules** menu).
- 11 Select the Update mobile devices in the database using Enterprise Discovery inventory results (EdAcMD) module.
- 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-mobiledevices.scn' -dc:'Asset Managemen
t.SERVER'=$cnx$ -dc:'Asset Management.LOGIN'=$login$ -dc:'Asset Managem
ent.TEXTPASSWORD'=$pwd$
```

Replace the number 2 with the version number of HP Device and Dependency Mapping that you are using.

- 14 Define the frequency of the Update all mobile devices in the database using the Enterprise Discovery inventory results module (Verification schedules frame.)
- 15 Save your modifications (**Modify** button).
- 16 Exit Asset Manager Automated Process Manager.

Importing the inventory database obtained by HP Device and Dependency Mapping

Importing the inventory database

Asset Manager Automated Process Manager, when running in the background with the appropriate modules activated, automatically imports the information from the HP Device and Dependency Mapping inventory database.

What is imported from the HP Device and Dependency Mapping inventory database

What's imported	Result in Asset Manager
Mobile devices	Portfolio item + model
Service providers	Portfolio item + model
Links between mobile devices and service	Client-resource relationship + Client-resource
providers	relationship type
Software installations present on a mobile	Model + item in the Software installations
device	(amSoftInstall) table

Result of the import in the Asset Manager database

The missing portfolio items, models and client-resource relationships are added to the Asset Manager database.

If they already exist, they are updated.

The Uses the carrier's network client-resource relationship type is created if it is missing.



Warning:

Mobile devices and service providers that are deleted from the HP Device and Dependency Mapping database are not deleted from the Asset Manager database.

Practical case: Create a mobile device

In this practical case you will create a record for a PDA HP iPAQ hx2790 that is linked to telephone carrier *AT&T Mobility (AT&T)*

This practical case has several steps.

Prerequisites

If you are not using the demonstration database, you will need to import the Portfolio - Line-of-business data (▶ Import the Portfolio - Line-of-business data into your database [page 60]).

Step 1: Creating the telephone carrier

Create the brand

- 1 Display the brands (Portfolio management/ Brands link on the navigation bar).
- 2 Add a new record and populate the fields and links specified in the following table:

Name	SQL Name	Value
Name	Name	000/AT&T

3 Click **Create** in the Windows client or **Save** in the Web client.

Creating the model

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Add a new record and populate the fields and links specified in the following table:

Name	SQL Name	Value
Name	Name	000/AT&T Mobility
Brand	Brand	000/AT&T
General tab		
Nature	Nature	Standard asset

3 Click **Create** in the Windows client or **Save** in the Web client.

Creating the portfolio item

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Add a new record and populate the fields and links specified in the following table:

Name	SQL Name	Value
Model	Model	000/AT&T Mobility
Assignment	seAssignment	In use

3 Click **Create** in the Windows client or **Save** in the Web client.

Step 2: Creating the mobile device

Creating the brand

- 1 Display the brands (**Portfolio management/ Brands** link on the navigation bar).
- 2 Add a new record and populate the fields and links specified in the following table:

Name	SQL Name	Value
Name	Name	000/Hewlett Packard

3 Click **Create** in the Windows client or **Save** in the Web client.

Creating the model

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Add a new record and populate the fields and links specified in the following table:

Name	SQL Name	Value
Name	Name	000/HP iPAQ hx2790
Sub-model of	Parent	PDA
Brand	Brand	000/Hewlett Packard
General tab		
Nature	Nature	Mobile device

3 Click **Create** in the Windows client or **Save** in the Web client.

Creating the mobile device

- 1 Display the mobile devices (Portfolio management/ IT/ IT equipment/ **Mobile devices** link on the navigation bar).
- 2 Add a new record and populate the fields and links specified in the following table:

SQL Name	Value
Model	000/HP iPAQ hx2790
seAssignment	In use
lROMMb	192
lExternalRAMMb	1000
PhoneNum	555-9635
	Model seAssignment lROMMb lExternalRAMMb

Name	SQL Name	Value

Click Modify (Windows client) or Save (Web client).

Step 3: Creating the client-resource relationship

Creating the client-resource relationship type

- Display the client-resource relationship types (Portfolio management/ Business services/ Client-resource relationship types link on the navigation bar).
- 2 Add a new record and populate the fields and links specified in the following table:

Name	SQL Name	Value
Name	Name	000/Uses the provider's network

3 Click **Create** in the Windows client or **Save** in the Web client.

Creating the client-resource relationship

- 1 Display the client-resource relationship (Portfolio management/ Business services/ Client-resource relationships link on the navigation bar).
- 2 Add a new record and populate the fields and links specified in the following table:

Name	SQL Name	Value
General tab		
Client	Client	Select the 000/Hewlett Packard
		000/HP iPAQ hx2790 record.
Relationship type	CRType	000/Uses the provider's network
Resource	Resource	Select the $000/AT&T$ $000/AT&T$ $Mo-$
		bility record

3 Click **Create** in the Windows client or **Save** in the Web client.

Checking that the mobile device has been created

- 1 Display the mobile devices (Portfolio management/ IT/ IT equipment/ Mobile devices link on the navigation bar).
- 2 Select the 000/HP iPAQ hx2790 record.
- 3 On the *Service providers* tab, make sure you see the *000/AT&T 000/AT&T Mobility* resource.

Virtual machines

Virtual machines are represented by a portfolio item, like computers; they appear in the computers list but are described by certain specific fields.

They are available via Portfolio Management/ IT/ IT equipment/ Virtual machines browser link.

A virtual machine can be installed on a host machine (table element Computers (amComputer)).

Create a nature for virtual machines

If none exist, create one or more virtual machine natures:

- 1 Go to natures (brower link **Portfolio Management/ Natures**
- 2 Add a nature.

Populate in particular the following fields and links:

Label	SQL name	Value
General tab		
Create	seBasis	Portfolio item
Also create	OverflowTbl	Computers (amComputer)
Type of equipment	seComputerType	Virtual machine

It is the association of a nature of this type to a portfolio item (via its model) which determines the behavior and display of specific information to the virtual machines on certain screens.

For a general example of how to create a nature, read paragraph ▶ Natures [page 25].

Instead of creating a nature manually, you can use the nature that is provided in the Portfolio - Line-of-business data after this data has been imported into your database.

To learn how to import the *Portfolio - Line-of-business data*: Import the Portfolio - Line-of-business data into your database [page 60].

After importing these Line-of-business data, the Virtual machine nature will be available.

Create a virtual machine model

Create the models needed for creation of portfolio items which represent the virtual machines actually present in the portfolio.

For a general example of how to create a model, read paragraph ▶ Models [page 27].

The escalation scheme for creating virtal machine models is identical to the one used for other models (\blacktriangleright Models [page 27]). You must link it to a virtual machine nature, though (\blacktriangleright Create a nature for virtual machines [page 85]).

To structure virtual machine models, you can use the tree structure of structured models which are part of the Line-of-business data *Portfolio - Line-of-business data*, once you have imported it to your database.

To learn how to import the *Portfolio - Line-of-business data*: ▶ Import the Portfolio - Line-of-business data into your database [page 60]

After importing Line-of-business data, you can attach the virtual machines to the following node:

- It and Telecom
 - Accessories and IT equipment
 - Computers

Create virtual machines

- 1 Go to virtual machines (browser link Portfolio Management/ IT/ IT equipment/ Virtual machines du navigateur).
- 2 Add a virtual machine.

Populate in particular **Model** (Model) by selecting a virtual machine model (\triangleright Create a virtual machine model [page 85]).

The fields and links specific to virtual machines are:

Label	SQL name
This field is for information: it is a populated	sysCoreVMParent
field which indicated the host machine on	
which the virtual machine is installed.	
Host	
Virtualization type	VmType
State of the virtual machine	VmStatus
Hardware tab	
Max. CPUs	fMaxCpu
Min CPUs	fMinCpu
Max. RAM	lMaxMemory

Label	SQL name
Min. RAM	lMinMemory

Specifcy the host of the virtual machine

To specify the host machine (element in the *Computers* (amComputer) table) on which the virtual machine is installed:

- 1 Display the portfolio items (Portfolio management/ Portfolio items link on the navigation bar).
- 2 Go to virtual machine details.
- 3 In the Component of (Parent) link, select the host computer.
- 4 Save your changes.

4 Telephones

Telephones in Asset Manager are considered as portfolio items. If you decide to manage them as assets, they can be recorded in the Telephones table.

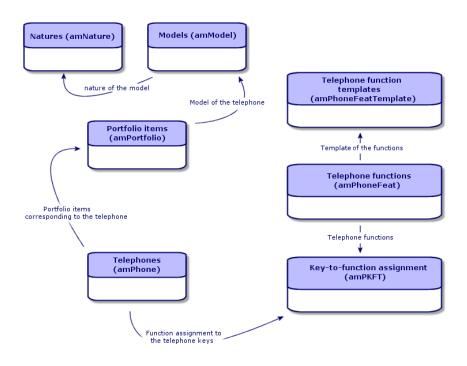
Telephones and functions

All of the management types can be used to describe telephones (> Individualized management (by asset) [page 14]).

In Asset Manager, the following tables are concerned by telephone management:

- The Natures table
 - In this table, you define the model of a portfolio item as being able to create a record in the Assets and Telephones tables.
- The Models table
 - In this table, you create the models of the portfolio items that are recorded in the Assets and Telephones tables.
- The Telephones table
 - This table contains all the records corresponding to telephones.
- The Assignments of functions to keys table
 - In this table, you associate functions with telephone keys.
- The Telephone function templates table This table enables you to create telephone function templates.
- The Telephone functions table

This table enables you to see the telephone functions used by your company's telephone population.



Telephone management

Managing telephones in Asset Manager consists of:

- Recording them in the Telephones table.
- Associating certain functions with their keys.

To consult the detail of a record in the Telephones table, perform the following steps:

- Display the telephones (Portfolio management/ Telephony/ Telephones link on the navigation bar).
- Select a record that corresponds to a telephone in the Assets table, then select the **Telephone** tab.



If the **Telephone** tab does not appear in the detail of an asset, it means that the nature of its model does not indicate *Telephone* in its **Also create** field.

Creating telephones

To create a telephone:

- 1 Create a nature whose **Create** and **Also create** fields are set to *Portfolio* item and Telephone, respectively.
 - ▶ Creating the nature for a portfolio item [page 26]
- 2 Create a telephone model.
- 3 Create a record in the Assets table that corresponds to your telephone. This record automatically creates a record in the Telephones table.
- 4 Select the **Telephone** tab.
- 5 Enter the phone number and the extension of this telephone.
- 6 You can select the **Voice mail** and **Speaker phone** options depending on the specific functions of the telephone.
- 7 Populate the **Call forward to** link by indicating the telephone to which the call is forwarded to. This link points toward another record in the Telephones table.
- 8 In the **Call line ID** field, indicate the telephone's CLI (Command-line interface) number.
- 9 Click **Create** to confirm your creation.

Associating a function with a telephone key

Before you can associate a function with a telephone key, you must create a template of this function.

Creating function templates



Note:

This operation can only be done using the Windows client.

To create a function:

- 1 Display the list of telephone function templates via the **Administration**/ List of screens menu.
- 2 Create the function template by populating the **Description** field.

Creating functions



This operation can only be done using the Windows client.

To create a function:

- 1 Display the list of telephone functions via the Administration/ List of screens menu.
- 2 Click **New**.
- 3 Enter a value in the **Description** field.
- 4 Populate the **Template** link with the template of the telephone function that you previously created.
- 5 Select the **Toggle feature** if this function can be activated or deactivated from the codes that you indicate in the fields appearing in the selection of this option.
- 6 Select the **Identification required** option if the use of this function necessitates an identification code.

Associating a function with a telephone key

To associate a function with a telephone key:

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Select a record corresponding to a telephone.
- 3 Select the **Telephone** tab.
- 4 Select the **Functions** sub-tab.
- 5 Click
- 6 In the **Starting key** field, indicate the number of the first key having a function on the telephone. In most cases, the first key is either 1 or 0. If the first key is a 0, the number of keys having functions on the telephone is equal to n + the key 0.
 - If 0 is the first key on the telephone, the key 5 is in the 6th position on the telephone.
- 7 In the **Number of keys** field, indicate the number of keys with which you can associate functions. Don't forget to add 1 to this number of keys if 0 is indicated in the **Starting key** field.
- 8 Populate the **Function** link with the function that you want to associate with the telephone key.

Business services

In Asset Manager, a business service defines all key relationships that link clients and resources within the framework of a global service deployment destined for users (for example, IT application, network system). Resources and clients are portfolio items, associated by different relationship types, in which the resources supply clients with a specific service that contributes to the deployment of the business service.

Managing a service as a business service lets users highlight the complex relationships that exist between clients and resources, and evaluate deployment costs and the impact of a business service failure.

Asset Manager enables you to:

- Create the client-resource relationships involved in a business service.
- Manage downtimes of a business service's resources and analyze their impact.
- Determine the costs linked to the deployment of a business service.

Client-resource relationships

Client-resource relationships are the main components of a business service. They provide a view on the different portfolio items involved in the deployment of the business service and on the different relationship types that link them. The client-resource relationships provide important information to analyze and forecast costs linked to the deployment of the business service.

A client and its resource are associated by a relationship type (the relationship type is the manner in which the client uses the service provided by the resource). Examples:

- Connects to: Can be used to associate an application (client) and its database (resource).
- *Uses IT equipment*: Can be used to associate an application (client) and its host computer (resource).
- Hosts the shared application: can be used to associate a Web server (client) hosting a shared Web application (resource).

Clients and resources can be associated in different ways: 1 client for 1 resource, 1 client for n resources, n clients for 1 resource, n clients pour n resources.

All client-resource relationships of a business service make up what could be called the "functional representation of the business service". This representation is used to create a diagram of the client-resource relationships that make up the business service and to distinguish the internal elements (involved in the deployment of the service) from the external ones.



Asset Manager does not allow clients involved in the deployment of the business service to be distinguished precisely from end-user clients (clients that use the business service). The client of client-resource relationship associated with a business service is automatically considered as internal to the business service.

How is a business service represented in Asset Manager?

In Asset Manager, a business service is managed as an asset. This asset is the common element around which the business service's client-resource relationships are centralized. This asset can have expense lines and be associated with contracts and users. The clients and resources involved in a business service are hardware or software type portfolio items (or assets).

To represent a business service in Asset Manager:

- 1 Create the asset that represents the business service.
- 2 Create the clients and resources involved in the business service.
- 3 Create the client-resource relationships of the business service.

Prerequisites: Nature and model of a business service

- The nature associated with the business service must allow an asset whose behavior is "Business service" to be created. If this nature does not already exist in Asset Manager:
 - 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
 - 2 Click **New**.
 - 3 Populate the fields and links of the nature's detail with the following values:

Field or link	Value
General tab	
Create (seBasis)	Portfolio item
Also create (OverflowTbl)	(No table)
Note: This field can only be populated from the Windows client.	or Software installations or utilizations (amSoft-Install)
Management constraint (seMgtConstraint)	Unique asset tag
Business service (bSystem)	Check this box

4 Windows client: Click the **Create** button.

Web client: Click the **Save** button.

- The model associated with the business service does not have any special features. Make sure that it is only associated with the appropriate nature. If this model does not yet exist in Asset Manager:
 - 1 Display the models (Portfolio management/ Models link on the navigation bar).
 - 2 Click **New**.
 - 3 Populate the fields and links of the model's detail.
 - 4 Windows client: Click the **Create** button.

Web client: Click the **Save** button.

Creating the asset that represents the business service

- 1 Display the assets (**Portfolio management/ Assets** link on the navigation bar).
- 2 Click **New**.
- 3 Populate the fields and links of the asset's detail.



When the asset's model is populated, the **Business service** tab appears (because the $Business\ service$ behavior is activated in the detail of the nature associated with the model). This tab displays the client-resource relationships defined for the business service represented by the asset.

4 Windows client: Click the **Create** button.

Web client: Click the **Save** button.

Creating clients and resources involved in a business service

The clients and resources of a business service are portfolio items (or assets). This can be elements that are already saved in Asset Manager. If this is not the case, create them: ▶ Portfolio items [page 25]



Resources of the business service must be defined as assets. Applications must have a nature that allows them to be managed as software installations with a unique asset tab. This enables you to:

- Associate expense lines with them
- Manage downtown if a failure occurs ➤ Downtime of a business service's resources
 [page 98]
- Take into account their costs in the business service's TCO calculations ► TCO of a business service [page 103]

Creating client-resource relationships for a business service

You can create as many client-resource relationships as you like as long as they enable you to appropriately describe the exchanges that make up the deployment of the business service:

- Define client-resource relationships in a clear manner adapted to the context.
- Use simple and explicit names for relationship types.

Some best practices

- A portfolio item, client of a resource, can also be a resource for other clients.
- An application involved in a business service must always be associated with the host hardware (server, PC) on which it is installed. In this client-resource relationship, the application is the client and its host is the resource. The host is considered as a full resource of the business service. This is important because:

- It is easier to manage server downtime than downtime for an application that is hosted on the server. An application can be down but not its host. If the host is down, then the application is also down.
- The financial impact is different depending on whether the hardware hosting the application is dedicated to a single business service or if it is used by several business services. For dedicated servers, all hardware, software license and maintenance costs can be directly transferred to the server. This simplifies the evaluation of the total cost of the business service. In all other cases, the costs must be distributed to the clients and resources attached to the server, depending on their involvement in the different business services.
- A resource and its clients can be hosted by the same host hardware.

To create a client-resource relationship type

- 1 Display the client-resource relationship types (**Portfolio management/** Business services/ Client-resource relationship types link on the navigation bar).
- 2 Click **New**.
- 3 Populate the fields and links of the relationship type's detail, notably:
 - Impact of downtime (pClientImpact): Evaluation of the impact of resource's downtime on its clients.
 - Financial impact calculation method (seFinImpactCalc): Method used to redistribute TCO of the resource, at the level of the business service.



It is important to understand the logic behind the different fields and links of the client-resource relationship type detail (see also the Substitute resources can be used (seFailOver), One resource can be defined by default (bDefault), and One single resource per client (bResourceUnicity) fields). They create automatic mechanisms that influence, on a technical (performance) and/or financial (costs) level, the involvement of the associated client-resource relationship, within the business service. For more details, please consult the contextual help on fields and links available in Asset Manager (Shift+F1 keys on the keyboard, on the field or link).

4 Windows client: Click the **Create** button.

Web client: Click the **Save** button.

To create a client-resource relationship

Method 1: using the Create client-resource relationships wizard

- 1 Run and populate the *Create client-resource relationships...* (sysCreateClientsResource) wizard (**Portfolio management/ Business services/ Create client-resources relationships...** browser link).
- 2 This wizard lets you link a resource to one or more clients in a single operation and to create the associated client-resource relationships. It also allows you to define the parameters for each client resource relationship.

Method 2: manually

- 1 Display the client-resource relationship (Portfolio management/ Business services/ Client-resource relationships link on the navigation bar).
- 2 Click **New**.
- 3 Populate the fields and links of the client-resource relationship's detail.
- 4 Windows client: Click the **Create** button.
 Web client: Click the **Save** button.

To view client-resource relationships

The client-resource relationships associated with a business service can viewed:

- From the asset detail that represents the business service (Portfolio management/ Assets link on the navigation bar): Select the Business services tab.
- From the list of client-resource relationships (Portfolio management/ Business services/ Client-resource relationships link on the navigation bar). This window displays all client-resource relationships (even those that have not been defined within the framework of a business service).
- From the list of business services (Portfolio management/ Business services/ Business services link on the navigation bar): in the Business services detail of the business service, the client-resource relationships are grouped depending on the business services to which they are associated.

Downtime of a business service's resources

Downtimes of a business service's resources can be planned (server maintenance) or unplanned (network failure). Depending on the extent of the downtime, the

resource can become partially or totally unavailable for its clients. This can impact the overall performance of the business service.

Resources that depend on portfolio items external to the business service

Some resources, independently from their involvement in a business service, can be linked to other portfolio items on which they are dependent and which do not appear in the functional representation of the business service. These portfolio items are not directly involved in the business service, but can play a major role indirectly since they act as resources for the resources involved in the business service.

For example: A network switch used to connect the servers hosting applications which act as resources for a business service. The relationships between the switch and the servers do not necessarily appear in the business service's client-resource relationships.

These relationships may need to be considered when managing downtime for a business service's resources. The process that analyzes the impact of resource downtime must also account for portfolio items that the resources use, even if these relationships are not specifically defined within the business service. To do this, client-resource relationships that are equivalent to these relationships must be created with the following characteristics:

- The resource of the business service acts as the client
- The portfolio item that is external to the business service and on which the resource is dependent, acts as the resource
- No business service is associated with the relationship

To create these client-resource relationships ▶ To create a client-resource relationship [page 98].

If the relationship type does not exist ▶ To create a client-resource relationship type [page 97].

Doing this allows you to create downtime for the portfolio item on which the business service's resource is dependent and lets you view the impact that this downtime can have on the entire business service even though the portfolio item is considered as being external to the business service.

To create a downtime ▶ Creating resource downtime [page 99].

To view the impact of downtime ▶ Impact analysis wizards [page 102]

Creating resource downtime

Method 1: using a deployment work order

To specify downtime for a work order:

- 1 Go to Work order (Portfolio management/ Extended portfolio/ Work orders/ Work orders browser link).
- 2 Select the work order using which you wish to specify downtime.
- 3 In the **Downtime tab** of the work order detail, click on the **■** icon. This will run the *Create downtime from a work order*... (sysWOCreateDownTime) wizard.
- 4 Populate the *Create downtime using a work order*... wizard by specifying in the *Asset* field the resource that you wish to make unavailable.



you will find the downtime created in the table of *Downtimes* (**Portfolio management/ Business services/ Downtime** browser link).

Method 2: manually

To create a downtime for a resource:

- 1 Display the *Downtimes* (Portfolio management/ Business services/ Downtime link on the navigation bar).
- 2 Click New.
- 3 Populate the fields and links of the downtime detail.



You do not need to populate the business service impacted by the downtime of the resource as the resource may be involved in several business services. Its downtime will be automatically distributed to all appropriate business services.

4 Windows client: Click the **Create** button.

Web client: Click the **Save** button.

Impact of a resource downtime

To evaluate the impact of a resource's downtime, Asset Manager uses the values from two fields:

- The value of the **Effective availability of the asset** (pAvail) field on the resource's downtime detail.
- The value of the **Impact of downtime** (pClientImpact) field of the relationship type detail that links the resource to its clients.

Below is the formula that is used to calculate the impact:

```
% impact of resource downtime
= % effective resource downtime * % downtime impact on the relationship ty
```

```
pe
= (100% - % effective resource availability) * % downtime impact on the re
lationship type
```

The following availability is calculated:

For clients of the resource

```
% availability at client level = 100% - % impact of resource downtime
```

For the business service

% business service availability = sum of availabilities at client level
/ number of impacted clients



- If a client is impacted by several resource downtimes, then the total availability
 at the client level corresponds to the smallest of all availabilities calculated for
 each of the resources that is down.
- Resource downtime is cascaded to clients. This means that if a resource is down, its clients are impacted as well as the clients of the impacted clients (where the impacted clients are resources for other clients). Availability of a business service is only calculated for impacted clients that are not resources for other clients.

Impact of downtime: Examples

- 1 A resource is only 60% available. The relationship type that links this resource to its clients evaluates the impact of the downtime at 40%.
 - The impact of the resource downtime is equal to: (100% 60%) * 40% = 16%
 - The availability at the client level is equal to: 100% 16% = 84%
- 2 An application connects to two different databases: *DB1* and *DB2*. Following network problems, the databases are only 40% available each. The relationship type that links DB1 to its clients evaluates the impact of the downtime at 100%. The relationship type that links DB2 to its clients evaluates the impact of the downtime at 80%.
 - The impact of the *DB1* downtime is equal to: (100% 40%) * 100% = 60%
 - The availability of *DB1* at the application level is equal to: 100% 60% = 40%
 - The impact of the *DB2* downtime is equal to: (100% 40%) * 80% = 48%
 - The availability of DB2 at the application level is equal to: 100% 48% = 52%

The total availability at the application level is equal to 40%.

3 An application is managed as a business service. This business service has the following relationships:

Database (client) uses Server2 computer hardware (resource)

Application (client) uses Server1 computer hardware (resource)

Application (client) connects to database (resource)

The impact of downtime for the "connects to" relationship type is evaluated at 90%. The impact of downtime for the "uses computer hardware" relationship type is estimated at 95%.

At a given period, the database server is only 20% available. Thus:

- The availability of the database is only 24%.
- Clients of the database (the application) are also impacted. The availability at the client level is equal to 31.6%.

Impact analysis wizards

The Impact of downtime on business service... (BstImpactAnalysis Simul) wizard (Portfolio management/ Business services /Impact of downtime on **business service...** browser link) lets you simulate resource downtime for given times and dates and to visualize global availability of a business service and its resources.

These wizards display:

- In the top field: Client level availability
- In the bottom field:
 - the availability of resources.
 - Downtime of portfolio items on which the resources are dependent and for which a client-resource relationship equivalent to the dependent relationship has been created in Asset Manager.



Warning:

This wizard Impact of downtime on a business service... (BstImpactAnalysis_Simul) belongs to the business services Business services - business data; you must therefore import this data to use this wizard.

You have an example of business data import in the Procurement guide, General use chapter, First steps section, Import business data to an existing database paragraph.

Costs linked to a business service

Costs linked to the deployment of a business service originate from the costs of resources and clients involved in the business service:

- Procurement of hardware assets
- Installation of applications and procurement of associated software licenses
- Maintenance contracts, etc

Evaluating these costs requires proper use of Asset Manager's *Procurement*, *Contracts* and *Finance* modules.

Licenses and contracts

These elements can be taken into account as they have a major financial impact on the business service.

For example, some licenses can be completely dedicated to a single business service but attached to a hardware resource that is only partially involved in the business service. Two types of cases can be distinguished:

- For an application dedicated 100% as a business service resource, you can directly define its associated software license as a sub-asset of the hardware resource hosting the application. In this way, the TCO calculation of an asset taking into account the asset and its associated sub-assets, if the financial impact of the hardware resource is estimated at 100%, the software license will be entirely taken into account.
- If a hardware resource that hosts the licensed application is shared by several business services, the license can be defined as a portfolio item (sub-component of no other portfolio item) involved as a resource in the business service. This license is directly associated with the business service, by a relationship that is exclusively financial: The financial impact is estimated at 100% (**Financial impact**(pFinImpact) field of the client-resource relationship's detail) and the technical impact is estimated at 0% (**Impact of downtime** (pClientImpact) of the relationship type's detail).

The cost of contracts are distributed directly to the assets that are associated with these contracts, depending on the selected distribution method (**Prorate to assets** (seProrateRule) field on the contract detail's **Rents** tab). These associated assets must be involved in the business service.

TCO of a business service

The TCO of ownership (TCO) of a business service displays:

- in the detail of client-resource relationships (Total cost of annual ownship (TCO) (mAvgYearlyTco field of the amAsset table)).
- in the ROItab of the business service detail (Total cost of annual ownership (TCO) field (mAvgYearlyTco)).

The calculation sums:

- The TCO of the asset that represents the business service (and its sub-assets).
- The TCO of the resources involved in the business service.

 Calculation of TCO for the resources of the business services depends on the *Financial impact calculation method* (seFinImpactCalc) for the client-resource relationship:
 - If the calculation method is set to *None*: it takes the TCO value of the business service resource.
 - If the calculation method is set to *Use financial impact of the relationship*: the TCO value of the business service resource is multiplied by the financial impact (**Financial impact %** (pFinImpact) field of the client-resource relationship).



The **Financial impact** (PFinImpact) field of a client-resource relationship only appears and is only used when the value of the **Financial impact calculation method** (seFinImpactCalc) field of the relationship type's detail is set to *Percentage usage of the relationship*.

• If the calculation method is set to *Breakdown evenly*: the TCO value of the business service resource is multiplied by:

[1-I]/N

where:

- I represents the sum of financial impacts on the resources for which the calculation of the financial impact of the client resource relationship is set to *Use the financial impact of the relationship*.
- N is the number of resources for which the calculation method for finanancial impact of the client-resource relationship type is set to *Breakdown evenly*.

This is done for *each* client-resource relationship, even if the resource is used several times.

The TCO of clients is not taken into account

For more information on TCO (main concepts, calculations, TCO of a business service) ► *Financials* guide, *TCO (Total Cost of Ownership)* chapter.

Practical case

To illustrate management of a business service, we are going to look at AssetCenter Web as a business service. Asset Manager Web. Asset Manager Web is a service that lets users access the web interface of the Asset Manager application. The main elements involved in the deployment of this business service are:

- Software elements:
 - Instance of an Oracle database
 - Apache Tomcat web server
 - Asset Manager Web Service web application
 - Asset Manager Web Tier web application The Asset Manager Application Designer process is added to insert the Asset Manager user license and the Asset Manager Automated Process Manager process to manage the monitoring system (alarms, workflows, etc.) and to automatically trigger actions from Asset Manager Web.

Hardware elements:

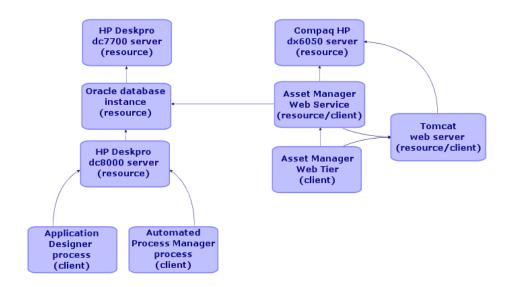
- Compaq HP dx6050 server on which the Oracle database is installed.
- HP Deskpro dc7700 server on which the Asset Manager Web Service and Asset Manager Web Tier applications are deployed via the Tomcat web server.
- HP Deskpro dc8000 server on which the Asset Manager Automated Process Manager and Asset Manager Application Designer applications are installed.

In order for the Asset Manager Web to be deployed (and made available via a user's web browser for example):

- Asset Manager Web Service connects to the Oracle database instance.
- Asset Manager Web Tier connects to Asset Manager Web Service.
- Asset Manager Automated Process Manager and Asset Manager Application Designer connect to the Oracle database instance.

This business service can be represented as in the following diagram:

Figure 5.1. Practical case - Functional representation of the "Asset Manager Web" business service



The Compaq HP dx6050 server undergoes a monthly maintenance operation during which the server is only 20% available.

The goal of this practical case is to:

- 1 Define the business service by creating the client-resource relationships that compose it.
- 2 Simulate downtime of the Compaq HP dx6050 server and analyze the impact on the total availability of the business service.
- 3 Analyze the financial impact of the different components of the business service

Here are the steps of the scenario:

- 1 Create the asset that represents the business service.
- 2 Create clients and resources involved in the deployment of the business service.
- 3 Create client-resource relationship types.
- 4 Create the client-resource relationships of the business service.
- 5 $\,$ Simulate the downtime of the Compaq HP dx6050 server.
- 6 Analyze the financial impact.

Step 1: Create the asset that represents the business service

Creating the nature

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

Field or link	Value
Name (Name)	PC_Business service
General tab	
Create (seBasis)	Portfolio item
Also create (OverflowTbl)	(No table)
Management constraint (seMgtConstraint)	Unique asset tag
Business service (bSystem)	Check this box

Creating the model

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

Field or link	Value
Name (Name)	PC_Asset Manager Web business service
General tab	
Nature (Nature)	PC_Business service

Creating the asset

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

Field or link	Value
Model (Model)	PC_Asset Manager Web business service

Step 2: Create clients and resources involved in the deployment of the business service

Creating the natures



Note:

You can only create these natures from the Windows client because the **Also create** field cannot be populated from the Web client.

- 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)	PC_Host servers
General tab	
Create (seBasis)	Portfolio item
Also create (OverflowTbl)	Computers (amComputer)
Management constraint (seMgtConstraint)	Unique asset tag
Has software installed (bHasSoftInstall)	Check this box
Type of equipment	Computer

Field or link	Value
Name (Name)	PC_IT applications
General tab	
Create (seBasis)	Portfolio item
Also create (OverflowTbl)	Software installations or utilizations (amSoftIn-
	stall)
Management constraint (seMgtConstraint)	Unique asset tag

Creating 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)	PC_Compaq HP dx6050 server
General tab	
Nature (Nature)	PC_Host servers
Field or link	Value
Name (Name)	PC_HP Deskpro dc7700 Server
General tab	_
Nature (Nature)	PC_Host servers
Field or link	Value
Name (Name)	PC_HP Deskpro dc8000 Server
General tab	
Nature (Nature)	PC_Host servers
Field or link	Value
Name (Name)	PC_Oracle instance
General tab	
Nature (Nature)	PC_IT applications
Field or link	Value
Name (Name)	PC_Asset Manager Web Service
General tab	
Nature (Nature)	PC_IT applications
Field or link	Value
Name (Name)	PC_Asset Manager Web Tier
General tab	
Nature (Nature)	PC_IT applications
Field or link	Value
Name (Name)	PC_Apache Tomcat server
General tab	DO III
Nature (Nature)	PC_IT applications
Field or link	Value
Name (Name)	PC_Server process
General tab	

Field or link	Value
Nature (Nature)	PC_IT applications
Field or link	Value
Name (Name)	PC_Administrator process
General tab	
Nature (Nature)	PC_IT applications

Creating assets corresponding to resources



Tip:

Resources of the business service are managed as assets in order to create downtimes for them if necessary.

- 1 Display the assets (**Portfolio management/ Assets** link on the navigation
- 2 Create the following records by populating the fields and links as shown in the following tables:

Field or link	Value
Model (Model)	PC_Compaq HP dx6050 server
Field or link	Value
Model (Model)	PC_HP Deskpro dc7700 Server
Field or link	Value
Model (Model)	PC_HP Deskpro dc8000 Server
Field or link	Value
Model (Model)	PC_Oracle instance

- Windows client:
 - 1 Click the **Create** button.
 - 2 Go to the **Portfolio** tab.
- Web client:
 - 1 Click the **Save** button.
 - 2 Go to the **Portfolio** tab.
 - 3 Click the CP_Instance Oracle link.
 - 4 Click Modify.

Portfolio tab

Field or link	Value
Component of (Parent)	PC_Compaq HP dx6050 server
Web client:	
1 Ol: 1 1 P 1 11	

- Click the **Save** button.
- Click the link Return to main document.

Field or link	Value
Model (Model)	PC_Apache Tomcat server

- Windows client:
 - 1 Click the **Create** button.
 - 2 Go to the **Portfolio** tab.
- Web client:
 - 1 click the **Save** button.
 - 2 Go to the **Portfolio** tab.
 - 3 Click the link CP_Serveur Apache Tomcat.
 - 4 Click Modify.

Portfolio tab PC_HP Deskpro dc7700 Server Component of (Parent) Web client:

- 1 Click on the **Save** button.
- 2 Click the link Retour au document principal.

Field or link	Value
Model (Model)	PC_Asset Manager Web Service

Creating portfolio items corresponding to clients

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

Field or link	Value
Model (Model)	PC_Asset Manager Web Tier
Field or link	Value
Model (Model)	PC_Server process
General tab	

Field or link	Value
Component of (Parent)	PC_HP Deskpro dc8000 Server
F. 11 1. 1. 1	W.I
Field or link	Value
Model (Model)	PC_Administrator process
General tab	
Component of (Parent)	PC_HP Deskpro dc8000 Server

Step 4: Create client-resource relationship types

- Display the client-resource relationship types (Portfolio management/ Business services/ Client-resource relationship types 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)	PC_Uses the database
General tab	
Impact of downtime (pClientImpact)	90%
One single resource per client (bResourceUnicity)	Clear this option
Financial impact calculation method (seFinIm-	Usage of the financial impact of the relationship
pactCalc)	

Field or link	Value
Name (Name)	PC_Is deployed on
General tab	
Impact of downtime (pClientImpact)	100%
One single resource per client (bResourceUnicity)	Clear this option
Financial impact calculation method (seFinIm-	Usage of the financial impact of the relationship
pactCalc)	

Field or link	Value
Name (Name)	PC_Connects to
General tab	
Impact of downtime (pClientImpact)	95%
One single resource per client (bResourceUnicity)	Clear this option

Field or link	Value
Financial impact calculation method (seFinIm-	Usage of the financial impact of the relationship
pactCalc)	

Field or link	Value
Name (Name)	PC_Uses computer hardware
General tab	
Impact of downtime (pClientImpact)	100%
One single resource per client (bResourceUnicity)	Clear this option
Financial impact calculation method (seFinIm-	Usage of the financial impact of the relationship
pactCalc)	

Step 5: Create the client-resource relationships of the business service

- 1 Run the Create client-resource relationships wizard (sysCreateClientsResource) (Portfolio management/ Business services/ Create client-resource relationships... browser link).
- 2 Populate the *Create client-resource relationships...* wizard as shown in the following tables:

Field or link	Value	
Page Select the resource of the selected business service		
Business service	PC_Asset Manager Web business service	
Resource	PC_Compaq HP dx6050 server	
Click Next		
Page Select the clients of the selected business ser	vice	
Clients	PC_Oracle instance	
Click Next		
Page Define the parameters of the client-resource	relationship	
Select PC_Oracle Instance		
Relationship type	PC_Uses computer hardware	
Financial impact	40	
Click on Apply to all selected clients		
Click Next		
Page Summary		
Re-run the Create client-resource relationships	Check this box	
wizard after clicking on Finish		
Click on Finish		
Click OK		

Field or link	Value
Page Select the resource of the selected business service	
Business service	PC_Asset Manager Web business service

Field or link	Value
Resource	PC_Oracle instance
Click Next	
Page Select the clients of the selected business ser	vice
Clients	■ PC_Server process
	 PC_Administrator process
	■ PC_Asset Manager Web Service
Click Next	
Page Define the parameters of the client-resource	relationship
Select PC_Server Process	
Relationship type	PC_Uses the database
Financial impact	20
Click on Apply to all selected clients	
Select PC_Administrator Process	
Relationship type	PC_Uses the database
Financial impact	15
Click on Apply to all selected clients	
Select PC_Asset Manager Web Service	
Relationship type	PC_Uses the database
Financial impact	8
Click on Apply to all selected clients	
Click Next	
Page Summary	
Re-run the Create client-resource relationships	Check this box
wizard after clicking on 'Finish'.	
Click Finish	
Click on OK	
<u> </u>	

Field or link	Value
Page Select the resource of the selected business s	ervice
Business service	PC_Asset Manager Web business service
Resource	PC_HP Deskpro dc7700 Server
Click Next	
Page Select the clients of the selected business	
service	
Clients	PC_Apache Tomcat server
Click Next	
Page Define the parameters of the client-resource	relationship
Select PC_Apache Tomcat Server	
Relationship type	PC_Uses computer hardware
Financial impact	35
Click on Apply to all selected clients	
Click Next	
Page Summary	
Re-run the Create client-resource relationships	Check this box
wizard after clicking on 'Finish'.	

rield or link	value
Click Finish	
Click on OK	
Field or link	Value
Page Select the resource of the selected business se	
Business service	PC_Asset Manager Web business service
Resource	PC_Apache Tomcat server
Click Next	
Page Select the clients of the selected business ser	vice
Clients	■ PC_Asset Manager Web Service
	■ PC_Asset Manager Web Tier
Click Next	-
Page Define the parameters of the client-resource	relationships
Select PC_Asset Manager Web Service and PC_As	
Relationship type	PC_Is deployed on
Financial impact	10
Click on Apply to all selected clients	
Click Next	
Page Summary	
Re-run the Create client-resource relationships	Check this box
wizard after clicking on 'Finish'.	
Click Finish	
Click the OK button	
Field or link	Value
Page Select the resource of the selected business se	
Business service	PC_Asset Manager Web business service
Resource	PC_Asset Manager Web Service
Click Next	5
Page Select the clients of the selected business ser	vice
Clients	PC_Asset Manager Web Tier
Click Next	5
Page Define the parameters of the client resource	relationship
Select PC_Asset Manager Web Tier	-
Relationship type	PC_Connects to

Value

Field or link

Financial impact

Summary of changes page

Click the **OK** button

Click Next

Click Finish

Click on Apply to all selected clients

To view all client-resource relationships of the business service:

100

- 1 Display the *Business services* (Portfolio management/ Business services/ Business services link on the navigation bar).
- 2 In the **Business services** tab of the business service detail *PC_Business* service Asset Manager Web, you can see all the client-resource relationships of the business service, listed by client-resource relationship type.

Step 6: Simulate the downtime of the Compaq HP dx6050 server

- 1 Display the Impact analysis: Simulation wizard (Portfolio management/Business services/Impact of downtime on a business service... link on the navigation bar).
- 2 On the first page of the wizard:
 - 1 Select the *PC_Business service Asset Manager Web* web business service.
 - 2 Click **Next**.
 - Availabilities of all resources are set to 100%.
 - 3 In the **Availability** column, set the availability of PC_Compaq HP dx6050 server to 20, then click **Finish**.

The wizard displays the results of the simulation:

- PC_Oracle instance is impacted because it is a client of PC_Compaq HP dx6050 server. Its availability is now 20%.
- PC_Asset Manager Web Service, PC_Server process and PC_Administrator process are impacted because they are clients of PC_Oracle instance. The availability of each of these clients falls to 28%.
- PC_Asset Manager Web Tier is impacted because it is a client of PC_Asset Manager Web Service. The availability for this client falls to 31.6%.
- The total availability of the business service is calculated taking into account impacted clients that are not also used as resource by other clients: These are PC_Asset Manager Web Tier, PC_Server process and PC_Administrator process. The availability of the business service is equal to:

% availability PC_Asset Manager Web Tier + % availability PC_Server process + % availability PC_Administrator process / 3 = 29.2%.

Step 7: Analyze the financial impact

Thanks to the features available in Asset Manager's *Procurement*, *Contracts* and *Finance* modules, users can evaluate the different expenses that contribute to the costs linked to the business service, including:

- Procurement of host servers: Expense lines are generated for each purchase.
- Cost of the Asset Manager license and the associated maintenance contract: The Asset Manager license (useful for deploying Asset Manager Web) is completely dedicated to the business service. Its cost will be entirely transferred to the business service. The license will be created as a resource associated directly to the business service by a client-resource relationship that is exclusively financial (Financial impact equals 100% and Impact of downtime equals 0%). It is important to associate a rent to the maintenance contract attached to this license. This will ensure that the expense lines generated by the contract are transferred to the license and, ultimately, to the TCO of the business service.
- Cost of the Oracle license associated with PC_Oracle instance: The cost of this license is partially transferred because the financial impact of the PC Oracle instance resource is only 30%.
- Operational costs for servers and applications: Expense lines generated by installations, internal chargeback processes, etc.

The TCO of the business service will be the sum of the TCO of the PC_Asset Manager Web business service asset (asset that represents the business service) and the TCOs of the business service's resources, taking into account the financial impact that is evaluated for each client-resource relationship.

6 Work orders and projects

Portfolio items can be involved in work orders (maintenance) or can be included in projects that necessitate their use (need IT hardware for a long-term training session).

Work orders

A work order is an operation carried out on a portfolio item to resolve a problem: Service, user support, repair, relocation, etc.

To display the list of work orders, click the **Portfolio management/ Extended portfolio/ Work orders** link on the navigation bar.

Work orders are described as a tree structure of work orders (or sub-tasks). You can assign as many sub-tasks to a work order as you like. A work order can be based on a work-order template. A template describes a generic work order or a standard procedure. The information defined in the template is copied over to the work order detail.

Sub-tasks are also work orders. They enable a work order to be divided up into elementary work orders. All sub-tasks must be performed for the work order to be complete.

The sub-task of a work order can be performed sequentially or simultaneously. The **Sequencing** field (SQL name: lSequenceNumber) enables you to specify the order of sub-tasks. This field has the following conditions attached to it:

Two work orders with the same sequencing level can be executed in parallel.

 A lower number indicates a higher priority in performing the work order/sub-task.



The **Sequencing** field (SQL name: ISequenceNumber) is not linked to any automatic mechanisms in Asset Manager. It is used to give the user a more specific idea of the order in performing work orders.

Types of work orders

The **Type** field (SQL name: seType) in the **General** tab of the work order detail indicates the type of work order. This field is associated with a system-itemized list.

The fields in the **Tracking** tab in the work order detail vary according to the type of selected work order.

Internal maintenance

You can specify the technician and group in the **Technician** and **Group** fields (SQL name: Technician and EmplGroup) in the **Technician** sub-tab of the **Tracking** tab.

On-contract maintenance

In general, all work orders performed under contract are not invoiced.

- The Contract field in the Technician sub-tab of the Tracking tab enables you to select the contract associated with the work order. Asset Manager only displays contracts associated with the portfolio item concerning this work order.
- You can specify the technician and company in the Technician (SQL name: Contact) and Company (SQL name: Supplier) fields in the Technician sub-tab of the Tracking tab. If you populated the Company field before populating the Technician field, Asset Manager displays contacts from the selected company only.

Off-contract maintenance

These work orders are just that: work orders not covered by the existing maintenance contract or work orders concerning companies with which no contract has been signed. In general, these calls are invoiced.

■ If this is a work order not covered by an existing maintenance contract, you can specify the contract in the **Contract** field (SQL name: Contract) in the

- **Technician** sub-tab of the **Tracking** tab. Asset Manager displays the contracts associated with the asset only.
- You can specify the technician by indicating a person from the list of contacts for all third-party companies in the **Technician** field (SQL name: Contact) in the **Technician** sub-tab of the **Tracking** tab. If you populated the **Company** field (SQL name: Supplier), Asset Manager displays contacts from the selected company only.

Evolution of work orders

Life-cycle of a work order

The life-cycle of a work order is as follows:

Figure 6.1. Work order - Full cycle



Each step of this cycle occurs on or is scheduled for a given date. The transition to a given stage is reflected in the **Status** field (SQL name: seStatus).

Table 6.1. Work order - The different statuses

Stage	Status
Notification of work order	Notified
Start of work order	In progress
End of work order	Closed

The detail screen of a work order and the **Scheduling** sub-tab of its **Tracking** tab specify the dates of the different stages: date of notification, planned start date, actual start date, etc.

Status of a work order and automatic mechanisms

The **Status** field (SQL name: seStatus) at the top of a work order specifies its status. This field is automatically calculated by Asset Manager according to the dates given in the **Scheduling** sub-tab of the **Tracking** tab of the work order slip or following an action performed by a user clicking one of the action buttons:

- By default, the status of the work order is: Notified.
- The status changes to Scheduled when the Planned start field (SQL name: dtSchedFixStart) is populated.
- The status changes to **In progress** in of the following cases:
 - The *Actual start* field (SQL name: dtActualFixStart) is populated.

 - The status of one of the work orders is In progress.
- The status of the work order changes to **Closed** in the following cases:
 - The user clicks the Close button.
 - All the sub-work orders of a work order are Closed.

Tracking work orders

The **Tracking** tab in a work order detail enables you to accurately control the scheduling and performance of a work order.

This tab is divided into a series of sub-tabs.

- The **Technician** tab details, according to the work order type, the information concerning the person responsible for the work order.
- The **Sub-tasks** tab enables you to structure a work order hierarchically by dividing it into a series of sub-work orders. These can be performed in parallel or sequentially according to the value of the **Sequencing** field (SQL name: lSequenceNumber) for each of the sub-work orders.
- The **Scheduling** tab shows a schedule of the work order: Planned date of resolution, Actual date of resolution, date-third party maintenance called (in the case of an **On-contract maintenance** or **Off-contract maintenance** type contract). You can also select a business period calendar that will be used by Asset Manager in calculating dates and time limits linked to the work order.
- The Close tab details the information linked to the end of the work order.

Managing work orders



This operation can only be done using the Windows client.

For ease of use, we recommend customizing the link associated with the **Asset** field in the Work Orders table and create a virtual hierarchy.

To customize the displaying of the link associated with the asset:

- 1 Right-click the **Asset** field
- 2 Select Properties of link editor/ Group by/ Select a grouping
- 3 In the window that is displayed, select the model associated with the asset (**Model** link).

Now the list of assets is displayed hierarchically according to the models associated with the assets.

When a problem is reported, create a work order report using one of two methods:

- Display the list of work orders (Portfolio management/ Extended portfolio/ Work orders link on the navigation bar) and click New.
- Or display the **Maint.** tab of the asset detail and then click the button to add a service report.

Technicians can find the work orders that concern them by displaying either a view or the work orders list with an appropriate filter (for example, a filter that combines criteria covering fields such as **Technician** (SQL name: Contact), **Company** (SQL name: Supplier), **Maint. provider #** (SQL name:

MaintNumber), **Status** (SQL name: seStatus), **Priority** (SQL name: Priority)).

The administrator may regularly analyze the work in progress using views or filters:

- Work orders that have not yet been scheduled: Status = Notified.
- Late work orders: Status = **Scheduled** and the **Planned start** (SQL name: dtSchedFixStart) < today's date.
- Ongoing work orders: Status = In progress.
- List of work orders whose status is In progress by technician, third party company, or contract.

The administrator may regularly analyze the work performed using views or filters:

- Difference between the scheduled duration and the actual duration.
- Analysis of the time required to resolve the call.
- Difference between the date of the call to the maintenance supplier and the first call date, compared to the first call delay specified in the contract.

Projects

A project lets you describe an operation concerning a group of assets and/or persons.

To create a project:

- 1 Use the **Portfolio/ Projects** menu to display the list of projects.
- 2 Create a new project by clicking **New**.
- 3 Fill in the fields in the **General** tab, especially the end of project date and if necessary an alarm **8**.
- 4 Use the **Assets** tab to add the assets used for the project.
- 5 Specify the employees concerned by the project in the **Employees** tab.
- 6 If you need to add other assets to the project at a later date, start either from the **Projects** tab in the details of the assets to be added, or from the **Assets** tab in the project detail.
- 7 Check the status of current projects regularly. Filters and views offer possibilities that make this easy. You can combine criteria concerning the **Start, End** and **Status** fields (SQL names: dStart, dEnd, and Status) to view projects that are underway, late, etc.

7 Adjusting items

Adjusting items are records in the database that enable you to adjust one or more fields with other records.

Adjusting items and target items

An adjusting item adjusts a field of one or more target items. The adjusting items can be:

- Portfolio items
- Work orders
- Contracts
- Trainings
- Cables

Target items are items with a link to an adjusting item.

Example: The record of a monitor (*Adjusting item*) in the portfolio updates the number of monitors of the computer (*Target item*) to which it is attached.

The types of field adjustments are defined in the models of the adjusting items. There are three types of field adjustments:

Addition

Example: Creating 256 MB memory module in the portfolio adds 256 to the *Memory* field of the computer to which it is installed.

Subtraction

Example: Creating a 10-hour work order on an asset subtracts *10* from the *Duration* field in the first work order for the same asset.

Replacement

Example: Creating a contract covering an asset replaces the previous contract that covered this asset.

The main tables concerned by the adjustment process are the:

Natures table (amNature)

This table enables you to define the model of the adjusting item.

Models table (amModel)

This table enables you to create the models of the adjusting items. Field adjustment types are defined for each one of these models.

Field adjustment types table (amFieldAdjustTempl)

Each type of field adjustment contains the following information:

- The table of the adjusting item: Portfolio items, Work orders, Contracts, Trainings, Cables.
- The link of the adjusting item to the target item that triggers the adjustment.

Example: The action of linking the adjusting item to its parent item (a printer to a computer, for example).

■ The field of the target item that must be modified.

The field can be one of the fields in the target item's record or it can be linked directly or indirectly to the record of the target item.

- A script indicating the adjusting value of the field.
- The table of adjusted fields (amFieldAdjustment).

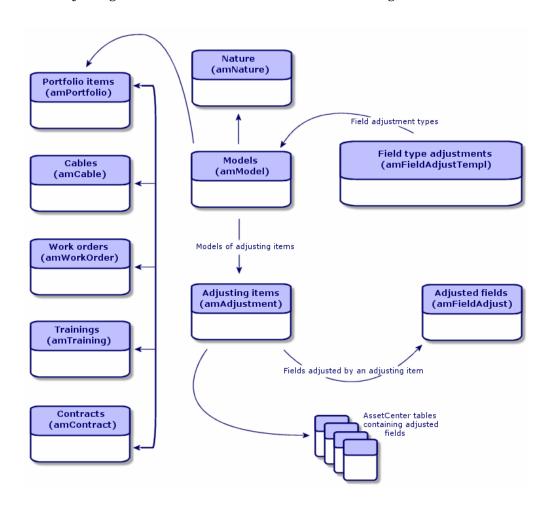
The record of each adjusted field details:

- Its date of adjustment.
- Its value before the adjustment.
- $\,\blacksquare\,$ Its value after the adjustment.
- The series of links that enable you to access it from the table of the target record.
- The table of adjustments (amAdjustment).

This table regroups all the adjusting items created in the database.

- The Portfolio items, Cables, Work orders, Trainings and Contracts tables.
 These tables contain the records of items that can become adjusting items.
- All the Asset Manager tables.

These tables contain the target items of the adjustments. Via the use of direct or indirect links, the record of an adjustment item has the possibility of adjusting all the fields of all the tables in Asset Manager.



Using adjusting items

Adjusting a field using an adjusting item consists of:

- 1 Creating a model of an adjusting item.
- 2 Defining the field adjustment type in this model.
- 3 Creating the adjusting item.
- 4 Creating the link that triggers the adjustment of the field.

Creating the model of the adjusting item

▶ Creating a portfolio item model [page 27]



All the models are adjusting item models except those models whose nature creates nothing. (Make sure that the **Creates** field of the model's nature is not set to *Nothing*.)

Defining a field adjustment type

In order that an adjusting item can adjust a field, you must define an adjustment type for this field in its model. To define a field adjustment type:

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Select the model to adjust.
- 3 Click the Adjust. types tab.
- 4 Click
- 5 In the Field to adjust field, specify
 - The link to the target item that will trigger the adjustment of the field.
 - The complete path (link or series of links) that indicates the field to adjust.

```
Parent.Computer.LMemorySizeMb
```

Example: For an adjusting item of the portfolio, you would enter for the

Target:

Parent indicates the link that will trigger the adjustment. In this case, the action of linking the adjusting item to a parent record in the Portfolio items table: the target item.

Computer.LMemorySizeMb indicates the path leading to the LMemorySizeMb field: the field to adjust.

- 6 Choose a type of adjustment in the **Operation** field: Replacement, Addition, Subtraction.
- 7 Enter a script in the **Source** field, which returns the value of the adjustment.

```
RetVal = [Model.fv memory module]
```

Example: In the case of an addition, this script indicates that the value of the *fv_memory_module* field of the model of the adjusting item is added to the field to adjust.

8 Validate the creation of this field adjustment type by clicking **Add**.

Creating an adjusting item

▶ Creating an asset [page 31]

This section explains how to create a portfolio item corresponding to an asset. To create adjusting items other than portfolio items, refer to the guides relating to those items. For example, see the *Contracts* guide if you want to create an adjusting contract.

Creating the link triggering the field adjustment

In order for a field to be adjusted, you must create the link specified in the field adjustment type.

If, for an adjusting portfolio item, the link triggering the adjustment is the **Component of** link (**Parent**):

- 1 Select the adjusting item in the Portfolio items table.
- 2 Select the **General** tab.
- 3 Enter or create the **Component of** link.
- 4 Make sure that the field of the target item has been correctly adjusted.

Adjusting a field - Example

The following sections detail the steps of an example that enables you to adjust the **Memory** field. This field is in the record of a computer using an adjusting item, which corresponds to a 256 MB memory module.

This 256 MB of supplementary memory is added to the value of the computer's **Memory** field (**IMemorySizeMb**) of the computer as soon as the link between this computer and the memory module is created in the Portfolio items table.

Details of the example	
Adjusting item	RAM_256 record of the Portfolio items table.
Target item	Adjusted_computer record of the Portfolio items
	table.
Field to adjust	The Memory field (IMemorySizeMb) of the
	$Adjusted_computer\ record.$
Type of adjustment	Addition of the RAM value to the computer's
	RAM.

Details of the example	
Link triggering the adjustment.	The Component of link (Parent) between
	the RAM and the computer.

1 - Creating the target item

- 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
- 2 Click **New**.
- 3 Enter Computer in the Name field (Name).
- 4 Select Computer in the Also create field (seOverflowTbl).
 Creating natures: ▶ Creating a nature for computers [page 55].
- 5 Click Create.
- 6 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 7 Click **New**.
- 8 Enter Adjusted_computer in the Name field (Name).
- 9 Select Computer for the Nature link (Nature).Creating models: ▶ Creating a computer model [page 56].
- 10 Click Create.
- 11 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 12 Click New.
- 13 Select $Adjusted_computer$ for the Model link (Model).
- 14 Click Create.

Overflow tables: ▶ Overflow tables [page 16].

Creating computers: ▶ Create computers manually [page 57].

Creating a portfolio item based on a computer model automatically creates a record in the Computers table.

- 15 Select the **Hardware** sub-tab of the **Computer** tab.
- 16 Populate the Memory field (lMemorySizeMb) with the value 256.
- 17 Click Modify.

2 - Adding the memory_module feature to the Models table

1 Display the features (**Administration / Features / Features** link on the navigation bar).

- 2 Click **New**.
- 3 Enter the value *memory_module* in the **Title** field (**TextLabel**).
- 4 Select the **Input** tab.
- 5 Select *Numerical* in the **Input type** field (**seDataType**).
- 6 Click Create.
- 7 Select the **Parameters** tab.
- 8 Click •
- 9 Select *Models* (amModel) in the **Table** field (**TableName**).
- 10 Select the Constraints tab.
- 11 Select Yes for the Available field (seAvailable).
- 12 Click Add.
- 13 Wait for the list of features to appear.
- 14 Click Modify.

3 - Creating the adjusting item

- 1 Display the natures (**Portfolio management/ Natures** link on the navigation bar).
- 2 Click **New**.
- 3 Enter *Adjustment* in the **Name** field (**Name**).
- 4 Verify that *Portfolio item* has been selected in the **Create** field (**seBasis**). Creating natures: Creating the nature for a portfolio item [page 26].
- 5 Click Create.
- 6 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 7 Click **New**.
- 8 Enter *RAM 256* in the **Name** field (**Name**).
- 9 Select Adjustment for the Nature link (Nature).
- 10 Select the **Features** tab.
- 11 Click •
- 12 Select the $memory_module$ feature (fv_ram) in the window that appears.
- 13 Click **OK**.
- 14 Assign this feature the value 256.
- 15 Click Create.
- 16 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).

- 17 Click **New**.
- 18 Select *RAM 256* for the **Model** link (**Model**).
- 19 Validate this creation by clicking **Create**.

4 - Creating an adjustment type for the model of the adjusting item.

- 1 Display the models (**Portfolio management/ Models** link on the navigation bar).
- 2 Select the *RAM_256* model that you created in the previous step.
- 3 Click the Adjust. types tab.
- 4 Click ■
- 5 Enter Parent. Computer. lMemory SizeMb in the Field to adjust field (Target Field).
 - You can also use the button to find this link to the **Memory** field (**IMemorySizeMb**) in the Computers table.
- 6 Enter RetVal=[Model.fv_memory_module] in the Source editable field (memScript).
- 7 Select Addition in the Operation field (seOperation).
- 8 Click Add.
- 9 Click Modify.

5 - Triggering the adjustment

- 1 Display the portfolio items (**Portfolio management/ Portfolio items** link on the navigation bar).
- 2 Select the RAM 256 record.
- 3 Select the **General** tab.
- 4 Select the *Adjusted_computer* record for the **Component of** link.
- 5 Click **Modify**.

6 - Verifying the adjustment

- Display the computers (Portfolio management/ IT/ IT equipment/ Computers link on the navigation bar).
- 2 Select the Adjusted_computer record.
- 3 Select the **Hardware** tab.
- 4 Make sure the **Memory** field (**IMemorySizeMb**) is set to *512* (256 + 256).

7 - Complete information about the adjusted field

- 1 Display the computers (Portfolio management/ IT/ IT equipment/ **Computers** link on the navigation bar).
- 2 Select the *Adjusted_computer* record.
- 3 Select the Adjusted fields tab.
- 4 Select the record corresponding to the **Memory** field (**IMemorySizeMb**).
- 5 Click \(\mathbb{\text{ to obtain all the information on the adjusted field.} \)
 - Date of adjustment.
 - Value of the field before adjustment
 - Etc.

8 Glossary

This section proposes a glossary of terms used in portfolio management.



The terms do not appear in alphabetical order.

Portfolio items

Nature

A record in the Natures table determines the type of item a model can create. When you create a model, you must indicate its nature. The model is then based on this particular nature.

Natures are available for the following models:

- Portfolio items
- Work orders
- Contracts
- Trainings
- Cables

When you create a nature, you define certain parameters that will influence the models based on this nature. Example: Setting the nature's **Management** **constraint** field (seMgtConstraint) to *Free* enables you to create models of portfolio items that do not have records in the Assets table.

Model

A record in the Models table enables you to create records in the following tables:

Portfolio items

The creation of a portfolio item is sometimes accompanied by the simultaneous creation of a record in one of the following overflow tables:

- Assets table
- Computers table
- Telephones table
- Software installations table
- Work orders
- Contracts
- Trainings
- Cables

When you create a portfolio item, you must specify the model on which it is based. The data entered for a model is automatically reproduced in the records of the portfolio items. Examples: the CPU type of a computer; the applicable tax rate; the length of a contract, etc.

The hierarchical structure of the Models table helps you organize your portfolio. We recommend that you create generic models that encompass more specific sub-models. Example: Printer/Laser printer/Laserjet printer 8000DN.

Portfolio item

Records in the Portfolio Items table are based on models from which they inherit the features. Depending on the importance of a portfolio item, a management constraint is chosen in the nature of the model on which the item is based. This constraint conditions whether a portfolio item is created as an asset, a batch or an untracked batch. Depending on the overflow table indicated in the nature of the model, a record created in the Portfolio Items table also creates a record in one of the following tables:

- Assets table
- Computers table
- Telephones table
- Software installations table

Asset

A record in the Assets table corresponds to a portfolio item whose monetary value is high enough to necessitate individual tracking. In Asset Manager, each asset corresponds to two linked records: one in the Portfolio items table; the other in the Assets table. In order for the creation of a record in the Portfolio items table to create the simultaneous creation of a record in the Assets table, you must select the correct management constraint: In the nature of this portfolio item's model, you must set the **Management constraint** field (seMgtConstraint) to *Unique asset tag*.

While it is true that all assets are portfolio items, it is not true that all portfolio items are assets.

Overflow table

An overflow table holds records that were created there simultaneously when they were originally created in another table.

In Asset Manager, an overflow table can be specified in the nature of a portfolio item's model. According to this nature, the creation of a portfolio item's record in the Portfolio items table can be accompanied by the simultaneous creation of a record in one of the following overflow tables:

- Assets table
- Computers table
- Telephones table
- Software installations table

Batch

A batch is composed of several identical items whose quantity is expressed either in number of items (a batch of 100 chairs) or in a unit of measurement (a batch of one ton of sand). The creation of a batch means that two linked records will be created: one in the Portfolio items table; one in the Assets and batches table. In the portfolio, a batch can be divided between several locations, for example. Each division creates a second record, and the quantity of the divided batch is reduced by the number of items taken out to make the new batch. Example: Ten chairs from a batch of 100 chairs is relocated to another department. The quantity of this batch drops to 90 chairs, and a second batch record is created having a quantity of 10 chairs.

Untracked batch

An untracked batch is a batch that doesn't correspond to any records in the Assets and batches table. To create an untracked batch, its nature must have

a free management constraint. Untracked batches are reserved for items of little value: supplies and consumables. As such, there is no tracking information associated with this kind of batch either. To turn an untracked batch into a tracked batch, you must create a corresponding link in the Assets and batches table (using the **Tag** button in the Portfolio items table).

Consumable

Consumables are portfolio items. When you select **Consumable** in the nature of a model, it indicates that the portfolio items based on this model are consumables.

Management constraint

The management constraint of a portfolio item is indicated in its nature. This constraint determines the use of an asset tag: A portfolio item that has an asset tag is automatically recorded in both the Portfolio items table and the Assets and batches table. A portfolio item without an asset tag is only recorded in the Portfolio items table.

Three management constraints are available:

- Unique asset tag
 - This management constraint is reserved for individual assets in your portfolio that will have a unique asset tag.
- Asset tag
 - This management constraint is reserved for tracked batches. An asset tag is assigned to this kind of batch when it's created. All sub-batches resulting from the division of this batch will also share the same asset tag. (They all correspond to the same record in the Assets and Batches table.)
- Free

This management constraint is reserved for untracked batches. No asset tags are assigned to this kind of batch upon its creation, nor do any records correspond to this portfolio item in the Assets and Batches table. The management constraint is free because you can, at any moment, assign an asset tag to an untracked batch to turn it into a tracked batch.

Management type

Three types of management types are available in Asset Manager:

- Individualized management
 Used for assets. Each asset is tracked individually.
- Collective management

Used for batches. The items in the batch are not tracked individually in the Assets and Batches table, but instead they are tracked collectively. Example: The acquisition price of the batch does not correspond to each item in that batch, but to all the items in that batch.

Undifferentiated management

Used for untracked batches. The items in the batch are only recorded in the Portfolio items table. However, you can decide to assign an asset tag to an untracked batch at any time so that it benefits from the tracking methods in place for tracked batches. You can even turn an untracked batch into an individual asset, if there is only one item in the batch.

Tracking

Each record in the Assets and Batches table benefits from triple-tracking:

Technical tracking

Example: the hardware features of a computer.

Financial tracking

Example: the depreciation type of an asset.

Contractual tracking

Example: the maintenance contracts linked to a server.

Stock

A stock contains the items in your portfolio that have not yet been assigned. Asset Manager enables you to assign rules to a stock that trigger automatic purchase requests in order to replenish that stock.

Assignment

The assignment of a portfolio item defines its status in your portfolio. In Asset Manager, the different possible assignments are: In use, In stock, Retired (or consumed), Awaiting receipt, Return for maintenance, Return to supplier or Missing.

Quantity

Quantities are reserved for describing portfolio items that are managed in batches. The quantity can be expressed in a unit of measurement (a batch of a ton of cement) or in a number of items (a batch of 100 chairs). From the model of a batch, you can create several batches, each differentiated by their quantities.

Projects

Project

A project concerns portfolio items and/or company employees. (Example: The division of one department into several departments). Asset Manager enables you to precisely track all your company's projects, and each one can use contracts or work orders.

Index

A	Definition, 137
Add the application server (button), 62	Financial tracking, 40
Adjusting items	Fixed assets, 42
Adjustment types, 128	Individualized management, 14
Creating, 129	Overflow tables, 17
Links triggering the field adjustment, 129	Stocks, 53
Models, 128	Assignments, 139
Target items, 125	
Using, 127	В
Adjustments, 125-133	Batches
Adjusting items, 125	Collective management, 14
Example, 129	Creation, 34
Amortization, 42	Definition, 137
Asset Manager Application Designer	Dividing, 36
Line-of-business data - import	Units, 28
Existing database, 61	Business services, 93
New database, 60	Client-resource relationships, 93
Asset Manager Automated Process Manager	Representing a business service in
Stocks, 50	Asset Manager, 94
Assets, 30, 15	Resource downtime, 98
(See Also Standard configurations)	Creation, 99
Acquisition, 40	Examples, 101
Acquisition contracts, 41	Impact, 100
Contracts, 48	Impact analysis wizards, 102
Costs, 42	TCO of a business service, 103

C	Edit the URL address of the application
Changes	servers (wizard), 64, 62
Displaying in the HP Service Manager	
database, 64, 64	F
Computers, 55	Fixed assets, 42
Creation	
Automatic, 58	H
HP Device and Dependency Mapping,	HP Connect-It, 79, 58
59	HP Device and Dependency Mapping
Manual, 57	Viewing computers from Asset Manager,
Models, 56	60
Natures, 55	Viewing the computer from
Overflow tables, 18	Asset Manager, 63
Connections, 67	HP Service Manager
Computers, 70	Displaying incidents, changes and
Creation, 68	problems, 64
Declaration, 71	process, or
Deleting, 73	1
Impact, 74	Incidents
Managing, 73	Displaying in the HP Service Manager
Number, 73	database, 64
Ports, 68	IT portfolio
Prerequisites, 68	(See Also Computers)
Consumables, 39	(See Also Connections)
Definition, 138	(See Also Mobile devices)
Contracts	(See Also Standard configurations)
Acquisition, 41	(See Also Virtual machines)
Assets, 48	(See Also virtual machines)
Costs of an asset, 42	1
D	Line-of-business data, 61, 60
Database	
Line-of-business data - import	M
Existing database, 61	Management constraints, 138
New database, 60	Management types, 138
Preparation, 64, 60	Mobile devices, 74
Data models, 16	Client-resource relationship
Display the detail in Enterprise Discovery	Create - Practical case, 84
(link), 63	Creation, 77
Divide a batch (wizard), 37	Linking, 77
21/140 4 24/011 (//12414/), 37	Creation, 81, 76
E	Automatic, 79
edac.scn (scenario), 59	HP Device and Dependency Mapping,
edac-mobiledevices.scn (scenario), 79	79
cuac-modificutivices.scii (Scenario), 10	Manual, 75

Practical case, 82	Entrust to a third-party company, 48
Importing, 80, 60	Managing, 13
Models, 75	Collective management, 14
Natures, 75	Individualized management, 14
Practical case, 81	Types, 13
Software installations, 78	Undifferentiated management, 14
Telephone carrier	Moves, 44
Creation, 81	Overflow tables, 16
Models, 23, 14	Reserving, 45
Computers, 56	Return to supplier, 47
Creation, 27	Tracking, 20
Definition, 136	Values, 13
Mobile devices, 75	Portfolio - Line-of-business data, 64
Portfolio items, 27	Ports, 68
Service provider, 76	Changing, 74
Units, 28	Projects, 124
Virtual machines, 85	Definition, 140
N	Q
Natures, 21, 14	Quantities, 139
Behavior, 22	
Computers, 55	R
Creation, 26, 21	Residual value (field), 43
Definition, 135	nesiduai vaide (neid), 45
Examples, 26	5
Mobile devices, 75	
Portfolio items, 25	Sequencing (field), 120
Virtual machines, 85	Service provider
, 11 vada 11 av	Client-resource relationship, 77
0	Creation, 77
Overflow - tables, 16	Models, 76
Overnow - tables, 10	Software
D	Overflow tables, 18
P	Software installations
Portfolio items, 25-53, 14	Overflow tables, 18
(See Also Assets)	Standard configurations, 66
(See Also Batches)	Stocks, 49
(See Also Models)	Adding items, 52
(See Also Natures)	Assets - issuing from stock, 53
(See Also Stocks)	Available items, 51
(See Also Untracked batches)	Checking reorder limits - frequency, 51
Absence, 48	Definition, 139
Contextualization, 45, 19	Managing, 52
Definition, 136	Reorder levels - prerequisites, 50
End of life, 47	Reorder requests, 51

Reserving assets, 47 Types, 120 Rules, 50 Т **Tables** Main tables, 14 Overflow tables, 16 Definition, 137 Telephones, 89-92 Creation, 91 Functions, 89 Adding, 91 Keys, 91 Managing, 90 Overflow tables, 18 Tables, 89 Tracking, 139 U Units, 28 Creation, 28 Viewing, 29 Units of batches, 28 Untracked batches, 38 Creation, 38 Definition, 137 Dividing, 39 Transforming into a tracked batch, 40 Undifferentiated management, 14 V Virtual machines, 85 Creation, 86 Host, 87 Models, 85 Natures, 85 W Work orders, 119 Automatic mechanisms, 122 Cycle, 121 Managing, 123 Statuses, 122 Tracking, 122