Peregrine

AssetCenter

Evolve Wisely™

Common tables

Peregrine
SYSTEMS®

This edition applies to version 4.4 of the licensed program

AssetCenter

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1 Departments and employees

CHAPTER

This chapter explains how to describe and manage departments and employees with AssetCenter.

Use the **Portfolio/ Departments and employees** menu item to access the list of departments and employees.

Organization of employees within a department

Departments and employees are created and managed from the same screen.

In AssetCenter, the list of departments and employees is organized hierarchically: Departments (which can contain optional sub-departments) include employees (employees may not contain other employees).

Organizing departments and employees

The best way to organize the list of departments and employees is to:
1 Create a hierarchy of the departments in your company,
2 Associate the employees to their respective departments.

Employees are therefore at the last level of the branches.

> ✎ Note:
>
> To view all levels of the hierarchy, right-click the list of departments and employees and then select **Unfold/ All** from the contextual menu.

AssetCenter enables you to assign diverse roles to your company's employees:

- Users or supervisors of an asset.
- Authors of an asset view.
- Supervisors of a stock.
- Supervisors of a project.
- Requesters or technicians for a work order.
- Supervisors of a budget.
- Supervisors of a contract.
- Etc.

Viewing departments and employees

There are two ways to view the information pertaining to departments and employees: A flat view or a hierarchic view. These views are the standard views in the application.

You can view the departments and employees according to a field on screen.

For example, you can view the employees according to their title. This is equivalent to grouping the employees by this criteria.

To group the employees by their functions:

1   Display the Departments and Employees screen.
2   Right-click the **Title** field.
3   From the contextual menu, select **Group by this field**.

This list of departments and employees is filtered according to the criteria **Title**. Each title is a hierarchic level and is shown grayed out. Under each title is listed the employees with that title.

AssetCenter users

In order to protect access to the database, only an AssetCenter user who is declared in the database can open the AssetCenter database.

Several users may work concurrently on the same database.

An AssetCenter user has a record in the list of departments and employees, and is assigned a **Login** and a **Password** (SQL names: UserLogin and LoginPassword) by the administrator.

AssetCenter administrators

An AssetCenter administrator is a user who has rights to all tables in the AssetCenter database.

Several users may be administrators. To create an administrator, another administrator simply assigns administrator rights to that user.

The Admin login record

By default, the Departments and Employees table includes an administrator whose **Login** is "Admin".

- When AssetCenter is first installed, this is the only login name that enables you to access the AssetCenter database for all administrative operations.
- This login enables you to connect in the event that you cannot connect as an administrator under any other name. For security reasons, this record cannot be destroyed.
- Even though the access type for the "Admin" login is "Named", its license is not decremented from the number of authorized named users.
- The "Admin" login is the only login that you can use to delete connection slots via the **Delete** button in the connection slot management screen (**Administration/ Connection slots** menu item).

Creating departments and employees

1 Select the **Portfolio/ Departments and employees** menu item.
2 Do not use the fast search (click **Cancel** in the window automatically displayed)
3 Click **New**.

A dialog box appears asking you if you want to create a department or an employee.

🖉 Note:

The basic information (fields and tabs) contained in the details of a department and that of an employee are not the same.

Employee training

The **Training** tab displays the list of training programs the employee has taken:

▪ Use the ⊞ and ⊟ buttons to the right of the list to add or delete training programs.

▪ You may display or modify a training program in the list by clicking the ⊠ button.

🖉 Note:

Just like assets, training items each have a unique bar-code label. By default, this label is defined by a script that uses an AssetCenter counter. You can customize this script to adapt the bar-code label to your needs.

Defining an employee's user profile

To assign a user profile to an employee and to specify a password, display the **Profile** tab in detail of that employee.

🗲 Important:

Only administrators can view the **Profile** tab in an employee's detail.

Defining an administrator

To define an administrator for the database:

1 Populate the **Login type**, **Login** and **Password** fields (SQL names: seLoginClass, UserLogin and LoginPassword).

2 Select the **Administration rights** field (SQL name: bAdminRight). This is equivalent to assigning that person all access rights to the database.

Defining a non-administrator user

To define a user who does not have database administration rights:

1 Populate the **Login type**, **Login** and **Password** fields (SQL names: seLoginClass, UserLogin and LoginPassword).

2 Assign a user profile to the employee by populating the **Profile** field (SQL name: Profile).

The person can then access the AssetCenter database using their login name and view/modify the information according to their profile.

Employee groups

Use the **Portfolio/ Groups** menu item to create employee groups.

Employee groups are used in several areas of the software.

For example:

■ They can be the assignees of **Internal maintenance Type** (SQL name: seType) work orders.

■ They can be the assignees of workflow tasks.

Employee groups are stored in the table of employee groups (SQL name: amEmplGroup). This table is hierarchical.

To create an employee group:

1 Select the **Portfolio/ Groups** menu item.

2 Click **New**.

3 Enter the name of the employee group.

4 Enter the group to which it belongs, if necessary.

5 Specify a group supervisor.

6 Specify the members of the group in the **Composition** tab.

7 Enter any locations dealt with by the group in the **Locations** tab.

8 Enter any contracts dealt with by the group in the **Contracts** tab.

🖋 Note:

Just like assets, employee groups each have a unique bar-code label. By default, this label is defined by a script which uses an AssetCenter counter. You can customize this script to adapt the bar-code label to your needs.

When employees change location

1. Display the list of locations (**Portfolio/ Locations** menu item).
2. Create the new locations.
3. Display the list of departments and employees (**Portfolio/ Departments and employees** menu item).
4. Select all the employees who will move to a new location.
5. In the **General** tab of the employee detail, select the new location.
6. Click the **Modify** button.
7. Display the list of portfolio items (**Portfolio/ Portfolio items** menu item).
8. Select all the portfolio items also moving to the same location.
9. In the **General** tab of the portfolio-item detail, select the new location.
10. Click the **Modify** button.

The other solution, more complex but more powerful, involves exporting the records and modifying them outside of AssetCenter, then importing the modified records.

When an employee changes department

1. Display the list of departments and employees.
2. Display the details of the employee who is changing departments.
3. In the **Department** field (SQL name: Parent), select the employee's new department.
4. If necessary, modify the **Location**, **Telephone**, **Fax**, **EMail** and **Cost center** (SQL names: Location, Phone, Fax, EMail, CostCenter) fields in the **General** tab.

5   If necessary, modify the **Location**, **Supervisor** and **Cost center** fields (SQL
names: Location, Supervisor and CostCenter) in the **General** tab of detail of
portfolio items used by the employee. In order to do this:

- Display portfolio item detail one-by-one from the **Portfolio** tab of the
  employee detail, and modify the fields accordingly.
- Or display the list of portfolio items and apply a filter on the **User** link (SQL
  name: User) by selecting the name of the user concerned. Select all the
  user's portfolio items, which enables you to simultaneously modify the
  fields for the portfolio items.

CHAPTER
2 Locations

This chapter explains how to describe locations with AssetCenter.

Use the **Portfolio/ Locations** menu item to display the list of locations.

Definition of a location

Your company's locations are described in a separate, hierarchical table. A location is used to describe the physical placement of an asset, a stock, a place, a work order, etc.

Location floor plans

The **Plan** tab lets you select a floor plan from the list of plans. The floor plans stored here may cover a wide range of images: drawings, maps, charts, blueprints, diagrams, etc.

Location of portfolio items

All the portfolio items at a certain location appear in the list in the **Portfolio** tab of the location detail.

Use the ▣ and ▣ buttons to the right of the list to add or delete portfolio items from the list. You may display or modify portfolio items in the list by clicking the ▣ button.

When you add a portfolio item to a location, it is automatically removed from its previous location. If you detach a portfolio item from a location, it is no longer linked to a location.

Taxes associated with a location

Tax jurisdictions can be used to associate taxes with locations. To associate a tax jurisdiction with a location, you just need to populate the **Jurisdiction** link (SQL name: TaxJuris) in the **General** tab of the location detail screen.

3 Suppliers

CHAPTER

This chapter explains how to describe and manage suppliers with AssetCenter. Use the **Portfolio/ Suppliers** menu item to display the supplier list.

Definition of a supplier

AssetCenter lets you describe third party suppliers/companies and their contacts in a specific table. These entities are not to be confused with companies or branches of your own group.

Suppliers appear in the database as parties involved in a contract, maintenance providers, suppliers, etc.

Company contacts

The **Contracts** tab of the supplier detail contains a the contacts at the supplier companies in each one of its sub-tabs.

To add, duplicate or delete a contact, right-click within the sub-tab and select **Add linked record**, **Duplicate linked record** or **Delete link** from the shortcut menu.

The full list of contacts is only available via the **Administration/ List of screens** menu item.

Contracts signed with suppliers

The **Contracts** tab in the supplier detail displays the list of contracts signed with the supplier.

Use the ⊞ and ⊟ buttons to the right of the list to add or delete contracts.

You can display or modify a contract in the list by clicking the 🔍 button.

Supplier catalogs

The **Catalogs** tab in the supplier detail displays its catalogs.

Use the ⊞ and ⊟ buttons to the right of the list to add and remove purchase terms

View or modify an existing purchase term by clicking the magnifier 🔍.

4 Floor-plans

This chapter explains how to describe floor plans with AssetCenter.

Use the **Portfolio/ Floor plans** menu item to display the list of floor plans.

Definition of a floor-plan

A floor plan is a graphical area in which you can place icons that symbolize records from such or such table. All tables can be used, in particular locations, employees and assets.

Creating a floor plan

To create a floor plan, use the shortcut menu in the plan, described below.

Figure 4.1. Floor-plan detail
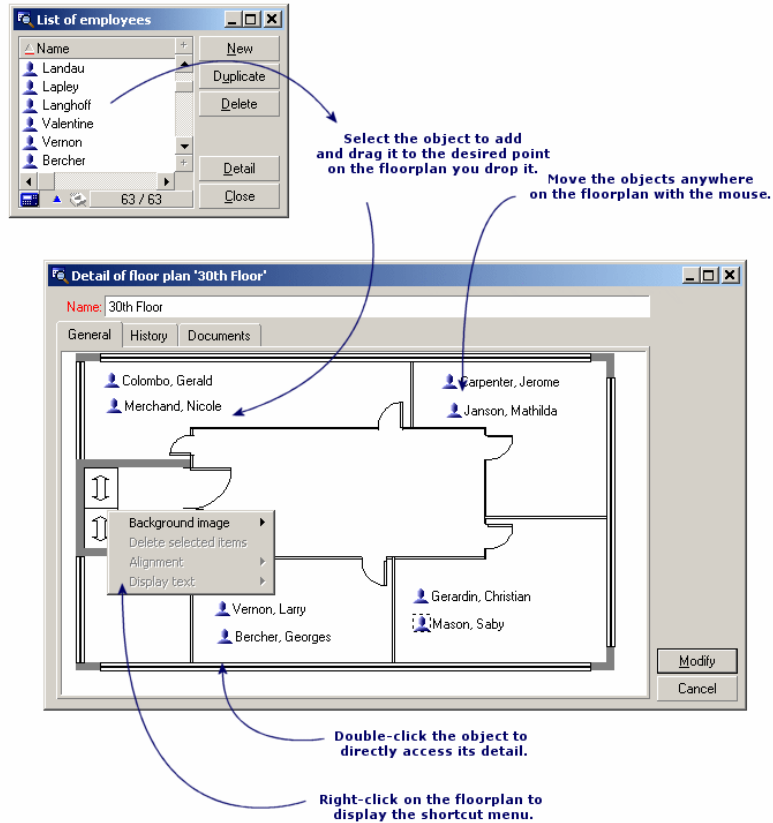
Entries in the Floor plans/ Background image menu

- **Paste** lets you paste an image to the Clipboard.
- **Delete** lets you delete the background image.
- **Resize** lets you resize the background image. Drag the handles of the image with the mouse to re-size the image.
- **Import** lets you import an image as a background.

Alignment

Lets you align several icons in the floor plan. You can select icons by holding down SHIFT or CTRL and clicking them, or by drawing a frame around them with the mouse.

Display text

Lets you position text on the floor plan that describes the icon representing this item.

Add objects to the plan

Add records from other lists by performing a drag-and-drop operation on the records.

You may do this by selecting records in lists or by selecting the icons in the record detail windows if they exist.

AssetCenter adds the object's icon and text to the floor plan.

Move the records around the floor plan using the mouse.

How to view objects from a floor plan

Once the icons are in place, you just need to double-click on one of them to access its record detail.

Using floor plans

Floor plans can be created within floor plans in order to create more detailed floor plans.

For example, to create a tree structure of locations such as "State/ Site/ Building/ Floor/ Office":
1   Associate the corresponding plan to each location: country, site, building, floor and office.

Associate each location with the corresponding floor plan: First display the list of locations using the (**Portfolio/ Locations** menu item. For each location, display the **Plan** tab and select the floor plan corresponding to the location.

2   Drag and drop each icon of the site onto the plan of its country using the two lists of plans.

In the first list of plans, display the detail of the country plan. Use the second list to drag and drop the site plans on the country plan.

3   Use the same technique to position the building plans on the site plans, the floor plans on the building plans and the office plans on the floor plans.

4   Finally, position the users and the assets on the office floor plans.

To do this, display the list of plans, of employees and of assets. Then, drag and drop the employees and the assets on the detail of the floor plans.

You can then display:

- A floor plan from the floor plan list (the **Portfolio/ Floor plans** menu item) or from the **Plan** tab in a location detail.
- A sub-plan by double-clicking its icon in the main floor plan to which it is attached.
- The detail of assets and users by double-clicking their icons on the office floor plans.

5 Features
CHAPTER

This section explains how to use features with AssetCenter.

Use the **Administration/ Features** menu item to display the screen for creating and editing features.

Definition of features

Features enable you to complete the description of AssetCenter objects (assets, models, orders, etc.). They are attached to objects with a value and are displayed directly in the object's **Features** tab.

You can create as many features as you wish, and specify their entry mode (Numerical, Text, etc.). This makes AssetCenter very flexible and allows for extensive customization.

By using features, you can include additional information in areas of particular importance to you (financial, technical, or any other specific area).

Features provide additional "fields" for describing the records in your database. For example, you can fill in the type of processor or the clock speed for a computer, or the horsepower of an automobile.

Finally, features can be queried using the AssetCenter query language.

Description of the features

Creating a feature involves identifying it and determining how it behaves.

Identifying a feature

The upper part of the feature detail screen is used to identify and classify the feature (using feature classes). A feature is uniquely identified by its SQL name. The other fields in this part of the screen provide extra information on the feature and are described in detail in the extended help (press SHIFT+F1 to access the extended help on a field).

Behavior of a feature

The behavior of a feature depends on several conditions:
- Its input type, which determines the type of control used in the user-interface to populate the value of the feature for a record. The input type is associated with a unit.

  > Note:
  >
  > The "Link" input type, which is complex, is the subject of a separate chapter in this manual.

- Or how it is calculated by consolidation.
- Its parameters.

Consolidated features

The information provided in the **Consolidation** tab in the detail of a feature is used when consolidating a feature. This tab concerns the features for which you want to calculate the value by consolidating the values of other features.

This is possible for features whose **Input type** field (SQL name: seDataType) in the **Input** tab is set to **Numerical** or **Duration**.

If you check the **Calculated by consolidation** box (SQL name: bCalculated), the value of the feature that you create is calculated by adding the values of other features. The features to be taken into account appear in the list in this tab. The calculation is performed as soon as you click the **Create** or **Modify** button.

Use the ▣, ▣ and ▣ buttons to add, delete, view or modify features to be included in the consolidation.

The features that you add:

- Must have the same input type (format) and unit as the consolidated feature,
- May not themselves be calculated by consolidation.

When an included feature is modified the consolidated value is automatically recalculated.

In the consolidation calculation:

- Only those features effectively added to records are taken into account.
- All child records are included if the table is hierarchic, as shown in the following example:

Figure 5.1. Consolidated features and hierarchic tables
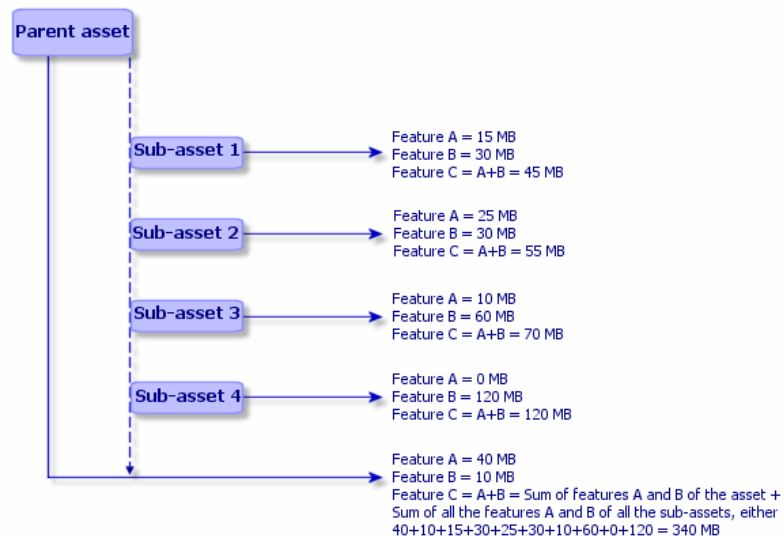
🖋 Note:

Modifying the list of features making up a consolidated feature can draw heavily on the resources of the database server. In effect, the software recalculates the value of the feature for all the records that contain it.

Consult the **Tailoring** guide, **Database options** chapter, **Database options** table.

Parameters of a feature

The parameters of a feature can be found in the **Parameters** tab of the detail of the feature.

Once you have created a feature, the parameters are used to specify:
- The names of the tables that can use this feature.
- The default value for the feature.
- Any data entry and display constraints concerning this feature.

Editing the parameters of a feature

If you click the ⊞ or ⊠ buttons, AssetCenter opens the screen for editing and creating parameters.

This screen for editing parameters is not available until the feature has been created.

The parameters are linked to a table defined by the **Table** (SQL name: TableName). This field is filled in from a system itemized list (a list whose values cannot be modified) containing all the tables in AssetCenter.

🖋 Note:

A given feature may have different parameters for different tables.

The parameters of a feature include data-entry constraints, a default value and the contents of the extended help for this feature.

Data-entry constraints

The possible values for each constraint are as follows:

- Yes: The constraint is valid for all records in the table with which the feature is associated.
- No: The constraint is not valid for any record in the table with which the feature is associated.
- Script: Application of the constraint is subject to a Basic script.

🖊 Note:

It is not possible to edit or modify the Basic script used for a feature parameter.

The table below summarizes the different data-input constraints applicable to a feature:

Table 5.1. The different data-input constraints applicable to a feature

Constraint	Description
Available	Determines the availability of the feature.
Force display	Determines whether the feature is displayed by default.
Mandatory	Determines whether populating the feature is mandatory.
Historization	Determines whether history is kept for the values of the feature.

Default value

You can define a default value for a feature. This function is identical to that which is provided for other fields in the database.

Extended help

As for all other fields in the database, you can defines three sections of extended help for a feature.

Feature classes

A feature class groups features with common properties. For example, features such as "Processor level 1 cache" and "Processor level 2 cache" may be grouped in a feature class called "CPU".

Use the **Administration/ Feature classes** menu item to access the screen for editing and creating feature classes.

Managing features

This section explains how to manage features.

Introduction

To add a feature to a record, simply move to the **Features** tab in the detail of a record in the table in question. This tab includes two parts:

- The right-hand side lists the features already associated with the record. Here you can add or remove features using the ⊞ and ⊟ buttons.
- The left-hand side displays a tree view of the feature classes; it is used to filter the features in the right-hand side.

You can only add a feature to a record if the feature applies to the table containing that record, and if the feature is available. In other words:

- The table must appear in the **Parameters** tab in the feature detail.
- The value of the **Available** field (SQL name: seAvailable) must be set to Yes or to Script if the Basic script updates the value of the field to Yes.
- The features for which input is mandatory cannot be removed and are not offered in add mode (by the ⊞ button).

Detail of the class tree-structure

The left-hand side of the **Features** tab enables you to filter the features displayed in the right-hand side of the screen. It displays a tree view of the feature classes.

- When you select the ▦ (All) node in the tree, AssetCenter displays all the features associated with the record (except for inheritable features) in the right-hand side of the tab.
- When you select a branch in the tree (therefore a class or a sub-class), AssetCenter displays the features for that class or sub-class in the right-hand side of the tab.

Two check boxes enable you to refine the display filtering:

- When you check the **With the 'inheritable' features** box, AssetCenter also displays the inheritable features, i.e. those whose **For inheritance purposes** field (SQL name: bForInheritance) is set to Yes, in the right-hand side of the tab.
- When you check the **With sub-classes** box, AssetCenter also displays the features associated with the sub-classes of the selected classes, in the right-hand side of the tab.

Detail of features associated with a record

The right-hand side of the **Features** tab enables you to:
- View the features associated with the record
- Associate a feature with a record
- Remove a feature from a record

📝 Note:

The **Features** tab in the record detail appears only if at least one available feature exists for this record's table (the feature is attached to the table and the **Available** field (SQL name: seAvailable) is set to Yes (either when specified directly, or defined with a script).

Associating a feature with a record

When you add a feature by clicking the ⊞ button, AssetCenter opens the window for choosing the features available for the current record. This window displays the features in a tree structure, organized by class. This tree displays available features only, i.e. those whose **Available** field (SQL name: seAvailable) is set to Yes (either when specified directly, or defined with a script).

Now simply select the feature of your choice and click the **OK** button; AssetCenter will add it to your record.

Note:

This screen supports multiple selections using the CTRL and SHIFT keys. Thus you can add several features in a single operation.

When you add a feature to a record in a table involved in the inheritance process (as the target table), two cases may arise:

- Either the feature is also attached to the source table, and it is inherited by the target table along with its default value.
- Or the feature is not attached to the source table. It is not inherited, and its default value is the one defined in the feature's parameters for the target table.

Removing a feature from a record

When you remove a feature from a record by pressing the ⊟ button, AssetCenter opens a window for choosing the features already associated with the record. This window displays the features in a tree structure organized by class.

Simply select the feature you want to remove and then click the **OK** button; AssetCenter removes the feature from your record.

Note:

This screen supports multiple selections using the CTRL and SHIFT keys. Thus you can remove several features in a single operation.

Features that are mandatory or displayed by default (i.e. those whose **Mandatory** parameter (SQL name: seMandatory) is set to Yes and those whose **Force display** parameter (SQL name: seForceDisplay) is set to Yes) cannot be removed from a record.

Viewing features in a list

Features are displayed in the **Features** tab of a record, but you can also view them in the list of records in a table.

To do this, right-click the list to display the shortcut menu and select **Configure list**. AssetCenter opens the list configuration window.

The features associated with the table appear at the end of the list. First expand the tree to obtain a detailed list.

Then select a feature by clicking the ➡ button. This adds a column to the list with the name of the feature in the header and the value of the feature for each

record in the table. The ![icon] button removes a column from the list, and the ![icon] and ![icon] buttons change the order of the columns.

Inherited features

In some cases, a feature and its default value may be inherited, i.e. automatically copied from one table to another. The feature is added to the **Features** tab of a record, and the default value for the feature is copied for that record. This section explains how to create an inherited feature.

You will find information on the following topics:
- Cases where applied
- Defining an inheritable feature
- Methodology
- Example

For the remainder of this section, "Source table" refers to the table with the feature(s) to inherit and "Target table" refers to the table that will inherit one or more feature(s).

 Note:

The inheritance process requires that the feature in question be associated with both the source and the target table.

Cases where applied

Inheritance only applies in the following cases:
- From the table of "Models" to the tables of "Assets", "Assets under contract", "Trainings", "Contracts" and "Work orders": The records in these table inherit the features associated with a model.
- From the table of "Products" to the table of "Catalog references".

 Note:

In these cases, features and default values in AssetCenter are inherited by default. This default behavior cannot be modified.

Defining an inheritable feature

The **For inheritance purposes** field (SQL name: bForInheritance) in the **Default value** tab (SQL name: RetValScript) in the feature parameter detail determines the type of default value for the feature:
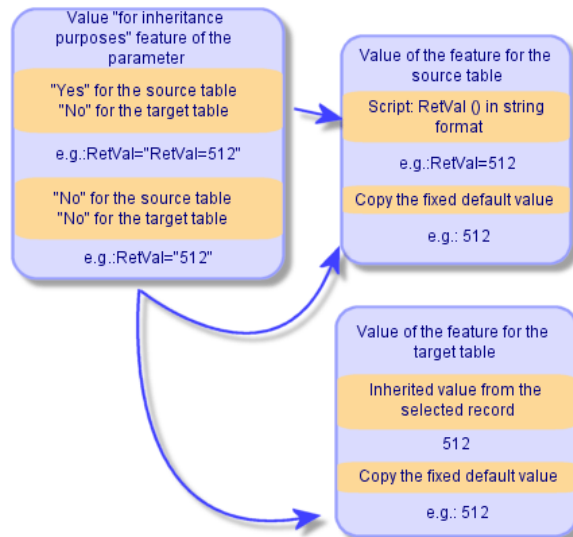
- If this field is set to Yes, the feature's default value is a default value inherited by the records in the target table, and defined by a formula containing the **RetVal()** function. This function represents the feature's inherited value.
- If this field is set to No, the feature's default value is not considered to be inheritable by the target table. Therefore it is only used to define the feature's default value for records in the source table.

Note:

In order for the target table to inherit a feature from the source table, the value of the **For inheritance purposes** field (SQL name: bForInheritance) must be set to Yes for the source table and to No for the target table. ("No" is the default value that cannot be modified for all those tables that can inherit feature values).

The following diagram summarizes the inheritance process:

Figure 5.2. Inheritance of features between a source table and a target table

To summarize, we have seen that the inheritance process for the feature's default value depends on the value of the feature's **For inheritance purposes** field (SQL name: bForInheritance) for the source and target tables:

■ If this field is set to Yes for the source table and No for the target table, the feature's value for a record in the target table is defined by the **RetVal()** function of the feature associated with the record in the source table

■ If this field is set to No in both the source table and the target table, the feature's value is the default value defined in the feature's parameters.

Methodology

Before looking at a practical example of this property of a feature, here is the method for efficiently implementing an inheritable feature:

1 Analyze the situation: what are the source and target tables?

2 Create or edit the feature.

3 Add the feature to the source table's **Features** tab.

4 Edit the value for the feature in that tab.

5 Check that the inheritance process works correctly by creating a new record in the target table.

Example of an inheritable feature

In this example, we will create a feature whose default value will be inherited by all the assets attached to a single model.

Step #1 - Analyze the requirements

The feature is inherited from the table of models by the table of assets. Therefore:

■ The source table is the table of models.

■ The target table is the table of assets.

Step #2 - Create the inheritable feature: For inheritance purposes (SQL name: bForInheritance)

Select the **Administration/ Features** menu item to display the screen for creating feature. Fill in the fields as shown below:

Table 5.2. Fields for creating the inheritable feature

| Field name	Field location	Field value
Title (SQL name: Title)	Feature detail screen	"Inheritance"
SQL name (SQL name: SQL-Name)	Top of the feature detail screen	"Inheritance" (This field is mandatory, but it is automatically populated once you place yourself in another field.)
Input type (SQL name: seDataType)	**Input** tab in the feature detail	**Numeric**

Then click **Create** to create the feature.

For the source table

Now select the **Parameters** tab and click the ⊞ button next to the list of parameters. You must tell AssetCenter that this feature is associated and available for the source table and for the target table.

Fill in the **Add parameters to feature 'inheritance'** screen as illustrated below:

Figure 5.3. Parameters for the source table (table of models)
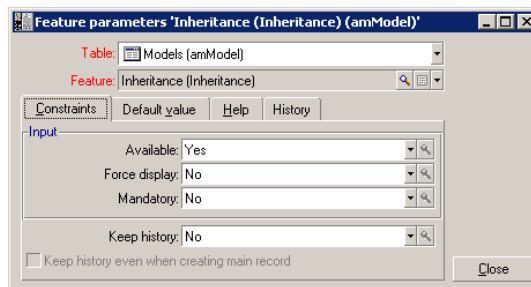
Finally, enter the value Yes in the **For inheritance purposes** field in the **Default value** tab. Click **Add** to add this parameter to the feature.

For the target table

Now select the **Parameters** tab and click the ⊞ button next to the list of parameters. You must inform AssetCenter that this feature is associated and available for the target table. Click {aujout.bmp} to add this parameter to the feature.

Fill in the **Add parameters to feature 'inheritance'** screen as illustrated below:
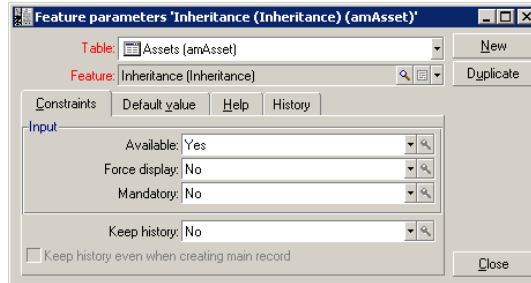
Figure 5.4. Parameters for the target table (table of assets)

Click **Add** to add this parameter to the feature.

Check

The list of parameters for our feature now looks like this:

Figure 5.5. Parameters for the "Inheritance" feature
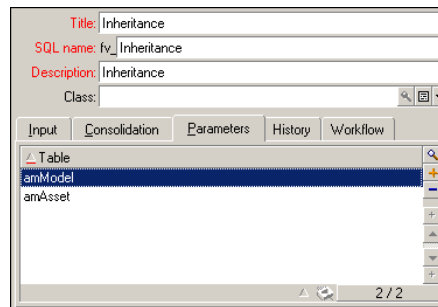
Click **Modify** to validate the modifications made to the feature's parameters.

Step #3 - Add the feature to the Features tab in the source table

Now you need to add the feature to a record in your source table. You can use any model. In this example, our model is called "Deskpro 4000S". Open the table of models and select a model. Click the ⊞ button in the **Features** tab for this model and choose the "Inheritance" feature from the tree.

AssetCenter adds this feature to the **Features** tab as a programmable field.

Step #4 - Edit the value of the feature

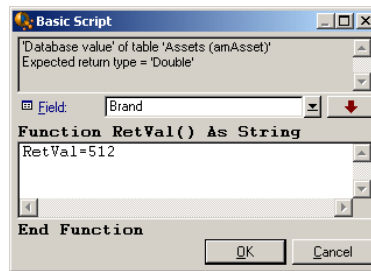Click ☒ to edit the Basic script for this field. This script determines the value of **RetVal()** (i.e. representing the "Inherited value"). In this example, we will use a purely numeric value that will be inherited by assets with the brand "Compaq". This can be any value; in our example, we use "512".

Therefore the script is as follows:

Figure 5.6. Basic script for the inherited value

To finish, click the **Modify** button to confirm your changes.

Step #5 - Check that the inheritance works correctly by creating a new record in the target table

1 In order to check the inheritance, we will create a new asset.
2 To open the screen for creating a new asset, select the **Portfolio/ Assets and batches** menu item or click the 🗐 button.
3 Click **New** to create a new asset.
4 Select the **Features** tab. No features are displayed.
5 Now enter in the **Model** field (SQL name: Model) the name of the model for which you added an inheritable feature (in step #3). To make sure our example is working correctly, check that the selected value is set to "Deskpro 4000S"
6 Select the **Features** tab. The "Inheritance" feature was added automatically and its value (defined in step #4) was inherited.

Figure 5.7. Inheritance of the feature in the target table

Populating features by selecting a record from another table

To populate this type of feature, select a record from another table: the feature is assigned the value of that field. We have chosen an example to illustrate this AssetCenter feature.

This example involves three steps:
1 Scenario for the example
2 Creating the feature
3 Editing the filter for the source table of the link
4 Verification

Scenario for the example

We will create a feature whose value is selected from the table of models. This feature, called "LinkTest", will be associated with the table of assets; its value will be provided by a field in the table of models.

In the remainder of this example, the table of models will be called the "Source table".

Creating the feature

Select **Administration/ Features** to display the screen for creating features. Populate the fields as follows:

Declaring the link

Table 5.3. LinkTest fields

Field name	Field location	Field value
Title (SQL name: TextLabel)	Feature detail screen	"LinkTest"
Name (SQL name: Name)	Top of the detail window of a feature	"LinkTest" (This field is mandatory, but it is automatically populated when you place yourself in another field.)
Input type (SQL name: seDataType)	**Input** tab in the feature detail	**Link**
To table (SQL name: TargetTableName)	**Input** tab in the feature detail	Table of models

Press **Create** to create the feature.

Now select the **Parameters** tab and click the ⊞ button next to the list of parameters. You must inform AssetCenter that this feature is associated and available for the table of assets, as illustrated in the following screen:

Figure 5.8. Available and associated feature (the Available (SQL name: seAvailable) field is set to "Yes") for the table of assets
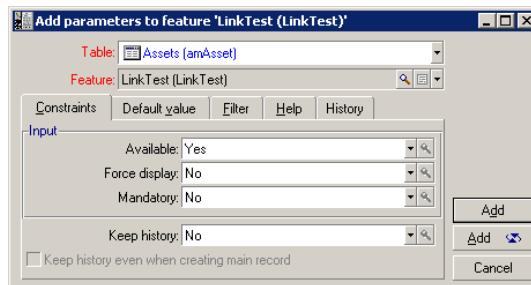
Editing the filter for the source table of the link

We previously created a feature linked to the table of models and defined it as available for the table of assets. Therefore the link has been created "physically". All that remains is to specify the information to be transferred by this link, i.e. which values from the table of models may be selected to populate the feature. These values may be:

- Absolute values. For example, you can select for the value of the feature all the models of a certain type. The following example selects all the models of the "Compaq" brand.

```
Brand.Name='Compaq'
```

- Contextual values. You can select a value that depends on a field from the table of assets, e.g. all models associated with an asset of a certain brand. To define the context, use the **AmDbVal()** function.

  This function has the following parameters:

```
AmDbVal(<Destination table of the link>:<Field or link of the destination table>)
```
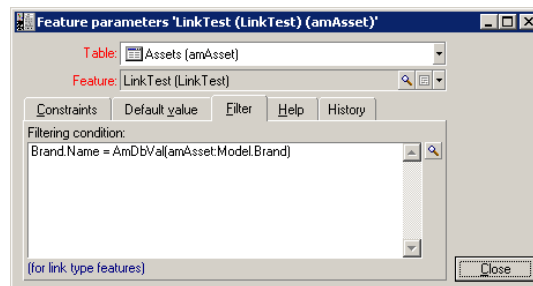
  The following example defines the **Brand** field in the table of models as the context:

```
AmDbVal(amAsset:Model.Brand)
```

Select the **Filter** tab in the detail of the parameters for the "LinkTest" feature and populate the tab as follows:

Figure 5.9. Filter for the source table (in this example, the table of assets)

Note:

The value returned by **AmDbVal()** corresponds to the current values of the detail window, even if these values have not been saved in the database.

In the previous example, lets suppose that at the database level, the asset is linked either to a **DBModel** model of brand **DBBrand**. If at the detail window level, you select a model **WindowModel** of brand **WindowBrand** without having saved this modification with the **Modify** button, the **WindowBrand** brand is returned by the **AmDbVal()** function.

Note:

The **Filtering condition** field (SQL name: LinkFilter) is a traditional query for a table, made using the expression builder. The fields used to build the query all belong to the source table of the link.

Verification

To check that the link we created performs its function, we will create a new asset, then add the "LinkTest" feature to it.

1 Open the screen for creating an asset by selecting the **Portfolio/ Assets** menu item or by clicking the ◻ button.
2 Click **New** to create a new asset.
3 Select the **Features** tab. No features are displayed in the tab.
4 Next populate the asset's **Model** field (SQL name: Model).
5 Click the ◻ button in the features tab and choose the "LinkTest" feature in the selection screen displayed by AssetCenter:

Figure 5.10. Selecting the "Link" type feature in the feature tree
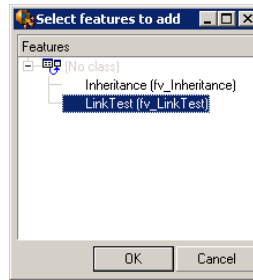
AssetCenter adds the "LinkTest" feature to the **Features** tab in the new asset's detail.
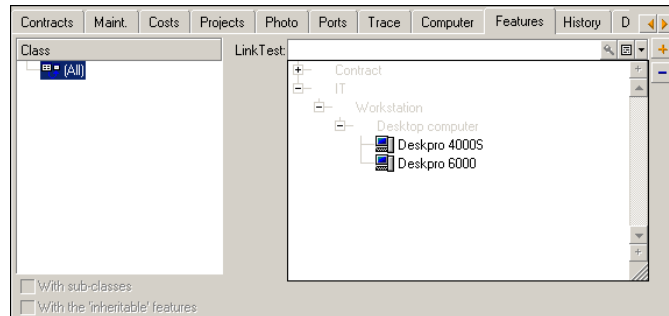
6 Now click the ⊡ button next to the "LinkTest" feature. We will choose a value from the table of models to populate this field. The itemized list enables us to choose from the models, as shown in the following screen:

Figure 5.11. Verifying that the link works

Our feature performs its role as a link between the table of models and the table of assets.

Transforming a feature into a field

AssetCenter Database Administrator enables you to transform a feature in a database into a field or a link. This operation can be performed using the wizard available via the **Database/ Transform a feature into a field** menu.

Analyzing the impact of the transformation

Before proceeding such a transformation, make sure you are taking into account the impact of the transformation, in particular:

- The properties of the features, fields and links. The following table summarizes these properties and details the transformation that is made.

Table 5.4. Correspondence of properties

Feature property	Equivalent field or link property
Available (*)	Opposite of the Irrelevant property
Force display	No equivalent
Mandatory	Mandatory
Historization	Historized
Default value	Default
Consolidation	No equivalent
Inheritance	No equivalent
Link type feature	The feature is transformed into a link
Help on the feature	Help on the field or link

> **⚠ Warning:**
>
> (*) a non available feature has its value emptied when the database is updated. The value of an irrelevant field remains unchanged.

When you transform a feature into a field, all the properties and mechanisms specific to the features are no longer available. Make sure you have fully taken into consideration your needs and technical constraints before proceeding with the transformation.

- Amount of records for which the value is populated. If the value you would like to associate with the records is meaningful for a majority of records (75%

Common tables

of more), then use a field instead of a feature. On the contrary, if the value is only meaningful for a minority of fields (25% or less) then use a feature instead of a field. Between these values, whether to choose a field or a feature is of lesser importance.

🖊 Note:

The given percentages may vary according to the database engine you are using.

▪ The potential impact on performance: on databases with a high number of records, it is advised not to use a feature to store information that is frequently displayed in a list or that is subject to access restriction.

Transformation example

Once the initial analysis has been performed, you can start the transformation. In the following example, the feature called **Work Unit** whose type is **Link** is transformed into a link.

This feature is available in the AssetCenter line-of-business data. If this data has not been imported into your database, please create it using the following information:

Field	Value
Label	Work unit
SQL name	WorkUnit
Description	Work unit
Input type	Link
To table	Products (amCatProduct)

Click the ⊞ button in the **Parameters** tab and populate the fields as follows:

Table 5.5. Parameters tab

Field	Value
Table	Departments and employees (amEmplDept)

Field	Value
Available	(Script)
| | ```
If [bDepartment] = 0 Then
RetVal = 1
Else
RetVal = 0
End If
``` |
| Force display | (Script) |
| | ```
If [bDepartment] = 0 Then
Dim lRc As Long
Dim hq As Long
hq = AmQueryCreate()
lRc = AmQueryExec(hq, "SELECT EmplGroup
s FROM amEmplDept WHERE lEmplDeptId = "
& [lEmplDeptId] & " AND EmplGroups.bAss
ignable = 1")
If lRc = 0 Then
'The employee belongs to an assignable
group
RetVal = 1
Else
RetVal = 0
End If
Else
RetVal = 0
End If
``` |

To transform this feature into a field:

1 Launch AssetCenter Database Administrator and then connect to your database (**File/ Open/ Open existing database** menu.)

2 Select the **Database/ Transform a feature into a field** menu.

3 In the first page of the wizard, select the feature in the displayed list.

Note:

In the wizard, selecting the option **Only features in table** enables you to select and sort the features according to a table.

Click **Next**.

4 The wizard gives a SQL name for the object that will be created by the transformation. You can modify this name, paying attention to its uniqueness within the table (a test is automatically run by the wizard.)

Click **Next**.

5 The next page summarizes the transformations that will be performed. The wizard displays a summary page for each table having a feature. You navigate through these pages using the **Next** and **Previous** buttons.

🖉 Note:

The **Available** script of a feature is transformed into an **Irrelevant** script for a field or a link. As these two scripts are the exact opposite of each other, the transformation systematically add the following reversal line:

```
RetVal = Not RetVal
```

Click **Next**.

6 The last page of the wizard enables you to choose a target folder for the transformation log. Click the **Finish** button to start the operation.

The transformation performs the following operations:

- The new field or link is created in the database
- Every feature property is transformed into the corresponding property for the field or link. The specific properties of the feature (consolidation, inheritance, etc.) are lost. The field type is deduced from the feature type thanks to the following correspondence:

Table 5.6. Types correspondence

Feature type	Object created by the transformation	Type	User type
Text	Field	Text	Default
Numeric	Field	Double-precision number	Default
Boolean	Field	Integer (16 bit)	System itemized list
Date	Field	Date	Default
Itemized list	Field	Text	Custom itemized list
Duration	Field	Integer (32 bit)	Default
Date+Time	Field	Date and Time	Default
Link	1-N link (made of a half 1-1 link in the table to which the feature was associated and a half 1-N link in the target table of the link)	Normal (the foreign key of the link is reset to 0 if the target record is destroyed)	Normal

- The feature values are deleted as well as the feature if no value longer exists for this feature.

The new field or link is now available in the table to which the feature was previously associated (in our example, it is the **amEmplDept** table where the new link with SQL name **WorkUnit** has been created). To view the field or link in a detail screen, you must add it manually to an existing screen.

6 Associating documents with records

CHAPTER

This chapter explains how to associate documents with records in the AssetCenter database.

The **Documents** tab which can be found in record details for the majority of tables in the AssetCenter database enables you to access the documents that are associated with records.

You can access the table of documents directly by using the **Tools/ List of screens** menu item, and selecting the **Documents** table (SQL name:amDocument).

Definition of a document

A document is an external file that you link to a record in the AssetCenter database.

Most of the AssetCenter tables can be associated with a document.

A document can be linked to a record in the AssetCenter database using several different methods:

- Without storing the document, but rather storing its full path.

  The document is only accessible to users who see the external document with the same path.

- By storing the document in the database.

All AssetCenter users can access the document if they possess the necessary AssetCenter user rights.

💡 Tip:

An action can use a file dynamically using its full path. For example, an action can open the file by launching the application associated with the file.

Managing document associated with a record

Documents associated with a record appear in the **Documents** tab of the record detail. Each individual document is described in the **Reference** frame of its sub-tab. To add, duplicate or delete a document, right-click within the tab and select the **Add linked record**, **Duplicate linked record** or **Delete link** options from the shortcut menu.

You can create as many documents as you want, each one having its own corresponding sub-tab.

Documents not stored in the AssetCenter database

We recommend that you indicate the full path to the file on the network in order that all AssetCenter users can find it.

The **File** field (FileName) enables you to enter the full path to a file.

Click 🔲 to locate this file.

💡 Tip:

The specified file can be used in **Executable Type** actions. This is the main advantage of the **File** field.

Documents stored in the AssetCenter database

⚠ Warning:

If you store a large number of documents in the database, you need to be careful not to overload it.

To store a document in the database:

1 Click **Import**.

2 Select the file to store.

3 Click **Modify**.

To view the document:

1 Click on the magnifying glass to the right of the file path (even if it doesn't look like you can access this path).

To copy the contents of the document:

1 Click **Export**.

2 Specify the full path of the file.

3 Click **Save**.

To remove the contents of the document in the AssetCenter database:

1 Click **Detach**.

2 Click **Modify**.

Opening a document using an action

When a document gives the full pathname of a file, it is possible to use this file dynamically by means of actions.

Creating an appropriate action

As an example, we are going to create an action that enables you to open the file specified in the **File** field (SQL name: ActionFile) of a document. The program that opens the file is the one associated with the filename extension by the Windows file manager.

Display the list of actions using the **Tools/ Actions/ Edit** menu item. Create a new action. In particular, populate the following fields:

Table 6.1. Action creation

Field	Value
Name (SQL name: Name)	Name of your choice
Context (SQL name: ContextTable)	**Documents** (**amDocument**)
Type (SQL name: seActionType)	**Executable**

Field	Value
File (SQL name: ActionFile)	[FileName]

Executing the action to open the file

1 Display the detail of a record (of an asset, for example).

2 Select the **Documents** tab.

3 Describe a document in a sub-tab of the **Documents** tab.

4 Populate the **File** field (SQL name: FileName). Select a file whose filename extension is associated with a Windows file manager program.

5 Place the cursor on any field in the description sub-tab of the document.

6 Right-click to activate the shortcut menu. The **Actions** command gives the list of actions associated with the table of documents. You will find the action you have created.

 Note:

Actions that concern links cannot be triggered with the **Tools/ Actions** menu item or the .

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