
AIMMS Function Reference - Case Management Related Identifiers

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Case Management Related Identifiers

You can setup the case management of your AIMMS project either to use a single data manager file with cases and datasets, or to use separate folders and case files on disk. Both styles of case management have their own collection of predefined identifiers.

The following collection of predefined identifiers contains data regarding the case types, data categories, cases and datasets associated with a particular AIMMS project, that uses the style `Single` data manager file:

- `AllCases`
- `AllCaseTypes`
- `AllDataCategories`
- `AllDataFiles`
- `AllDataSets`
- `CurrentCase`
- `CurrentCaseSelection`
- `CurrentDataSet`
- `CurrentDefaultCaseType`

The following collection of predefined identifiers contains data regarding the case files and types of case files associated with a particular AIMMS project, that uses the style `Disk` files and folders:

- `AllCases`
- `CurrentCase`
- `CurrentCaseSelection`
- `CurrentCaseFileContentType`
- `AllCaseFileContentTypes`
- `CaseFileURL`

AllCases

The predefined set AllCases contains the references to all cases that are currently available in the AIMMS project.

```
SET:
  identifier : AllCases
  subset of  : AllDataFiles
  index      : IndexCases ;
```

Definition:

The set AllCases is used in both data management styles Single data manager file and Disk files and folders.

When using Single data manager file, the contents of the set AllCases is the collection of (integer) references to all cases stored within the data manager file currently loaded within an AIMMS project.

When using Disk files and folders, the contents of the set AllCases is the collection of (integer) references to all case files that have been referenced thus far. Each newly opened or saved case file is automatically added to this set.

Updatability:

The contents of the set can only be modified implicitly by using the various features of the Data Management tool, by executing any of the Data menu commands or by using the specific case or dataset functions.

Remarks:

If the data management style is set to Single data manager file.

- Further information about the integer case references can be obtained through the functions [DataFileGetAcronym](#), [DataFileGetDescription](#), [DataFileGetGroup](#), [DataFileGetName](#), [DataFileGetOwner](#), [DataFileGetPath](#) and [DataFileGetTime](#).
- The integer case references stored in the set AllCases are only guaranteed to be unique within a single AIMMS session, and, furthermore, only within the context of a single data manager file associated with a project. As a consequence, additional case information retrieved through the functions listed above must be refreshed after opening another data manager file.

If the data management style is set to Disk files and folders.

- The corresponding location on disk of any element in the set AllCases can be obtained through the predeclared identifier [CaseFileURL](#).
- The integer case references stored in the set AllCases are only guaranteed to be unique within a single AIMMS session and depend on the order in which case files are accessed.

See also:

The set [AllDataFiles](#). Accessing cases from within an AIMMS model is discussed in full detail in Section [18.7](#) of the User's Guide, managing data manager files is discussed in Section [18.6](#).

AllCaseTypes

The predefined set AllCaseTypes contains the names of all case types declared within an AIMMS project.

```
SET:
  identifier : AllCaseTypes
  index      : IndexCaseTypes ;
```

Definition:

The contents of the set AllCaseTypes is the collection of all case types defined within the **Data Management Setup** tool of a project.

Updatability:

The contents of the set can only be modified by adding or deleting case types in the **Data Management Setup** tool.

Remarks:

The function [CaseGetType](#) returns the case type of a case as an element of the set AllCaseTypes. The identifiers and data categories associated with a case type can be obtained through the functions [CaseTypeContents](#) and [CaseTypeCategories](#). The default case type of a case when saving it is set through the predefined element parameter [CurrentDefaultCaseType](#).

See also:

Case types and advanced case management is discussed in full detail in Section [18.1](#) of the User's Guide.

AllDataCategories

The predefined set AllDataCategories contains the names of all data categories declared within an AIMMS project.

```
SET:
  identifier : AllDataCategories
  index      : IndexDataCategories ;
```

Definition:

The contents of the set AllDataCategories is the collection of all data categories defined within the **Data Management Setup** tool of a project.

Updatability:

The contents of the set can only be modified by adding or deleting data categories in the **Data Management Setup** tool.

Remarks:

The function [DatasetGetCategory](#) returns the data category of a dataset as an element of the set AllDataCategories. The identifiers associated with a data category can be obtained through the function [DataCategoryContents](#).

See also:

Data categories and advanced case management is discussed in full detail in Section [18.2](#) of the User's Guide.

AllDataFiles

The predefined set AllDataFiles contains the references to all data files stored in the data manager file currently loaded within an AIMMS project.

```
SET:
  identifier : AllDataFiles
  index      : IndexDataFiles
  definition : AllCases + AllDataSets ;
```

Definition:

The contents of the set AllDataFiles is the collection of (integer) references to all data files (i.e. cases and datasets) stored within the data manager file currently loaded within an AIMMS project.

Updatability:

The contents of the set can only be modified by adding or deleting cases and dataset in the **Data Manager** or through the **Data** menu, or using various case and dataset interface functions.

Remarks:

- Elements of the set AllDataFiles are more commonly referenced through its subsets AllCases and AllDataSets.
- Further information about the integer data file references can be obtained through the functions DataFileGetAcronym, DataFileGetDescription, DataFileGetGroup, DataFileGetName, DataFileGetOwner, DataFileGetPath and DataFileGetTime.
- The integer data file references stored in the set AllDataFiles are only guaranteed to be unique within a single AIMMS session, and, furthermore, only within the context of a single data manager file associated with a project. As a consequence, additional data file information retrieved through the functions listed above must be refreshed after opening another data manager file.

See also:

The sets AllCases, AllDataSets.

AllDataSets

The predefined set AllDataSets contains the references to all datasets stored in the data manager file currently loaded within an AIMMS project.

```
SET:
  identifier : AllDataSets
  subset of  : AllDataFiles
  index      : IndexDataSets ;
```

Definition:

The contents of the set AllDataSets is the collection of (integer) references to all datasets stored within the data manager file currently loaded within an AIMMS project.

Updatability:

The contents of the set can only be modified by adding or deleting datasets in the **Data Manager**, by saving cases in the **Data** menu, or through the functions [DatasetCreate](#), [DatasetDelete](#) and [DatasetSaveAs](#).

Remarks:

- Further information about the integer dataset references can be obtained through the functions [DataFileGetAcronym](#), [DataFileGetDescription](#), [DataFileGetGroup](#), [DataFileGetName](#), [DataFileGetOwner](#), [DataFileGetPath](#) and [DataFileGetTime](#).
- The integer dataset references stored in the set AllDataSets are only guaranteed to be unique within a single AIMMS session, and, furthermore, only within the context of a single data manager file associated with a project. As a consequence, additional case information retrieved through the functions listed above must be refreshed after opening another data manager file.

See also:

The set [AllDataFiles](#). Accessing datasets from within an AIMMS model is discussed in full detail in Section 18.7 of the User's Guide, managing data manager files is discussed in Section 18.6.

CurrentCase

The predefined element parameter `CurrentCase` contains a reference to the currently active case within an AIMMS project.

```
ELEMENT PARAMETER:  
  identifier : CurrentCase  
  range     : AllCases ;
```

Definition:

The element parameter `CurrentCase` contains an (integer) case reference (as an element of `AllCases`) to the currently active case within an AIMMS project, or is empty if the active case is not named.

Updatability:

The element parameter `CurrentCase` is used in both data management styles `Single data manager file` and `Disk files and folders`.
When using `Single data manager file`, the value of `CurrentCase` can only be modified by actively loading another case either in the **Data Manager**, through the **Data** menu, or using the functions `CaseLoadCurrent` and `CaseSaveAs`.
When using `Disk files and folders`, the value of `CurrentCase` can only be modified by actively loading or saving a case through the **Data** menu, or by using the functions `CaseFileSetCurrent`, `CaseCommandLoadAsActive`, `CaseComandSave`, `CaseComandSaveAs` or `CaseCommandNew`.

See also:

The set `AllCases`, the element parameter `CurrentDataSet`. Loading and saving cases is discussed in full detail in Section 17.2 of the User's Guide.

CurrentCaseSelection

The predefined set `CurrentCaseSelection` contains the current multiple case selection within an AIMMS project.

```
SET:
  identifier : CurrentCaseSelection
  subset of  : AllCases
  index      : IndexCurrentCaseSelection;
```

Definition:

The contents of the set `CurrentCaseSelection` is the collection of (integer) case references (as elements of `AllCases`) that is currently part of the multiple case selection.

Updatability:

The contents of the set can be modified through the **Data-Multiple Cases** menu, by calling the function `CaseSelectMultiple`, or programmatically through a direct assignment within the model.

See also:

The set `AllCases`. Working with multiple cases is discussed in full detail in Section 17.5 of the User's Guide.

CurrentDataSet

The predefined element parameter CurrentDataSet contains a reference to the current actively loaded dataset(s) within an AIMMS project.

```
ELEMENT PARAMETER:
  identifier   : CurrentDataSet
  index domain : IndexDataCategories
  range       : AllDataSets ;
```

Definition:

The element parameter CurrentDataSet contains, for every data category, an (integer) dataset reference (as an element of [AllDataSets](#)) to the current actively loaded dataset within the active case, or is empty if there no named dataset loaded as active for a particular data category.

Updatability:

The value of the element parameter CurrentDataSet can only be modified by actively loading datasets into the active case either in the **Data Manager**, through the **Data** menu, or using the functions [DatasetLoadCurrent](#) and [DatasetSaveAs](#).

See also:

The set [AllDataSets](#), the element parameter [CurrentCase](#). Loading and saving datasets is discussed in full detail in Section [18.3](#) of the User's Guide.

CurrentDefaultCaseType

The predefined element parameter `AllCaseTypes` contains the name of the current default case type.

```
ELEMENT PARAMETER:  
  identifier : CurrentDefaultCaseType  
  range      : AllCaseTypes ;
```

Definition:

The value of the element parameter `CurrentDefaultCaseType`, if non-empty, restricts the selection of visible cases to the cases of the specified case type in the **Load Case** dialog box. In addition, a non-empty value of `CurrentDefaultCaseType` presets the case type to the specified case type in the **Save Case** dialog box, and removes the end-user's capability to modify the case type interactively.

Updatability:

The value of the element parameter can be modified both in the model and in the graphical end-user interface.

See also:

The set `AllCaseTypes`. Presetting case types is discussed in full detail in Section 18.1 of the User's Guide.

CurrentCaseFileContentType

The predefined element parameter `CurrentCaseFileContentType` contains the references to a case file content, corresponding to the most recently loaded or saved case file.

```
ELEMENT PARAMETER:
  identifier   : CurrentCaseFileContentType
  range       : AllCaseFileContentTypes ;
```

Definition:

The value of `CurrentCaseFileContentType` is a references to a subset of `AllIdentifiers`, which corresponds to the data that is stored in the most recently loaded or saved case file. This subset is also used to determine whether any data needs to be saved for the current case, before loading another case file.

Updatability:

The value of the element parameter can be freely modified. The standard case management functionality updates the value itself whenever a case file is loaded or saved.

Remarks:

- This predeclared identifier is only relevant if the project option `Data Management style` is set to `Disk files and folders`.

See also:

The set [AllCaseFileContentTypes](#).

AllCaseFileContentTypes

The predefined set `AllCaseFileContentTypes` contains the references to all case file content types that can be used within a particular AIMMS project.

```
SET:
  identifier : AllCaseFileContentTypes
  subset of  : AllSubsetsOfAllIdentifiers
  index      : IndexCaseFileContentTypes ;
```

Definition:

An element in the set `AllCaseFileContentTypes` is a subset of `AllIdentifiers`. Such a subset defines the identifiers that are stored in a case file.

Updatability:

The contents of this set can be freely modified. By default, it only contains the element '`AllIdentifiers`'. If your project uses multiple types of case files with different content, you should replace the default content of this set with all content types applicable to your project.

Remarks:

- This predeclared identifier is only relevant if the project option `Data Management style` is set to `Disk files and folders`.
- If this set contains more than one element, the dialog box for saving a case file will show an additional drop down box, in which the user can select the case content type to be used for saving.

See also:

The set `AllSubsetsOfAllIdentifiers`.

CaseFileURL

The string parameter `CaseFileURL` holds the url (i.e. the full path name) of the file that corresponds to each element in `AllCases`.

```
STRING PARAMETER:  
  identifier : CaseFileURL  
  index domain : AllCases
```

Definition:

The contents of the set `AllCases` is the collection of (integer) references to all case files that have been loaded or saved during a specific session of your AIMMS project. The string parameter `CaseFileURL` helps you to get the location of each of these cases.

Updatability:

The contents of the set `AllCases` as well as their corresponding values in `CaseFileURL` are maintained by AIMMS itself and cannot be modified directly. They are modified when you load or save cases, or through the function `CaseFileURLtoElement`.

Remarks:

- This predeclared identifier is only relevant if the project option `Data Management style` is set to `Disk files and folders`.
- The integer case references stored in the set `AllCases` are only guaranteed to be unique within a single AIMMS session.

See also:

The set `AllCases` and the function `CaseFileURLtoElement`.