
AIMMS Function Reference - System Settings Related Identifiers

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Part IV

Predefined Identifiers

System Settings Related Identifiers

The following collection of predefined identifiers contains system-related information. The contents of these identifiers typically corresponds to data entered in system dialog boxes, such as the **Solver Configuration** dialog box, the **User Colors** dialog box and the **User** and **Authorization Level Setup** dialog boxes.

- AllAuthorizationLevels
- AllColors
- AllIntrinsics
- AllKeywords
- AllOptions
- AllPredeclaredIdentifiers
- AllSolvers
- AllSymbols
- AllProfilerTypes
- ProfilerData
- CurrentAuthorizationLevel
- CurrentGroup
- CurrentSolver
- CurrentUser

AllAuthorizationLevels

The predefined set AllAuthorizationLevels contains the names of all authorization levels associated with an AIMMS project.

```
SET:
  identifier : AllAuthorizationLevels
  index      : IndexAuthorizationLevels ;
```

Definition:

The contents of the set AllAuthorizationLevels is the collection of all authorization levels defined for a particular project through the **Authorization Level Setup** dialog box.

Updatability:

The contents of the set can only be modified through the **Authorization Level Setup** dialog box.

Remarks:

The set AllAuthorizationLevels is typically used in the index domains of parameters used in the model and graphical end-user interface to define accessibility rights for groups of users with the same authorization level. By referring to the data slice determined by the value of element parameter **CurrentAuthorizationLevel**, AIMMS will use the accessibility rights associated with the authorization level of the current user.

See also:

The use of authorization levels is explained in full detail in Section [21.3.2](#) of the User's Guide.

AllColors

The predefined set AllColors contains the names of all users colors associated with an AIMMS project.

```
SET:
  identifier : AllColors
  index      : IndexColors ;
```

Definition:

The contents of the set AllColors is the collection of all user colors defined for a particular project through the **User Colors** dialog box.

Updatability:

The contents of the set can only be modified through the **User Colors** dialog box, or programmatically through the functions `UserColorAdd` and `UserColorDelete`.

Remarks:

The set AllColors is typically used to allow programmatic assignment of colors to data displayed in the graphical end-user interface in a data-driven manner.

See also:

The use of user colors is explained in full detail in Section [11.4](#) of the User's Guide.

AllIntrinsics

The predefined set AllIntrinsics contains the names of all standard AIMMS functions and operators.

```
SET:
  identifier : AllIntrinsics
  subset of  : AllSymbols
  index      : IndexIntrinsics ;
```

Definition:

The contents of the set AllIntrinsics is the collection of all standard functions and operators.

Updatability:

The contents of the set cannot be modified.

See also:

The set [AllSymbols](#).

AllKeywords

The predefined set AllKeywords contains the names of all keywords in AIMMS.

```
SET:
  identifier : AllKeywords
  subset of  : AllSymbols
  index      : IndexKeywords ;
```

Definition:

The contents of the set AllKeywords is the collection of all keywords.

Updatability:

The contents of the set cannot be modified.

See also:

The set [AllSymbols](#).

AllOptions

The predefined set AllOptions contains the names of all options available in AIMMS.

```
SET:
  identifier : AllOptions
  index      : IndexOptions ;
```

Definition:

The contents of the set AllOptions is the collection of all options available in AIMMS from the language and through the **Options** dialog box.

Updatability:

The contents of the set can only be modified through the **Solver Configuration** dialog box. By adding or removing solvers the corresponding solver options will be added or removed in the set AllOptions.

Remarks:

In the set AllOptions, the solver specific options are prefixed by the solver name and version.

See also:

Options in AIMMS is described in detail in Section [22.1](#) of the User's Guide.

AllPredeclaredIdentifiers

The predefined set AllPredeclaredIdentifiers contains the names of all predeclared identifiers in AIMMS.

```
SET:
  identifier : AllPredeclaredIdentifiers
  subset of  : AllSymbols
  index      : IndexPredeclaredIdentifiers ;
```

Definition:

The contents of the set AllPredeclaredIdentifiers is the collection of all predeclared identifier names.

Updatability:

The contents of the set cannot be modified.

See also:

The set [AllSymbols](#).

AllSolvers

The predefined set AllSolvers contains the names of all types of solvers associated with the AIMMS system installed on a particular computer.

```
SET:
  identifier : AllSolvers
  index      : IndexSolvers ;
```

Definition:

The contents of the set AllSolvers is the collection of all types of solvers linked to a particular AIMMS system through the **Solver Configuration** dialog box.

Updatability:

The contents of the set can only be modified through the **Solver Configuration** dialog box.

Remarks:

The set AllSolvers is of little use to most AIMMS models.

See also:

Solver configuration is discussed in full detail in Section [22.3](#) of the User's Guide.

AllSymbols

The predefined set AllSymbols contains the names of identifiers, predeclared identifiers, keywords, and intrinsics.

```
SET:
  identifier : AllSymbols
  index      : IndexSymbols
  definition : AllPredeclaredIdentifiers + AllIdentifiers +
              AllKeywords + AllIntrinsics;
```

Definition:

The contents of the set AllSymbols is the collection of all identifiers, predeclared identifiers, keywords, and intrinsics.

Updatability:

The contents of the set can only be modified by adding or deleting identifiers in the **Model Explorer**.

See also:

The sets [AllIdentifiers](#), [AllPredeclaredIdentifiers](#), [AllKeywords](#), and [AllIntrinsics](#).

AllProfilerTypes

The predefined set AllProfilerTypes contains the names of all types of profiler data that can be stored in the predefined identifier ProfilerData.

```
SET:
  identifier : AllProfilerTypes
  index     : IndexprofilerTypes ;
```

Definition:

The set AllProfilerTypes currently contains the profiler types '*hits*', '*gross time*', and '*net time*'.

See also:

The function [ProfilerStart](#) and the predefined parameter [ProfilerData](#).

ProfilerData

The predefined parameter `ProfilerData` can be used by AIMMS to store profiling information about the execution of procedures and the updating of definitions.

```
PARAMETER:  
  identifier : ProfilerData  
  index domain : ( IndexIdentifiers, IndexprofilerTypes ) ;
```

Remarks:

- Profiling information is only stored in the parameter `ProfilerData` if the profiler has been activated and if the option `profiler_store_data` has been set to `On`.
- The number of reported hits is a positive integer and all reported profiling times are measured in seconds.

See also:

The function `ProfilerStart` and the predefined identifier `AllProfilerTypes`.

CurrentAuthorizationLevel

The predefined element parameter `CurrentAuthorizationLevel` refers to the authorization level assigned to the user currently logged on to an AIMMS project.

```
ELEMENT PARAMETER:  
  identifier : CurrentAuthorizationLevel  
  range      : AllAuthorizationLevels ;
```

Definition:

The contents of the element parameter `CurrentAuthorizationLevel` is the authorization level assigned to the user currently logged on to a project, as assigned by the User Administrator in the **User Setup** dialog box.

Updatability:

The contents of `CurrentAuthorizationLevel` can only be modified by logging on to the project as another user through the **File-Authorization-User** menu, or by directly modifying the authorization level through the **File-Authorization-Level** menu.

Remarks:

The element parameter `CurrentAuthorizationLevel` is typically used refer to the slice of model-defined data that defines access rights to various parts of the model or end-user interface of a model. By referring to the data slice determined by the value of element parameter `CurrentAuthorizationLevel`, AIMMS will use the accessibility rights associated with the authorization level of the current logged on user.

See also:

The set [AllAuthorizationLevels](#). The use of authorization levels is explained in full detail in Section [21.3.2](#) of the User's Guide.

CurrentGroup

The predefined string parameter CurrentGroup contains the name of the user group associated with the user currently logged on to an AIMMS project.

```
STRING PARAMETER:  
  identifier : CurrentGroup ;
```

Definition:

The contents of the string parameter CurrentGroup is the name of the user group associated with the user currently logged on to a project. User groups are defined by the User Administrator in the **User Setup** dialog box.

Updatability:

The contents of CurrentGroup can only be modified by logging on to the project as another user through the **File-Authorization-User** menu, or directly through the **File-Authorization-Group** menu.

Remarks:

The string parameter CurrentGroup only contains data when the project has been linked to a user database.

See also:

The function [SecurityGetGroups](#). Adding user groups is explained in full detail in Section [21.3.3](#) of the User's Guide.

CurrentSolver

The predefined element parameter `CurrentSolver` contains, for every mathematical programming type, the name of the solver that AIMMS will currently use to solve models of that type.

```
ELEMENT PARAMETER:  
  identifier   : CurrentSolver  
  index domain : IndexMathematicalProgrammingTypes  
  range       : AllSolvers ;
```

Definition:

The contents of the element parameter `CurrentSolver` are, for all types of mathematical programs, the names of the currently active solver for solving mathematical programs of each type, as set through the **Solver Configuration** dialog box.

Updatability:

The value of `CurrentSolver` can also be modified programmatically from within an AIMMS model, and then determines the solver that will be used to solve subsequent problems of the specified type. Modifying the values of `CurrentSolver` will, however, not modify the (default) settings in the **Solver Configuration** dialog box, that will be loaded at startup.

See also:

The sets `AllMathematicalProgrammingTypes`, `AllSolvers`. Solver configuration is discussed in full detail in Section [22.3](#) of the User's Guide.

CurrentUser

The predefined string parameter `CurrentUser` contains the name of the user currently logged on to an AIMMS project.

```
STRING PARAMETER:  
  identifier : CurrentUser ;
```

Definition:

The contents of the string parameter `CurrentUser` is the name of the user currently logged on to a project. Project users are defined by the User Administrator in the **User Setup** dialog box.

Updatability:

The contents of `CurrentUser` can only be modified by logging on to the project as another user through the **File-Authorization-User** menu.

Remarks:

The string parameter `CurrentUser` only contains data when the project has been linked to a user database.

See also:

The function [SecurityGetUsers](#). Adding project users is explained in full detail in Section [21.3.3](#) of the User's Guide.