Overview

The SAS Catalog Entry class defines an object-oriented interface to SAS catalog entries. A SAS Catalog Entry object corresponds to a SAS catalog entry and contains information about the catalog entry, including its name, its entry type, its entry description, the date it was last modified, its associated SAS library, its associated SAS catalog, and a list of the catalog entry's attributes.

Parent:
  sashelp.fsp.sasfile.class
Class:
  sashelp.fsp.CatEntry.class

Using the SAS Catalog Entry Class

You can create a SAS Catalog Entry object. When you instantiate a SAS Catalog Entry object, only the object identifier is created. You then add information about a SAS catalog entry to the object. This step is referred to as initializing the object. To initialize a SAS Catalog Entry object, use the _setup method. This example initializes the SAS Catalog Entry object, CATENTOBJ, to SASUSER.PROFILE.PASSIST.SLIST:

```plaintext
cateclass=loadclass('sashelp.fsp.catentry.
class');
catentobj=instance(cateclass);
call send (catentobj, '_setup_', 'sasuser.
profile.passist.slist');
```

Note: Unless an example includes LOADCLASS, INSTANCE, and _setup, the example assumes that you have instantiated a SAS Catalog Entry object and initialized it using these statements.

If you list the contents of CATENTOBJ, you see:

```plaintext
(_class=2663
 DESC='SAS Catentry Class'
```
Methods

Methods specific to the SAS Catalog Entry class are described here. The SAS Catalog Entry class inherits methods from the SAS Generic File and Object classes. All methods from SAS Generic File class are overridden. Object class methods are described in the Object class.

Dictionary

_copy

Copies a SAS Catalog entry

Syntax

CALL SEND (catentry-object-id, '_copy', target-entry-name<, new-catentry-object>);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>target-entry-name</td>
<td>C</td>
<td>specifies the two-level name (entryname entrytype) of the target catalog entry to which the catalog entry that is associated with catentry-object is to be copied</td>
</tr>
<tr>
<td>new-catentry-object</td>
<td>N</td>
<td>returns the object identifier of a SAS Catalog Entry object created for target-entry-name</td>
</tr>
</tbody>
</table>

Details

The _copy method copies the SAS Catalog entry that is associated with catentry-object-id and names the new copy target-entry-name. If new-catentry-object is specified, a new SAS Catalog Entry object, corresponding to the target-entry-name, is created and its object identifier is returned.
Example

This example copies SASUSER.CAT1.MYPROG.PROGRAM to SASUSER.CAT1.ENTRY.PROGRAM, and then creates a new SAS Catalog Entry object for SASUSER.CAT1.ENTRY.PROGRAM and returns that object identifier in NEWCATENTRY:

cateclass=loadclass('sashelp.fsp.catentry.class');
catentobj=instance(cateclass);
newcatentry=0;
call send (catentobj, '_setup_', 'sasuser.cat1.myprog.program');
call send (catentobj, '_copy_', 'entry.program', newcatentry);

_delete

Deletes the SAS catalog entry associated with the SAS Catalog Entry object and clears the SAS Catalog Entry object

Syntax

CALL SEND (catentry-object-id, '_delete');

Details

_delete clears the association with the SAS catalog entry and deletes the SAS catalog entry. However, it does not delete the SAS Catalog Entry object itself.

_getAttributes

Retrieves a list of attributes for the catalog entry associated with a SAS Catalog Entry object

Syntax

CALL SEND (catentry-object-id, '_getAttributes', attributes-list);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>attributes-list</td>
<td>N</td>
<td>specifies the identifier of an SCL list containing the items in Table 89.1 on page 1664. Each item in the list is a SAS Catalog entry attribute.</td>
</tr>
</tbody>
</table>
Table 89.1  _getAttributes List Items

<table>
<thead>
<tr>
<th>List item</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE</td>
<td>N</td>
<td>C</td>
</tr>
<tr>
<td>DESC</td>
<td>C</td>
<td>the entry description</td>
</tr>
<tr>
<td>EDESC</td>
<td>C</td>
<td>the extended entry description</td>
</tr>
<tr>
<td>MAXLEN</td>
<td>N</td>
<td>the maximum record length of the catalog entry</td>
</tr>
<tr>
<td>BLOCKSIZE</td>
<td>N</td>
<td>the catalog entry block size</td>
</tr>
</tbody>
</table>

**Example**

This example returns the attributes for SASUSER.PROFILE.PASSIST.SLIST:

```plaintext
attrlist=makelist();
call send (catentobj, '_get_attributes_',
attrlist);
```

The contents of ATTRLIST are:

```plaintext
( DATE=12971
  DESC='User profile'
  EDESC='07/07/95'
  MAXLEN=6216
  BLOCKSIZE=4096
  FLAGS=5
)[2695]
```

_**getCatalog**_

Creates and returns a SAS Catalog object for the catalog that contains this SAS Catalog Entry object

**Syntax**

CALL SEND (catentry-object-id, '_getCatalog', catalog-object-id);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>catalog-object-id</td>
<td>N</td>
<td>returns the object identifier of the SAS Catalog object that is associated with the SAS catalog containing catentry-object-id</td>
</tr>
</tbody>
</table>

**Example**

This example creates and returns the SAS Catalog object identifier for SASUSER.CAT1 as CATALOG.
call send (catentobj, '_get_catalog_',
catalog);

___getDescription

Retrieves the description of the catalog entry for a SAS Catalog Entry object

Syntax
CALL SEND (catentry-object-id, '_getDescription', description);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>C</td>
<td>returns the description for the catalog entry that corresponds to catentry-object-id</td>
</tr>
</tbody>
</table>

Example
This example returns the SAS catalog entry description for SASUSER.PROFILE.PASSIST.SLIST ('User profile') into DESCRIPTION:

length description $40;
call send (catentobj, '_get_description_',
description);

___getFullname

Retrieves the fully-qualified name of the catalog entry for a SAS Catalog Entry object

Syntax
CALL SEND (catentry-object-id, '_getFullname', catentry-fullname);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>catentry-fullname</td>
<td>C</td>
<td>returns the four-level fully-qualified name (libref.catalog.entry.type) for catentry-object-id</td>
</tr>
</tbody>
</table>

Example
This example returns the four-level, fully-qualified name for the SAS Catalog entry, SASUSER.PROFILE.PASSIST.SLIST, into FULLNAME:
length fullname $35;
call send (catentobj, '_get_fullname_',
        fullname);

_getLibrary

Creates and returns a SAS Library object for the SAS library that contains this SAS Catalog Entry object

Syntax

CALL SEND (catentry-object-id, '_getLibrary', library-object-id);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>library-object-id</td>
<td>N</td>
<td>returns the object identifier of the SAS Library object that corresponds to the SAS library containing catentry-object-id</td>
</tr>
</tbody>
</table>

Details

The SAS Library object that is created, library-object-id, can be accessed and manipulated by all of the methods defined in the SAS Library class.

Example

This example creates and returns the SAS Library object identifier for SASUSER in LIBRARY:

    call send (catentobj, '_get_library_',
        library);

_getName

Retrieves the entry name for a SAS Catalog Entry object

Syntax

CALL SEND (catentry-object-id, '_getName', catentry-name);
### _rename

_Renames the SAS catalog entry associated with the SAS Catalog Entry object_

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>catentry-name</td>
<td>C</td>
<td>returns the two-level name ( \text{entry.type} ) of ( \text{catentry-object-id} )</td>
</tr>
</tbody>
</table>

#### Example

This example returns the two-level SAS Catalog entry name for 
SASUSER.PROFILE.PASSIST.SLIST (PASSIST.SLIST) into \( \text{ENTRYNAME} \):

```plaintext
length entryname $17;
call send (catentobj, '_get_name_',
    entryname);
```

#### See Also

-_getFullname_

## _getType_

Retrieves the entry type for a SAS Catalog Entry object

#### Syntax

```
CALL SEND (catentry-object-id, '_getType', entrytype);
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>entrytype</td>
<td>C</td>
<td>returns the entry type for ( \text{catentry-object-id} )</td>
</tr>
</tbody>
</table>

#### Example

This example returns the SAS Catalog entry type for 
SASUSER.PROFILE.PASSIST.SLIST (SLIST) into \( \text{ENTRYTYPE} \):

```plaintext
length entrytype $8;
call send (catentobj, '_get_type_',
    entrytype);
```
Syntax
CALL SEND (catentry-object-id,'_rename',new-entry-name);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>new-entry-name</td>
<td>C</td>
<td>specifies the new one-level entry name for the catalog entry that is associated with catentry-object-id</td>
</tr>
</tbody>
</table>

Example
Suppose you have a catalog entry, WORK.GSEG.GTESTIT1.GRSEG, and this entry is associated with CATENTOBJ:

cateclass=loadclass('sashelp.fsp.catentry.
  class');
catentobj=instance(cateclass);
call send (catentobj, '_setup_', 'work.gseg.
gtestit1.grseg');

When you initialize CATENTOBJ, the object has these values:

(  _class=2663
  DESC='SAS Catentry Class'
  FULLNAME='WORK.GSEG.GTESTIT1.GRSEG'
  DESCRIPTION='PICTURE 1 FROM PROC GTESTIT'
  LIBRARY=<invalid list id>[0]
  CATALOG=<invalid list id>[0]
  ATTRIBUTES=<invalid list id>[0]
 )[2687]

You then rename the entry to NEWNAME:

call send (catentobj, '_rename_', 'newname');

CATENTOBJ then has these values:

(  _class=2663
  DESC='SAS Catentry Class'
  FULLNAME='WORK.GSEG.NEWNAME.GRSEG'
  DESCRIPTION='PICTURE 1 FROM PROC GTESTIT'
  LIBRARY=<invalid list id>[0]
  CATALOG=<invalid list id>[0]
  ATTRIBUTES=<invalid list id>[0]
 )[2687]

_setup
Initializes a SAS Catalog Entry object with information about a specific SAS Catalog entry
Syntax

CALL SEND (catentry-object-id, '_setup', catentry-name);

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>catentry-name</td>
<td>C</td>
<td>specifies the four-level fully-qualified name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(libref.catalog.entry.type) of a SAS Catalog entry</td>
</tr>
</tbody>
</table>

Details

_setup initializes a SAS Catalog Entry object with its name, entry type, entry description, date it was last modified, associated SAS library, associated SAS catalog, and a list of the catalog entry's attributes. For an example of using _setup, see “Using the SAS Catalog Entry Class” on page 1661.