Overview

The SAS Session component provides access to changes made within the SAS environment. For example, events can be sent when a new libref has been assigned or a new catalog entry has been added.

Parent:
  sashelp.fsp.Object.class

Class:
  sashelp.classes.Sessionevent_c.class

Using the SAS Session Component

You can use the SAS Session Component by creating an instance of the class and then adding handlers for the events you want to receive. Each event has an associated data argument that provides information specific to the event (such as a library name or catalog entry name). You only have to create one instance of the SAS Session Component for a single SAS/AF task.

You can use a SAS session component to listen for the following events:

<table>
<thead>
<tr>
<th>Event Name</th>
<th>Event Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>catalog entry</td>
<td>Character string containing the four-level name of the newly-created catalog, such as 'WORK.MYCAT.NEW.FRAME'</td>
</tr>
<tr>
<td>created</td>
<td></td>
</tr>
<tr>
<td>catalog entry</td>
<td>Character string containing the four-level name of the deleted catalog</td>
</tr>
<tr>
<td>deleted</td>
<td></td>
</tr>
<tr>
<td>catalog entry</td>
<td>Character string containing the previous four-level name of the renamed entry</td>
</tr>
<tr>
<td>renamed</td>
<td></td>
</tr>
<tr>
<td>fileref assigned</td>
<td>Character string containing filename and path, such as 'MYFILE d:\myfile'</td>
</tr>
</tbody>
</table>


Character string containing filename and path, such as ‘MYFILE’

Character string containing libname, engine, and path of newly created library, such as ‘MYLIB V7 d:\mydir’

Character string containing libname of deassigned library, such as ‘MYLIB’

Character string containing name of newly created library member, such as ‘WORK.MYDATA.DATA’

Character string containing name of deleted library member, such as ‘WORK.MYCAT.CATALOG’

Example
The following example instantiates a SAS session component to check for library information:

1. Edit a new frame.
2. In the Components window, add the class Sashelp.Classes.Sessionevent_c.class.
   (Adding this component to the Components window allows you to drop the component on a frame.)
3. Drag and drop a list box control on the frame, then drag and drop a library list model on top of the list box control.
4. Drag and drop a SAS session component on the frame (but not on the list box).
5. Open the Properties window, then expand the tree for Librarylist1 to view its event handlers.
6. Add a new event handler with the following information: Sender=_SESSION_, Event Name=library assigned, Method Name=onLibraryAssigned.
   When the Add Method dialog appears, click Yes to invoke the New method window. Immediately click OK to end out of the New method window.
7. Add another event handler for the library deassigned event using Method Name=onLibraryDeassigned. Click Yes to add the new method.
8. Click the Source button in the New Method window and add the following SCL code:

```sas
onLibraryAssigned: public
method libraryInfo:output:char;
  dcl char libname;
  dcl num rc;
  libname=scan(libraryInfo,1,' ');
  rc=insertc(_self_.items, libname, -1);
  rc=sortlist(_self_.items);
  _self_._sendEvent('contents updated');
endmethod;

onLibraryDeassigned: public method
libraryInfo:output:char;
  dcl char libname;
  dcl num rc index;
  libname=scan(libraryInfo,1,' ');
  index = searchc(_self_.items, libname);
  if (index) then do;
    rc=delitem(_self_.items, index);
    _self_._sendEvent('contents updated');
  end;
endmethod;
```
9  Compile and save the SCL, then click **OK** in the New Method window.

10 Test the frame by assigning a new libname from either the SAS Explorer or Program Editor. You should see the new libname appear automatically in the frame’s list box control. Likewise, by removing the libname, you should see the list box update accordingly.

### Attributes

Public attributes specified for the SAS Session Component class are described here. See sashelp.fsp.Object.class for inherited attributes.

### Dictionary

#### description

Returns the short description for the object

**Type:** Character

**Valid Values:**

#### name

Returns or sets the name of the object

**Type:** Character

**Valid Values:**

### Events

Events specified for the SAS Session Component class are described here.

**HTML anchored**

Occurs as a result of HTML anchored
catalog entry created
  
  Occurs when a new catalog entry is created

catalog entry deleted
  
  Occurs when a catalog entry is deleted

catalog entry renamed
  
  Occurs when a catalog entry is renamed
directory closed
  
  Occurs when a directory is closed
directory created
  
  Occurs when a new directory is created
directory deleted
  
  Occurs when a directory is deleted
directory opened
  
  Occurs when a directory is opened
fileref assigned
  
  Occurs when a new fileref is assigned
fileref deassigned
  
  Occurs when a new fileref is assigned
library desassigned
  
  Occurs when a libref is desassigned (or cleared)
member created
  
  Occurs when a new member is created in a SAS data library
mono anchored
  
  Occurs as a result of mono anchored
output created
  
  Occurs when output is created
output deleted
  
  Occurs when output is deleted