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MDDB Report Viewer 9.3

SAS® Documentation

The correct bibliographic citation for this manual is as follows: SAS Institute Inc 2011. *MDDB Report Viewer 9.3*. Cary, NC: SAS Institute Inc.

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SAS Institute Inc., SAS Campus Drive, Cary, North Carolina 27513.

1st printing, July 2011

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Chapter 1

Overview of the MDDB Report Viewer

What Is the MDDB Report Viewer?

The MDDB Report Viewer enables users to generate and view reports and graphs of data that are stored in a multidimensional database (MDDB) without running a SAS session.

An MDDB is a specialized data storage facility that stores summarized data for fast and easy access. Users can quickly view large amounts of data as a value at any cross-section of business dimensions. A business dimension can be any vision of the data that makes sense, such as time, geography, or product. Users create and update multidimensional databases using SAS/EIS software or the MDDB procedure when the SAS OLAP Server has been licensed.

The MDDB Report Viewer enables users who do not have access to SAS software (or who do not want to invoke SAS software) to view the data in an MDDB. This capability eliminates the need to have SAS software running on all users' machines and provides access to the MDDB reports and graphs in a Web environment.

Note: The SAS OLAP Server, available in SAS 9.1 and later, enables users to develop advanced SAS Business Intelligence applications using all of our new software, including SAS Information Delivery Portal, SAS Web Report Studio, and SAS Enterprise Guide. If you are developing new OLAP applications, then consider using this new technology rather than the MDDB Report Viewer.

Support for Access Control Features

The MDDB Report Viewer enables you to perform the following tasks that are associated with the Access Control features of SAS/EIS software:

- deny access to the entire table
- drop or keep hierarchies

- drop or keep ANALYSIS/COMPUTED columns
- hide ANALYSIS columns
- drop or keep CATEGORY columns
- drop or keep hierarchy levels
- drop or keep data values and totals
- hide or show data values
- set initial drill levels
- drop or keep statistics for individual ANALYSIS/COMPUTED columns
- hide the special Total value
- define initial drill subsets.

The MDDB Report Viewer supports the following Applications Access features:

- Report Layout
- Show Detail Data.

Requirements for Running the MDDB Report Viewer

Before you begin setting up the MDDB Report Viewer, you must meet the following requirements:

- Version 9 or later of the following SAS software products must be licensed at your site:
  - Base SAS software.
  - SAS/IntrNet software. The Application Dispatcher component (consisting of the Application Broker and Application Server components) must be installed and configured.
  - SAS/GRAPH software (optional but recommended).
- SAS/EIS software **or** the SAS OLAP Server must be licensed at your site.

  Note: MDDB Report Viewer 9.3 works only with the V8 SAS OLAP Server, which is available with both SAS 8 (as a separate product) and SAS 9 (as part of the SAS OLAP Server).
- The MDDB that you use to generate reports must be created, registered in a repository, and stored in a location to which you have access. You can create an MDDB by using SAS/EIS software or PROC MDDB when the SAS OLAP Server has been licensed. SAS/EIS software automatically registers the MDDB in the repository. If you use PROC MDDB to create the MDDB file, you must register the MDDB in a SAS/EIS repository. See the online Help for these products for complete instructions on how to create an MDDB. The MDDB Report Viewer can use only MDDB files to create reports. It cannot use SAS data sets.
- Your Web browser must support HTML pages with frames.

Chapter 2

Setting Up the MDDB Report Viewer

Methods for Setting Up the MDDB Report Viewer

Overview of Methods for Setting Up the MDDB Report Viewer

The MDDB Report Viewer consists of three HTML pages in which users can enter information to generate reports and graphs from an MDDB. Some features of the MDDB Report Viewer pages might appear slightly different on different Web browsers. If you use more than one Web browser to access the MDDB Report Viewer, consider these differences when you set up and customize the tool.

You can use SAS/EIS software access control features with the MDDB Report Viewer. See "Support for Access Control Features" on page 1 to learn more about using access control.

Note: To run this release of the MDDB Report Viewer, your system administrator must have previously set up a Repository Manager for accessing metadata. For more information about this setup procedure, see "Working with Repositories" on page 6. You can also refer to the online SAS Help and Documentation for Base SAS software and SAS/EIS software for details about setting up a repository.

You can use any of three methods to set up the MDDB Report Viewer.

Method 1

Copy the sample webeis.html page for the MDDB Report Viewer. The sample webeis.html page is included in the SAS/IntrNet CGI Tools for the Web server installation package and can be found in the **`sasweb/IntrNet9/MRV`** directory under

your Web server root document directory. Modify the webeis.html file to specify your site's repositories, services, background colors, and so on. You can specify a subclass of the WEBEIS class to customize viewer behavior. See Method 3, Step 2 for a description of the CLASS parameter.

Method 2

Use the dynamic entry into the application by entering a URL that is similar to the following in your Web browser:

```
http://web-server-name/broker-URI?_program=sashelp.webeis.rptseld.scl
&_service=myservice&metabase=sashelp.mbeis&bgtype=color&bg=red
&class=sashelp.override.myweb.class
```

Here, *broker-URI*, BGTYPE, BG, and CLASS are as described in Method 3, Step 2. With this method, no HTML pages are created or stored.

Method 3

Run the SAS AF command to create HTML pages for your repositories and to set up the MDDB Report Viewer at your site. Follow these steps:

1. Start a SAS session.
2. To create the MDDB Report Viewer HTML file, enter the following command in the Program Editor window and submit the command to SAS for processing:

   ```
   dm "af c=sashelp.webeis.rptsel.scl metabase=my-metabase
   pathname='HTML-file' <CGI='broker-URI'>
   <title='1996 Sales Report'> <bgtype='color'> <bg=blue>
   <class='sashelp.override.myweb.class'>";
   ```

   Here

   METABASE
   : is the name of the SAS/EIS repository in which the MDDB has been registered. A METABASE value is required. The name can contain up to 60 characters and blank spaces. If you use blank spaces or special characters in the name, you must delimit the name with single quotation marks ('). SAS recommends that you use the same or similar filenames for the METABASE and PATHNAME options so that you can easily determine the metabase with which a particular instance of the MDDB Report Viewer is associated.

     Note: The term *metabase* is retained for backward compatibility.

   PATHNAME
   : is the path and filename of the MDDB Report Viewer HTML file that is created by the AF command. The directory is typically located under the Web server document root or in another directory served by the Web server. A PATHNAME value is required. SAS recommends that you use the same or similar filenames for the METABASE and PATHNAME options so that you can easily determine the metabase with which a particular instance of the MDDB Report Viewer is associated.

   CGI
   : is the optional URI for the Application Broker component of Application Dispatcher (for example, **`/cgi-bin/broker`** or **`scripts/broker.exe`**). If you do not specify a value for this option, you must supply a value in the HTML file after it is created.

TITLE
is the title that appears at the top of the report. A TITLE value is optional. If you do not specify a title, the title "Multidimensional Reports" is used.

Note: Avoid using a percent sign (%) in the title because this symbol might be misinterpreted.

BGTYPE
is the type of background that appears in the application reports. Specify **`bgtype='color'`** to control the color of the background or **`bgtype='image'`** to control the background pattern displayed in the application reports. Use this option with the BG option, described below. A BGTYPE value is optional. If you specify **`bgtype='color'`**, the BG option expects one of the named colors or a hexadecimal value for one of the colors that is supported by your Web browser. If you specify **`bgtype='image'`**, the BG option expects the URL of a background image file. You can specify only GIF and JPG image files for the background. If you specify BGTYPE and omit BG, or if you do not use either option, the background is the default color, silver.

Note: When you control the background color of the MDDB Report Viewer HTML pages, you might also want to control the background color of graphs that are displayed on the HTML pages. To do this, you can use a transparent GIF image, which is an image with a transparent background in which the HTML background color is visible. In effect, you create a graph in a clear frame so that the background color of the HTML page displays through the frame. A device driver to create the transparent GIF is not supplied with SAS/GRAPH software. However, you can use the TRANSPARENCY option of the SAS/GRAPH GOPTIONS statement to create a graph with a transparent background. For more information about the TRANSPARENCY option, see the documentation for the GOPTIONS statement in the SAS/GRAPH Help and Documentation.

BG
specifies the color or image to display in the background. A BG value is optional. If you specify **`bgtype='color'`**, then specify a color value for BG. If you specify **`bgtype='image'`**, then specify an image value for BG. You can specify a color name or a hexadecimal value for the color value. You can specify a URL for the image file value. See the documentation for your Web browser for valid color values. If you specify BG and omit BGTYPE, or if you do not use either option, the background is the default color, silver.

Note: If you specify an invalid color value, your Web browser maps the specification to a valid value.

CLASS
is the name of a subclass of the WEBEIS class. A CLASS value is optional. Add this parameter if the user has overridden any WEBEIS methods to change the viewer behavior. You can specify either a three- or four-level name. For example, the following are both valid:

```
sashelp.override.myweb


sashelp.override.myweb.class
```

3. In a text editor, open the HTML file that you created, and supply your own values in the HTML code that is preceded by a comment. These values include the following:

broker-URI
In the tag **<FORM ACTION="*broker-URI*">**, you must supply a value if you did not specify the CGI= option in the AF command that creates the HTML pages.

service-name, service-label
In the HTML lines

```
<BR>Select service: <SELECT NAME="_service">
<OPTION VALUE="service-name" SELECTED>service-label
```

specify the list of services that are available at your site. Provide an <OPTION> tag for each of your services. For more information about services, see _SERVICE.

debug selection list
You can modify the list of debug options for your site in the following HTML line:

```
Debugging level: <SELECT NAME="_debug">
```

4. Start the Application Server and point your Web browser to the HTML file that is generated in Method 3, Step 2.

You can specify the METABASE, PATHNAME, CGI, TITLE, BGTYPE, BG, and CLASS options in any order. Run the Application Server for each repository that contains MDDBs that users access when they run their reports.

Working with Repositories

Overview of Working with Repositories

The Common Metadata Repository is a general-purpose metadata management facility that provides common metadata services to different SAS/EIS applications. The Common Metadata Repository enables SAS/EIS software to share metadata with other SAS products.

Complete all of the following tasks to set up the Common Metadata Repository:

1. Specify the system repository manager location. (See page 6.)
2. Set up the system repository manager files. (See page 7.)
3. Define the repository to the Application Server. (See page 7.)
4. Set up the SASHELP repository. (See page 8.)

Note: You must have write access to the SASHELP directory to complete these tasks.

Specifying the System Repository Manager Location

Follow these steps to specify the location of the system repository manager:

1. Create a directory that is dedicated exclusively to the storage of repository manager files, for example:
   - Windows users: **!SASROOT\RPOSMGR**
   - UNIX users: **!SASROOT/RPOSMGR**

This directory should not be used to store other SAS files.

Note: This system repository manager path is used later in this task.

2. Enter **REGEDIT** at a SAS command line. From the menu bar, select **Tools** ⇨ **Options** ⇨ **Registry Editor** to open the Registry Editor Options window. In the Select Registry View region, select the **View All** check box and then click **OK**. From the menu bar, select **File** ⇨ **Close** to close the Registry Editor Options window.
3. Enter **REGEDIT** again at a SAS command line. Under the **HKEY_SYSTEM_ROOT** tree, expand **CORE** and **REPOSITORY**. Select the **REPOSITORY_MGR** node. From the menu bar, select **Tools** ⇨ **Options** ⇨ **Registry Editor**. Select **Open HKEY_SYSTEM_ROOT for write access**. Then click **OK**.
4. Select the **Path** item in the right pane. From the pop-up menu, select **Modify**. Enter the path from Step 1. For example, enter **!SASROOT\RPOSMGR**. Click **OK** to close the Edit String Value window. From the menu bar, select **File** ⇨ **Close** to close the Registry Editor Options window and save the changes.

Setting Up the System Repository Manager Files

Complete the following steps to set up the necessary system repository manager files. You must have write access to SASHELP to specify the system repository manager.

1. Create a directory that is dedicated exclusively to the storage of repository manager files, for example:
   - Windows users: **!SASROOT\RPOSMGR**
   - UNIX users: **!SASROOT/RPOSMGR**

   Do not store other SAS files in this directory.
2. At a SAS command line, enter **REPOSMGR** and then select **Setup Repository Manager**.
3. In the Repository Manager Setup window, **Library** defaults to RPOSMGR. For **Path**, specify the path from Step 1 and then select the **Write values to system registry** check box. Then click **OK**.
4. In the resulting dialog box, click **Yes** to generate the necessary repository manager files.

This completes the set up for the System Repository Manager. You can create additional repository managers (a user repository manager, for example) by repeating these steps and by using a different path.

Note: This step sets the default location for the repository manager for your site. Individual users can override this location by executing the previous steps.

Defining the Repository to Application Dispatcher

After you set up the Repository Manager files, you must include the following statements after the PROC APPSRV statement:

```
ALLOCATE LIBRARY RPOSMGR 'rposmgr-path' ;
DATALIBS RPOSMGR;
```

Setting Up the SASHELP Repository

Complete the following steps to set up the SASHELP repository:

1. At a SAS command line, enter **`REPOSMGR`** and then select **Repository Registration**.
2. In the Repository Registration window, select **New**.
3. In the Register Repository (New) window, enter **`SASHELP`** (in uppercase) in the **Repository** field. In the **Path** field, enter the full directory path where the CORE catalog is located. For example:
   - Windows users: **`!SASROOT\CORE\SASHELP`**
   - UNIX users: **`!SASROOT/sashelp`**
4. In the **Description** field, you can enter any character string (for example, **`SASHELP Repository`**). Click **OK** to close the Register Repository (New) window. Click **Close** to exit the Repository Registration window.

Note: Repositories cannot span multiple directories because the path cannot contain concatenated directories. If you have existing metabases in concatenated directories, copy the metabases to a single path that is referenced as a repository.

Chapter 3

Using the MDDB Report Viewer

Tips for Using the MDDB Report Viewer

Using the Interface

How do I use the MDDB Report Viewer?

The MDDB Report Viewer contains four Web pages in which you enter information or manipulate your report data:

Report Layout page
: This page contains drop-down lists from which you select the MDDB and the style sheet to use.

Dimensions page
: This page enables you to select the items that you want to include in the report.

- Click **Options** at the top of the page to go to the Optional Settings page, where you can specify a variety of options that control the layout of the report. In addition, you can specify whether to display a graph in the report.
- In the **Columns** section, define the report layout by selecting items to include from the **Down** and the **Across** list boxes.
- In the **Analysis** section, select one or more analysis variables from the **Columns** list box.
- In the **Statistics** section, select the variables that you want to specify statistics for from the **Select Column** list box (the items in the list box are the variables that you selected in the **Analysis** section). Then, from the **Available** list box, select one or more statistics by highlighting the desired statistics and then clicking the right-arrow button. To select all of the available statistics, click the double-right-arrow button. To deselect statistics, select the statistics in the **Selected** list box and then click the appropriate left-arrow button to remove them from the list box.

- Click **View Report** to display the report.

Optional Settings page
: This page enables you to set the report options and to specify whether to display a graph in the report.

- Click **Dimensions** at the top of the page to go to the Dimensions page, where you select the items to include in your report.
- In the **Filter Columns** list box, select category variables for subsetting your report data.
- In the **Filter Listbox Options** section, customize the size and location of the **List By** list box on the Report page.
- In the **Report** section, specify a title for the report and whether to display a table in the report.
- In the **Graph** section, specify whether to display a graph and then customize its appearance and location in the report.
- When you click **View Report**, the report is displayed.

Report page
: This page displays the table and graph that are produced from selections made in the previous pages. You can specify new variables and select subset values to change the report.

- Click **Download to spreadsheet** to download the data in the HTML table, including the titles, as it appears on the page.
- Click **Rotate** to rotate the down and across dimensions of a report.
- Click **Dimensions** to go to the Dimensions page, where you can select the items to include in your report.
- Click **Options** to go to the Optional Settings page, where you can specify a variety of options that control the layout of the report. In addition, you can specify whether to display a graph in the report.
- Click **? Help** to view the MDDB Report Viewer documentation or a Help page that you created.
- Change report dimensions by selecting different variables from the **Down** and **Across** list boxes on the Report page. After you select the new dimensions, click **View Report** to display the new report.
- In the **Filter By** list box, select the values of the category variables by which to subset your data and then click **Apply Filter**. The report is redisplayed with the subset applied. If a graph was previously displayed, it is redisplayed with the subset applied.

How do I select items from a selection list?

Web browsers have different selection methods. For example, some browsers use a SHIFT-click combination and others use a mouse click only. Use the selection method that is appropriate for your browser.

How do I know whether the items that I select for a report are valid?

Because selection list items cannot be disabled, you receive a message when an item is invalid. For example, you cannot select the same item (or hierarchy containing the same item) for the **Down** and **Across** values in a report. Simply reselect the items and run the report again.

What does the Rotate button do?

Use the **Rotate** button to rotate the down and across dimensions of a report.

How does Download to spreadsheet work?

The **Download to spreadsheet** button appears on the Report page and on the detail data page (after a reach-through to detail data). On the Report page, the **Download to spreadsheet** button downloads the data in the HTML table, including the titles, as it appears on the page. On the detail data page, the **Download to spreadsheet** button downloads the detailed data that is displayed on the page. The data is written in comma-delimited format, and you can open the file in your spreadsheet program or save the file to disk for later use.

You can use the _MRVSEP global variable to specify a delimiter other than a comma. For more information, see Table 2, MDDB Report Viewer Global Variables on page 34.

Printing Reports

How can I print reports?

You can print reports using the browser. Follow the instructions for printing that are appropriate for your browser.

Can I print extremely large tables?

If you print a table that is extremely wide, you might not get the results that you want. Tables cannot be resized, so when you print a large table, some columns might be truncated.

Changing the Appearance of a Report

Can I change report dimensions from the Report page?

You can change report dimensions by selecting different variables from the **Down** and **Across** list boxes on the Report page. After you select the new dimensions, click **View Report** to display the new report.

To add or change analysis variables or statistics, click **Dimensions** to return to the Dimensions page and change your selections. Then click **View Report**. The report is automatically displayed with your new selections.

Can I change the colors of my report?

Colors for report values are determined by values that are set in the RANGE entry in the SAS/EIS metabase in which the MDDB is registered. To change the colors in which report values are displayed, edit the RANGE entry in the SAS/EIS metabase. To use colors that are supplied by your browser, delete the RANGE entry in the SAS/EIS metabase. The background color of the table cell is set to the color value in the RANGE entry. Make sure that the numeric text is not set to the background color so that the text is readable.

Note: Cascading style sheet (CSS) settings overwrite a RANGE setting.

Viewing Your Data

How do I drill down to additional values in a report?

To drill down to other values in a report, select a **Down** or **Across** value. The report title changes when you drill down to other levels of information.

How do I subset my report data?

On the Optional Settings page, select the category variables (in the **Filter Columns** list box) by which to subset, and then click **View Report**. When the report is displayed, select the values of the category variables (in the **Filter By** list box) by which to subset your data, and click **Apply Filter**. The report is redisplayed with the subset applied. If a graph was previously displayed, it is redisplayed with the subset applied.

How do I see the detail data?

The numbers in the table should be hyperlinked if the BASETABLE attribute is in the metadata and if the base table exists. If the numbers are not hyperlinked, reach-through is not available for the selected MDDB. Click a number, and select the variables that you want to see from the data set. Click **Next**, and the detail data is displayed in a table.

Creating Graphs

How do I generate a 3-D graph of the report data?

To generate a three-dimensional graph of the report data, go to the Optional Settings page (by clicking **Options**), and select **3D Clickable Graph** in the **GRAPH** section. Then select the graph type (block, vertical bar, and so on) from the **Type** drop-down list. Click **View Report** to display the report along with a graph of the first column of data in the table. You can right-click within the graphics display area to change the graph's properties or to save the graph to a file. The three-dimensional graph is produced with the Graph Applet.

How do I generate a standard GIF graph of the report data?

To generate a standard GIF graph of the report data, go to the Optional Settings page (by clicking **Options**), and select **Standard GIF Graph** in the **GRAPH** section. Then select the graph type (block, vertical bar, and so on) from the **Type** drop-down list. Click **View Report** to display a report along with a graph of the first column of data in the table. You can select the GRAPH icon next to any column in the report to change the statistic that is graphed.

The GIF graph works in a different manner from the three-dimensional graph. To drill down using the GIF graph, you must drill down on the table rather than the graph itself. The GIF graph is a static graph, similar to the type of graph that is produced by the GPLOT procedure.

How do I change the font for the standard GIF graph?

You can specify the font for the standard GIF graph from the REQUEST INIT program that is used by your application server. In the REQUEST INIT program, set the _GRFONT macro variable by specifying the following:

```
%let _grfont=myfont;
```

By default, the MDDB Report Viewer uses the SWISSB font if a value is not specified for _GRFONT. For a complete list of available fonts, refer to *SAS/GRAPH: Reference*. For more information about the REQUEST INIT program, see the REQUEST statement syntax.

Modifying the Default MDDB Report Viewer Settings

How do I specify the repository manager for the Application Dispatcher Server?

After you set up the repository manager files, you must include the following statements after the PROC APPSRV statement:

```
ALLOCATE LIBRARY RPOSMGR 'rposmgr-path';
DATALIBS RPOSMGR;
```

How do I specify a different delimiter for Download to spreadsheet?

To use a different delimiter for **Download to spreadsheet**, set the _MRVSEP macro variable in the REQUEST INIT program that is used by your application server. For example, to use a semicolon (;) instead of the default comma (,) delimiter, insert the following into your REQUEST INIT program:

```
%let _mrvsep=%str(;);
```

Can I create my own Help page?

By default, the **Help** button points to the following URL, which is located on the SAS Web site:

```
http://support.sas.com/rnd/web/intrnet/mddbapp/hinttips.html
```

You can create your own Help page with information that is specific to your site. To do this, create the Help Web page and specify the URL in the _MRVHELP macro variable in the REQUEST INIT program that is used by your application server. For example, you could insert a line similar to the following in your REQUEST INIT program:

```
%let _mrvhelp=http://myserver/myhelp.html;
```

Can I use cascading style sheets to modify the appearance of my report?

The MDDB Report Viewer, Version 8 and later, supports cascading style sheets. Style sheets provide you with an easy way to customize the viewer for your site. For more information about how to use style sheets with the MDDB Report Viewer, see "MDDB Report Viewer Cascading Style Sheets" on page 36.

Can I change the toolbar location?

You can change the toolbar location by setting a macro variable in the REQUEST INIT program. Set the _MRTBLOC variable to

```
%let _mrtbloc=toolbar-location-value;
```

In this setting, the *toolbar-location-value* can be one of the following values: 1=top, 2=bottom, 3=left, 4=right, and 5=no toolbar.

The default toolbar location is 1=top.

Can I display reports without the Down and Across list boxes?

You can disable the display of the **Down** and **Across** list boxes by specifying the following in your service definition in the Application Broker configuration file:

```
ServiceSet _MRNODIMBOXES "X"
```

Can I disable the sorting feature?

You can disable the sorting feature by specifying the following in your service definition in the Application Broker configuration file:

```
ServiceSet _MRNOSORT "X"
```

Can I disable the row paging feature?

You can disable the row paging feature by specifying the following in your service definition in the Application Broker configuration file:

```
ServiceSet _MRNOPGOP "X"
```

Can I modify the settings for the number of rows to display?

By default, the options page lists ALL, 25, 50, and 100 as the number of rows to display. To modify these, specify a ServiceSet directive in the Application Broker configuration file for your service for the _MRVRNDX1, MRVRNDX2, MRVRNDX3, and MRVRNDX4 macro variables. For example, if you want the number of rows options to be ALL, 100, 200, and 500, use the ServiceSet directives in the Application Broker configuration file as follows:

```
ServiceSet _MRVRNDX1 "ALL"
ServiceSet _MRVRNDX2 "100"
ServiceSet _MRVRNDX3 "200"
ServiceSet _MRVRNDX4 "500"
```

Can I change the number of paging links that are displayed beneath the report table?

By default, five page links are displayed beneath the report. To modify this setting, use a ServiceSet directive for the _MRVNRLKS macro variable. For example, to display 10 paging links, specify

```
ServiceSet _MRVNRLKS "10"
```

How do I specify to the viewer not to use HTML frames?

To modify this setting, use a ServiceSet directive for the _MRNOFRAMES macro variable. For example, specify

```
ServiceSet _MRNOFRAMES "X"
```

The toolbar buttons on both the Layout and the Report pages are displayed at the top.

Can I change the appearance of the report table?

Use the _MRTBLPRM macro variable in a ServiceSet directive to change the appearance of the report table. For example, specify

```
ServiceSet _MRTBLPRM "CELLPADDING=4 CELLSPACING=2 BORDER=3"
```

These attributes are inserted into the <TABLE> tag for the report.

Chapter 4

Making Advanced Customizations to the MDDB Report Viewer

MDDB Report Viewer Class

The MDDB Report Viewer class is a viewer that displays MDDB data. The class is a component of the MDDB Report Viewer, which is an application used by SAS/EIS software, SAS/IntrNet Application Dispatcher software, and SAS OLAP Server software.

The MDDB Report Viewer class enables you to specify dimensions that can be hierarchies or category variables, in addition to analysis variables. This class enables you to drill down on the hierarchy and other navigation, as well as to specify various types of graphic charts. The class writes output from the application to HTML in a Web browser.

PARENT: SASHELP.FSP.OBJECT.CLASS

CLASS: SASHELP.WEBEIS.WEBEIS.CLASS

MDDB Report Viewer Instance Variables

The following instance variables are used in many of the MDDB Report Viewer methods:

ACRDRL_
specifies the list of drill-down values for the across variables.

ACRVARS_
specifies the list of selected variables for the across dimension.

ALEVELS_
specifies the list of drill-down levels for the across variables.

ANALLBLS_
specifies the list of analysis variable long labels.

ANALLIST_
specifies the list of analysis variables and computed columns.

ANALVARS_
specifies the list of selected analysis variables.

ATOTAL_
specifies a flag that indicates whether the across totals are turned on.

CLASS_
contains the three- or four-level name of the WEBEIS subclass.

CSSTURL_
contains the URL for the toolbar frame style sheet.

CSSURL_
contains the URL for the style sheet.

DEBUG_
contains the application server debug level.

DEFTITLE_
contains the value of the default title that is specified by the user.

DIMLBLS_
specifies the list of labels for the down and across dimensions.

DLEVELS_
specifies the list of drill-down levels for the down variables.

DLSEP_
contains the download-to-spreadsheet delimiter. The default value is a comma.

DMODEL_
specifies the four-level name of the data model class.

DOWNDRL_
specifies the list of drill-down values for the down variables.

DOWNL_
specifies the down variables list from the application list.

DOWNVARS_
specifies the list of selected variables for the down dimension.

DPTITLE_
specifies a flag that indicates whether the drill-path title is displayed.

DTOTAL_
specifies a flag that indicates whether the down totals are turned on.

EMDDBMID_
specifies the identifier of the data model class instance.

EXPFLAG_
specifies a flag that indicates whether the expands are displayed.

EXPLIST_
specifies a list that contains sublists for each expand. The sublists are of the form **`VAR='VALUE'`**.

EXPVALS_
specifies a list that contains the values of the expanded rows only.

EXPVAR_
specifies the name of the expanded variable.

GRFHT_
contains the value of the graph height option.

GRFSRC_
specifies the graph source that is selected by the user, where 1 is a 3-D clickable graph and 2 is a standard GIF graph.

GRFWID_
contains the value of the graph width option.

GRLOC_
specifies the graph location that is selected by the user, where 1=bottom, 2=top, 3=left, and 4=right.

GRPHTYPE_
specifies the graph type selected by the user. Valid types include: BLOCK=block chart, HBAR=horizontal bar chart, PIE=pie chart, PLOT=plot, and VBAR=vertical bar chart.

GRPHVALS_
specifies a list that contains the data points for the 3-D graph.

HIERL_
specifies the list of metabase hierarchies.

HMODEL_
specifies the four-level name of the HOLAP data model class. The default value is SASTOOL._DMDDB.HOLAP_M.CLASS.

HTMLFILE_
specifies the identifier of the output file for writing HTML.

IMGURL_
contains the URL for the images.

MDDB_
specifies the name of the selected MDDB.

METABASE_
specifies the name of the selected metabase.

ROTFLAG_
specifies a flag that indicates whether the user selected the **Rotate** button, where 1=**Rotate** button was selected and 2=**Rotate** button was not selected.

SESSIONID_
specifies the value for the _SESSIONID variable for the application server session.

SHOWTAB_
specifies a flag that indicates whether to display the table, where 1=yes, 2=no.

STATDESC_
specifies a list of all possible statistics labels.

STATLIST_
specifies a list of the available statistics from the metabase.

STATVARS_
specifies a list of the selected statistics.

SUBHT_
indicates the number of rows to display in the filter list boxes.

SUBLOC_
specifies the location of the filter list boxes, where 1=right, 2=left, 3=top, and 4=bottom.

SUBSET_BY_
specifies the list of selected filter values.

SUBSET_FLAG_
indicates whether filter values have been selected, where 1=filters have been selected and 0=filters have not been selected.

SUBVARS_
specifies the list of selected filter variables.

SUBWID_
contains the maximum width (in characters) of the filter list boxes.

TBLOC_
specifies the location of the filter toolbar, where 1=top, 2=bottom, 3=left, 4=right, and 5=do not display a toolbar.

THISSESSION_
specifies the value for the _THISSESSION variable for the application server session.

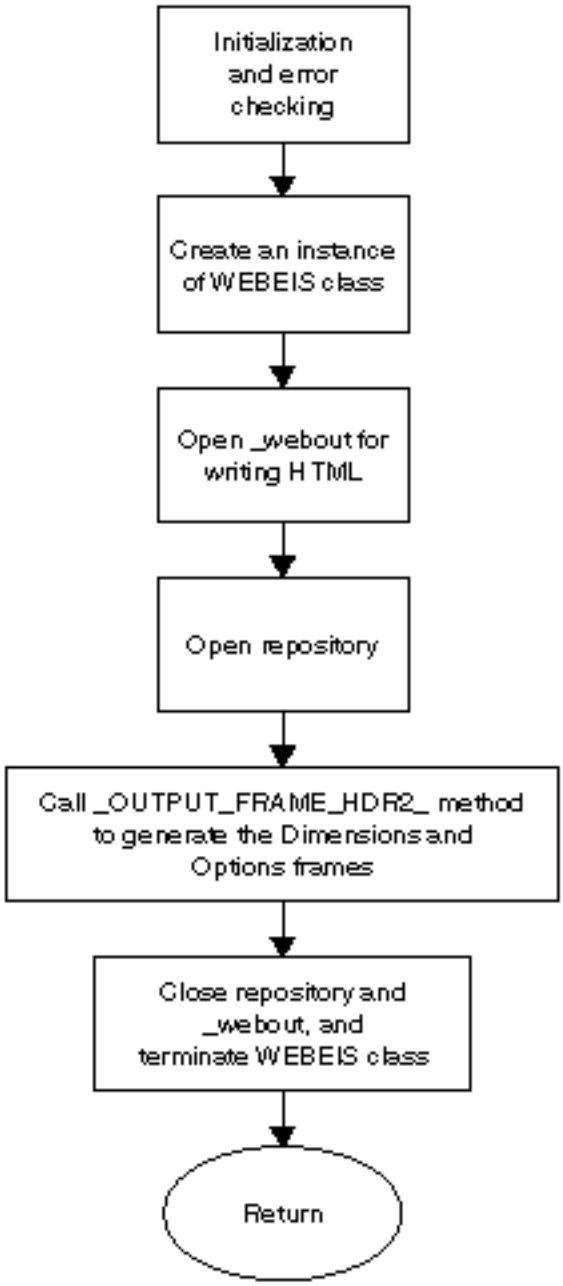
USEHOLAP_
indicates whether a HOLAP metabase registration is being used, where 1=HOLAP metabase registration is being used and 0=HOLAP metabase registration is not being used.

VMDOFF_
specifies a flag that indicates whether metadata verification checking is done on the data model, where any nonblank character=do not perform metadata checking and a blank=perform metadata checking.

Flow of Control in the MDDB Report Viewer Class

The following figures illustrate the flow of control in the MDDB Report Viewer WEBEIS class. For more information about the methods listed in these figures, refer to the individual method descriptions.

Figure 1. Flow of Control for the Layout Page



This generates the <FRAMESET> tag for the Dimensions and Options pages, as well as the <FRAME> tags for the toolbar and layout frames.

Figure 2. Flow of Control for the Dimensions Page

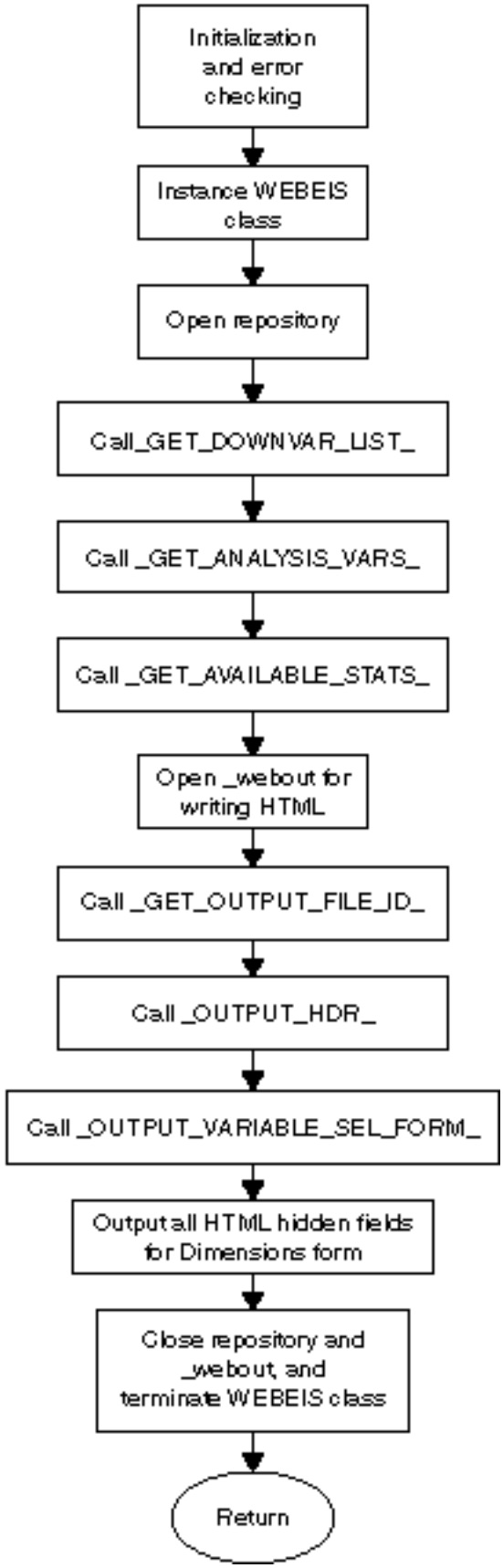


Figure 3. Flow of Control for the Layout Toolbar

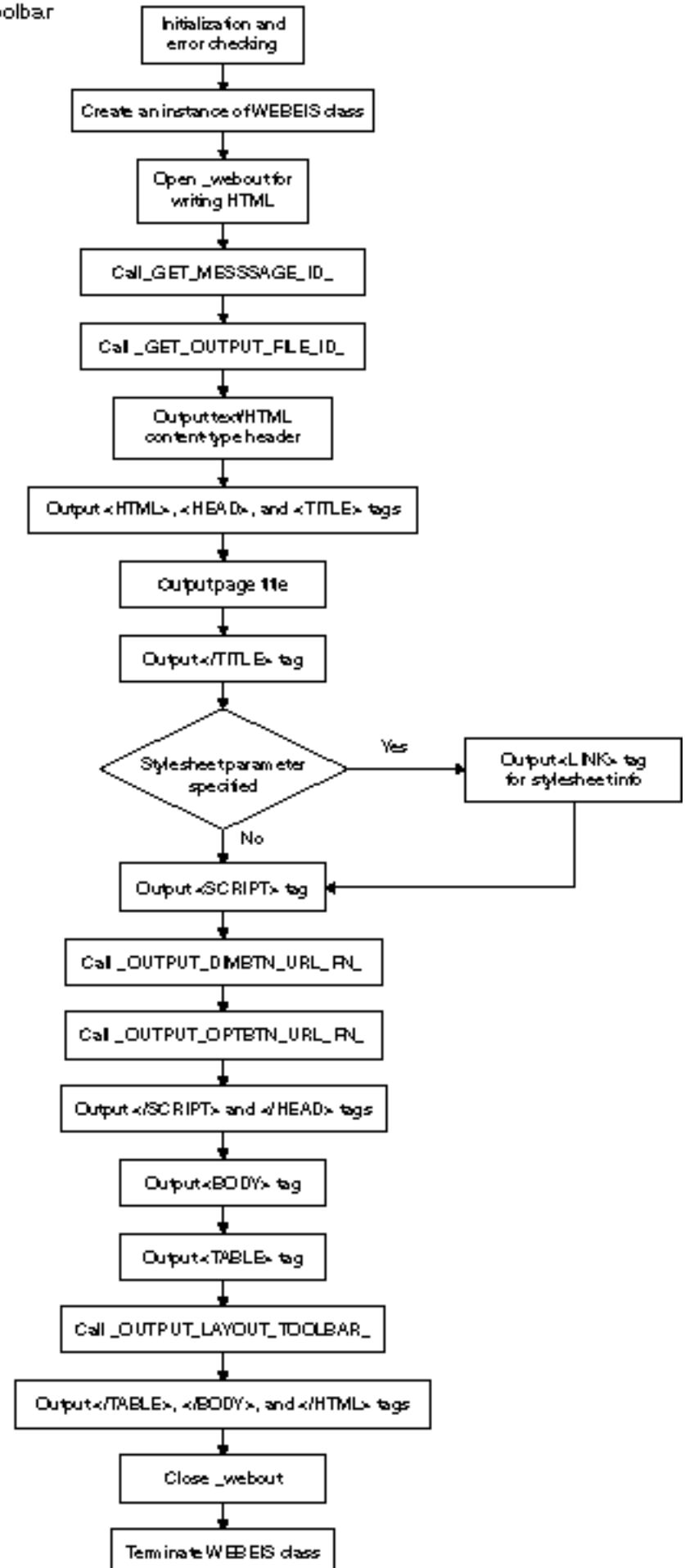
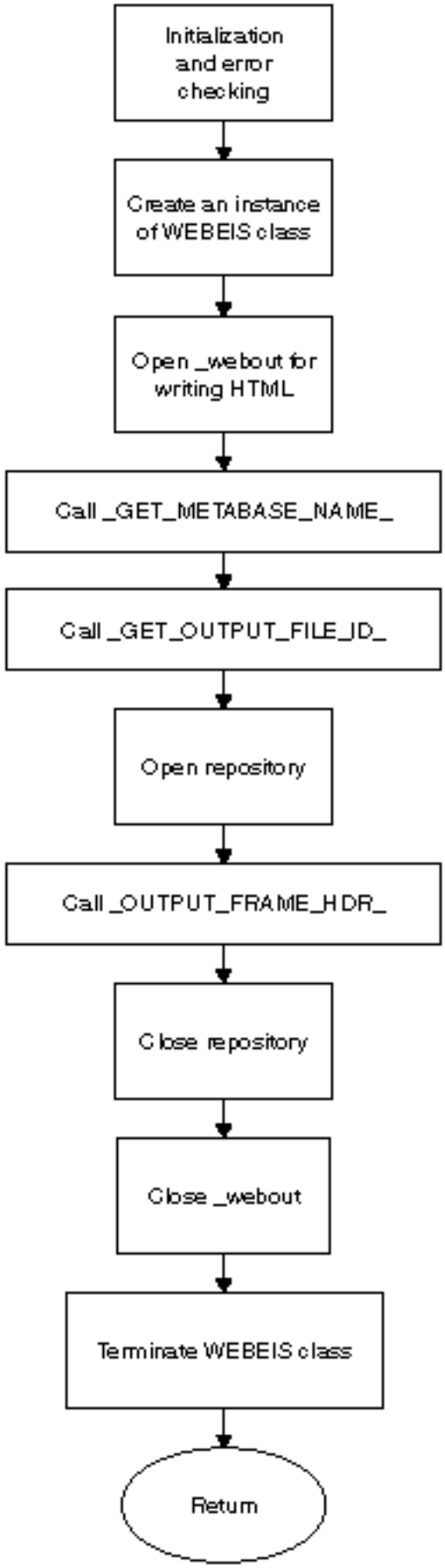


Figure 4. Flow of Control for the the Report Page



This generates the <FRAMESET> for the Report page, as well as

Figure 5. Flow of Control for the the Report Page (part 1)

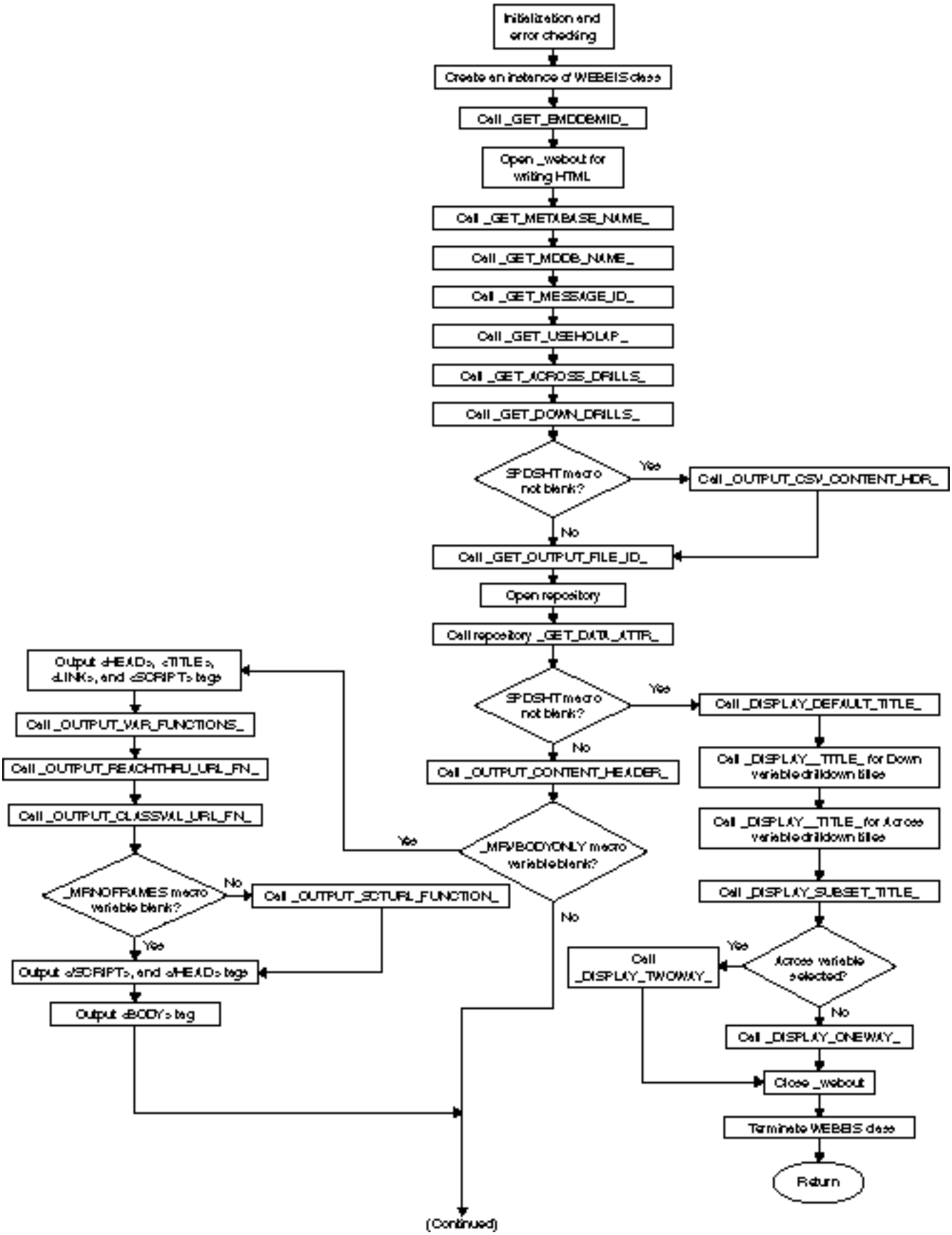


Figure 5. Flow of Control for the the Report Page (part 2)

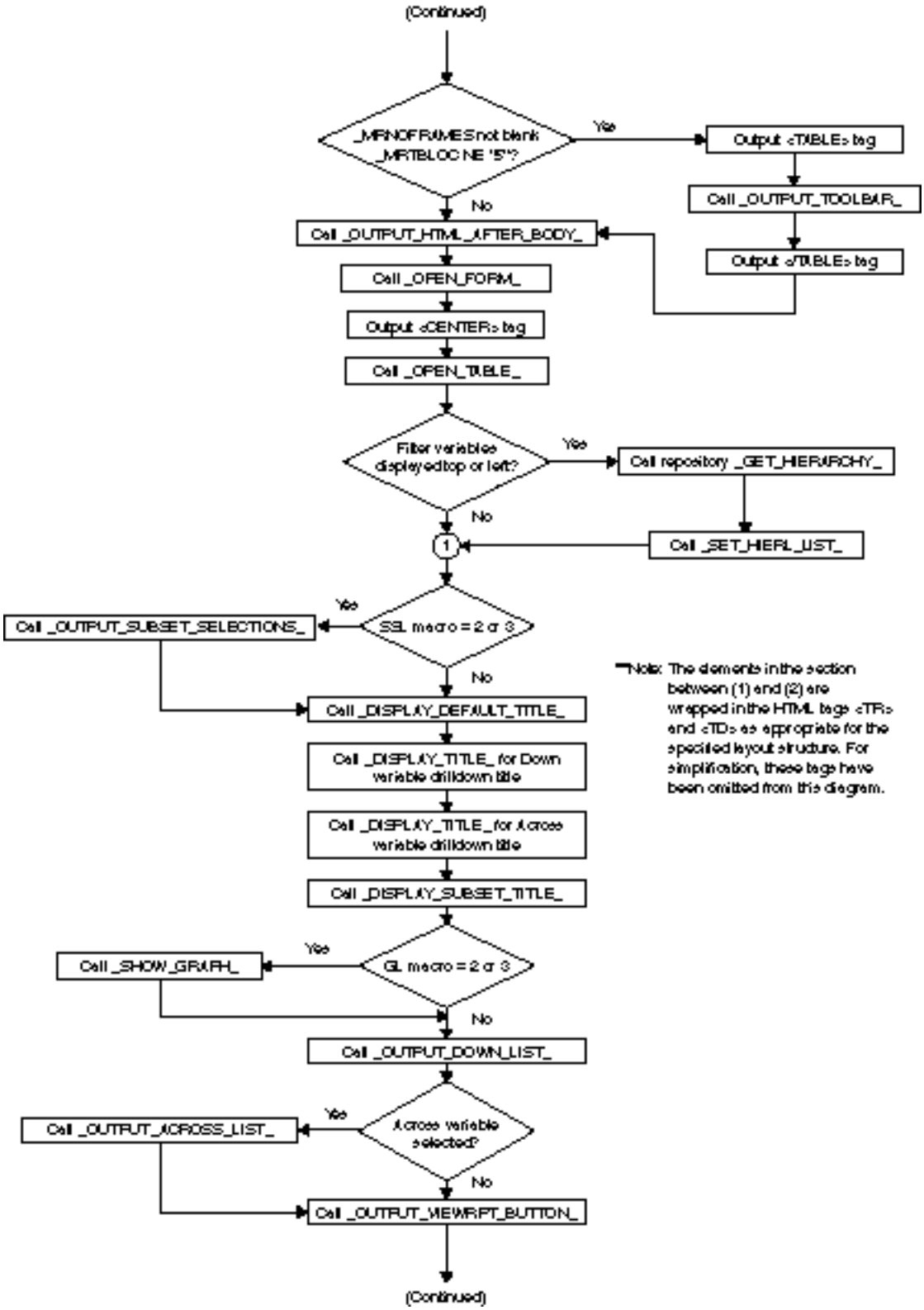


Figure 5. Flow of Control for the the Report Page (part 3)

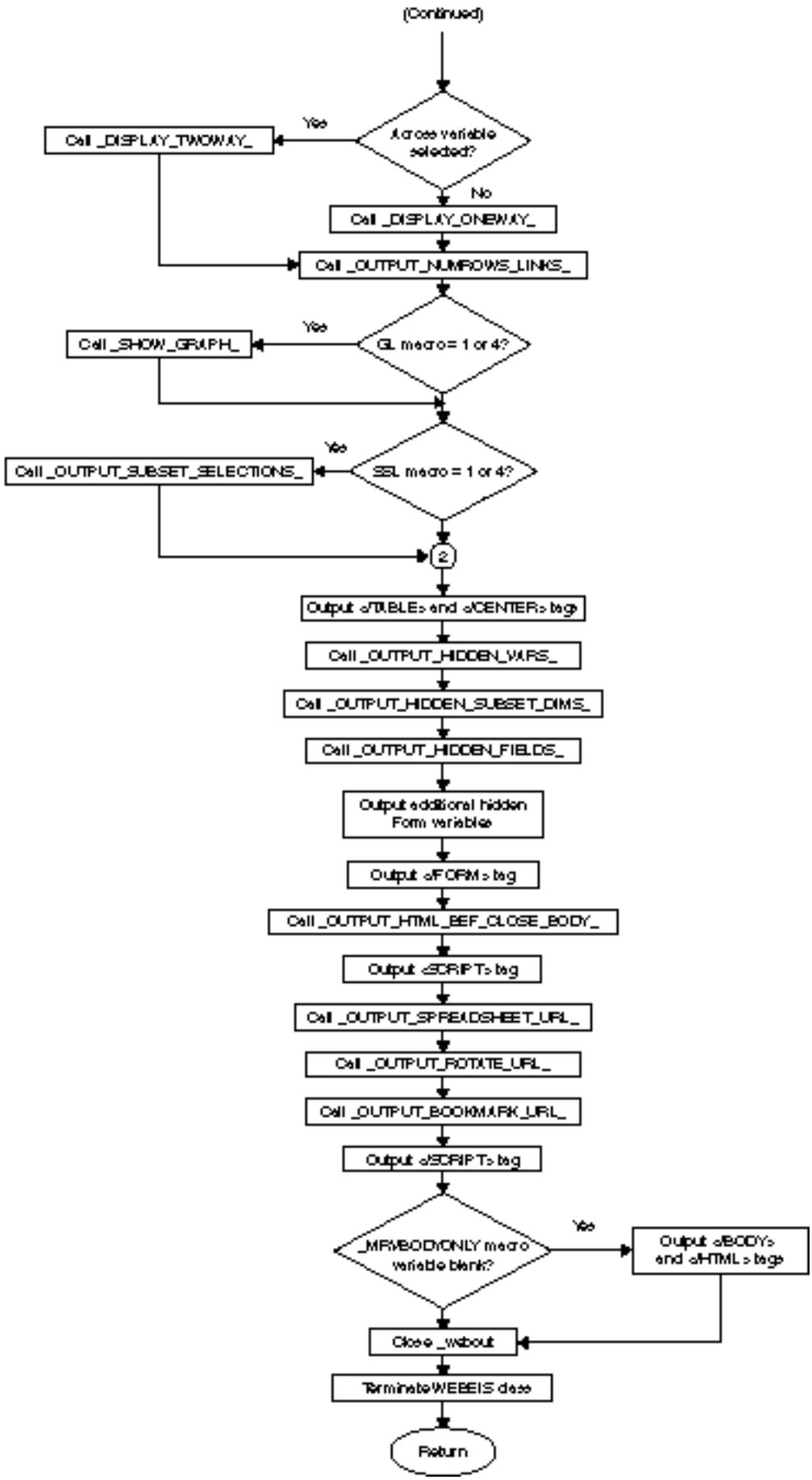


Figure 6. Flow of Control for the the Report Page Toolbar (part 1)

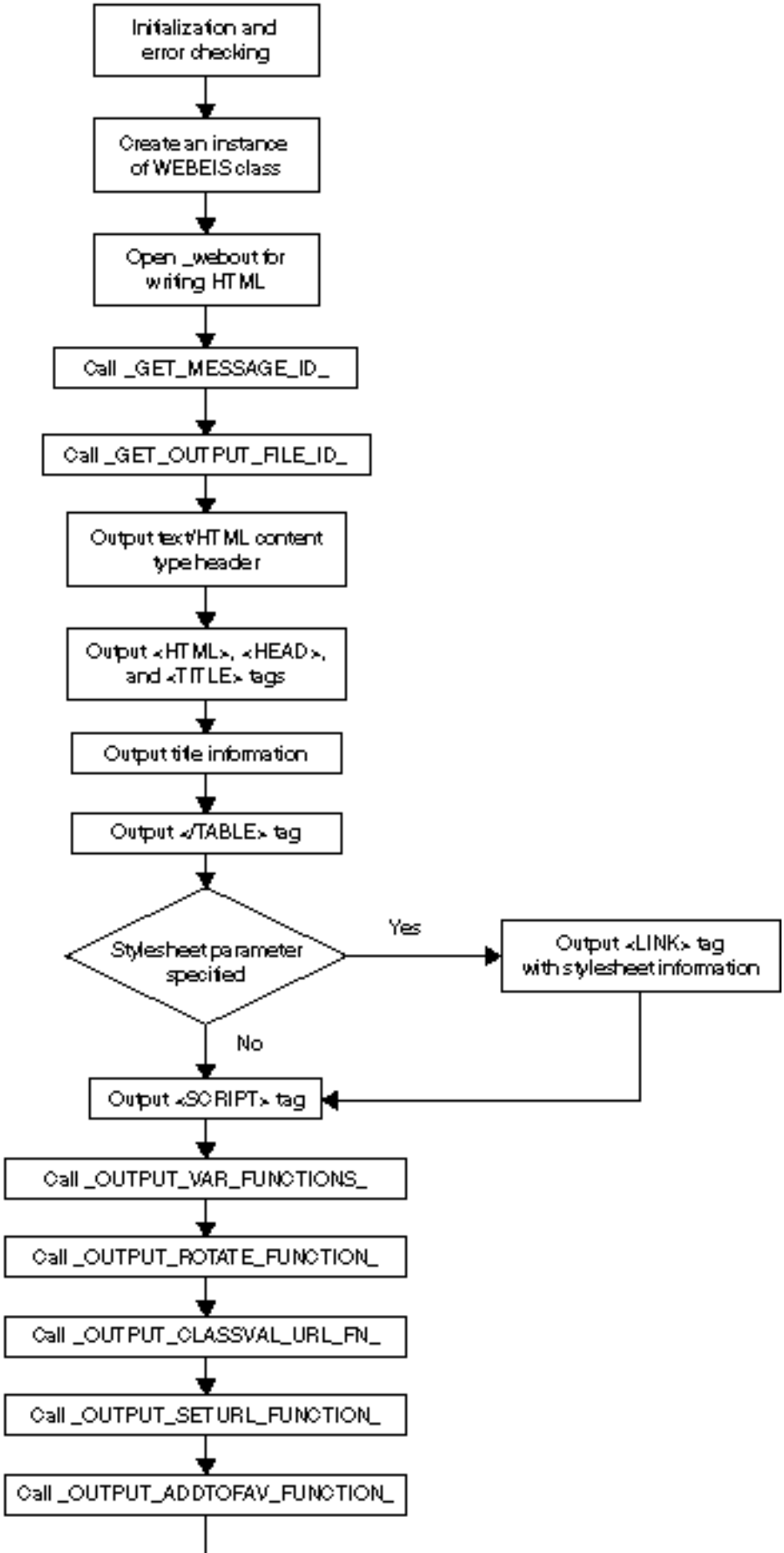
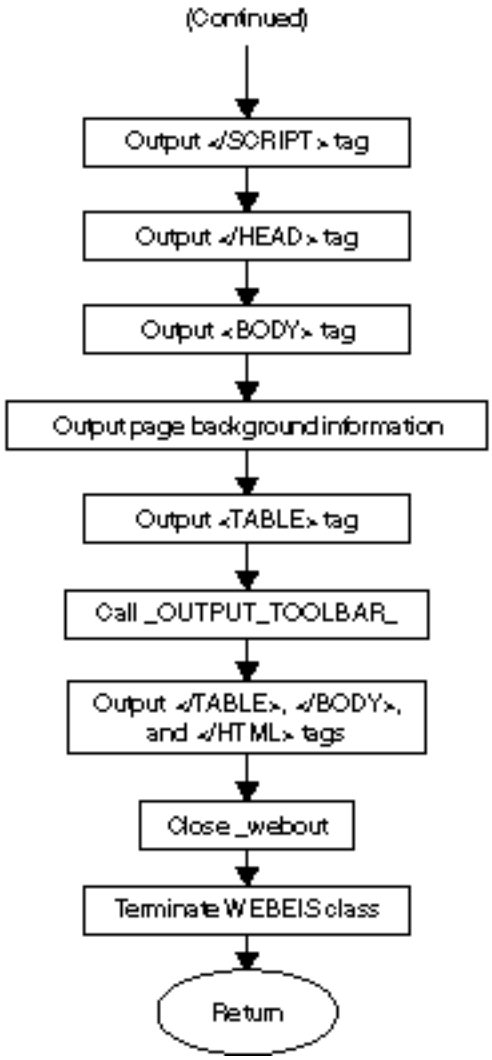


Figure 6. Flow of Control for the the Report Page Toolbar (part 2)



MDDB Report Viewer Variables

The MDDB Report Viewer uses macro variables that are set by users and passed into the viewer when the application executes. Table 4.1 on page 31 lists and describes the macro variables.

The MDDB Report Viewer also uses global variables that you can set in the REQUEST INIT program that is used by your application server. Table 4.2 on page 34 lists and describes these variables. For more information about the REQUEST INIT program, see PROC APPSRV, REQUEST Statement syntax.

Table 4.1 *MDDB Report Viewer Macro Variables*

Variable Name	Description	Details
MDDB	Selected MDDB	Selected MDDB (for example, SASHELP.PRDMDDB)
METABASE	Selected metabase	Selected metabase (for example, SASHELP.MBEIS)
SR	First row to display in the table	
NR	Number of rows to display in the table	
D	Down	Hierarchies and category variables. Do not create variable names that contain an embedded percent sign (%) if the percent sign precedes the following characters: 0 through 9, a through f, and A through F. Names that contain these character combinations could be misinterpreted due to encoding and decoding issues. For example, a variable name of Product%20Line could be incorrectly interpreted as Product Line because %20 is the encoding sequence for a blank space.

Variable Name	Description	Details
AC	Across	Hierarchies and category variables. Do not create variable names that contain an embedded percent sign (%) if the percent sign precedes the following characters: 0 through 9, a through f, and A through F. Names that contain these character combinations could be misinterpreted due to encoding and decoding issues. For example, a variable name of Product%20Line could be incorrectly interpreted as Product Line because %20 is the encoding sequence for a blank space.
A	Analysis variable	Analysis variable. This macro variable is deprecated.
S	Statistic	Globally applied statistic. This macro variable is deprecated.
A*m*	Analysis variable	Analysis variable, where *m* designates the particular variable.
A*m*S*n*	Statistic	Statistic that is applied only to the analysis variable specified by A*m*. *n* designates the particular statistic. For example, A1S1 and A1S2 designate statistics that are applied only to the A1 analysis variable.
SV	Filter variables	Category variables to filter by
SL	Filter variable values	Values to filter by (for example, SL=COUNTRY:CANADA)
EX	Expand values	For example, EX=COUNTRY=CANADA
V	Down dimension drill-down values	For example, V=YEAR=1995

Variable Name	Description	Details
VA	Across dimension drill-down values	For example, VA=PRODTYPE= FURNITURE
ST	Display table	1=yes, 2=no
DT	Default title	Max length=200
DP	Show drill-path in title	1=yes, 2=no
DC	Show down totals	1=yes
ACB	Show across totals	1=yes
GSC	Graph source	1=3-D clickable graph, 2=standard GIF graph (SAS/GRAPH software)
GL	Graph location	1=bottom, 2=top, 3=left, 4=right
GRT	Graph type	BLOCK, HBAR, PIE, PLOT, VBAR
BS	Graph bar shapes	STAR, HEXAGON, PRISM, CYLINDER
SPDSHT	Download to Spreadsheet flag	
GW	Graph width	Default=600, max length=4
GH	Graph height	Default=450, max length=4
SSL	Filter list box location	1=right, 2=left, 3=top, 4=bottom
SW	Filter list box width	Default=15
SH	Filter list box height	Default=3
VIEW	**View Report** button	Value=view report
GD	Graph down variable	Category variable for graphing
GA	Graph across variable	Across variable for filtering graph values
GG	Graph group variable	Graph group-by variable, second innermost down variable

Variable Name	Description	Details
GSG	Graph subgroup variable	Graph subgroup-by variable, third innermost down variable
SD	Down variable	Same as D, needed for Filter FORM
SAC	Across variable	Same as AC, needed for Filter FORM
CLASS	WEBEIS class name	For subclassing, default is SASHELP.WEBEIS.WEBEIS.CLASS
CSS	Style sheet URL	Applies to Variable Selection and Report pages
CSST	Toolbar style sheet URL	Applies to toolbar frame; if not specified, uses CSS value
BG	Background color or image	Color name, hexadecimal value, or image URL
BGTYPE	Background type	COLOR, IMAGE

Table 4.2 *MDDB Report Viewer Global Variables*

Variable Name	Description	Details
VMDOFF	Turn VERIFYMD checking off	Any nonblank character turns it off; the default is on
_GRFONT		SWISSB is the default; use SAS font names
_MRVHELP	URL of Help file	The default is the Hints and Tips page
_MRTBLOC	Toolbar location	1=top, 2=bottom, 3=left, 4=right, and 5=none; the default is top
_MRVSEP	Download to spreadsheet delimiter	A comma is the default
_MRVTBSC	Toolbar frame scrolling	NO or blank indicates no scrolling; YES adds a scroll bar to frame
_MRVTBSZ	Toolbar size in pixels	A character string of the form (horizontal, vertical); the default is (50, 125)

Variable Name	Description	Details
_MRNODIMBOXES	Turns off the down and across list boxes and the **View Report** button on display	A nonblank value turns this off; the default is on
_MRNOFRAMES	Indicates whether to use HTML frames in the output	A nonblank value turns this off; the default is on
_MRNOVARCHECK	Turns off the down and across variable selection error checking	A nonblank value turns this off; the default is on
_MRBODYONLY	Nonblank	Outputs the HTML between the <BODY> and </BODY> tags on the Layout and the Report pages
_MRVFRAMESET	Enables you to specify a custom <FRAMESET> tag on the Report page	
_MRVNOPGOP	Nonblank	Turns off the paging feature
_MRVRNDX1	Value for the radio button that represents the first number of rows	The default is All
_MRVRNDX2	Value for the radio button that represents the second number of rows	The default is 25
_MRVRNDX3	Value for the radio button that represents the third number of rows	The default is 50
_MRVRNDX4	Value for the radio button that represents the fourth number of rows	The default is 100
_MRVNRLKS	Minimum number of paging lines to display beneath the report table	The default is 5
_MRNOSORT	Turns off the sorting feature	A nonblank value turns this off; the default is on
_MRTBLPRM	Sets report <TABLE> tag parameters	For example, "CELLPADDING=4 CELLSPACING=2 BORDER=3"

MDDB Report Viewer Cascading Style Sheets

The MDDB Report Viewer's cascading style sheet (CSS) properties enable you to customize the viewer output. You can use cascading style sheets to modify background colors, fonts, and the size and location of the HTML elements and to indicate whether the HTML elements are displayed. For more information about style sheet capabilities, consult your favorite HTML reference guide.

HTML elements use the CLASS parameter to surface style sheet properties. Table 4.3 on page 36 lists the CLASS definitions that are used by the MDDB Report Viewer. An example style sheet is shipped with the viewer, and you can create your own to use as well. To apply a style sheet to the viewer output, specify the CSS parameter as a hidden field on your initial HTML page. For example,

```
<INPUT TYPE="hidden" NAME="CSS" VALUE="http://myserver/mystyle.css">
```

You can also add the CSS parameter to the URL of bookmarked reports, as in the following (note the URL encoding):

```
&CSS=http%3A//myserver/mystyle.css
```

An additional CSST parameter is provided so that you can apply a separate style sheet to the toolbar frame. If you do not specify the CSST parameter, the toolbar frame uses the value that is specified by the CSS parameter.

Table 4.3 *MDDB Report Viewer CSS Class Tags*

Class Name	Description
MAINTAB	Main report table
ROWLAB	Row label cells
TROWLAB	Total row label cell
STROWLAB	Total row label cell for expanded row (for example, "subtotals")
TROWCELL	Total row data cells
TDCELL	All other data cells
TCOLLAB	Total column label cell
STCOLLAB	Total column label cell for nested totals
TCOLCELL	Total column data cells
COLLAB	Column label cells
EMPTY	Empty cell in upper left corner
FILTERBOX	Table containing filter list boxes

Class Name	Description
DIMBOX	Table containing dimension selector list boxes
DIMSELBOX	Table containing dimension selector list boxes (Report Layout page)
ANALYBOX	List box for selecting analysis variable (Report Layout page)
ANALYSIS	Class for the <DIV> tag for the analysis variable list box
STATSBOX	List box for selecting statistic (Report Layout page)
STATS	Class for the <DIV> tag for the statistics list box
ANALYCOL	Analysis variable column
STATSCOL	Statistics column
GRAPH	Class for the <IMG> tag for standard GIF graph
GRAPHAPP	Class for the graph application tag
TOOLTAB	Class for the toolbar
IMGBKMRK	Class for the <IMG> tag for Bookmark
IMGDIM	Class for the <IMG> tag for Dimensions
IMGOPT	Class for the <IMG> tag for Options
IMGHELP	Class for the <IMG> tag for Help
IMGLAY	Class for the <IMG> tag for Layout
IMGLOGOUT	Class for the <IMG> tag for Logout
IMGROTATE	Class for the <IMG> tag for Rotate
HEADER	Report Layout HTML headers
LABEL	Report Layout HTML labels
SELECT	Report Layout HTML for <SELECT> and <INPUT> tags
SSELECT	Class for statistics selection list boxes
SUBMIT	**Submit** (**View Report**) button class

Dictionary

_BUILD_ACROSSL_LIST_ Method

Builds the across list (variables in the across dimension) on the application list

Syntax

CALL SEND(OBJID,'_BUILD_ACROSSL_LIST_',*application-list*,*across-variable*);

Required Arguments

application-list

the list ID of the application list. For more information about application lists, see the online Help for SAS/EIS software.

Type: Numeric

across-variable

the variable that is selected for the across dimension (optional and no longer used).

Type: Character

Details

This method

- clears the across sublist on the application list
- adds the selected across variables to the across sublist.

Example

```
acrosvar='Product Line';
rc=insertc(acrvars_,acrosvar,-1);
applist=makelist();
rc=fillist('CATALOG','SASHELP.EISRG.ONEWAY.EIS',applist);
call send(webid,'_BUILD_ACROSSL_LIST_',applist);
```

The following sublist is added to the application list:

```
Across:( PRODUCT LINE= ( HIERARCH= 'Product Line'
                                    )[1081]
                    )[989]
```

_BUILD_ANALYSIS_LIST_ Method

Builds the analysis sublist on the application list

Syntax

CALL SEND(OBJID,'_BUILD_ANALYSIS_LIST_',*application-list*);

Required Argument

application-list
the list ID of the application list. For more information about application lists, see the online Help for SAS/EIS software.

Type: Numeric

Details

This method

- clears the analysis sublist on the application list
- adds the selected analysis variables to the analysis sublist.

Example

```
applist= makelist();
rc= fillist('CATALOG','SASHELP.EISRG.ONEWAY.EIS',applist);
call send(webid,'_BUILD_ANALYSIS_LIST_',applist);
```

The following sublist is added to the application list:

```
Analysis:( ACTUAL= ()[1083]
                      )[985]
```

_BUILD_ANLSORTORDER_ Method

Updates the ANLSORTORDER sublist on the application list that is used to specify an analysis/statistic column sort

Syntax

CALL SEND(OBJID,'_BUILD_ANLSORTORDER_',*application-list*);

Required Argument

application-list
the list ID of the application list. For more information about application lists, see the online Help for SAS/EIS software.

Type: Numeric

Example

```
applist= makelist();
rc=fillist('CATALOG','SASHELP.EISRG.ONEWAY.EIS',applist);
call send(webid,'_BUILD_ANLSORTORDER_',applist);
```

_BUILD_APPLICATION_LIST_ Method

Builds the application list for the data model

Syntax

CALL SEND(OBJID,'_BUILD_APPLICATION_LIST_',*application-list*,*metabase-id*, *catalog-entry*,*down-variable*,*across-variable*);

Required Arguments

application-list
the list ID of the application list.

Type: Numeric

metabase-id
the ID number of the metabase.

Type: Numeric

catalog-entry
the catalog entry of the Report Gallery template.

Type: Character

down-variable
the variable that is selected for the down dimension (optional). (This parameter is included for compatibility with previous releases of this application.)

Type: Character

across-variable
the variable that is selected for the across dimension (optional). (This parameter is included for compatibility with previous releases of this application.)

Type: Character

Details

This method

- copies the Report Gallery Template application list
- changes the table name on the application list to the selected MDDB
- replaces the metabase name on the application list with the selected metabase
- calls _BUILD_DOWNL_LIST to add the selected down variables to the application list
- calls _BUILD_ACROSSL_LIST to add the selected across variables to the application list (if necessary)
- calls _BUILD_ANALYSIS_LIST to add the selected analysis variables to the application list
- calls _BUILD_STATS_LIST to add the selected statistics to the application list
- calls _CLEAR_POPUP_ to clear the unneeded popup_l sublist on the application list
- calls _BUILD_TOTAL_ to turn report totals on for the down variables

- calls _BUILD_TOTAL_ to turn report totals on for the across variables (if necessary).

For more information about the structure of application lists, see the online Help for SAS/EIS software.

Example

```
applist= makelist();
mbid= instance(loadclass('SASHELP.MB.METABASE.CLASS'));
centry= 'SASHELP.EISRG.ONEWAY.EIS';
downvar= 'Geographic';
rc=insertc(downvars_, downvar, -1);
acrosvar= 'Year';
rc=insertc(acrvars_, acrosvar, -1);
call send(webid,'_BUILD_APPLICATION_LIST_',applist,mbid,centry);
```

_BUILD_CURRENT_SUBSETS_ Method

Updates the saved_l sublist on the application list to define the specified filters

Syntax

CALL SEND(OBJID,'_BUILD_CURRENT_SUBSETS_',*application-list*,*metabase-id*);

Required Arguments

application-list
the list ID of the application list. For more information about application lists, see the online Help for SAS/EIS software.

Type: Numeric

metabase-id
the ID number of the metabase.

Type: Numeric

Details

This method

- builds the HIERARCHIES_L sublist on the SAVED_L list if it is empty
- builds the CURRENT_SUBSETS and CURRENT_DRILLS lists on the HIERARCHIES_L sublist if it is empty
- updates the CURRENT_SUBSETS lists for each hierarchy and class variable with the current filter information.

Example

```
applist= makelist();
rc=fillist('CATALOG','SASHELP.EISRG.ONEWAY.EIS',applist);
mbid=instance(loadclass('SASHELP.MB.METABASE.CLASS'));
call send(webid,'_BUILD_CURRENT_SUBSETS_',applist,mbid);
```

_BUILD_DOWNL_LIST_ Method

Builds the DOWNL sublist on the application list

Syntax

CALL SEND(OBJID,'_BUILD_DOWNL_LIST_',*application-list*,*down-variable*);

Required Arguments

application-list
the list ID of the application list. For more information about application lists, see the online Help for SAS/EIS software.

Type: Numeric

down-variable
the selected down variable. (This optional parameter is included for compatibility with previous releases of the MDDB Report Viewer.)

Type: Character

Details

This method

- clears the down sublist on the application list
- adds the selected down variable to the down sublist.

Example

```
applist= makelist();
rc= fillist('CATALOG','SASHELP.EISRG.ONEWAY.EIS',applist);
downvar= 'Geographic';
rc=insertc(downvars_,downvar, -1);
call send(webid,'_BUILD_DOWNL_LIST_',applist);
```

The following sublist is added to the application list:

```
downl: ( GEOGRAPHIC= ( HIERARCH= 'Geographic'
                                 )[2453]
                     )[2367]
```

_BUILD_STATSL_LIST_ Method

Builds the STATSL_ sublist on the application list

Syntax

CALL SEND(OBJID,'_BUILD_STATSL_LIST_',*application-list*);

Required Argument

application-list
the list ID of the application list. For more information about application lists, see the online Help for SAS/EIS software.

Type: Numeric

Details

This method

- clears the statistics sublist on the application list
- adds the selected statistics to the statistics sublist.

Example

```
applist= makelist();
rc= fillist('CATALOG','SASHELP.EISRG.ONEWAY.EIS',applist);
call send(webid,'_BUILD_STATSL_LIST_',applist);
```

The following sublist is added to the application list:

```
statsl: ( SUM= 'SUM'
                      )[2445]
```

_BUILD_TOTAL_ Method

Builds the TOTALS sublist on the application list to turn report totals on

Syntax

CALL SEND(OBJID,'_BUILD_TOTAL_',*application-list*,*metabase-id*,*total-variable*);

Required Arguments

application-list
the list ID of the application list. For more information about application lists, see the online Help for SAS/EIS software.

Type: Numeric

metabase-id
the ID number of the metabase.

Type: Numeric

total-variable
the variable that is selected from the down or across dimension.

Type: Character

Example

```
applist= makelist();
rc=fillist('CATALOG','SASHELP.EISRG.ONEWAY.EIS',applist);
mbid=instance(loadclass('SASHELP.MB.METABASE.CLASS'));
```

```
downvar='COUNTRY';
call send(webid,'_BUILD_TOTAL_',applist,mbid,downvar);
```

The following sublist is added to the application list:

```
TOTALS: ( DSNAME= 'SASHELP.PRDMDDB'
          MBNAME= 'SASHELP.MBEIS'
          SEL_EXCL= 'CATEGORY'
          MB_AVAIL= 1
          CUSTOM= ( COUNTRY= ( TOTALON= 1
                               LABEL= 'TOTAL'
                               FONT= ()[1095]
                              )[1093]
                  )[1063]
          )[1061]
```

_BUILD_URL_ONSUBMIT_ Method

Outputs the geturl JavaScript function on the Dimensions page

Syntax

CALL SEND(OBJID,'_BUILD_URL_ONSUBMIT_',*url*);

Required Argument

url

the Application Broker component of the URL.

Type: Character

Details

This function runs when the **View Report** button is pressed. It builds the URL for the report request.

Example

Sample output:

```
function geturl(down,across,analysis) {
D0=0; A0=0; AC0=0; var href="../mddbapp.hlp/"; var stats="";
   param=new Object;
   param._SERVICE = "default";
   param._PROGRAM = "sashelp.webeis.showrpt.scl";
   param._DEBUG = "2";
   param.MDDB = "SASHELP.PRDMDDB";
   param.METABASE = "SASHELP";
   param.CSS="http%3A%2F%2Flocalhost%2Fcss%2Fmrv.css";
   param.GRT="NONE";
   param.DC="1";
   param.ACB="1";
   param.ST="1";

href = "/cgi-bin/broker.exe?";
```

```
   for (name in param) { href += name + "=" + param[name] + "&" }

href2="";

for (i=0; i<down.options.length; i++) {
   if (down.options[i].selected) {
      D0=eval(D0+1);
      href2+="&D" +D0 +"=" +down.options[i].value;
      if (eval(D0)==1) {
         href2+="&D" +"=" +down.options[i].value;
      }
   }
}
href+="D0=" +D0 +href2;

href2="";
for (i=0; i<across.options.length; i++) {
   if (across.options[i].selected && across.options[i].value!="") {
      AC0=eval(AC0+1);
      href2+="&AC" +AC0 +"=" +across.options[i].value;
      if (eval(AC0)==1) {
         href2+="&AC" +"=" +across.options[i].value;
      }
   }
}
href+="&AC0=" +AC0 +href2;

href2="";
for (i=0; i<analysis.options.length; i++) {
   if (analysis.options[i].selected) {
      A0=eval(A0+1);
      href2+="&A" +A0 +"=" +analysis.options[i].value;
      if (eval(A0)==1) {
         href2+="&A" +"=" +analysis.options[i].value;
      }
      stats=analysis.options[i].value+"STATS";
      statsarray=eval(stats);
      if (statsarray.length==1 && statsarray[0]=="nunique") {
         href2+="&A" +A0 +"S" +"=" +"NUNIQUE";
      }
      else if (statsarray.length==1 && statsarray[0]!="nunique") {
         href2+="&A" +A0 +"S" +"=" +"SUM";
      }
      else {
         if (statsarray.length == 2) {
            href2+="&A" + A0 + "S=" + statsarray[1];
         }
         else {
            for (j=1; j<statsarray.length; j++)
               href2+="&A" +A0 +"S" +j +"=" +statsarray[j];
            }
      }
   }
}
href+="&A0=" +A0 +href2;
```

```
return href;
}
```

_BUILD_WHERE_FORMAT_STRING_ Method

Builds a portion of the WHERE clause that provides the reach-through to detail data, including the variable format

Syntax

CALL SEND(OBJID,'_BUILD_WHERE_FORMAT_STRING_',*metabase-id*,*variable-name*, *in-data-value*,*out-data-value*);

Required Arguments

metabase-id
the ID number of the metabase.

Type: Numeric

variable-name
the name of the variable in the metabase.

Type: Character

in-data-value
the unformatted data value.

Type: Character

out-data-value
the string to add to the reach-through WHERE clause.

Type: Character

Example

```
mbid=instance (loadclass('SASHELP.MB.METABASE.CLASS'));
myvar='MONTH';
myvalue='Jan';
fmtval=' ';
call send (webid,'_BUILD_WHERE_FORMAT_STRING_', mbid,myvar,myvalue,fmtval);
```

The following output is produced:

```
fmtval=put(MONTH,$MONTH.)='Jan'
```

_CHECK_HIER_MEMBER_ Method

Checks to make sure that one dimension variable (*member-var*) is not a member of the hierarchy chosen for the other dimension variable (*hierarchy-var*)

Syntax

CALL SEND(OBJID,'_CHECK_HIER_MEMBER_',*metabase-id*,*error-flag*, *hierarchy-var*, *member-var*,*message*);

Required Arguments

metabase-id
the ID number of the metabase.

Type: Numeric

error-flag
an error flag, where 0=no error, and 1=error.

Type: Numeric

hierarchy-var
the hierarchy variable.

Type: Character

member-var
the member variable.

Type: Character

message
the error message to display.

Type: Character

Details

This method ensures that the variables users select to create a report are valid. For example, specifying **DOWN=COUNTRY**, **ACROSS=GEOGRAPHIC** produces an error if country is a member of the geographic hierarchy.

Example

```
mbid=instance(loadclass('SASHELP.MB.METABASE.CLASS'));
downvar='Geographic';
acrosvar='COUNTRY';
call send(webid,'_CHECK_HIER_MEMBER_',mbid,varerr,downvar,acrosvar,msg);
```

_CLOSE_FORM_ Method

Outputs the closing variable selection form tags

Syntax

CALL SEND(OBJID,'_CLOSE_FORM_',*initial-url*,*service-name*, *metabase-name*, *background-type*,*background-value*, *title*,*webeis-class*);

Required Arguments

initial-url
the URL of the initial HTML page.

Type: Character

service-name
the Application Broker service value.

Type: Character

metabase-name
the metabase name.

Type: Character

background-type
an optional background type (IMAGE or COLOR).

Type: Character

background-value
an optional background value.

Type: Character

title
the HTML page title.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

Details

This method outputs

- the </FORM> tag
- the link back to the initial HTML page.

Example

```
mddblink= "http://www.test.com/mddbpage.html';
service= 'default';
metabase= 'SASHELP.MBEIS';
bgtype= 'COLOR';
bg= 'YELLOW';
title= 'Third Quarter Sales Reports';
webcls= 'SASHELP.WEBCAT.MYWEB.CLASS';
call send(webid,'_CLOSE_FORM_',mddblink,service,metabase,
          bgtype,bg,title,webcls);
```

The following output is produced:

```
</TD></TR>
</FORM>
</TD></TR>
<TR><TD>><HR><A HREF="http://www.test.com/mddbpage.html">Select New
File</A></TD></TR>
```

_CLOSE_PAGE_ Method

Outputs the </TABLE>, </BODY>, and </HTML> tags

Syntax

CALL SEND(OBJID,'_CLOSE_PAGE_');

Example

The following output is produced:

```
</TABLE>
</BODY>
</HTML>
```

_CLOSE_STATIC_FORM_ Method

Outputs the **Next** button and the closing </TABLE>, </FORM>, </BODY>, and </HTML> tags for the initial HTML page

Syntax

CALL SEND(OBJID,'_CLOSE_STATIC_FORM_');

Example

The following output is produced:

```
<TR><TD> </TR></TD>
<TR><TD colspan=2 align=center>
<INPUT TYPE= "submit" VALUE= "Next">
</TABLE>
</FORM>
</BODY>
</HTML>
```

_CREATE_STAT_ARRAYS_ Method

Outputs the stats JavaScript function and the associated statistics JavaScript arrays on the Dimensions page

Syntax

CALL SEND(OBJID,'_CREATE_STAT_ARRAYS_');

Details

This function updates the list of displayed available and selected statistics based on the selected analysis variable.

Example

The following output is produced:

```
var ACTUALSTATS= new Array(
"analysis"
,"NMISS"
,"N"
,"SUM"
,"MIN"
,"MAX"
,"USS"
,"RANGE"
,"AVG"
,"CSS"
,"VAR"
,"STD"
,"STDERR"
,"CV"
,"T"
,"PRT"
,"LCLM"
,"UCLM"
,"PCTSUM"
,"PCTN"
);

var DIFFSTATS= new Array(
"computed"
,"MAX"
,"MIN"
,"PCTN"
,"PCTSUM"
,"SUM"
,"N"
);

var PREDICTSTATS= new Array(
"analysis"
,"NMISS"
,"N"
,"SUM"
,"MIN"
,"MAX"
,"USS"
,"RANGE"
,"AVG"
,"CSS"
,"VAR"
,"STD"
,"STDERR"
,"CV"
,"T"
,"PRT"
,"LCLM"
,"UCLM"
,"PCTSUM"
```

```
,"PCTN"
);

var SALESRATSTATS= new Array(
"computed"
,"MAX"
,"MIN"
,"PCTN"
,"PCTSUM"
,"SUM"
,"N"
);

var statslabellist = new Array();
statslabellist["SUM"]="Sum";
statslabellist["PCTSUM"]="Percent of Sum";
statslabellist["AVG"]="Average";
statslabellist["N"]="Total Number of Nonmissing Values";
statslabellist["PCTN"]="Percent of Total Number";
statslabellist["MIN"]="Minimum";
statslabellist["MAX"]="Maximum";
statslabellist["RANGE"]="Range";
statslabellist["NMISS"]="Total Number of Missing Values";
statslabellist["STD"]="Standard Deviation";
statslabellist["STDERR"]="Standard Error of Mean";
statslabellist["LCLM"]="Lower Confidence Limit";
statslabellist["UCLM"]="Upper Confidence Limit";
statslabellist["USS"]="Uncorrected Sum of Squares";
statslabellist["CSS"]="Corrected Sum of Squares";
statslabellist["VAR"]="Variance";
statslabellist["CV"]="Coefficient of Variation";
statslabellist["T"]="T Value";
statslabellist["PRT"]="Probability of Greater Absolute Value";
statslabellist["SUMWGT"]="Sum of Weights";
statslabellist["UWSUM"]="Unweighted Sum";
statslabellist["NUNIQUE"]="Nunique";
statslabellist["MIXED"]="*MIXED SELECTIONS";

analysisdesclist = new Array(
"SUM"
,"PCTSUM"
,"AVG"
,"N"
,"PCTN"
,"MIN"
,"MAX"
,"RANGE"
,"NMISS"
,"STD"
,"STDERR"
,"LCLM"
,"UCLM"
,"USS"
,"CSS"
,"VAR"
,"CV"
```

```
,"T"
,"PRT"
,"SUMWGT"
,"UWSUM"
);

computeddesclist = new Array(
"MAX"
,"MIN"
,"PCTN"
,"PCTSUM"
,"SUM"
,"N"
);

cnuniquedesclist = new Array(
"SUM"
);

nuniquedesclist = new Array(
"NUNIQUE"
);

var vararrayname = new Array();
num = 0;

//STATS
function stats(select,statbox) {
var vararrayname="";
var varstatsstring="";
var allstatsstring="";
for (i=0; i < select.options.length; i++) {
   if (select.options[i].selected) {
      vararrayname=select.options[i].value+"STATS";
      varstatsstring=eval(vararrayname).toString();
      if (num==1) {
         varstatsstring=eval(vararrayname)[0];
         for (j=0; j < statbox.length; j++) {
            if (statbox.options[j].text!="")
               varstatsstring+= "," +statbox.options[j].value;
         }
      }
      else {
         if (num>1) {
            allstatsarray=eval(vararrayname[0]+"desclist");
            allstatsstring=allstatsarray.toString();
            if (""!=statbox.options[j].text!="" && "*MIXED SELECTIONS"!=
               statbox.options[j].text &&
               -1==varstatsstring.indexOf(statbox.options[j].value) ){
               varstatsstring+= "," +statbox.options[j].value ;
            }
         }
      }
   temparray=varstatsstring.split(",");
   if ("ACTUALSTATS"==vararrayname) {
   ACTUALSTATS.length=temparray.length;
```

```
      for (k=0; k < temparray.length; k++)
      ACTUALSTATS[k]=temparray[k];
   }
   else if ("DIFFSTATS"==vararrayname) {
   DIFFSTATS.length=temparray.length;
      for (k=0; k < temparray.length; k++)
      DIFFSTATS[k]=temparray[k];
   }
   else if ("PREDICTSTATS"==vararrayname) {
   PREDICTSTATS.length=temparray.length;
      for (k=0; k < temparray.length; k++)
      PREDICTSTATS[k]=temparray[k];
   }
   else if ("SALESRATSTATS"==vararrayname) {
   SALESRATSTATS.length=temparray.length;
      for (k=0; k < temparray.length; k++)
      SALESRATSTATS[k]=temparray[k];
   }
}
}
}//STATS
```

_DISPLAY_ACROSS_CELLS_ Method

Displays the values for the across dimension

Syntax

CALL SEND(OBJID,'_DISPLAY_ACROSS_CELLS_',*column-list*,*actions-list*, *view-report-flag*, *analysis-variable*,*statistic-variable*, *across-variable*,*url*,*argument-string*,*argument-string2*, *initial-url*,*background-type*,*background-value*,*title*, *webeis-class*,*dlflag*,*service*);

Required Arguments

column-list
the column list from the EMDDB_M class.

Type: Numeric

actions-list
the actions sublist for drill down.

Type: Numeric

view-report-flag
the flag for the **View Report** button.

Type: Numeric

analysis-variable
the analysis variable to graph.

Type: Character

statistic
the statistic to graph.

Type: Character

across-variable
the analysis variable for graphing.

Type: Character

url
the Application Broker component of the URL.

Type: Character

argument-string
the argument string for the next query.

Type: Character

argument-string2
the argument string for the next query.

Type: Character

initial-url
the URL of the initial HTML page. (This parameter is obsolete. It is included in the METHOD statement so that overrides are not broken.)

Type: Character

background-type
the optional background type (IMAGE or COLOR).

Type: Character

background-value
the optional background value.

Type: Character

title
the HTML page title.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

dlflag
a flag that indicates whether to download the table to a spreadsheet, where 0=output HTML tags with data values, and 1=output data values with spreadsheet delimiters.

Type: Numeric

service
the service name.

Type: Character

Details

This method

- calls the _SET_ACTIVE_VALUE_ method of the EMDDB_M class
- calls the _SET_ACTION_STATUS_ method of the EMDDB_M class
- outputs the class values for the across dimension with <A> tags for drill down, if drill down is valid.

Example

```
emddbmid= instance(loadclass('SASHELP.WEBEIS.EMDDB_M.CLASS');
collist= makelist();
call send(emddbmid,'_GET_CLASS_COMBINATIONS_','COL',collist);
actionsl= makelist();
rc= insertc(actionsl,'',-1,'CL_DRILL');
vrflag= 1;
grphvar= 'Actual Sales';
grphstat= 'Sum';
grphacr= 'Month';
url= 'cgi-bin/broker?_PROGRAM=SASHELP.WEBEIS.MDDBRPTS.SCL&_SERVICE=
   default&_debug=&0GRT=BLOCK';
args= '&MDDB=SASUSER.SALES&METABASE=SASUSER.NEWMB&D=COUNTRY&AC=
   =MONTH&A0=2&A1=ACTUAL&A2=PREDICT';
args2= '&S0=2&S1=SUM&S2=AVG';
bgtype= 'COLOR';
bg= 'YELLOW';
title= '1996 Sales Reports';
webcls= 'SASHELP.WEBEIS.WEBEIS.CLASS';
dlflag=0;
service='DEFAULT';
call send(webid,'_DISPLAY_ACROSS_CELLS_',collist,actionsl,vrflag,grphvar,
   grphstat,grphacr,url,args,args2,' ',bgtype,bg,title,webcls,dlflag,service);
```

The following output is produced:

```
<TR>
<TH CLASS="COLLAB" COLSPAN=1>Month</TH>
<TH CLASS="COLLAB" COLSPAN=4>Jan</TH>
<TH CLASS="COLLAB" COLSPAN=4>Feb</TH>
<TH CLASS="COLLAB" COLSPAN=4>Mar</TH>
<TH CLASS="COLLAB" COLSPAN=4>Apr</TH>
<TH CLASS="COLLAB" COLSPAN=4>May</TH>
<TH CLASS="COLLAB" COLSPAN=4>Jun</TH>
<TH CLASS="COLLAB" COLSPAN=4>Jul</TH>
<TH CLASS="COLLAB" COLSPAN=4>Aug</TH>
<TH CLASS="COLLAB" COLSPAN=4>Sep</TH>
<TH CLASS="COLLAB" COLSPAN=4>Oct</TH>
<TH CLASS="COLLAB" COLSPAN=4>Nov</TH>
<TH CLASS="COLLAB" COLSPAN=4>Dec</TH>
<TH CLASS="TCOLLAB" COLSPAN=4>TOTAL</TH>
</TR>
```

_DISPLAY_ANALYSIS_VARS_ Method

Outputs the chosen analysis variables to the report table

Syntax

CALL SEND(OBJID,'_DISPLAY_ANALYSIS_VARS_',*column-list*,*dlflag*);

Required Arguments

column-list
the column list from the _EMDDB_M_ class.

Type: Numeric

dlflag
a flag that indicates whether to download the table to a spreadsheet.

Type: Numeric

Example

The following output is produced:

```
<TR>
<TH COLSPAN=2 CLASS="analycol">
<DIV CLASS="analysis">
<SELECT NAME="A" CLASS="ANALYBOX" onChange="submit();">
<OPTION SELECTED VALUE=ACTUAL> Actual Sales
<OPTION VALUE=DIFF> Sales Lag
<OPTION VALUE=PREDICT> Predicted Sales
<OPTION VALUE=SALESRAT> Sales Ratio
</SELECT>
</DIV>
</TH>
<TH COLSPAN=2 CLASS="analycol">
<DIV CLASS="analysis">
<SELECT NAME="A" CLASS="ANALYBOX" onChange="submit();">
<OPTION VALUE=ACTUAL> Actual Sales
<OPTION VALUE=DIFF> Sales Lag
<OPTION SELECTED VALUE=PREDICT> Predicted Sales
<OPTION VALUE=SALESRAT> Sales Ratio
</SELECT>
</DIV>
</TH>
<TH COLSPAN=2 CLASS="analycol">
ACTUAL SALES </TH>
<TH COLSPAN=2 CLASS="analycol">
PREDICTED SALES </TH>
</TR>
```

_DISPLAY_DEFAULT_TITLE_ Method

Displays the user-specified title

Syntax

CALL SEND(OBJID,'_DISPLAY_TITLE_',*dlflag*);

Required Argument

dlflag
a flag that indicates whether to download the table to a spreadsheet, where 0=output HTML tags with data values and 1=output data values with spreadsheet delimiters.

Type: Numeric

Details

This method

- gets the default title value from the DT macro variable
- outputs the title in HTML format or in comma-separated format, depending on the value of dlflag.

Example

```
dflag=0;
call send(webid,'_DISPLAY_DEFAULT_TITLE_',dflag);
```

The following output is produced:

```
<H2>1998 Sales Reports </H2>
```

_DISPLAY_DOWNVAR_CELL_ Method

Displays the down dimension

Syntax

CALL SEND(OBJID,'_DISPLAY_DOWNVAR_CELL_',*row-list*,*vrflag*, *analysis-variable*, *statistic-variable*,*down-variable*, *across-variable*, *_url*, *_argument-string*, *_argument-string2*, *initial-url*,*service-name*,*url*,*background-type*, *background-value*,*title*,*webeis-class*,*dlflag*);

Required Arguments

row-list
the row list from the EMDDB_M class.

Type: Character

vrflag
a flag that indicates that the **View Report** button was pressed.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Numeric

statistic-variable
the statistic to graph.

Type: Character

down-variable
the down dimension variable to graph.

Type: Character

across-variable
the across dimension variable to graph.

Type: Character

_url
the Web browser component of the URL.

Type: Character

_argument-string
the argument string for the next query.

Type: Character

_argument-string2
the argument string for the next query.

Type: Character

initial-url
the URL of the initial HTML page.

Type: Character

service-name
the Application Broker service.

Type: Character

url
the Application Broker component of the URL.

Type: Character

background-type
the background type (IMAGE or COLOR). This value is optional.

Type: Character

background-value
the background value. This value is optional.

Type: Character

title
the title. This value is optional.

Type: Character

web-class
the WEBEIS class name (for subclassing).

Type: Character

dlflag
a flag that indicates whether to download the table to a spreadsheet.

Type: Numeric

Details

If the user has drilled down, this method displays the down dimension cell with an up arrow. This method

- calls _GET_CLASS_LABEL_ of the data model to get the cell label
- outputs the labeled cell with an arrow (if necessary) for drilling up.

Example

```
call send(emddbmid_,'_GET_CLASS_COMBINATIONS_','ROW',rowlist);
vrflag=1;
grphvar='Actual+Sales';
grphstat='Sum';
grphdown='';
grphacr='PRODTYPE';
_url='/cgi-bin/broker?_PROGRAM=sashelp.webeis.mddbrpts.scl&_SERVICE=default
&_DEBUG=0&RPTTYPE=2&GRTYPE=BLOCK'
_args='&MDDB=PERMDATA.MAPINFO&METABASE=PERMDATA.MB612&DOWN=Geographic&ACROSS
=Product+Line&A=ACTUAL'
_args2 = '&S=SUM&V1=COUNTRY=U.S.A.'
mddblink='http://myserver.com/test.html';
service='default';
url='/cgi-bin/broker';
bgtype='';
bg='';
title='';
webcls='SASHELP.WEBEIS.WEBEIS';
dlflag=0;
call send(webid,'_DISPLAY_DOWNVAR_CELL_',rowlist,vrflag,grphvar,
   grphstat,grphdown,grphacr,_url,_args,_args2,mddblink,service,url,
   bgtype,bg,title,webcls,dlflag);
```

This example produces the following output:

```
<TR><TH CLASS="rowlab">State/Province</TH><TH CLASS=collab"><A
HREF="/cgi-bin/broker?_PROGRAM=sashelp.webeis.mddbrpts.scl&_SERVICE=default
&_DEBUG=0&RPTTYPE=2&GRTYPE=BLOCK&MDDB=PERMDATA.MAPINFO&METABASE=PERMDATA.MB612
&DOWN=Geographic&ACROSS=Product+Line&A=ACTUAL&S=SUM&GVAR=Actual+Sales&GSTAT=Sum
&GACR=PRODTYPE&GLINK=1&DRUP=1&_MDLINK=http://myserver-com/test.html
&CLASS=SASHELP.WEBEIS.WEBEIS" TARGET="_TOP"><IMG
SRC="/myimages/up.gif BORDER=0 ALT="UP"></A></TH>
```

_DISPLAY_ERROR_ Method

Displays an error message on dynamic pages

Syntax

CALL SEND(OBJID,'_DISPLAY_ERROR_',*error-message*);

Required Argument

error-message

the error message to display.

Type: Character

Example

The following output is produced:

```
<HTML>
<BODY BGCOLOR=SILVER> <CENTER>
<BR> <BR> <BR>
<H1>Analysis Variable Required </H1>
</BODY>
</HTML>
```

_DISPLAY_ONEWAY_ Method

Calls methods to produce one-way tabular reports

Syntax

CALL SEND(OBJID,'_DISPLAY_ONEWAY_',*dlflag*);

Required Argument

dlflag

a flag that indicates whether to download the table to a spreadsheet.

Type: Numeric

Details

This method

- checks for selected down and analysis variables and statistics
- calls the _OPEN_ method of the metabase
- calls the _GET_HIERARCHY_ method of the metabase to get the list of hierarchies
- calls the _BUILD_APPLICATION_LIST_ method
- calls the _BUILD_ARGS_STRING_ method
- calls the _BUILD_ARGS2_STRING_ method
- calls the _GET_VARIABLES_ method of the metabase class to get the list of analysis variables
- calls the _SET_DRILL_LEVELS_ method, if necessary, to drill down to the current level
- calls the _SET_APPLICATION_ method of the data model
- calls the _EXPAND_VALUE_ method of the data model for all expanded variables to request the expanded data values
- calls the _GET_CLASS_COMBINATIONS_ method of the data model to get the row list
- calls the _GET_CLASS_COMBINATIONS_ method of the data model to get the column list
- calls the _OUTPUT_DOWN_LIST_ method to output the list of down variables and outputs the HTML tags to format the selection list
- calls the _OPEN_ONEWAY_ method
- calls the _DISPLAY_ANALYSIS_VARS_ method

- calls the _DISPLAY_DOWNVAR_CELL_ method
- calls the _DISPLAY_STATISTIC_VARS_ method
- calls the _DISPLAY_VALUES_ method.

_DISPLAY_ONEWAY_BLOCK_ Method

Submits the PROC GCHART statements to produce the one-way block chart

Syntax

CALL SEND(OBJID,'_DISPLAY_ONEWAY_BLOCK_',*statistic*,*analysis-variable*, *down-variable*,*dsname*,*gif-device*);

Required Arguments

statistic
the statistic to graph.
Type: Character

analysis-variable
the analysis variable to graph.
Type: Character

down-variable
the down dimension variable to graph.
Type: Character

dsname
the data set name from the _WRITE_ method.
Type: Character

gif-device
the device driver name.
Type: Character

_DISPLAY_ONEWAY_HBAR_ Method

Submits the PROC GCHART statement to produce the one-way horizontal bar chart

Syntax

CALL SEND(OBJID,'_DISPLAY_ONEWAY_HBAR_',*statistic*,*analysis-variable*, *down-variable*,*dsname*,*gif-device*);

Required Arguments

statistic
the statistic to graph.
Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

down-variable
the down dimension variable to graph.

Type: Character

dsname
the data set name from the _WRITE_ method.

Type: Character

gif-device
the device driver name.

Type: Character

_DISPLAY_ONEWAY_PIE_ Method

Submits the PROC GCHART statement to produce the one-way pie chart

Syntax

CALL SEND(OBJID,'_DISPLAY_ONEWAY_PIE_',*statistic*,*analysis-variable*, *down-variable*,*dsname*,*gif-device*);

Required Arguments

statistic
the statistic to graph.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

down-variable
the down dimension variable to graph.

Type: Character

dsname
the data set name from the _WRITE_ method.

Type: Character

gif-device
the device driver name.

Type: Character

_DISPLAY_ONEWAY_VBAR_ Method

Submits the PROC GCHART statement to produce the one-way vertical bar chart

Syntax

CALL SEND(OBJID,'_DISPLAY_ONEWAY_VBAR_',*statistic*,*analysis-variable*, *down-variable*,*dsname*,*gif-device*);

Required Arguments

statistic
the statistic to graph.
Type: Character

analysis-variable
the analysis variable to graph.
Type: Character

down-variable
the down dimension variable to graph.
Type: Character

dsname
the data set name from the _WRITE_ method.
Type: Character

gif-device
the device driver name.
Type: Character

_DISPLAY_STATISTIC_VARS_ Method

Outputs the selected statistics to the report table

Syntax

CALL SEND(OBJID,'_DISPLAY_STATISTIC_VARS_',*column-list*,*analysis-variable*, *_url*, *_argument-string*, *_argument-string2*,*initial-url*,*URL*, *service*,*background-type*, *background-value*,*title*,*webcls*,*dlflag*,*rowlist*);

Required Arguments

column-list
the column list from the EMDDB_M class.
Type: Numeric

analysis-variable
the analysis variable to graph.
Type: Numeric

_url
the URL of the next query.
Type: Character

_argument-string
the argument string for the next query.
Type: Character

_argument-string2
the argument string for the next query.

Type: Character

initial-url
the URL of the initial HTML page.

Type: Character

URL
the Application Broker component of the URL.

Type: Character

service
the Application Broker service.

Type: Character

background-type
the background type (IMAGE or COLOR). This value is optional.

Type: Character

background-value
the background value. This value is optional.

Type: Character

title
the HTML page title.

Type: Character

webcls
the WEBEIS class name.

Type: Character

dlflag
a flag that indicates whether to download the table to a spreadsheet, where 0=output HTML tags with data values and 1=output data values with spreadsheet delimiters. This parameter is optional.

Type: Numeric

rowlist
the rowlist from the _GET_CLASS_COMBINATIONS_ method. This parameter is optional.

Type: Numeric

Details

This method outputs

- a <TH> tag for each statistic in the column list
- a selection list of statistics on the first occurrence of each selected statistic
- an <A> tag followed by an <IMAGE> tag for each statistic if the standard GIF graph is displayed.

Example

```
call send(emddbmid_,'_GET_CLASS_COMBINATIONS_','COL',collist);
call send(emddbmid_,'_GET_CLASS_COMBINATIONS_','ROW',rowlist);
_url='/cgi-bin/scripts?_PROGRAM=SASHELP.WEBEIS.MDDBRPTS.SCL&_SERVICE=default
```

```
&_DEBUG=0&RPTTYPE=1&GRTYPE=BLOCK';
_args='&MDDB=PERMDATA.MAPINFO&METABASE=PERMDATA.MB612&DOWN=Geographic&A=ACTUAL';
_args2='&S0=2&S1=SUM&S2=PCTSUM';
mddblink='DYNAMIC';
url='/cgi-bin/broker';
service='default';
bgtype='color';
bg='yellow';
title='';
webcls='SASHELP.WEBEIS.WEBEIS';
call send(webid,'_DISPLAY_STATISTIC_VARS_',collist,'',_url,_args,
          _args2,mddblink,url,service,bgtype,bg,title,webcls,dlflag,rowlist);
```

The example produces the following output:

```
<TH CLASS="statscol" VALIGN=BOTTOM><DIV CLASS="stats">
<SELECT NAME="s" CLASS="statsbox" onChange="submit();">
<OPTION VALUE="SUM" SELECTED>Sum
<OPTION VALUE="PCTSUM">% of Sum
<OPTION VALUE="AVG">Average
<OPTION VALUE="N">Total Count
<OPTION VALUE="PCTN">% of Total #
<OPTION VALUE="MIN">Minimum
<OPTION VALUE="MAX">Maximum
<OPTION VALUE="RANGE">Range
</SELECT>
</DIV>
</TH>
<TH CLASS="statscol" VALIGN=BOTTOM><DIV CLASS="stats">
<SELECT NAME="s" CLASS="statsbox" onChange="submit();">
<OPTION VALUE="SUM">Sum
<OPTION VALUE="PCTSUM" SELECTED>% of Sum
<OPTION VALUE="AVG">Average
<OPTION VALUE="N">Total Count
<OPTION VALUE="PCTN">% of Total #
<OPTION VALUE="MIN">Minimum
<OPTION VALUE="MAX">Maximum
<OPTION VALUE="RANGE">Range
</SELECT>
</DIV>
```

_DISPLAY_SUBSET_TITLE_ Method

Displays the applied subsets in a title

Syntax

CALL SEND(OBJID,'_DISPLAY_SUBSET_TITLE_',*dlflag*);

Required Argument

dlflag

a flag that indicates whether to download the data to a spreadsheet. This parameter is optional.

Type: Numeric

Example

The following output is produced:

```
<TABLE><TR><TD><STRONG>Filter by: Country=Canada,
Germany Month=Jan,Apr,May
</STRONG></TD></TR></TABLE>
```

_DISPLAY_TITLE_ Method

Displays the drill titles above the tabular report

Syntax

CALL SEND(OBJID,'_DISPLAY_TITLE_',*srchchar*,*titlemsg*,*varname*,*dlflag*);

Required Arguments

srchchar

the drill string for the down variable (V) or the across variable (VA).

Type: Character

titlemsg

the name of the title message, where the name can be CL_DOWN (for down) or IN_ACROSS (for across).

Type: Character

varname

the down or across variable.

Type: Character

dlflag

a flag that indicates whether to download the table to a spreadsheet, where 0=output HTML tags with data values and 1=output data values with spreadsheet delimiters. This parameter is optional.

Type: Numeric

Example

```
dflag=0;
downvar='Geographic';
call send(webid,'_DISPLAY_TITLE_','V','CL_DOWN',downvar,dlflag);
```

The following output is produced:

```
<TABLE>
<TR><TD><STRONG>Down: Country=CANADA</STRONG><BR></TD></TR>
</TABLE>
```

_DISPLAY_TWOWAY_ Method

Calls the methods to display the two-way report

Syntax

CALL SEND(OBJID,'_DISPLAY_TWOWAY_',*dlflag*);

Required Argument

dlflag

a flag that indicates whether to download the table to a spreadsheet where 0=output HTML tags with data values and 1=output data values with spreadsheet delimiters.

Type: Numeric

Details

This method

- checks for the required variables for a two-way report.
- calls the metabase _GET_HIERARCHY_ method to get a list of hierarchies.
- calls the _BUILD_APPLICATION_LIST_ method.
- calls the _CHECK_HIER_MEMBER_ method.
- calls the _SET_DRILL_LEVELS_ method to drill to the current level.
- calls the EMDDB_M class _SET_APPLICATION_ method.
- calls the _BUILD_ARGS_STRING_ method.
- calls the _BUILD_ARGS2_STRING_ method.
- calls the metabase _GET_VARIABLES_ method to get a list of analysis variables.
- calls the _EXPAND_VALUE_ data model method for all expanded variables.
- calls the EMDDB_M class _GET_CLASS_COMBINATIONS_ method to get the row list.
- calls the EMDDB_M class _GET_CLASS_COMBINATIONS_ method to get the column list.
- calls the _OUTPUT_DOWN_LIST_, _OUTPUT_ACROSS_LIST_, and _OUTPUT_VIEWRPT_BUTTON_ methods to place down and across selection lists and the **View Report** button above the report. This method also outputs the HTML tags to format these elements on the page.
- calls the _OPEN_TABLE_ method.
- calls the _OPEN_TWOWAY_ method.
- calls the _DISPLAY_ACROSS_CELLS_ method.
- calls the _OUTPUT_EMPTY_CELL_ method.
- calls the _DISPLAY_ANALYSIS_VARS_ method.
- calls the _DISPLAY_DOWNVAR_CELL_ method.
- calls the _DISPLAY_STATISTIC_VARS_ method.

- calls the _DISPLAY_VALUES_ method.

_DISPLAY_TWOWAY_BLOCK_ Method

Submits the SAS/GRAPH PROC GCHART statements to produce the two-way block chart

Syntax

CALL SEND(OBJID,'_DISPLAY_TWOWAY_BLOCK_',*statistic*,*analysis-variable*, *down-variable*,*across-variable*,*dsname*,*gif-device*,*subset-list*);

Required Arguments

statistic
the statistic to graph.
Type: Character

analysis-variable
the analysis variable to graph.
Type: Character

down-variable
the down variable to graph.
Type: Character

across-variable
the across variable to graph.
Type: Character

dsname
the data set name from the _WRITE_ method.
Type: Character

gif-device
the device driver name.
Type: Character

subset-list
the initial subset list. This parameter is optional.
Type: Numeric

_DISPLAY_TWOWAY_HBAR_ Method

Submits the SAS/GRAPH PROC GCHART statements to produce the two-way horizontal bar chart

Syntax

CALL SEND(OBJID,'_DISPLAY_TWOWAY_HBAR_',*statistic*,*analysis-variable*, *down-variable*,*across-variable*,*dsname*,*gif-device*,*subset-list*);

Required Arguments

statistic
the statistic to graph.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

down-variable
the down variable to graph.

Type: Character

across-variable
the across variable to graph.

Type: Character

dsname
the data set name from the _WRITE_ method.

Type: Character

gif-device
the device driver name.

Type: Character

subset-list
the subset list for the initial graph. This parameter is optional.

Type: Numeric

_DISPLAY_TWOWAY_VBAR_ Method

Submits the SAS/GRAPH PROC GCHART statements to produce the two-way vertical bar chart

Syntax

CALL SEND(OBJID,'_DISPLAY_TWOWAY_VBAR_',*stat*,*var*,*down*,*across*, *dsname*,*gifdev*, *subset-list*);

Required Arguments

stat
the statistic to graph.

Type: Character

var
the analysis variable to graph.

Type: Character

down
the down variable to graph.

Type: Character

across
the across variable to graph.

Type: Character

dsname
the data set name from the _WRITE_ method.

Type: Character

gifdev
the device driver name.

Type: Character

subset-list
the subset list for the initial graph. This parameter is optional.

Type: Numeric

_DISPLAY_VALUES_ Method

Outputs the numerical values to the report table

Syntax

CALL SEND(OBJID,'_DISPLAY_VALUES_',*row-list*,*column-list*, *actions-list*,*metabase-id*, *viewreport-flag*, *_url*, *_argument-string*, *_argument-string2*,*initial-url*,*analysis-variable*, *statistic-variable*, *across-variable*,*background-type*,*background-value*,*title*,*webcls*,*dlflag*);

Required Arguments

row-list
the row list from EMDDB_M.

Type: Numeric

column-list
the column list from EMDDB_M.

Type: Numeric

actions-list
the actions sublist that determines drill-down.

Type: Numeric

metabase-id
the metabase ID number.

Type: Numeric

viewreport-flag
the **View Report** button flag.

Type: Numeric

_url
the URL of the next query.

Type: Character

_argument-string
the argument string for the next query.

Type: Character

_argument-string2
the argument string for the next query.

Type: Character

initial-url
the URL of the initial HTML page.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

statistic-variable
the statistic to graph.

Type: Character

across-variable
the analysis variable to graph.

Type: Numeric

background-type
the background type (IMAGE or COLOR). This value is optional.

Type: Character

background-value
the background value. This value is optional.

Type: Character

title
the HTML page title.

Type: Character

webcls
the WEBEIS class name.

Type: Character

dlflag
a flag that indicates whether to download the table to a spreadsheet, where 0=output HTML tags with data values and 1=output data values with spreadsheet delimiters.

Type: Numeric

Details

This method

- calls the _GET_DATA_ATTR_ method of the METABASE class to get the base table name for reach-through
- calls the _GET_EXPANDABLE_CLASS_ method of the data model to get the expand variable
- calls the EMDDB_M _SET_ACTIVE_VALUE_ method
- calls the EMDDB_M _SET_ACTION_STATUS_ method to validate drill-down
- outputs the class value for the current row
- outputs an <A> tag if drill-down is valid
- outputs the expand link if the expand is valid
- outputs the collapse link if the collapse is valid

- calls the EMDDB_M _GET_VALUES_ method to get the numerical value of the current statistic/analysis pair
- calls the _GET_ANALYSIS_VAR_NAME_ method
- calls the metabase _GET_VAR_ATTR_ method to get the variable attributes
- calls the _GET_RANGE_COLOR_ method if a range is applied
- calls the EMDDB_M _GET_CLASS_FORMAT_ method
- outputs the numerical value to a table cell
- calls the _OUTPUT_REACHTHRU_LINK_ method if the reach-through to detail is valid
- outputs the closing HTML table tag.

Example

```
rowlist=makelist();
call send(emddbmid_,'_GET_CLASS_COMBINATIONS_','ROW',rowlist);
collist=makelist();
call send(emddbmid_,'_GET_CLASS_COMBINATIONS_','COL',collist);
actionsl=makelist();
rc=insertc(actionsl,'',-1,'CL_DRILL');
mbid=instance(loadclass('SASHELP.MB.METABASE'));
vrflag=1;
_url='/cgi-bin/broker?_PROGRAM=sashelp.webeis.mddbrpts.scl&_SERVICE=default
&_DEBUG=0&RPTTYPE=2&GRTYPE=BLOCK';
_args='&MDDB=SASHELP.PRDMDDB&METABASE=SASHELP.MBEIS&DOWN=Geographic&ACROSS
=Product+Line&A=ACTUAL';
_args2='&S=SUM';
grphvar='';
grphstat='';
grphacr='PRODTYPE';
bgtype='color';
bg='yellow';
title='';
webcls='SASHELP.WEBEIS.WEBEIS';
dlflag=0;
call send(_self_,'_DISPLAY_VALUES_',rowlist,collist,actionsl,mbid,vrflag,
          _url,_args,_args2,mddblink,grphvar,grphstat,grphacr,
          bgtype,bg,title,webcls,dlflag);
```

The following output is produced:

```
<TR><TH CLASS="rowlab" NOWRAP ROWSPAN=1 COLSPAN=1>
<A href="../mddbapp.hlp/" onClick="this.href=clsurl('V11=COUNTRY=CANADA&V10=1
&_PROGRAM=SASHELP.WEBEIS.OPFRAME.SCL')" TARGET="_top">CANADA</A>
</TH>
<TH CLASS="rowlab" COLSPAN=1 ROWSPAN=1>
<A HREF="/cgi-bin/broker?_PROGRAM=SASHELP.WEBEIS.OPFRAME.SCL&_SERVICE=default
&_DEBUG=0&GRT=NONE&MDDB=SASHELP.PRDMDDB&METABASE=SASHELP.MBEIS
&D=Geographic&AC=Product%20Line&A=ACTUAL&S=SUM
&EX=1&EX=COUNTRY=CANADA&DC=1&ACB=1&ST=1&GL=1&GSC=1
&SSL=1&SH=3&SW=15&GH=450&GW=600&DP=1&PD=Geographic
&PAC=Product%2BLine&BGTYPE=color&BG=%23FFFFE7" TARGET="_top">
<IMG SRC="/myimages/images/expand.gif" BORDER=0 ALT="Expand"></A></TH>
<TD CLASS="tdcell" BGCOLOR=#008000><A href="../mddbapp.hlp/" onClick="this.href=rturl
```

```
('_WHERE=COUNTRY%3DCANADA&_WHERE=PRODTYPE%3DFURNITURE')" TARGET="_blank"> $97,864</A></TD>
<TD CLASS="tdcell" BGCOLOR=#00FFFF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=COUNTRY%3DCANADA&_WHERE=PRODTYPE%3DOFFICE')" TARGET="_blank"> $149,126</A></TD>
<TD CLASS="tcolcell" BGCOLOR=#0000FF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=COUNTRY%3DCANADA')" TARGET="_blank"> $246,990</A></TD>
<TR><TH CLASS="rowlab" NOWRAP ROWSPAN=1 COLSPAN=1>
<A href="../mddbapp.hlp/" onClick="this.href=clsurl
('V11=COUNTRY=GERMANY&V10=1&_PROGRAM=SASHELP.WEBEIS.OPFRAME.SCL')"
TARGET="_top">GERMANY</A>
</TH>
<TH CLASS="rowlab" COLSPAN=1 ROWSPAN=1>
<A HREF="/cgi-bin/broker?_PROGRAM=SASHELP.WEBEIS.OPFRAME.SCL&_SERVICE=default
&_DEBUG=0&GRT=NONE&MDDB=SASHELP.PRDMDDB&METABASE=SASHELP.MBEIS
&D=Geographic&AC=Product%20Line&A=ACTUAL&S=SUM
&EX=1&EX=COUNTRY=GERMANY&DC=1&ACB=1&ST=1&GL=1&GSC=1
&SSL=1&SH=3&SW=15&GH=450&GW=600&DP=1&PD=Geographic&PAC=Product%2BLine
&BGTYPE=color&BG=%23FFFFE7" TARGET="_top">
<IMG SRC="/myimages/images/expand.gif" BORDER=0 ALT="Expand"></A></TH>
<TD CLASS="tdcell" BGCOLOR=#00FFFF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=COUNTRY%3DGERMANY&_WHERE=PRODTYPE%3DFURNITURE')" TARGET="_blank">
$101,194</A></TD>
<TD CLASS="tdcell" BGCOLOR=#00FFFF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=COUNTRY%3DGERMANY&_WHERE=PRODTYPE%3DOFFICE')" TARGET="_blank">
$144,804</A></TD>
<TD CLASS="tcolcell" BGCOLOR=#0000FF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=COUNTRY%3DGERMANY')" TARGET="_blank"> $245,998</A></TD>
<TR><TH CLASS="rowlab" NOWRAP ROWSPAN=1 COLSPAN=1>
<A href="../mddbapp.hlp/" onClick="this.href=clsurl('V11=COUNTRY=U.S.A.&V10=1
&_PROGRAM=SASHELP.WEBEIS.OPFRAME.SCL')" TARGET="_top">U.S.A.</A>
</TH>
<TH CLASS="rowlab" COLSPAN=1 ROWSPAN=1>
<A HREF="/cgi-bin/broker?_PROGRAM=SASHELP.WEBEIS.OPFRAME.SCL&_SERVICE=default
&_DEBUG=0&GRT=NONE
&MDDB=SASHELP.PRDMDDB&METABASE=SASHELP.MBEIS&D=Geographic&AC=Product%20Line
&A=ACTUAL&S=SUM
&EX=1&EX=COUNTRY=U.S.A.&DC=1&ACB=1&ST=1&GL=1&GSC=1&SSL=1
&SH=3&SW=15&GH=450&GW=600&DP=1&PD=Geographic&PAC=Product%2BLine
&BGTYPE=color&BG=%23FFFFE7" TARGET="_top">
<IMG SRC="/myimages/images/expand.gif" BORDER=0 ALT="Expand"></A></TH>
<TD CLASS="tdcell" BGCOLOR=#008000><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=COUNTRY%3DU.S.A.&_WHERE=PRODTYPE%3DFURNITURE')" TARGET="_blank"> $91,567</A></TD>
<TD CLASS="tdcell" BGCOLOR=#00FFFF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=COUNTRY%3DU.S.A.&_WHERE=PRODTYPE%3DOFFICE')" TARGET="_blank"> $145,782</A></TD>
<TD CLASS="tcolcell" BGCOLOR=#0000FF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=COUNTRY%3DU.S.A.')" TARGET="_blank"> $237,349</A></TD>
<TR><TH CLASS="trowlab" ROWSPAN=1 COLSPAN=1>TOTAL</TH>
<TH CLASS="trowlab" COLSPAN=1 ROWSPAN=1>
<A HREF="/cgi-bin/broker?_PROGRAM=SASHELP.WEBEIS.OPFRAME.SCL&_SERVICE=default
&_DEBUG=0&GRT=NONE
&MDDB=SASHELP.PRDMDDB&METABASE=SASHELP.MBEIS&D=Geographic
&AC=Product%20Line&A=ACTUAL&S=SUM
&EX=1&EX=COUNTRY=TOTAL&DC=1&ACB=1&ST=1&GL=1&GSC=1
&SSL=1&SH=3&SW=15&GH=450&GW=600&DP=1&PD=Geographic&PAC=Product%2BLine
&BGTYPE=color&BG=%23FFFFE7" TARGET="_top"&gt;
<IMG SRC="/myimages/images/expand.gif" BORDER=0 ALT="Expand"></A></TH>
<TD CLASS="trowcell" BGCOLOR=#0000FF><A href="../mddbapp.hlp/" onClick="this.href=rturl
```

```
('_WHERE=&_WHERE=PRODTYPE%3DFURNITURE')" TARGET="_blank"> $290,625</A></TD>
<TD CLASS="trowcell" BGCOLOR=#0000FF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=&_WHERE=PRODTYPE%3DOFFICE')" TARGET="_blank"> $439,712</A></TD>
<TD CLASS="trowcell" BGCOLOR=#0000FF><A href="../mddbapp.hlp/" onClick="this.href=rturl
('_WHERE=')" TARGET="_blank"> $730,337</A></TD>
</TR></TABLE><BR><BR>
```

_DRILL_TO_LEVEL_ Method

Sets the drill-down values

Details

This method has been replaced by the _SET_DRILL_LEVELS_ method. See the _SET_DRILL_LEVELS_ on page 151 method description for more information.

_GET_ANALYSIS_VAR_NAME_ Method

Returns the name of the analysis variable that is identified by the label

Syntax

CALL SEND(OBJID,'_GET_ANALYSIS_VAR_NAME_',*label*,*varlist*,*name*);

Required Arguments

label
the long label for an analysis variable.

Type: Character

varlist
the list of analysis variables.

Type: Numeric

name
the analysis variable name.

Type: Character

_GET_ANALYSIS_VARS_ Method

Returns the available analysis variables from the metabase and builds the labels list

Syntax

CALL SEND(OBJID,'_GET_ANALYSIS_VARS_',*metabase-id*);

Required Argument

metabase-id
the metabase ID number.

Type: Numeric

Details

This method

- calls the Metabase _GET_VARIABLES_ method
- builds the list of analysis variable labels that is identified by the ANALLBLS_ instance variable.

Example

The following output is produced:

```
anallbls_=( 'Predicted Sales'
                         'Actual Sales'
                        )[563]
```

_GET_AVAILABLE_STATS_ Method

Gets the available statistics from the metabase

Syntax

CALL SEND(OBJID,'_GET_AVAILABLE_STATS_',*metabase-id*);

Required Argument

metabase-id
the metabase ID number.

Type: Numeric

_GET_DATA_MODEL_NAME_ Method

Returns the data model name from the DMODEL_ instance variable

Syntax

CALL SEND(OBJID,'_GET_DATA_MODEL_NAME_',*model-name*);

Required Argument

model-name
the name of the data model to use.

Type: Character

_GET_DOWNVAR_LIST_ Method

Builds the down variable list and the dimensions label list

Syntax

CALL SEND(OBJID,'_GET_DOWNVAR_LIST_',*metabase-id*);

Required Argument

metabase-id
the metabase ID number.
Type: Numeric

Details

This method

- calls the metabase _GET_HIERARCHY_ method
- calls the metabase _GET_VARIABLES_ method
- builds the down variable list and the dimensions label list.

_GET_EMDDBMID_ Method

Returns the ID of the data model from the EMDDBMID_ instance variable

Syntax

CALL SEND(OBJID,'_GET_EMDDBMID_',*id*);

Required Argument

id
the ID of the data model.
Type: Numeric

_GET_GRAPH_VALUES_ Method

Gets the numeric values for the 3-D clickable graph

Syntax

CALL SEND(OBJID,'_GET_GRAPH_VALUES_');

Details

The values are stored in the GRPHVALS_ instance variable. Thus, the graph can be displayed with or without the report. This method:

- calls _BUILD_APPLICATION_LIST_ to build the application list
- calls _SET_DRILL_LEVELS_ to set the drill-down subsets
- calls _SET_APPLICATION_ of the data model to get the initial data table
- calls _SET_ACTIVE_VALUE_ and _EXPAND_VALUE_ of the data model for each of the expanded variables (if necessary)
- calls _GET_CLASS_COMBINATIONS_ of the data model to get the row class values
- calls _GET_CLASS_COMBINATIONS_ of the data model to get the column class values
- calls _GET_VALUES_ of the data model for each crossing from the row and column lists
- calls _GET_CLASS_FORMAT_ for the analysis variable to get its format
- adds the class values, the numerical data, and the format to the GRPHVALS_ list.

Example

The GRPHVALS_ instance variable contains the following:

```
( ( COUNTRY='CANADA'
    _ANLSYS_='Actual Sales'
    _STATS_='Sum'
    PRODTYPE='FURNITURE'
    '97864'
    'DOLLAR12.'
   )[1073]
  ( COUNTRY='CANADA'
    _ANLSYS_='Actual Sales'
    _STATS_='Sum'
    PRODTYPE='OFFICE'
    '149126'
    'DOLLAR12.'
   )[227]
  ( COUNTRY='CANADA'
    _ANLSYS_='Actual Sales'
    _STATS_='Sum'
    PRODTYPE='TOTAL'
    '246990'
    'DOLLAR12.'
   )[1411]
  ( COUNTRY='GERMANY'
    _ANLSYS_='Actual Sales'
    _STATS_='Sum'
    PRODTYPE='FURNITURE'
    '101194'
    'DOLLAR12.'
   )[1631]
  ( COUNTRY='GERMANY'
    _ANLSYS_='Actual Sales'
```

```
  _STATS_='Sum'
  PRODTYPE='OFFICE'
  '144804'
  'DOLLAR12.'
 )[1711]
( COUNTRY='GERMANY'
  _ANLSYS_='Actual Sales'
  _STATS_='Sum'
  PRODTYPE='TOTAL'
  '245998'
  'DOLLAR12.'
 )[1715]
( COUNTRY='U.S.A.'
  _ANLSYS_='Actual Sales'
  _STATS_='Sum'
  PRODTYPE='FURNITURE'
  '91567'
  'DOLLAR12.'
 )[1719]
( COUNTRY='U.S.A.'
  _ANLSYS_='Actual Sales'
  _STATS_='Sum'
  PRODTYPE='OFFICE'
  '145782'
  'DOLLAR12.'
 )[1723]
( COUNTRY='U.S.A.'
  _ANLSYS_='Actual Sales'
  _STATS_='Sum'
  PRODTYPE='TOTAL'
  '237349'
  'DOLLAR12.'
 )[1727]
( COUNTRY='TOTAL'
  _ANLSYS_='Actual Sales'
  _STATS_='Sum'
  PRODTYPE='FURNITURE'
  '290625'
  'DOLLAR12.'
 )[1731]
( COUNTRY='TOTAL'
  _ANLSYS_='Actual Sales'
  _STATS_='Sum'
  PRODTYPE='OFFICE'
  '439712'
  'DOLLAR12.'
 )[1735]
( COUNTRY='TOTAL'
  _ANLSYS_='Actual Sales'
  _STATS_='Sum'
  PRODTYPE='TOTAL'
  '730337'
  'DOLLAR12.'
 )[1739]
)[1399]
```

_GET_MDDB_NAME_ Method

Returns the MDDB name from the MDDB_ instance variable

Syntax

CALL SEND(OBJID,'_GET_MDDB_NAME_',*mddb*);

Required Argument

mddb
the MDDB name.
Type: Character

_GET_MESSAGE_ID_ Method

Returns the ID of the message class from the DMODEL_ instance variable

Syntax

CALL SEND(OBJID,'_GET_MESSAGE_ID_',*msgid*);

Required Argument

msgid
the ID of the message object.
Type: Numeric

_GET_METABASE_NAME_ Method

Returns the metabase name from the METABASE_ instance variable

Syntax

CALL SEND(OBJID,'_GET_METABASE_NAME_',*metabase*);

Required Argument

metabase
the metabase name.
Type: Character

_GET_OUTPUT_FILE_ID_ Method

Returns the output file ID from the HTMLFILE_ instance variable

Syntax

CALL SEND(OBJID,'_GET_OUTPUT_FILE_ID_',*fileid*);

Required Argument

fileid
the ID of the output file.
Type: Numeric

_GET_RANGE_COLOR_ Method

Returns the display color that is defined in the RANGE entry for a numeric value

Syntax

CALL SEND(OBJID,'_GET_RANGE_COLOR_',*color*,*range-list*,*num*);

Required Arguments

color
the display color.
Type: Character

range-list
the RANGE list.
Type: Character

num
the numerical value to search for.
Type: Numeric

_GET_STATDESC_ Method

Returns the ID of the statistics description list from the STATDESC_ instance variable

Syntax

CALL SEND(OBJID,'_GET_STATDESC_',*statdesc*);

Required Argument

statdesc
the ID of the list that contains statistics descriptions.
Type: Numeric

_GET_SUBSET_FLAG_ Method

Returns the value of the SUBSET_FLAG_ instance variable

Syntax

CALL SEND(OBJID,'_GET_SUBSET_FLAG_',*flagval*);

Required Argument

flagval
the value of the subset flag.
Type: Character

_GET_USEHOLAP_ Method

Returns the value of the HOLAP flag from the USEHOLAP_ instance variable

Syntax

CALL SEND(OBJID,'_GET_USEHOLAP_',*useholap*);

Required Argument

id
the ID of the data model.
Type: Numeric

_OPEN_DYNAMIC_FILE_ Method

Opens the _WEBOUT file for dynamic writing

Syntax

CALL SEND(OBJID,'_OPEN_DYNAMIC_FILE_');

_OPEN_FORM_ Method

Outputs the <FORM> tag for the dynamic HTML pages

Syntax

CALL SEND(OBJID,'_OPEN_FORM_',*url*,*form-name*,*form-target*);

Required Arguments

url
the URL of the next query.

Type: Character

form-name
the name of the form. This parameter is optional.

Type: Character

form-target
the target window name. This parameter is optional.

Type: Character

Details

For further explanation of the <FORM> tag, refer to your favorite HTML reference documentation.

Example

```
CALL SEND (WEBID, '_OPEN_FORM_','/SCRIPTS/BROKER','MYFORM','MENUFORM');
```

The following output is produced:

```
<FORM ACTION="/SCRIPTS/BROKER" NAME="MYFORM" TARGET="MENUFORM">
```

_OPEN_ONEWAY_ Method

Opens the one-way report table

Syntax

CALL SEND(OBJID,'_OPEN_ONEWAY_',*dlflag*);

Required Argument

dlflag
a flag that indicates whether to download the table to a spreadsheet.

Type: Numeric

Details

This method

- outputs the <TABLE> tag for the report
- outputs the empty cell in the upper left corner of the report.

Example

The following output is produced:

```
<TABLE CLASS="MAINTAB" BORDER=1>
<TR> <TH COLSPAN=2 CLASS="COLLAB" > </TH>
```

_OPEN_STATIC_FILE_ Method

Opens a file in which static HTML is written

Syntax

CALL SEND(OBJID,'_OPEN_STATIC_FILE_',*indxfile*,*msgdest*,*rc*);

Required Arguments

indxfile
the fileref of the file to open.

Type: Character

msgdest
the destination for error messages. Valid values are LOG or DIALOG.

Type: Character

rc
the return code for errors (1=error).

Type: Numeric

_OPEN_TABLE_ Method

Outputs the <TABLE> tag for the dynamic HTML pages

Syntax

CALL SEND(OBJID,'_OPEN_TABLE_',*brdrvalue*,*table-width*, *border-color-dark*, *border-color-light*,*background-color*, *cell-padding*, *cell-spacing css-class*);

Required Arguments

brdrvalue
an optional parameter that specifies the table border thickness.

Type: Character

table-width
an optional parameter that specifies the width of the table cells (as a percentage of the document width).

Type: Character

border-color-dark
an optional parameter that specifies a table cell border color attribute.

Type: Character

border-color-light
an optional parameter that specifies a table cell border color attribute.

Type: Character

background-color
an optional parameter that specifies the background color of the table.

Type: Character

cell-padding
an optional parameter that specifies the spacing inside the table cells.

Type: Character

cell-spacing
an optional parameter that specifies the spacing between the table cells.

Type: Character

css-class
an optional parameter that specifies the label for a cascading style sheet tag.

Type: Character

Details

For more information about the <TABLE> tag, refer to your favorite HTML reference documentation.

Example

```
CALL SEND (webid, '_OPEN_TABLE_', '3', '50', 'RED', 'YELLOW', 'GRAY', '2', 'mytable');
```

The following output is produced:

```
<TABLE BORDER=3 WIDTH=50% BORDERCOLORDARK=RED BORDERCOLORLIGHT=YELLOW BGCOLOR=GRAY
    CELLPADDING=2 CELLSPACING=2 CLASS="mytable">
```

_OPEN_TWOWAY_ Method

Opens the two-way report table

Syntax

CALL SEND(OBJID,'_OPEN_TWOWAY_',*column-list*,*viewreport-flag*, *_url*,*_argument-string*, *_argument-string2*, *_argument-string3*,*initial-url*,*url*,*service*, *analysis-variable*, *statistic-variable*,*across-variable*, *background-type*,*background-value*,*webeis-class*,*dlflag*);

Required Arguments

column-list
the column list from the _EMDDB_M class.

Type: Numeric

viewreport-flag
the **View Report** button flag.

Type: Numeric

_url
the Application Broker component of the URL.

Type: Character

_argument-string
the argument string for the next query.

Type: Character

_argument-string2
the argument string for the next query.

Type: Character

_argument-string3
the argument string for the next query.

Type: Character

initial-url
the URL of the initial HTML page.

Type: Character

url
the URL for the next query.

Type: Character

service
the Application Broker service being used.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

statistic-variable
the statistic to graph.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Numeric

background-type
the background type (IMAGE or COLOR). This parameter is optional.

Type: Character

background-value
the background value. This parameter is optional.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

dlflag
a flag that indicates whether to download the table to a spreadsheet, where 0=output HTML tags with data values and 1=output data values with spreadsheet delimiters.

Type: Numeric

Details

This method

- outputs the <TABLE> tag
- calls the EMDDB_M class _GET_CLASS_LABEL_ method to get the label of the across variable
- outputs the across variable label cell
- outputs the arrow <IMAGE> tag if drill-down has occurred.

_OPEN_WEBOUT_FOR_SPDSHT_ Method

Opens the _WEBOUT file in output mode for the spreadsheet

Syntax

CALL SEND(OBJID,'_OPEN_WEBOUT_FOR_SPDSHT_');

_OUTPUT_ACROSS_LIST_ Method

Outputs a label and HTML tags for a selection list

Syntax

CALL SEND(OBJID,'_OUTPUT_ACROSS_LIST_',*across-variable*);

Required Argument

across-variable
the previously selected across variable. This parameter is optional.

Type: Character

Details

This method outputs

- the across label for the selection list
- a <SELECT> tag for the variable list
- an <OPTION> tag for each available variable
- the closing </SELECT> tag.

Example

The following output is produced:

```
Across:<BR>
<SELECT NAME="ac" SIZE=3 MULTIPLE onChange="change(document.mF.ac)">
<OPTION VALUE=" ">
<OPTION SELECTED VALUE=Product+Line>Product Line (hier)
```

```
<OPTION VALUE=Geographic>Geographic (hier)
<OPTION VALUE=Time>Time (hier)
<OPTION VALUE=COUNTRY>Country
<OPTION VALUE=COUNTY>County
<OPTION VALUE=MONTH>Month
<OPTION VALUE=PRODTYPE>Product Type
<OPTION VALUE=PRODUCT>Product
<OPTION VALUE=QUARTER>Quarter
<OPTION VALUE=STATE>State/Province
<OPTION VALUE=YEAR>Year
</SELECT>
```

_OUTPUT_ADDTL_CLSVAL_PARMS_ Method

Adds additional URL parameters to the JavaScript function

Syntax

CALL SEND(OBJID,"_OUTPUT_ADDTL_CLSVAL_PARMS_');

Details

This stub method is called from the _OUTPUT_CLASSVAL_URL_FN_ method.

_OUTPUT_ADDTL_RT_PARMS_ Method

Adds additional URL parameters to the reach-through links

Syntax

CALL SEND(OBJID,'_OUTPUT_ADDTL_RT_PARMS_');

Details

This stub method is called from the _OUTPUT_REACHTHRU_URL_FN_ method.

_OUTPUT_ADDTOFAV_FUNCTION_ Method

Outputs the addtofav JavaScript function on the Toolbar page

Syntax

CALL SEND(OBJID,'_OUTPUT_ADDTOFAV_FUNCTION_');

Details

When a user clicks the **Bookmark** button, the addtofav function saves the URL in the browser's bookmark list.

Example

The following output is produced:

```
function addtofav(varName){
  LinkName=window.document.title;
  with (window.parent.table_window) {
    linkUrl=eval(varName);
  }
  window.external.AddFavorite(linkUrl,LinkName);
}
```

_OUTPUT_ALL_URL_ITEMS_ Method

Outputs the parameters for the getUrl JavaScript function that builds the URL for the report request

Syntax

CALL SEND(OBJID,'_OUTPUT_ALL_URL_ITEMS_',*service-name*,*next-program*);

Required Arguments

service-name
the Application Broker service value.

Type: Character

next-program
the next SCL program to execute.

Type: Character

_OUTPUT_ANAL_LIST_ Method

Outputs a label and HTML tags for a selection list

Syntax

CALL SEND(OBJID,'_OUTPUT_ANAL_LIST_');

Details

This method outputs

- the analysis label for the selection list
- a <SELECT> tag for the variable list
- an <OPTION> tag for each available variable
- the closing </SELECT> tag.

Example

The following output is produced:

```
<TR><TD CLASS="label"> Analysis:<DIV CLASS="analysis">
><SELECT NAME="A" MULTIPLE SIZE=3>
<OPTION SELECTED VALUE=ACTUAL>Actual Sales
<OPTION VALUE=PREDICT>Predicted Sales
</SELECT>
</DIV>
</TD>
</TR>
```

_OUTPUT_ANAL_SELECT_ Method

Outputs the <SELECT> tag and OPTIONS for the Analysis variable list box

Syntax

CALL SEND(OBJID,'_OUTPUT_ANAL_SELECT_',*tblflag*,*selvar*);

Required Arguments

tblflag

a flag that indicates whether the list is in a table, where 1=the output is in the table and 0=the output is not in the table.

Type: Character

selvar

the analysis variable to mark SELECTED.

Type: Character

Example

The following output is produced:

```
<DIV CLASS="analysis">
><SELECT NAME="A" MULTIPLE SIZE=3>
<OPTION SELECTED VALUE=ACTUAL>Actual Sales
<OPTION VALUE=DIFF>Sales Lag
<OPTION VALUE=PREDICT>Predicted Sales
<OPTION VALUE=SALESRAT>Sales Ratio
</SELECT>
</DIV>
```

_OUTPUT_ARROW_FUNCTIONS_ Method

Outputs the moveall and movesel JavaScript functions on the Dimensions page

Syntax

CALL SEND(OBJID,'_OUTPUT_ARROW_FUNCTIONS_');

Details

The moveall and movesel functions update the available and selected statistics list boxes as the user makes statistic selections for the report display.

Example

The following output is produced:

```
function moveall(fromlistbox,tolistbox) {
pos=0;
if (fromlistbox.options.length!=0) {
   pos=tolistbox.options.length;
   for (i=0; ifromlistbox.options.length; i++) {
      if (from<listbox.options[i].value!="" && fromlistbox.options[i].value!="MIXED") {
         tolistbox.options[pos]=new Option(statslabellist[fromlistbox.options[i].value],
         fromlistbox.options[i].value);
         pos++;
      }
   }
}
fromlistbox.options.length=0;
stats(document.mf.sa,document.mf.s);
}

function movesel(fromlistbox,tolistbox) {
pos=0; index=0; newlength=0;
if (fromlistbox.options.length!=0) {
   pos = tolistbox.options.length;
   var listofstats = new Array();
   j = 0;
   for (i=0; i < fromlistbox.options.length; i++) {
      if (fromlistbox.options[i].selected==false && fromlistbox.options[i].value!="MIXED"
         && fromlistbox.options[i].text!="") {
         listofstats[j]=fromlistbox.options[i].value;
         j++;
      }
   }

   for (j=0; j < fromlistbox.length; j++) {
      if (fromlistbox.options[j].selected && fromlistbox.options[j].text!="" &&
         fromlistbox.options[j].value!="MIXED") {tolistbox.options[pos]=new
         Option(statslabellist[fromlistbox.options[j].value],
         fromlistbox.options[j].value);
         pos++;
      }
   }
   remstatanal(fromlistbox);
   if (num > 1) {
      j=0;
      fromlistbox.options[j]=new Option(statslabellist["MIXED"],"MIXED");
   }
   else
      j=-1;

   for (i=0; i < listofstats.length; i++) {
```

```
      j++;
      if ( j==listofstats.length )
         break;
      else
         fromlistbox.options[j]=new Option(statslabellist[listofstats[i]],
         listofstats[i]);
   }
}
   stats(document.mf.sa,document.mf.s);
}
```

_OUTPUT_BAR_SHAPE_LIST_ Method

Outputs the graph bar shape option on the Options page

Syntax

CALL SEND(OBJID,'_OUTPUT_BAR_SHAPE_LIST_',*bar-shape*,*vier-report-flag*);

Required Arguments

bar-shape
the currently selected graph bar shape.

Type: Character

view-report-flag
the **View Report** flag.

Type: Numeric

Example

```
barshape='HEXAGON';
vrflag=1;
call send(webid,'_OUTPUT_BAR_SHAPE_LIST_',barshape,vrflag);
```

The following output is produced:

```
<TD CLASS="label">Bar Shape:
<SELECT NAME="BS" CLASS="select">
<OPTION VALUE=Block>Block
<OPTION VALUE=Cylinder>Cylinder
<OPTION SELECTED VALUE=Hexagon>Hexagon
<OPTION VALUE=Prism>Prism
<OPTION VALUE=Star>Star
```

_OUTPUT_BOOKMARK_BUTTON_ Method

Outputs the Bookmark button on the toolbar when Access Control is enabled

Syntax

CALL SEND(OBJID,'_OUTPUT_BOOKMARK_BUTTON_');

_OUTPUT_BOOKMARK_URL_ Method

Outputs the bookmarkURL JavaScript string on the Report page for the **Bookmark** button URL

Syntax

CALL SEND(OBJID,'_OUTPUT_BOOKMARK_URL_',*vrflag*,*url*, *service-name*,*analysis-variable*, *statistic*,*down-variable*,*graph-type*, *background-type*,*background-value*,*title*, *webeis-class*);

Required Arguments

vrflag
the **View Report** button flag.
Type: Numeric

url
the Application Broker component of the URL.
Type: Character

service-name
the Application Broker service value.
Type: Character

analysis-variable
the analysis variable to graph.
Type: Character

statistic
the statistic to graph.
Type: Character

down-variable
the down variable to graph.
Type: Character

graph-type
the graph type (BLOCK, HBAR, PIE, PLOT, or VBAR).
Type: Character

background-type
the background type (IMAGE or COLOR). This value is optional.
Type: Character

background-value
the background value. This value is optional.
Type: Character

title
the HTML page title.
Type: Character

webeis-class
the WEBEIS class name.

Type: Character

Example

```
vrflag=1;
url='/cgi-bin/broker';
service='default';
grphvar='ACTUAL';
grphstat='SUM';
grphdown='COUNTRY';
grphtype='VBAR';
bgtype='COLOR';
bg='yellow';
title='1995 Sales Report';
webcls='SASHELP.WEBEIS.WEBEIS';
call send(_self_,'_OUTPUT_BOOKMARK_URL_',vrflag,url,service,grphvar,grphstat,
          grphdown,grphtype,bgtype,bg,title,webcls);
```

The following output is produced:

```
bookmarkURL=
   "http://mywebserver/cgi-bin/broker/.csv?_PROGRAM=SASHELP.WEBEIS.SHOWRPT.SCL
   &_SERVICE=default&_DEBUG=0&MDDB=SASHELP.PRDMDDB&METABASE=SASHELP&D=COUNTRY
   &AC=YEAR&A=ACTUAL&A1S1=SUM&BGTYPE=COLOR&BG=YELLOW&GRT=VBAR&DC=1&ACB=1
   &ST=1&GL=1&GSC=1&SSL=1&SH=3&SW=15&GH=450&GW=600&DP=1"
```

_OUTPUT_CLASSVAL_URL_FN_ Method

Outputs the CLSVAL JavaScript function on the Report page

Syntax

CALL SEND(OBJID,'_OUTPUT_CLASSVAL_URL_FN_', *service-name*, *analysis-variable*, *statistic*, *across-variable*,*by-type*, *webcls*, *by-value*, *URL*, *title*, *vrflag*);

Required Arguments

service-name
the Application Broker service value.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

statistic
the statistic to graph.

Type: Character

across-variable
the across variable to graph.

Type: Character

background-type
the background type (IMAGE or COLOR). This value is optional.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

background-value
the background value. This value is optional.

Type: Character

title
the HTML page title.

Type: Character

url
the Application Broker component of the URL.

Type: Character

vrflag
the **View Report** bottom flag.

Type: Character

Details

This is a stub method.

Example

```
service= 'default';
grphvar='ACTUAL';
grphstat='SUM'
across='TEAR';
bgtype= 'COLOR';
bg= 'YELLOW';
title= '1995 Sales Report';
webcls= 'SASHELP.WEBCAT.MYWEB.CLASS';
url='/cgi-bin/broker';
vrflag=1;
call send(webid,'_OUTPUT_CLASSVAL_URL_FN_',service,grphvar, grphstat,across,bytype,
   webcls,by,url,title,vrflag)'
```

The following output is produced:

```
</TD></TR>
</FORM>
</TD></TR>
<TR><TD>><HR><A HREF="http://www.test.com/mddbpage.html">Select New
File</A></TD></TR>
```

_OUTPUT_CLICKABLE_GRAPH_ Method

Outputs the <APPLET> tag for the 3-D clickable graph

Syntax

CALL SEND(OBJID,'_OUTPUT_CLICKABLE_GRAPH_',*url*, *service-name*,*graph-type*, *analysis-variable*, *statistic*,*down-variable*, *across-variable*, *webcls*, *bg-type*, *bg-value*, *bar-shape*);

Required Arguments

url
the Application Broker component of the URL.
Type: Character

service-name
the Application Broker service value.
Type: Character

graph-type
the graph type (BLOCK, HBAR, PIE, PLOT, or VBAR).
Type: Character

analysis-variable
the analysis variable to graph.
Type: Character

statistic
the statistic to graph.
Type: Character

down-variable
the down variable to graph.
Type: Character

across-variable
the across variable to graph.
Type: Character

webeis-class
the WEBEIS class name.
Type: Character

background-type
the background type (IMAGE or COLOR). This value is optional.
Type: Character

background-value
the background value. This value is optional.
Type: Character

bar-shape
the graph bar shape (Block, Cylinder, Hexagon, Prism, or Star).
Type: Character

Details

In addition, the method outputs the Drive Applet Javascript function that initializes this graph.

Example

```
url='/cgi-bin/broker';
graphtype=' ';
service= 'default';
grphvar='ACTUAL';
grphstat='SUM';
down='COUNTRY';
across='YEAR';
bgtype= 'COLOR';
bg= 'YELLOW';
title= '1995 Sales Report';
webcls= 'SASHELP.WEBCAT.MYWEB.CLASS';
barshape='Star';
call send(webid, barshape='Star', '_OUTPUT_CLICKABLE_GRAPH_', url, service,
          grphtype, grphvar, grphstat, down, across, webcls, bgtype,
          by, barshape);
```

The following output is produced:

```
</TD></TR>
</FORM>
</TD></TR>
<TR><TD>><HR><A HREF="http://www.test.com/mddbpage.html">Select New
File</A></TD></TR>
```

_OUTPUT_CONTENT_HEADER_ Method

Outputs the "text/html" content-type header

Syntax

CALL SEND(OBJID,'_OUTPUT_CONTENT_HEADER_');

_OUTPUT_CSV_CONTENT_HEADER_ Method

Outputs the content-type header for the CSV form

Syntax

CALL SEND(OBJID,'_OUTPUT_CSV_CONTENT_HEADER_');

_OUTPUT_DEBUG_LIST_ Method

Outputs a default debug value selection list

Syntax

CALL SEND(OBJID,'_OUTPUT_DEBUG_LIST_');

_OUTPUT_DEFLT_TITLE_OPTION_ Method

Outputs a text input field to specify a default title

Syntax

CALL SEND(OBJID,'_OUTPUT_DEFLT_TITLE_OPTION_');

Example

The following output is produced:

```
<TR>
<TD CLASS="label">1998 Sales Report</TD>:
<TD><INPUT NAME="DT" CLASS="SELECT" TYPE=TEXT
   SIZE=30 MAXLENGTH=200></TD>
</TR>
```

_OUTPUT_DIMBTN_URL_FN_ Method

Outputs the dimbtnurl JavaScript function in the Dimensions and Options toolbar page

Syntax

CALL SEND(OBJID,'_OUTPUT_DIMBTN_URL_FN_',*url*);

Details

The dimbtnurl function is called when the **Dimensions** button is pressed.

Example

The following output is produced:

```
function dimbtnurl() {
   with (window.parent.main.document.options) {
      var limit = elements.length;
      href = "/cgi-bin/broker?_PROGRAM=SASHELP.WEBEIS.LAYOUT.SCL";
      for (i=0; i<limit; i++) {
         if (elements[i].value != "") {
            if (elements[i].name == "_PROGRAM" || elements[i].name == "VIEW")
               continue;
            var thisvar=elements[i].name.toUpperCase();
            if (thisvar == "SV") {
               var sellength = elements[i].options.length;
               var numselected = 0;
               for (j=0; j<sellength; j++) {
                  if (elements[i].options[j].selected) {
                     numselected++;
                     if (numselected == 1) {
```

```
                        href += "&" + elements[i].name + "=" +
                        elements[i].options[j].value;
                     }
                     href += "&" + elements[i].name + eval(numselected) + "=" +
                     elements[i].options[j].value;
                  }
               }
               if (numselected > 0) {
                  href += "&" + elements[i].name + "0=" + eval(numselected);
               }
            }
            else {
               href += "&" + elements[i].name + "=" + elements[i].value;
            }
         }
      }
   }
   return href;
}
```

_OUTPUT_DIMENSIONS_BUTTON_ Method

Outputs the <A> and <IMAGE> tags for the **Dimensions** button on the Layout toolbar page

Syntax

CALL SEND(OBJID,'_OUTPUT_DIMENSIONS_BUTTON_');

Example

The following output is produced:

```
<A href="../mddbapp.hlp/" onClick="this.href=dimbtnurl();" TARGET="main">
<IMG CLASS="imglay" SRC="http://mywebserver/images/btn_dim.gif" ALT="Dimensions"
   BORDER=0></A>
```

_OUTPUT_DOWN_LIST_ Method

Outputs a label and HTML tags for a selection list

Syntax

CALL SEND(OBJID,'_OUTPUT_DOWN_LIST_',*down-variable*,*url*);

Required Arguments

down-variable

the previously selected down variable. This parameter is optional.

Type: Character

url

the Application Broker component of the URL. This parameter is optional.

Type: Character

Details

This method outputs

- the Down label for the selection list
- a <SELECT> tag for the variable list
- an <OPTION> tag for each available variable
- the closing </SELECT> tag.

Example

The following output is produced:

```
Down: <BR>
<SELECT NAME="d" SIZE=3 MULTIPLE onChange="change(document.mF.d)">
<OPTION SELECTED VALUE=Geographic>Geographic (hier)
<OPTION VALUE=Product+Line>Product Line (hier)
<OPTION VALUE=Time>Time (hier)
<OPTION VALUE=COUNTRY>Country
<OPTION VALUE=COUNTY>County
<OPTION VALUE=MONTH>Month
<OPTION VALUE=PRODTYPE>Product Type
<OPTION VALUE=PRODUCT>Product
<OPTION VALUE=QUARTER>Quarter
<OPTION VALUE=STATE>State/Province
<OPTION VALUE=YEAR>Year
</SELECT>
```

_OUTPUT_DP_TITLE_OPTION_ Method

Outputs radio buttons for the Show Drillpath option in the Table list box

Syntax

CALL SEND(OBJID,'_OUTPUT_DP_TITLE_OPTION_');

Example

The following output is produced:

```
<TR>
<TD CLASS='Label">Show Drillpath</TD>
<TD>
<INPUT NAME="DP" CLASS="select" TYPE=RADIO VALUE="1" CHECKED>Yes
<INPUT NAME="DP" CLASS="select" TYPE=RADIO VALUE="2" CHECKED>No
</TD>
</TR>
```

_OUTPUT_DS2HTM_HTML_ Method

Outputs the HTML for the reach-through to the detail data page

Syntax

CALL SEND(OBJID,'_OUTPUT_DS2HTM_HTML_',*dataset-name*, *background*,*url*, *service-name*, *dataset-member*, *next-program-library*,*next-program-catalog*,*next-program*, *debug-value*,*where-clause*);

Required Arguments

dataset-name
the base table data set name.
Type: Character

background
the HTML background value.
Type: Character

url
the Application Broker component of the URL.
Type: Character

service-name
the Application Broker service value.
Type: Character

dataset-member
the data set name (for example, PRDSALE).
Type: Character

next-program-library
the library for the download to spreadsheet program.
Type: Character

next-program-catalog
the catalog for the download to spreadsheet program.
Type: Character

next-program
the next SCL program to execute to display additional rows of data.
Type: Character

debug-value
the Application Broker debug value.
Type: Character

where-clause
the WHERE clause to apply to the data.
Type: Character

Example

```
dataset='SASHELP.PRDSALE';
bgchar='BGCOLOR=YELLOW';
url='/cgi-bin/broker';
service='default';
member='PRDSALE';
pgmlib='SASHELP';
pgmcat='WEBEIS';
program='SASHELP.WEBEIS.DS2HTM.SCL';
debug='0';
where='COUNTRY=CANADA';
call send(webid,'_OUTPUT_DS2HTM_HTML_',dataset,bgchar,url,service,member,pgmlib,pdmcat,
program,debug,where);
```

_OUTPUT_DS2HTM_ST_ Method

Outputs the DS2HTM statement to generate the detail data table

Syntax

CALL SEND (OBJID,'_OUTPUT_DS2HTM_ST_',*dataset-name*, *variable-string*,*startat*, *number-of-rows*, *total-rows*);

Required Arguments

dataset-name
the base table data set name.

Type: Character

variable-string
the selected variables to display, separated by spaces.

Type: Character

startat
the starting row to display.

Type: Numeric

number-of-rows
the number of rows to display.

Type: Numeric

total-rows
the total number of rows of detail data.

Type: Numeric

Example

```
dataset='SASHELP.PRDSALE';
varchar='COUNTRY ACTUAL PREDICT';
startat=1;
atatime=50;
```

```
numrows=480;
call send(webid,'_OUTPUT_DS2HTM_ST_',dataset,varchar,startat,atatime,numrows);
```

_OUTPUT_DYNAMIC_HIDDEN_FLDS_ Method

Outputs the necessary hidden fields for the initial dynamic HTML page

Syntax

CALL SEND(OBJID,'_OUTPUT_DYNAMIC_HIDDEN_FLDS_',*metabase*, *background-value*, *background-type*,*service*, *debug*,*title*,*webeis-class*);

Required Arguments

metabase
the metabase name.

Type: Character

background-value
the background image URL or color value. This value is optional.

Type: Character

background-type
the background type (COLOR or IMAGE). This value is optional.

Type: Character

service
the application server service.

Type: Character

debug
the debug level.

Type: Character

title
the HTML page title.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

Example

```
metabase='SASHELP.MBEIS';
bgtype='color';
bg='yellow';
service='default';
debug=0;
title='1997+Sales+Reports';
webcls='SASHELP.WEBEIS.WEBEIS';
call send(webid,'_OUTPUT_DYNAMIC_HIDDEN_FLDS_',metabase,bgtype,bg,
          service,debug,title,webcls);
```

The following output is produced:

```
<INPUT TYPE="hidden" NAME="metabase" VALUE="SASHELP.MBEIS">
<INPUT TYPE="hidden" NAME="_program" VALUE="sashelp.webeis.mddbrpts.scl">
<INPUT TYPE="hidden" NAME="bgtype" VALUE="color">
<INPUT TYPE="hidden" NAME="bg" VALUE="yellow">
<INPUT TYPE="hidden" NAME="_service" VALUE="default">
<INPUT TYPE="hidden" NAME="debug" VALUE="0">
<INPUT TYPE="hidden" NAME="title" VALUE="1997+Sales+Reports">
<INPUT TYPE="hidden" NAME="class" VALUE="SASHELP.WEBEIS.WEBEIS">
```

_OUTPUT_EMPTY_CELL_ Method

Outputs an empty cell in the HTML table

Syntax

CALL SEND(OBJID,'_OUTPUT_EMPTY_CELL_',*spannum*,*dlflag*,*cssclass*);

Required Arguments

spannum
the number of columns to span.

Type: Numeric

dlflag
a flag that indicates whether to download the table to a spreadsheet where 0output HTML tags with data values and 1output data values with spreadsheet delimiters.

Type: Numeric

cssclass
the class name for the cascading style sheet class tag. This parameter is optional.

Type: Character

_OUTPUT_EMPTY_SERVICE_LIST_ Method

Outputs an empty service list

Syntax

CALL SEND(OBJID,'_OUTPUT_EMPTY_SERVICE_LIST_');

Details

This method outputs

- the <SELECT> tag
- an example <OPTION> tag with comments that instruct users to edit or add <OPTION> tags for their services.

_OUTPUT_GRAPH_DIMS_OPTION_ Method

Outputs text fields for specifying the graph's width and height

Syntax

CALL SEND(OBJID,'_OUTPUT_GRAPH_DIMS_OPTION_');

Example

The following output is produced:

```
<TR><TD CLASS="label">Width</TD><TD><INPUT TYPE=text
   NAME="gw" CLASS="select" SIZE=4 MAXLENGTH=4 VALUE="600"></TD></TR>
<TR><TD CLASS="label">Height</TD><TD><INPUT TYPE=text
   NAME="gh" CLASS="select" SIZE=4 MAXLENGTH=4 VALUE="450"></TD></TR>
```

_OUTPUT_GRAPH_INSTR_ Method

Outputs the Change Graph Type instructions and the **Apply** button

Syntax

CALL SEND(OBJID,'_OUTPUT_GRAPH_INSTR_');

Details

This method outputs

- the Change Graph Type instructions to the HTML
- the **Apply** button to the HTML.

_OUTPUT_GRAPH_LIST_ Method

Outputs the list of graph types

Syntax

CALL SEND(OBJID,'_OUTPUT_GRAPH_LIST_',*grphtype*,*vrflag*);

Required Arguments

grphtype
the previously selected graph type.

Type: Character

vrflag
the **View Report** button flag, which takes the following values:

1 **View Report** button click on previous action.

0 No **View Report** button click on previous action.

Type: Numeric

Details

This method outputs

- the <SELECT> tag
- an <OPTION> tag for each graph type.

Example

The following output is produced:

```
<TR><TD CLASS="label">Type</TD>
<TD><SELECT NAME="grt" CLASS="select">
<OPTION SELECTED VALUE=NONE>None
<OPTION VALUE=VBAR>Vertical bar
<OPTION VALUE=BLOCK>Block
<OPTION VALUE=HBAR>Horizontal bar
<OPTION VALUE=PIE>Pie
<OPTION VALUE=PLOT>Plot
```

_OUTPUT_GRAPH_LOC_OPTION_ Method

Outputs a selection list for the Graph Location option

Syntax

CALL SEND(OBJID,'_OUTPUT_GRAPH_LOC_OPTION_');

Example

The following output is produced:

```
<TR><TD CLASS="label">Location</TD>
<TD><SELECT NAME="gl" CLASS="select"><OPTION VALUE="1" SELECTED>Bottom
<OPTION VALUE="2">Top
<OPTION VALUE="3">Left
<OPTION VALUE="4">Right
</SELECT></TD></TR>
```

_OUTPUT_GRAPH_OPTION_ Method

Outputs an OPTION tag for the Graph Type selection list

Syntax

CALL SEND(OBJID,'_OUTPUT_GRAPH_OPTION_',*grtype*,*grmsg*,*groption*);

Required Arguments

grtype
the previously selected graph type.

Type: Character

grmsg
the mnemonic of the graph type message.

Type: Character

groption
the value for the <OPTION> tag.

Type: Character

_OUTPUT_GRAPH_SOURCE_OPTION_ Method

Outputs radio buttons for the Graph Source option

Syntax

CALL SEND(OBJID,'_OUTPUT_GRAPH_SOURCE_OPTION_');

Example

The following output is produced:

```
<TR><TD CLASS="label">Graph Source</TD>
<TD>
<INPUT NAME="GSC" CLASS="select" TYPE=RADIO VALUE="1" CHECKED>3D Clickable Graph
<INPUT NAME="GSC" CLASS="select" TYPE=RADIO VALUE="2">Standard GIF Graph
</TD>
</TR>
```

_OUTPUT_GRAPH_TABLE_DISP_ Method

Outputs the check boxes on the Options page for the Display Table and Display Graph options

Syntax

CALL SEND(OBJID,'_OUTPUT_GRAPH_TABLE_DISP_');

Example

The following output is produced:

```
<TD CLASS="label" COLSPAN="2"><INPUT NAME="ST" TYPE=CHECKBOX VALUE="1"
   CHECKED>Display Table&;INPUT NAME="SG" TYPE=CHECKBOX VALUE="1">Display Graph
</TD>
```

_OUTPUT_HDR_ Method

Outputs the opening tags for the Report Layout page

Syntax

CALL SEND(OBJID,'_OUTPUT_HDR_',*url*,*background-type*,*background-value*);

Required Arguments

url
the Application Broker component of the URL.

Type: Character

background-type
the background type (COLOR or IMAGE). This parameter is optional.

Type: Character

background-value
the background value. This parameter is optional.

Type: Character

Example

The following output is produced:

```
<HTML><HEAD><TITLE>MDDB Report Viewer Layout</TITLE>
<script language="javascript">

function List(list) {
   for (key in list)
      if (list[key] != null) this[key]= list[key];
}

selected= new List;
selected2= new List;
function change(select) {
   if ((navigator.appName == "Netscape" &&
        navigator.appVersion.indexOf("3.0") != -1) ||
       (navigator.appName == "Microsoft Internet Explorer" &&
        navigator.appVersion.indexOf("4.0") != -1)) {
      options= new Object;
      for (i= 0; i < select.options.length; i++) {
         options[select.options[i].text]=select.options[i].value;
         selected[select.options[i].text]=
            select.options[i].selected ? select.options[i].value : null;
      }
      selected= new List(selected);
      select.options.length= 0;
```

```
      for (key in selected)
         select.options[select.options.length]=
            new Option(key, selected[key], false, true);
      for (key in options)
         if (selected[key] == null)
            select.options[select.options.length]=
               new Option(key, options[key]);
   }
}

function update() {
   str= "";
   for (key in selected)
      str= str + key + ",";
   if (str.length)
      document.form.order.value= str.substring(0, str.length - 1);
}

</SCRIPT>
</HEAD>
<BODY BGCOLOR=white>
<CENTER>
<TABLE CELLSPACING=1 BORDER=1>
```

_OUTPUT_HELP_BUTTON_ Method

Outputs the **Help** button on the toolbar

Syntax

CALL SEND(OBJID,'_OUTPUT_HELP_BUTTON_';);

Details

This method outputs the HTML tags for the **Help** button hypertext link and the **Help** button image.

Example

The following output is produced:

```
<A HREF="http://support.sas.com/rnd/web/intrnet/mddbapp/hinttips.html" TARGET="_blank">
<IMG CLASS="imghelp" SRC="/my_images/btn_hlp.gif" ALT="Help" BORDER=0></A>
```

_OUTPUT_HIDDEN_FIELDS_ Method

Outputs the HTML hidden fields on the tabular report that are necessary for processing the next user action

Syntax

CALL SEND(OBJID,'_OUTPUT_HIDDEN_FIELDS_',*across-variable*, *statistic-variable*, *analysis-variable*,*initial-url*, *service*,*bgtype*,*bg*,*title*, *webcls*);

Required Arguments

across-variable
the across value to graph.

Type: Character

statistic-variable
the statistic to graph.

Type: Character

analysis-variable
the variable to graph.

Type: Character

initial-url
the URL of the initial HTML page.

Type: Character

service
the Application Broker service.

Type: Character

background-type
the background type (IMAGE or COLOR). This parameter is optional.

Type: Character

background-value
the background value. This parameter is optional.

Type: Character

title
the title for the HTML page. This parameter is optional.

Type: Character

webcls
the WEBEIS class name (for subclassing).

Type: Character

Example

The following output is produced:

```
<INPUT TYPE="hidden" NAME="_SERVICE" value="default">
<INPUT TYPE="hidden" NAME="_DEBUG" value="2">
<INPUT TYPE="hidden" NAME="MDDB" value="SASHELP.PRDMDDB">
<INPUT TYPE="hidden" NAME="METABASE" value="SASHELP.MBEIS">
<INPUT TYPE="hidden" NAME="BGTYPE" value="color">
<INPUT TYPE="hidden" NAME="BG" value="%23FFFFE7">
<INPUT TYPE="hidden" NAME="GRT" value="NONE">
<INPUT TYPE="hidden" NAME="GL" value="1">
<INPUT TYPE="hidden" NAME="GSC" value="1">
<INPUT TYPE="hidden" NAME="SSL" value="1">
<INPUT TYPE="hidden" NAME="ST" value="1">
```

```
<INPUT TYPE="hidden" NAME="SH" value="3">
<INPUT TYPE="hidden" NAME="SW" value="15">
<INPUT TYPE="hidden" NAME="GH" value="450">
<INPUT TYPE="hidden" NAME="GW" value="600">
<INPUT TYPE="hidden" NAME="DC" value="1">
<INPUT TYPE="hidden" NAME="ACB" value="1">
<INPUT TYPE="hidden" NAME="DP" value="1">
```

_OUTPUT_HIDDEN_VARS_ Method

Outputs the filter variables, analysis variables, and statistics as HTML hidden fields for the filter form

Syntax

CALL SEND(OBJID,'_OUTPUT_HIDDEN_VARS_');

_OUTPUT_HTML_AFTER_BODY_ Method

Enables users to add HTML tags to the Report page

Syntax

CALL SEND(OBJID,'_OUTPUT_HTML_AFTER_BODY_');

Details

This stub method is called after the <BODY> tag is output for the Report page.

_OUTPUT_HTML_BEF_CLOSE_BODY_ Method

Enables users to add HTML tags to the end of the Report page

Syntax

CALL SEND(OBJID,'_OUTPUT_HTML_BEF_CLOSE_BODY_');

Details

This stub method is called before the </BODY> tag is output for the Report page.

_OUTPUT_HTML_FORM_HEADER_ Method

Outputs the opening tags for the static HTML page

Syntax

CALL SEND(OBJID,'_OUTPUT_HTML_FORM_HEADER_',*title*,*cgi*, *background-value*, *background-type*);

Required Arguments

title
an optional title for the page.
Type: Character

cgi
the Application Broker component for the <ACTION> tag.
Type: Character

background-value
the background image URL or color value. This parameter is optional.
Type: Character

background-type
the background type (COLOR or IMAGE). This parameter is optional.
Type: Character

Details

This method

- outputs the opening HTML page tags
- outputs the <BODY> tag with the appropriate background parameters
- outputs a title
- outputs the <FORM> tag.

_OUTPUT_LAYOUT_BUTTON_ Method

Outputs the **Layout** button on the toolbar to enable users to return to the Variable Selection page

Syntax

CALL SEND(OBJID,'_OUTPUT_LAYOUT_BUTTON_');

Details

This method outputs the HTML tags for the **Layout** button hypertext link and the **Layout** button image.

Example

The following output is produced:

```
<A href="../mddbapp.hlp/"
   onClick="this.href=clsurl('_PROGRAM=SASHELP.WEBEIS.MDDBRPTS.SCL')" TARGET="_parent">
<IMG CLASS="imglay" SRC="/my_images/btn_lay.gif" ALT="Layout" BORDER=0></A>
```

_OUTPUT_LAYOUT_FRAME_ Method

Outputs the <FRAME> tag for the Dimensions page

Syntax

CALL SEND(OBJID,'_OUTPUT_LAYOUT_FRAME_',*url*,*service-name*, *background-type*, *graph-type*,*background-value*, *analysis-variable*,*statistic*,*down-variable*, *across-variable*);

Required Arguments

url
the Application Broker component of the URL.

Type: Character

service-name
the Application Broker service value.

Type: Character

background-type
the background type (IMAGE or COLOR). This parameter is optional.

Type: Character

graph-type
the graph type (BLOCK, HBAR, PIE, PLOT, or VBAR).

Type: Character

background-value
the background value. This parameter is optional.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

statistic
the statistic to graph.

Type: Character

down-variable
the down variable to graph.

Type: Character

across-variable
the across variable to graph.

Type: Character

Example

```
url='/cgi-bin/broker';
service='default';
grphvar='ACTUAL';
grphstat='SUM';
grphdown='COUNTRY';
```

```
grphacr='YEAR';
grphtype='VBAR';
bgtype='COLOR';
bg='YELLOW';
call send(_self_,'_OUTPUT_LAYOUT_FRAME_',url,service,bgtype,grphtype,bg,grphvar,grphstat,
         grphdown,grphacr);
```

The following output is produced:

```
<FRAME NAME="main"
   SRC="/cgi-bin/broker?_program=sashelp.webeis.layout.scl&_service=default
   &_debug=0&mrvdebug=2&mddb=SASHELP.PRDMDDB&metabase=SASHELP&D=COUNTRY&AC
   =YEAR&A=ACTUAL&A1S1=SUM&GRT=VBAR&BGTYPE=COLOR&BG=YELLOW&GV=ACTUAL&GS
   =SUM&GD=COUNTRY&GA=YEAR&DC=1&ACB=1">
```

_OUTPUT_LAYOUT_TOOLBAR_ Method

Outputs the **Dimensions** and **Options** buttons on the Layout toolbar page

Syntax

CALL SEND(OBJID,'_OUTPUT_LAYOUT_TOOLBAR_');

Example

The following output is produced:

```
<TR>
<TD>
<A href="../mddbapp.hlp/" onClick="this.href=dimbtnurl();" TARGET="main">
<IMG CLASS="imglay" SRC="http://mywebserver/images/btn_lay.gif" ALT="Dimensions"
   BORDER=0></A>
</TD>
<TD>
<A href="../mddbapp.hlp/" onClick="this.href=optbtnurl();" TARGET="main">
<IMG CLASS="imglay" SRC="http://mywebserver/images/btn_lay.gif" ALT="Options"
   BORDER=0></A>
</TD>
</TR>
```

_OUTPUT_LOGOUT_BUTTON_ Method

Outputs the **Logout** button on the toolbar when access control is enabled

Syntax

CALL SEND(OBJID,'_OUTPUT_LOGOUT_BUTTON_');

_OUTPUT_MAIN_TOOLBAR_FRAME_ Method

Outputs the <FRAME> tag for the toolbar on the Dimensions and Options page

Syntax

CALL SEND(OBJID,'_OUTPUT_MAIN_TOOLBAR_FRAME_',*url*,*service-name*, *background-type*, *graph-type*, *background-value*, *analysis-variable*,*statistic*,*down-variable*, *across-variable*);

Required Arguments

url
the Application Broker component of the URL.
Type: Character

service-name
the Application Broker service value.
Type: Character

background-type
the background type (IMAGE or COLOR). This parameter is optional.
Type: Character

graph-type
the graph type (BLOCK, HBAR, PIE, PLOT, or VBAR).
Type: Character

background-value
the background value. This parameter is optional.
Type: Character

analysis-variable
the analysis variable to graph.
Type: Character

statistic
the statistic to graph.
Type: Character

down-variable
the down variable to graph.
Type: Character

across-variable
the across variable to graph.
Type: Character

Example

```
url='/cgi-bin/broker';
service='default';
grphvar='ACTUAL';
```

```
grphstat='SUM';
grphdown='COUNTRY';
grphacr='YEAR';
grphtype='VBAR';
bgtype='COLOR';
bg='YELLOW';
call send(_self_,'_OUTPUT_MAIN_TOOLBAR_FRAME_',url,service,bgtype,grphtype,bg,grphvar,
          grphstat,grphdown,grphacr);
```

The following output is produced:

```
<FRAME NAME="header" SRC="/cgi-bin/broker?_program=sashelp.webeis.header.scl
          &_service=default&_debug=0&mrvdebug=2&mddb=SASHELP.PRDMDDB
          &metabase=SASHELP&D=COUNTRY&AC=YEAR&A=ACTUAL
             &A1S1=SUM&GRT=VBAR&BGTYPE=COLOR&BG=YELLOW
          &GV=ACTUAL&GS=SUM&GD=COUNTRY&GA=YEAR&DC=1
             &ACB=1" SCROLLING="NO">
```

_OUTPUT_MDDB_LIST_ Method

Outputs the list of MDDBs

Syntax

CALL SEND(OBJID,'_OUTPUT_MDDB_LIST_',*mddblist*,*mddb*);

Required Arguments

mddblist
the list of MDDBs.

Type: Numeric

mddb
the currently selected MDDB. This parameter is optional.

Type: Character

Details

This method outputs the <SELECT> and <OPTION> tags for selecting an MDDB.

_OUTPUT_NUMROWS_LINKS_ Method

Outputs the hypertext links beneath a report that enable paging through selected rows in the report

Syntax

CALL SEND(OBJID,'_OUTPUT_NUMROWS_LINKS_');

Example

The following output is produced:

```
p.
1
<A href="../mddbapp.hlp/" onClick="this.href=clsurl
('_PROGRAM=SASHELP.WEBEIS.OPRPT.SCL&SR=26&NR=25');"
onMouseOver="window.status='Display Rows 26-50'; return true" TARGET="_self">2</A>
<A href="../mddbapp.hlp/"onClick="this.href=clsurl
('_PROGRAM=SASHELP.WEBEIS.OPRPT.SCL&SR=51&NR=25');"
onMouseOver="window.status='Display Rows 51-75'; return true" TARGET="_self">3</A>
<A href="../mddbapp.hlp/"onClick="this.href=clsurl
('_PROGRAM=SASHELP.WEBEIS.OPRPT.SCL&SR=76&NR=25');"
onMouseOver="window.status='Display Rows 76-100'; return true" TARGET="_self">4</A>
```

_OUTPUT_NUMROWS_OPTION_ Method

Outputs the radio buttons to select the number of rows in the report table to display

Syntax

CALL SEND(OBJID,'_OUTPUT_NUMROWS_OPTION_');

Example

The following output is produced:

```
<TR>
<TD CLASS="label">Number of Rows</TD>
<TD>
<INPUT NAME="NR" CLASS="select" TYPE=RADIO VALUE="ALL" CHECKED>ALL
<INPUT NAME="NR" CLASS="select" TYPE=RADIO VALUE="1">1
<INPUT NAME="NR" CLASS="select" TYPE=RADIO VALUE="2">2
<INPUT NAME="NR" CLASS="select" TYPE=RADIO VALUE="3">3
</TD>
</TR>
```

_OUTPUT_OPTBTN_URL_FN_ Method

Outputs the optbtnurl JavaScript function in the Dimensions and Options toolbar page

Syntax

CALL SEND(OBJID,'_OUTPUT_OPTBTN_URL_FN_',url);

Details

The optbtnurl function is called when the **Options** button is pressed.

Example

The following output is produced:

```
function optbtnurl() {
   with (window.parent.main.document.mf) {
      var limit = elements.length;
      href = "/cgi-bin/broker?_PROGRAM=SASHELP.WEBEIS.OPTIONS.SCL";
      for (i=0; i<limit; i++) {
         if (elements[i].value != "") {
            if (elements[i].name == "_PROGRAM")
               continue;
            var thisvar=elements[i].name.toUpperCase();
            if (thisvar == "D" || thisvar == "AC" || thisvar == "A") {
               var sellength = elements[i].options.length;
               var numselected = 0;
               for (j=0; j<sellength; j++) {
                  if (elements[i].options[j].selected) {
                     numselected++;
                     if (numselected == 1) {
                        href += "&" + elements[i].name + "=" +
                           elements[i].options[j].value;
                     }
                     href += "&" + elements[i].name + eval(numselected) + "=" +
                        elements[i].options[j].value;
                     if (thisvar == "A") {
                        var href2="";
                        stats=elements[i].options[j].value+"STATS";
                        statsstr="window.parent.main."+stats;
                        statsarray=eval(statsstr);
                        if (statsarray.length==1 && statsarray[0]=="nunique") {
                           href2+="&A" +j +"S" +"=" +"NUNIQUE";
                        }
                        else if (statsarray.length==1 && statsarray[0]!="nunique") {
                           href2+="&A" +j +"S" +"=" +"SUM";
                        }
                        else {
                           var anum=0;
                           for (k=1; k&ltstatsarray.length k++) {
                              anum=j+1;
                              href2+="&A" +anum +"S" +k +"=" +statsarray[k];
                           }
                           var numstats = statsarray.length-1;
                           if (numstats > 1) {
                              href2+="&A" + anum + "S0=" + numstats;
                           }
                        }
                        href += href2;
                     }
                  }
               }
               if (numselected > 0) {
                  href += "&" + elements[i].name + "0=" + eval(numselected);
               }
            }
            else {
               href += "&" + elements[i].name + "=" + elements[i].value;
            }
         }
      }
```

```
    }
    return href;
}
```

_OUTPUT_OPTIONS_BUTTON_ Method

Outputs the <A> and <IMAGE> tags for the **Options** button on the Layout toolbar page

Syntax

CALL SEND(OBJID,'_OUTPUT_OPTIONS_BUTTON_');

Example

The following output is produced:

```
<A href="../mddbapp.hlp/" onClick="this.href=optbtnurl();" TARGET="main">
<IMG CLASS="imglay" SRC="http://mywebserver/images/btn_opt.gif" ALT="Options" BORDER=0>
</A>
```

_OUTPUT_OPTIONS_FORM_ Method

Outputs the HTML <FORM> tag for the Options page

Syntax

CALL SEND(OBJID,'_OUTPUT_OPTIONS_FORM_',*_url*,*message-id*,*graph-type*,*bar-shape*);

Required Arguments

_url
the Application Broker component of the URL.

Type: Character

message-id
the ID of the message system.

Type: Numeric

graph-type
the graph type.

Type: Character

bar-shape
the graph bar shape.

Type: Character

Example

The following output is produced:

```
url='/cgi-bin/broker';
msgid=instance(loadclass('sashelp.fsp.astmsg.class'),1);
grphtype='VBAR';
barshape='HEXAGON';
call send(webid,'_OUTPUT_OPTIONS_FORM_',url,msgid,grphtype,barshape);
```

_OUTPUT_REACHTHRU_LINK_ Method

Outputs the hypertext link for the numeric data in the report to enable reach-through to the detail data

Syntax

CALL SEND(OBJID,'_OUTPUT_REACHTHRU_LINK_,*mbid*,*rowlist*,*rowndx*, *collist*,*colndx*,*curlist*);

Required Arguments

mbid
the ID number of the metabase.

Type: Numeric

rowlist
the row list from the EMDDB_M class.

Type: Numeric

rowndx
the index of the current row in the rowlist.

Type: Numeric

collist
the column list from the EMDDB_M class.

Type: Numeric

colndx
the index of the current column in the collist.

Type: Numeric

curlist
the list of classes and their associated values.

Type: Numeric

Example

The following output is produced:

```
<A href="../mddbapp.hlp/" onClick="this.href=rturl('_WHERE=COUNTRY%3D%22CANADA%22
   &_WHERE=PRODTYPE%3D%22FURNITURE%22')"TARGET="_blank">
```

_OUTPUT_REACHTHRU_URL_FN_ Method

Outputs the RTURL Javascript function that builds the reach-through to detail URLs

Syntax

CALL SEND(OBJID,'_OUTPUT_REACHTHRU_URL_FN_,*service*,*nextpgm*,*dataset*,*bgtype*,*bg*,*url*);

Required Arguments

service
the Application Broker service.

Type: Character

nextpgm
the four-level name of the program to run to display the detail data. The default is SASHELP.WEBEIS.DS2HTM.SCL.

Type: Character

dataset
the name of the data set that contains the detail data.

Type: Character

bgtype
the background type (IMAGE, COLOR, or blank).

Type: Character

bg
the background value.

Type: Character

url
the Application Broker component of the URL.

Type: Character

Example

The following output is produced:

```
function rturl(str) {
   param=new Object;
   param._PROGRAM = "SASHELP.WEBEIS.VARLIST.SCL";
   param._SERVICE = "default";
   param._DEBUG = "2";
   param.MDDB = "SASHELP.PRDMDDB";
   param.METABASE = "SASHELP.MBEIS";
   param.D = "Geographic";
   param.AC = "Product%20Line";
   param.V10="0";
   param.VA10="0";
   param.A = "ACTUAL";
   param.S = "SUM";
   param.NEXTPGM = "SASHELP.WEBEIS.DS2HTM.SCL";
   param.DATASET = "SASHELP.PRDSALE";
   param.BGTYPE = "color";
   param.BG = "%23FFFFE7";
   href = "/cgi-bin/broker?";
   for (name in param) { href += name + "=" + param[name] + "&" }
   if (str) {href += str}
   return href;
}
```

_OUTPUT_REPORT_FRAME_ Method

Outputs the <FRAME> tag to create the frame in which the report is displayed

Syntax

CALL SEND(OBJID,'_OUTPUT_REPORT_FRAME_',*url*,*service*,*bgtype*,*grphtype*,*bg*,*grphvar*, *grphstat*,*grphdown*,*grphacr*,*debug*);

Required Arguments

url
the Application Broker component of the URL.
Type: Character

service
the Application Broker service.
Type: Character

bgtype
the background type (IMAGE, COLOR, or blank).
Type: Character

grphtype
the selected graph type.
Type: Character

bg
the background value.
Type: Character

grphvar
the analysis variable to graph.
Type: Character

grphstat
the statistic to graph.
Type: Character

grphdown
the down dimension variable to graph.
Type: Character

grphacr
the across dimension variable to graph.
Type: Character

debug
the Application Broker debug value.
Type: Character

Example

The following output is produced:

```
<FRAME NAME="table_window" SRC="/cgi-bin/broker?_program=sashelp.webeis.oprpt.scl
   &_service=default&_debug=2&VIEW=View+Report&mddb=SASHELP.PRDMDDB&metabase
   =SASHELP.MBEIS&D=Geographic&AC=Product%2520Line&A=ACTUAL&S=SUM&GRT=VBAR
   &BGTYPE=color&BG=%23FFFFE7&DC=1&ACB=1&ST=1&GL=1&GSC=2&SSL=1&SH=3&SW=15
   &GH=450&GW=600&DP=1">
```

_OUTPUT_REPORT_RADIO_BTNS_ Method

Outputs the Report Selection radio buttons

Syntax

CALL SEND(OBJID,'_OUTPUT_REPORT_RADIO_BTNS_');

_OUTPUT_REPORT_TYPE_SELECT_ Method

Outputs the Report type selection list

Syntax

CALL SEND(OBJID,'_OUTPUT_REPORT_TYPE_SELECT_',*rpttype*);

Required Argument

rpttype
a previously selected report type.
Type: Character

_OUTPUT_ROTATE_BUTTON_ Method

Outputs the **Rotate** button for the two-dimensional report

Syntax

CALL SEND(OBJID,'_OUTPUT_ROTATE_BUTTON_',*viewreport-flag*,*url*, *service*,*initial-url*, *across-variable*,*down-variable*, *analysis-variable*,*statistic-variable*,*down-variable*, *graph-type*,*background-type*,*background-value*,*title*, *webeis-class*,*hideflag*);

Required Arguments

viewreport-flag
the **View Report** button flag.
Type: Numeric

url
the Application Broker component of the URL.
Type: Character

service
the Application Broker service.

Type: Character

initial-url
the URL of the initial HTML page.

Type: Character

across-variable
the across variable that is selected.

Type: Character

down-variable
the down variable that is selected.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

statistic-variable
the statistic to graph.

Type: Character

down-variable
the down variable to graph.

Type: Numeric

graph-type
the selected graph type.

Type: Numeric

background-type
the background type (IMAGE or COLOR). This parameter is optional.

Type: Character

background-value
the background value. This parameter is optional.

Type: Character

title
the HTML title page.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

hideflag
a hidden variables flag. If hideflag = 1, variables are not output. This parameter is optional.

Type: Character

Details

This method outputs an HTML form that contains hidden fields that are necessary to process the rotate request and output the **Rotate** submit button.

Example

The following example illustrates the use of this method:

```
vrflag=1;
_url='/cgi-bin/broker?_PROGRAM=sashelp.webeis.mddbrpts.scl&_SERVICE=default
&_DEBUG=0&RPTTYPE=2&GRTYPE=BLOCK';
service='default';
mddblink='DYNAMIC';
across='Geographic';
down='Product+Line';
avar='ACTUAL';
stat='SUM';
grphdown='';
grtype='BLOCK';
bgtype='color';
bg='yellow';
title='';
webcls='SASHELP.WEBEIS.WEBEIS';
hideflag='1';
call send(webid,'_OUTPUT_ROTATE_BUTTON_',vrflag,_url,service,
          mddblink,across,down,avar,stat,grphdown,grtype,bgtype,
          bg,title,webcls,hideflag);
```

The following output is produced:

```
<A href="../mddbapp.hlp/" onClick="this.href=clsurl('ROTATE=1
   &_PROGRAM=SASHELP.WEBEIS.SHOWRPT.SCL')"TARGET="_parent">
   <IMG CLASS="imgrotate" SRC="/my_images/btn_rot.gif" ALT="Rotate"BORDER=0>
   </A>
```

_OUTPUT_ROTATE_URL_ Method

Outputs the rotateURL JavaScript string on the Report page for the **Rotate** button URL

Syntax

CALL SEND(OBJID,'_OUTPUT_ROTATE_URL_',*vrflag*,*url*,*service-name*, *analysis-variable*, *statistic*,*down-variable*,*graph-type*, *background-type*,*background-value*,*title*,*webeis-class*);

Required Arguments

vrflag
the **View Report** button flag.

Type: Numeric

url
the Application Broker component of the URL.

Type: Character

service-name
the Application Broker service value.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

statistic
the statistic to graph.

Type: Character

down-variable
the down variable to graph.

Type: Character

graph-type
the graph type (BLOCK, HBAR, PIE, PLOT, or VBAR).

Type: Character

background-type
the background type (IMAGE or COLOR). This parameter is optional.

Type: Character

background-value
the background value. This parameter is optional.

Type: Character

title
the HTML page title.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

Example

This example illustrates the use of the method:

```
vrflag=1;
url='/cgi-bin/broker';
service='default';
grphvar='ACTUAL';
grphstat='SUM';
grphdown='COUNTRY';
grphtype='VBAR';
bgtype='COLOR';
bg='yellow';
title='1995 Sales Report';
webcls='SASHELP.WEBEIS.WEBEIS';
call send(_self_,'_OUTPUT_ROTATE_URL_',vrflag,url,service,grphvar,grphstat,
          grphdown,grphtype,bgtype,bg,title,webcls);
```

The following output is produced:

```
rotateURL="http://mywebserver/cgi-bin/broker/.csv?_PROGRAM=SASHELP.WEBEIS.OPRPT.SCL
   &ROTATE=1&_SERVICE=default&_DEBUG=0&MDDB=SASHELP.PRDMDDB&METABASE=SASHELP&D
   =COUNTRY&AC=YEAR&A=ACTUAL&A1S1=SUM&GRT=VBAR&DC=1&ACB=1&ST=1&GL=1&GSC=1
   &SSL=1&SH=3&SW=15&GH=450&GW=600&DP=1"
```

_OUTPUT_SETURL_FUNCTION_ Method

Outputs the seturl JavaScript function in the toolbar page

Syntax

CALL SEND(OBJID,'_OUTPUT_SETURL_FUNCTION_');

Details

This function is called when either the **Rotate** button or the **Download to Spreadsheet** button is pressed.

Example

The following output is produced:

```
function setURL(varName) {
newURL='';
with (window.parent.frames[1]) {
newURL=eval(varName);
}
if (varName == 'downloadURL')
   document.location=newURL;
else if (varName == 'rotateURL')
   window.parent.frames[1].document.location=newURL;
}
function addtofav(varName){
   LinkName=window.document.title;
with (window.parent.table_window) {
linkUrl=eval(varName);
}
   window.external.AddFavorite(linkUrl,LinkName);
}
```

_OUTPUT_SPREADSHEET_BUTTON_ Method

Outputs the **Download to Spreadsheet** button as an image

Syntax

CALL SEND(OBJID,'_OUTPUT_SPREADSHEET_BUTTON_',*vrflag*,*url*, *service*,*grphvar*, *grphstat*,*grphdown*,*grphtype*, *bgtype*,*bg*,*title*,*webcls*);

Required Arguments

vrflag

a flag indicating that the **View Report** button was pressed.

Type: Numeric

url
the Application Broker path.

Type: Character

service
the Application Broker service.

Type: Character

grphvar
the analysis variable to graph.

Type: Character

grphstat
the statistic to graph.

Type: Character

grphdown
the down dimension variable to graph.

Type: Character

grphtype
the graph type.

Type: Character

background-type
the background type (IMAGE or COLOR). This parameter is optional.

Type: Character

background-value
the background value. This parameter is optional.

Type: Character

title
the title. This parameter is optional.

Type: Character

webcls
the WEBEIS class name (for subclassing).

Type: Character

Example

The following example code illustrates the use of this method:

```
vrflag-=1;
url='/cgi-bin/broker';
service='default';
grphvar='ACTUAL';
grphstat='SUM';
grphdown='COUNTRY';
grphtype='VBAR';
bgtype='COLOR';
bg='YELLOW';
title=' ';
webcls=' ';
call send (webid,'_OUTPUT_SPREADSHEET_BUTTON_',vrflag,url,service,grphvar,
          grphstat,grphdown,grphtype,bgtype,bg,title,webcls);
```

The following output is produced:

```
<A HREF="/cgi-test-bin/broker/prdmddb.csv?_service=default&_debug=0
   &_program=sashelp.webeis.oprpt.scl&SPDSHT=X&mddb=SASHELP.PRDMDDB&metabase
   =SASHELP.MBEIS&D=Geographic&AC=Product%20Line&A=ACTUAL&S=SUM&ST=1&GL=1
   &DC=1&ACB=1&DP=1&_SAVEAS=prdmddb.csv" TARGET="_self"><IMG CLASS="imgdown"
   SRC="/my_images/btn_xls.gif"ALT="Download to Spreadsheet" BORDER=0></A>
```

_OUTPUT_SPREADSHEET_URL_ Method

Outputs the URL for the **Download to Spreadsheet** button as a JavaScript text string on the Report page

Syntax

CALL SEND(OBJID,'_OUTPUT_SPREADSHEET_URL_',*vrflag*,*url*,*service-name*, *analysis-variable*,*statistic*,*down-variable*,*graph-type*, *background-type*,*background-value*,*title*, *webeis-class*);

Required Arguments

vrflag
the **View Report** button flag.
Type: Numeric

url
the Application Broker component of the URL.
Type: Character

service-name
the Application Broker service value.
Type: Character

analysis-variable
the analysis variable to graph.
Type: Character

statistic
the statistic to graph.
Type: Character

down-variable
the down variable to graph.
Type: Character

graph-type
the graph type (BLOCK, HBAR, PIE, PLOT, or VBAR).
Type: Character

background-type
the background type (IMAGE or COLOR). This parameter is optional.
Type: Character

background-value
the background value. This parameter is optional.
Type: Character

title
the HTML page title.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

Example

The following example illustrates the use of this method:

```
vrflag=1;
url='/cgi-bin/broker';
service='default';
grphvar='ACTUAL';
grphstat='SUM';
grphdown='COUNTRY';
grphtype='VBAR';
bgtype='COLOR';
bg='yellow';
title='1995 Sales Report';
webcls='SASHELP.WEBEIS.WEBEIS';
call send(_self_,'_OUTPUT_SPREADSHEET_URL_',vrflag,url,service,grphvar,grphstat,
          grphdown,grphtype,bgtype,bg,title,webcls);
```

The following output is produced:

```
downloadURL="http://mywebserver/cgi-bin/broker/prdmddb.csv?_service=default&_debug=0
&_program=sashelp.webeis.oprpt.scl&SPDSHT=X&mddb=SASHELP.PRDMDDB&metabase=SASHELP
&D=COUNTRY&AC=YEAR&A=ACTUAL&A1S1=SUM&DC=1&ACB=1&ST=1&GL=1&GSC=1&SSL=1&SH=3
&SW=15&GH=450&GW=600&DP=1&NR=ALL&BS=Star&_SAVEAS=prdmddb.csv"
```

_OUTPUT_STANDARD_GRAPH_ Method

Outputs the URL that drives the standard GIF Graph request

Syntax

CALL SEND(OBJID,'_OUTPUT_STANDARD_GRAPH_',*url*,*service*, *graph-type*, *analysis-variable*,*statistic-variable*, *down-variable*,*across-variable*,*webcls*);

Required Arguments

url
the URL for the next query.

Type: Character

service
the Application Broker service.

Type: Character

graph-type
the selected graph type.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

statistic-variable
the statistic to graph.

Type: Character

down-variable
the down variable to graph.

Type: Character

across-variable
the analysis variable to graph.

Type: Character

webcls
the WEBEIS class name.

Type: Character

Example

The following example illustrates the use of this method:

```
url='/cgi-bin/broker';
service='default';
grphtype='VBAR';
grphvar='ACTUAL';
grphstat='SUM';
grphdown='COUNTRY';
grphacr='PRODTYPE';
webcls=' ';
call send (webid,'_OUTPUT_STANDARD_GRAPH_',url,service,
           grphtype,grphvar,grphstat,grphdown,grphacr,
           webcls);
```

The following output is produced:

```
<BR><BR><P>
<IMG CLASS="graph" SRC="/cgi-bin/broker?_program=sashelp.webeis.grf2way.scl
&_service=default&mddb=SASHELP.PRDMDDB&metabase=SASHELP.MBEIS&D=Geographic
&AC=Product%20Line&A=ACTUAL&S=SUM&grt=VBAR&gv=Actual%20Sales&gs=Sum&gd
=COUNTRY&DC=1&ACB=1&gac=PRODTYPE&GSB=PRODTYPE=TOTAL&SL=%20"
ALT="Please wait."ALIGN=CENTER WIDTH=600 HEIGHT=450 BGCOLOR=SILVER></P>
```

_OUTPUT_STAT_BOXES_ Method

Outputs the Select Column and the Available and Selected list boxes for selecting statistics based on the analysis variable

Syntax

CALL SEND(OBJID,'_OUTPUT_STAT_BOXES_');

Example

The following output is produced:

```
<TH ROWSPAN=2 CLASS=laylabel>
Statistics</TH>
<TD CLASS=label>
Select Column
<DIV CLASS="stats">
<SELECT NAME="sa" CLASS="sselect" MULTIPLE SIZE="5"
ALIGN="left"onChange="change(document.mf.sa); updatestatslist(document.mf.sa); ">
<OPTION VALUE=ACTUAL>Actual Sales</OPTION>
</SELECT>
</DIV>
</TD>
<TD CLASS=label>
Available
<DIV CLASS="stats">
<SELECT NAME="as" CLASS="sselect" MULTIPLE SIZE="5"
ALIGN="left" onChange="change(document.mf.as);"></SELECT>
</DIV>
</TD>
<TD ALIGN=CENTER CLASS=arrows>
<A href="../mddbapp.hlp/" onClick="moveall(document.mf.as,document.mf.s);
remstatanal(document.mf.as); return true"><
IMG SRC="http://localhost/images/double_right_02g.gif" width="20" height="24"
alt="Add all" BORDER=0><BR>
<A href="../mddbapp.hlp/" onClick="movesel(document.mf.as,document.mf.s);
return true"><IMG SRC="http://localhost/images/right_02g.gif"
width="20" height="24" alt="Add selected" BORDER=0><BR>
<A href="../mddbapp.hlp/" onClick="movesel(document.mf.s,document.mf.as);
return true"><IMG SRC="http://localhost/images/left_02g.gif"
width="20" height="24" alt="Remove selected" BORDER=0><BR>
<A href="../mddbapp.hlp/" onClick="moveall(document.mf.s,document.mf.as);
remstatanal(document.mf.s);"><IMG SRC="http://localhost/images/double_left_02g.gif"
width="20" height="24" alt="Remove all" BORDER=0><BR>
</TD>
<TD CLASS=label>
Selected<DIV CLASS="stats">
<select NAME="s" CLASS="sselect" MULTIPLE SIZE="5" align="left"
onChange="change(document.mf.s);">
</SELECT></DIV>
</TD>
```

_OUTPUT_STAT_LIST_ Method

Outputs a list of available statistics

Syntax

CALL SEND(OBJID,'_OUTPUT_STAT_LIST_');

Example

The following example illustrates the use of the method:

```
<TR><TD CLASS="label">Statistics
<DIV CLASS="stats">
<SELECT NAME="s" CLASS="select" MULTIPLE SIZE=3 onChange="change(document.mf.s)">
<OPTION VALUE="SUM" SELECTED>Sum
<OPTION VALUE="PCTSUM">% of Sum
<OPTION VALUE="AVG">Average
<OPTION VALUE="N">Total Count
<OPTION VALUE="PCTN">% of Total #
<OPTION VALUE="MIN">Minimum
<OPTION VALUE="MAX">Maximum
<OPTION VALUE="RANGE">Range
</SELECT>
</DIV>
</TD>
</TR>
```

_OUTPUT_STATIC_HIDDEN_FLDS_ Method

Outputs the necessary hidden fields for the initial static HTML page

Syntax

CALL SEND(OBJID,'_OUTPUT_STATIC_HIDDEN_FLDS_',*metabase*,*background-type*, *background-value*,*webeis-class*);

Required Arguments

metabase
the metabase name.

Type: Character

background-value
the background image URL or color value. This parameter is optional.

Type: Character

background-type
the background type (COLOR or IMAGE). This parameter is optional.

Type: Character

webeis-class
the WEBEIS class name.

Type: Character

_OUTPUT_SUBSET_DIMS_OPTION_ Method

Outputs text input fields for the width and height of the subset list box

Syntax

CALL SEND(OBJID,'_OUTPUT_SUBSET_DIMS_OPTION_');

Example

The following output is produced:

```
<TR><TD CLASS="label">Width</TD><TD><INPUT TYPE=text NAME="sw" CLASS="select" SIZE=3
MAXLENGTH=3 VALUE="15"></TD></TR>
<TR><TD CLASS="label">Height</TD><TD><INPUT TYPE=text NAME="sh" CLASS="select" SIZE=3
MAXLENGTH=3 VALUE="3"></TD></TR>
```

_OUTPUT_SUBSET_LOC_OPTION_ Method

Outputs a selection list for the Location option in the Filter Listboxes list

Syntax

CALL SEND(OBJID,'_OUTPUT_SUBSET_LOC_OPTION_');

Example

The following output is produced:

```
<TR><TD CLASS="label">Location</TD>
<TD><SELECT NAME="ssl" CLASS="select"><OPTION VALUE="1" SELECTED>Right
<OPTION VALUE="2">Left
<OPTION VALUE="3">Top
<OPTION VALUE="4">Bottom
</SELECT></TD></TR>
```

_OUTPUT_SUBSET_SELECTIONS_ Method

Outputs the subset selection lists

Syntax

CALL SEND(OBJID,'_OUTPUT_SUBSET_SELECTIONS_',*subloc*);

Required Argument

subloc
the list box location.

Type: Character

Example

The following output is produced:

```
<FONT SIZE=1>
<DIV CLASS="filterbox">
<TABLE>
<TR><TD COLSPAN=4 CLASS="header">Filter by</TD></TR>
<TR>
<TR><TD CLASS="label" NOWRAP>Country:<BR></TD></TR>
<TR><TD>
<SELECT NAME="SL" CLASS="select" SIZE=3 MULTIPLE>
<OPTION VALUE="." SELECTED>
<OPTION VALUE="COUNTRY:CANADA">CANADA
<OPTION VALUE="COUNTRY:GERMANY">GERMANY
<OPTION VALUE="COUNTRY:U.S.A.">U.S.A.
</SELECT></TD></TR>
<TR><TD CLASS="label" NOWRAP>Division:<BR></TD></TR>
<TR><TD>
<SELECT NAME="SL" CLASS="select" SIZE=3 MULTIPLE>
<OPTION VALUE="." SELECTED>
<OPTION VALUE="DIVISION:EDUCATION">EDUCATION
<OPTION VALUE="DIVISION:CONSUMER">CONSUMER
</SELECT></TD></TR>
<TR><TD CLASS="label" NOWRAP>Month:<BR></TD></TR>
<TR><TD>
<SELECT NAME="SL" CLASS="select" SIZE=3 MULTIPLE>
<OPTION VALUE="." SELECTED>
<OPTION VALUE="MONTH:Jan">Jan
<OPTION VALUE="MONTH:Feb">Feb
<OPTION VALUE="MONTH:Mar">Mar
<OPTION VALUE="MONTH:Apr">Apr
<OPTION VALUE="MONTH:May">May
<OPTION VALUE="MONTH:Jun">Jun
<OPTION VALUE="MONTH:Jul">Jul
<OPTION VALUE="MONTH:Aug">Aug
<OPTION VALUE="MONTH:Sep">Sep
<OPTION VALUE="MONTH:Oct">Oct
<OPTION VALUE="MONTH:Nov">Nov
<OPTION VALUE="MONTH:Dec">Dec
</SELECT></TD></TR>
<R><D><NPUT TYPE="submit" NAME="appsub" CLASS="submit" VALUE="Apply Filter">
<TD><TR><TABLE>
<DIV>
</FONT>
```

_OUTPUT_SUBSETS_ Method

Outputs the list of character variables for subsetting

Syntax

CALL SEND(OBJID,'_OUTPUT_SUBSETS_');

Example

The following output is produced:

```
<TR><TD CLASS="label" ALIGN=LEFT>Filter Columns: <BR>
<SELECT NAME="SV" CLASS="select" MULTIPLE SIZE=3>
<OPTION VALUE="" SELECTED>
<OPTION VALUE="COUNTRY">Country
<OPTION VALUE="DIVISION">Division
<OPTION VALUE="MONTH">Month
<OPTION VALUE="PRODTYPE">Product type
<OPTION VALUE="PRODUCT">Product
<OPTION VALUE="QUARTER">Quarter
<OPTION VALUE="REGION">Region
<OPTION VALUE="YEAR">Year
</SELECT></TD></TR>
```

_OUTPUT_TABLE_DISP_OPTION_ Method

Outputs radio buttons for the Display Table option

Syntax

CALL SEND(OBJID,'_OUTPUT_TABLE_DISP_OPTION_');

Example

The following output is produced:

```
<TR><TD CLASS="label">Display Table</TD>
<TD>
<INPUT NAME="ST" CLASS="select" TYPE=RADIO VALUE="1" CHECKED>Yes
<INPUT NAME="ST" CLASS="select" TYPE=RADIO VALUE="2">No
</TD>
</TR>
```

_OUTPUT_TABLE_OPTIONS_ Method

Outputs the check boxes on the Options page for the Row Totals, Column Totals, and Drillpaths options

Syntax

CALL SEND(OBJID,'_OUTPUT_TABLE_OPTIONS_');

Example

The following output is produced:

```
<TD CLASS="label" COLSPAN="2"><INPUT TYPE="checkbox" NAME="dc" VALUE="1">Row Totals
<INPUT TYPE="checkbox" NAME="acb" VALUE="1">Column Totals<P>
<INPUT NAME="DP" TYPE=CHECKBOX VALUE="1" CHECKED>Drillpaths</TD>
```

_OUTPUT_TOOLBAR_ Method

Outputs the <FRAME> tag to create the frame in which the report is displayed

Syntax

CALL SEND(OBJID,'_OUTPUT_TOOLBAR_',*vrflag*,*url*, *service*,*grphvar*,*grphstat*, *grphdown*,*grphtype*,*bgtype*,*bg*, *title*,*webcls*,*tbloc*);

Required Arguments

vrflag
a flag indicating that the **View Report** button was pressed.
Type: Numeric

url
the Application Broker component of the URL.
Type: Character

service
the Application Broker service.
Type: Character

grphvar
the analysis variable to graph.
Type: Character

grphstat
the statistic to graph.
Type: Character

grphdown
the down dimension variable to graph.
Type: Character

grphtype
the selected graph type.
Type: Character

bgtype
the background type (IMAGE, COLOR, or blank).
Type: Character

bg
the background value.
Type: Character

title
the title. This value is optional.
Type: Character

webcls
the WEBEIS class name.
Type: Character

tbloc
the toolbar location, where 1=top, 2=bottom, 3=left, 4=right, and 5=none.

Type: Character

Example

The following output is produced:

```
<TR>
<TD>
<A HREF="/cgi-bin/broker/prdmddb.csv?_service=default&_debug=0&_program
   =sashelp.webeis.oprpt.scl&SPDSHT=X&mddb=SASHELP.PRDMDDB&metabase=SASHELP.MBEIS
   &D=Geographic&AC=Product%20Line&A=ACTUAL&S=SUM&ST=1&GL=1&DC=1&ACB=1&DP=1
   &_SAVEAS=prdmddb.csv" TARGET="_self"><IMG CLASS="imgdown"
   SRC="/my_images/btn_xls.gif" ALT="Download to Spreadsheet" BORDER=0></A>
</TD>
<TD>
<A href="../mddbapp.hlp/" onClick="this.href=clsurl('ROTATE=1&_PROGRAM
   =SASHELP.WEBEIS.SHOWRPT.SCL')" TARGET="_parent"><IMG CLASS="imgrotate"
   SRC="/my_images/btn_rot.gif" ALT="Rotate" BORDER=0></A>
</TD>
<TD>
<A href="../mddbapp.hlp/" onClick="this.href=clsurl('_PROGRAM
   =SASHELP.WEBEIS.MDDBRPTS.SCL')" TARGET="_parent">
<IMG CLASS="imglay" SRC="/my_images/btn_lay.gif" ALT="Layout" BORDER=0></A>
</TD>
<TD>
<A HREF="http://support.sas.com/rnd/web/intrnet/mddbapp/hinttips.html"
   TARGET="_blank"><IMG CLASS="imghelp" SRC="/my_images/btn_hlp.gif" ALT="Help"
   BORDER=0></A>
</TD>
</TR>
```

_OUTPUT_TOOLBAR_FRAME_ Method

Outputs the FRAME tag for the toolbar frame

Syntax

CALL SEND(OBJID,'_OUTPUT_TOOLBAR_FRAME_',*url*,*service*,*bgtype*,*grphtype*, *bg*, *grphvar*,*grphstat*,*grphdown*,*grphacr*);

Required Arguments

url
the Application Broker component of the URL.

Type: Character

service
the Application Broker service.

Type: Character

bgtype
the background type (IMAGE, COLOR, or blank).

Type: Character

grphtype
the selected graph type.

Type: Character

bg
the background value.

Type: Character

grphvar
the analysis variable to graph.

Type: Character

grphstat
the statistic to graph.

Type: Character

grphdown
the down dimension variable to graph.

Type: Character

grphacr
the across dimension variable to graph.

Type: Character

Example

The following output is produced:

```
<FRAME NAME="toolbar_window" SRC="/cgi-bin/broker?_program=sashelp.webeis.optbar.scl
&_service=default&_debug=0&mddb=SASHELP.PRDMDDB
&metabase=SASHELP.MBEIS&D=Geographic&AC=Product%2520Line
&A=ACTUAL&S=SUM&GRT=VBAR
&GG=AC&BGTYPE=color&BG=%23FFFFE7&DC=1
&ACB=1&ST=1&GL=1&GSC=2&SSL=1&SH=3
&SW=15&GH=450&GW=600&DP=1" SCROLLING="NO">
```

_OUTPUT_TOTALS_OPTIONS_ Method

Outputs check boxes for the Show Totals option for the down and across variables

Syntax

CALL SEND(OBJID,'_OUTPUT_TOTALS_OPTIONS_');

Example

The following output is produced:

```
<TR><TD CLASS="label">Show Totals</TD>
<TD><INPUT TYPE="checkbox" NAME="dc" CLASS="select" VALUE="1" CHECKED>Down
<INPUT TYPE="checkbox" NAME="acb" CLASS="select" VALUE="1" CHECKED>Across</TD></TR>
```

_OUTPUT_UPDATE_CLEAR_ Method

Outputs the addstatanal and remstatanal JavaScript functions on the Dimensions page

Syntax

CALL SEND(OBJID,'_OUTPUT_UPDATE_CLEAR_');

Details

The addstatanal and remstatanal functions update the list of selected analysis variables as the user makes selections for the report.

Example

The following output is produced:

```
function addstatanal(select,analysisbox) {
   select.length=0;
   for (i=0; i < analysisbox.length; i++){
      if (analysisbox.options[i].selected) {
         select.options[i] = new Option(analysisbox.options[i].text,
         analysisbox.options[i].value);
      }
   }
}

function remstatanal(listbox) {
   if ( listbox.options.length > 0 ){
      listbox.options.length=0;
   }
   return false;
}
```

_OUTPUT_URL_OPTIONS_ Method

Outputs the viewer options, filter variables and selections, and expand information for a viewer URL

Syntax

CALL SEND(OBJID,'_OUTPUT_URL_OPTIONS_',*noexp*);

Required Argument

noexp
an instruction not to output or expand the information. A nonblank means do not output.

Type: Character

_OUTPUT_VAR_FUNCTIONS_ Method

Outputs JavaScript functions for ordering variable selections

Syntax

CALL SEND(OBJID,'_OUTPUT_VAR_FUNCTIONS_');

Example

The following output is produced:

```
function List(list) {
   for (key in list)
      if (list[key] != null) this[key]= list[key];
}

function change(select) {
   if ((navigator.appName == "Netscape" &&
        navigator.appVersion.indexOf("3.0") != -1) ||
       (navigator.appName == "Microsoft Internet Explorer" &&
        navigator.appVersion.indexOf("4.0") != -1)) {
      selected= new List;
      options= new Object;
      for (i= 0; i < select.options.length; i++) {
         options[select.options[i].text]=select.options[i].value;
         selected[select.options[i].text]=
            select.options[i].selected ? select.options[i].value : null;
      }
      selected= new List(selected);
      select.options.length= 0;
      for (key in selected)
         select.options[select.options.length]=
            new Option(key, selected[key], false, true);
      for (key in options)
         if (selected[key] == null)
            select.options[select.options.length]=
               new Option(key, options[key]);
   }
}

function update() {
   str= "";
   for (key in selected)
      str= str + key + ",";
   if (str.length)
```

```
        document.form.order.value= str.substring(0, str.length - 1);
}
```

_OUTPUT_VARIABLE_SEL_FORM_ Method

Outputs the HTML table elements to arrange the Variable Selection page and calls the methods that output the variable and options HTML elements

Syntax

CALL SEND(OBJID,'_OUTPUT_VARIABLE_SEL_FORM_',*url*,*msgid*,*vrflag*, *grphtype*);

Required Arguments

url
the Application Broker component of the URL.

Type: Character

msgid
the ID number of the message system.

Type: Numeric

vrflag
a flag indicating that the **View Report** button was pressed.

Type: Numeric

grphtype
the selected graph type.

Type: Character

Example

The following output is produced:

```
<FORM ACTION="/cgi-bin/broker" NAME="mf">
<TR>
<TD VALIGN=TOP>
<TABLE>
<TR>
<TD CLASS=header>
Dimensions</TD>
</TR>
<TR CLASS="dimselbox">
<TD CLASS=label>
Down: <BR>
<SELECT NAME="d" CLASS="select" SIZE=3 MULTIPLE onChange="change(document.mf.d)">
<OPTION SELECTED VALUE=Geographic>Geographic (hier)
<OPTION VALUE=Product%2520Line>Product Line (hier)
<OPTION VALUE=Time>Time (hier)
<OPTION VALUE=COUNTRY>Country
<OPTION VALUE=DIVISION>Division
<OPTION VALUE=MONTH>Month
<OPTION VALUE=PRODTYPE>Product type
<OPTION VALUE=PRODUCT>Product
```

```
<OPTION VALUE=QUARTER>Quarter
<OPTION VALUE=REGION>Region
<OPTION VALUE=YEAR>Year
</SELECT>
</TD>
</TR>
<TR CLASS="dimselbox">
<TD CLASS=label>
Across: <BR>
<SELECT NAME="ac" CLASS="select" SIZE=3 MULTIPLE onChange="change(document.mf.ac)">
<OPTION SELECTED VALUE="">
<OPTION VALUE=Geographic>Geographic (hier)
<OPTION VALUE=Product%2520Line>Product Line (hier)
<OPTION VALUE=Time>Time (hier)
<OPTION VALUE=COUNTRY>Country
<OPTION VALUE=DIVISION>Division
<OPTION VALUE=MONTH>Month
<OPTION VALUE=PRODTYPE>Product type
<OPTION VALUE=PRODUCT>Product
<OPTION VALUE=QUARTER>Quarter
<OPTION VALUE=REGION>Region
<OPTION VALUE=YEAR>Year
</SELECT>
</TD>
</TR>
<TR><TD CLASS="label">Analysis
<DIV CLASS="analysis">
<SELECT NAME="a" CLASS="select" MULTIPLE SIZE=3 onChange="change(document.mf.a)">
<OPTION SELECTED VALUE=ACTUAL>Actual Sales
<OPTION VALUE=DIFF>Sales Lag
<OPTION VALUE=LPERDAY>LPERDAY
<OPTION VALUE=PREDICT>Predicted Sales
<OPTION VALUE=SALESRAT>Sales Ratio
</SELECT>
</DIV>
</TD>
</TR>
<TR><TD CLASS="label">Statistics
<DIV CLASS="stats">
<SELECT NAME="s" CLASS="select" MULTIPLE SIZE=3 onChange="change(document.mf.s)">
<OPTION VALUE="SUM" SELECTED>Sum
<OPTION VALUE="PCTSUM">% of Sum
<OPTION VALUE="AVG">Average
<OPTION VALUE="N">Total Count
<OPTION VALUE="PCTN">% of Total #
<OPTION VALUE="MIN">Minimum
<OPTION VALUE="MAX">Maximum
<OPTION VALUE="RANGE">Range
</SELECT>
</DIV>
</TD>
</TR>
<TR><TD CLASS="label" ALIGN=LEFT>Filter Columns: <BR>
<SELECT NAME="SV" CLASS="select" MULTIPLE SIZE=3>
<OPTION VALUE="" SELECTED>
<OPTION VALUE="COUNTRY">Country
```

```
<OPTION VALUE="DIVISION">Division
<OPTION VALUE="MONTH">Month
<OPTION VALUE="PRODTYPE">Product type
<OPTION VALUE="PRODUCT">Product
<OPTION VALUE="QUARTER">Quarter
<OPTION VALUE="REGION">Region
<OPTION VALUE="YEAR">Year
</SELECT></TD></TR>
</TABLE>
</TD>
<TD ALIGN=CENTER VALIGN=TOP>
<TABLE>
<TR>
<TD COLSPAN=2 CLASS=header>
Table</TD>
</TR>
<TR><TD CLASS="label">Display Table</TD>
<TD>
<INPUT NAME="ST" CLASS="select" TYPE=RADIO VALUE="1" CHECKED>Yes
<INPUT NAME="ST" CLASS="select" TYPE=RADIO VALUE="2">No
</TD>
</TR>
<TR>
<TD CLASS="label">Default Title</TD>
<TD><INPUT NAME="DT" CLASS="select" TYPE=TEXT SIZE=30 MAXLENGTH=200></TD>
</TR>
<TR>
<TD CLASS="label">Show Drillpath</TD>
<TD>
<INPUT NAME="DP" CLASS="select" TYPE=RADIO VALUE="1" CHECKED>Yes
<INPUT NAME="DP" CLASS="select" TYPE=RADIO VALUE="2">No
</TD>
</TR>
<TR><TD CLASS="label">Show Totals</TD>
<TD><INPUT TYPE="checkbox" NAME="dc" CLASS="select" VALUE="1" CHECKED>Down
<INPUT TYPE="checkbox" NAME="acb" CLASS="select" VALUE="1" CHECKED>Across</TD></TR>
<TR>
<TD COLSPAN=2 CLASS=header>
Graph</TD>
</TR>
<TR><TD CLASS="label">Graph Source</TD>
<TD>
<INPUT NAME="GSC" CLASS="select" TYPE=RADIO VALUE="1" CHECKED>3D Clickable Graph
<INPUT NAME="GSC" CLASS="select" TYPE=RADIO VALUE="2">Standard GIF Graph
</TD>
</TR>
<TR><TD CLASS="label">Location</TD>
<TD><SELECT NAME="gl" CLASS="select"><OPTION VALUE="1" SELECTED>Bottom
<OPTION VALUE="2">Top
<OPTION VALUE="3">Left
<OPTION VALUE="4">Right
</SELECT></TD></TR>
<TR><TD CLASS="label">Type</TD>
<TD><SELECT NAME="grt" CLASS="select">
<OPTION SELECTED VALUE=NONE>None
<OPTION VALUE=VBAR>Vertical bar
```

```
<OPTION VALUE=BLOCK>Block
<OPTION VALUE=HBAR>Horizontal bar
<OPTION VALUE=PIE>Pie
<OPTION VALUE=PLOT>Plot
</SELECT>
</TD>
</TR>
<TR><TD CLASS="label">Width</TD><TD><INPUT TYPE=text NAME="gw" CLASS="select"
   SIZE=4 MAXLENGTH=4 VALUE="600"></TD></TR>
<TR><TD CLASS="label">Height</TD><TD><INPUT TYPE=text NAME="gh" CLASS="select"
   SIZE=4 MAXLENGTH=4 VALUE="450"></TD></TR>
<TR>
<TD COLSPAN=2 CLASS=header>
Filter Listboxes</TD>
</TR>
<TR><TD CLASS="label">Location</TD>
<TD><SELECT NAME="ssl" CLASS="select"><OPTION VALUE="1" SELECTED>Right
<OPTION VALUE="2">Left
<OPTION VALUE="3">Top
<OPTION VALUE="4">Bottom
</SELECT></TD></TR>
<TR><TD CLASS="label">Width</TD><TD><INPUT TYPE=text NAME="sw" CLASS="select"
   SIZE=3 MAXLENGTH=3 VALUE="15"></TD></TR>
<TR><TD CLASS="label">Height</TD><TD><INPUT TYPE=text NAME="sh" CLASS="select"
   SIZE=3 MAXLENGTH=3 VALUE="3"></TD></TR>
</TD>
</TR>
</TABLE>
<TR>
<TD ALIGN=CENTER COLSPAN=2>
<INPUT TYPE="submit" NAME="view" CLASS="submit" VALUE="View Report">
</TR>
</TD>
```

_OUTPUT_VARLIST_FORM_ Method

Outputs the HTML for the reach-through to the detail variable selection page

Syntax

CALL SEND(OBJID,'_OUTPUT_VARLIST_FORM_',*dataset-name*,*url*, *htmlfile-id*,*message-id*, *dataset-id*,*service-name*, *debug-value*,*next-program*,*background-type*, *background-value*);

Required Arguments

dataset-name

the base table data set name.

Type: Numeric

url

the Application Broker component of the URL.

Type: Numeric

htmlfile-id
the ID for the _webout file.

Type: Numeric

message-id
the ID of the message system.

Type: Numeric

dataset-id
the ID for the base table data set.

Type: Numeric

service-name
the Application Broker service value.

Type: Numeric

debug-value
the application server debug level.

Type: Numeric

next-program
the next SCL program to execute when the form is completed.

Type: Numeric

background-type
the background type (IMAGE or COLOR). This parameter is optional.

Type: Numeric

background-value
the background value. This parameter is optional.

Type: Numeric

Example

The following output is produced:

```
dataset='SASHELP.PRDSALE';
url='/cgi-bin/broker';
htmlfile=fopen('_WEBOUT','A');
msgid=instance(loadclass('sashelp.fsp.astmsg.class'),1);
dsid=open(dataset);
service='default';
debug='0';
nextpgm='SASHELP.WEBEIS.DS2HTM.SCL';
bgtype='COLOR';
bg='yellow';
call send(webid,'_OUTPUT_VARLIST_FORM_',dataset,url,htmlfile,msgid,dsid,service,
          debug,nextpgm,bgtype,bg);
```

_OUTPUT_VARLIST_FUNCTIONS_ Method

Outputs the var_order, resetfields, and pickall JavaScript functions on the reach-through variable selection page

Syntax

CALL SEND(OBJID,'_OUTPUT_VARLIST_FUNCTIONS_',*dataset-id*,*htmlfile-id*);

Required Arguments

dataset-id
the base table data set identifier.

Type: Numeric

htmlfile-id
the identifier for the _webout file.

Type: Numeric

Example

```
htmlfile=fopen('_WEBOUT','A');
dsid=open('SASHELP.PRDSALE');
call send(webid,'_OUTPUT_VARLIST_FUNCTIONS_',dsid,htmlfile);
```

The following output is produced:

```
labels = new Array("placeholder"
,"Actual Sales"
,"Predicted Sales"
,"Country"
,"Region"
,"Division"
,"Product type"
,"Product"
,"Quarter"
,"Year"
,"Month"
);
varorder = new Array();
varlabel = new Array();
varorder.num = 0;
if (navigator.appName == 'Netscape') document.forms[0].reset();
function var_order(fieldnum,labeltext)
{ if (document.forms[0].elements[fieldnum].checked)
   { varorder[varorder.num] = document.forms[0].elements[fieldnum].value;
     varlabel[varorder.num] = labels[fieldnum];
     varorder.num++
   }
   else
   { for(i = 0; i < varorder.num; i++;)
      { if (varorder[i] == document.forms[0].elements[fieldnum].value)
         { for(j = i; j < varorder.num; j++)
            { varorder[j] = varorder[j+1];
              varlabel[j] = varlabel[j+1];
            }
         }
      }
      varorder.num--;
   }
   resetfields(labeltext);
}
```

```
function resetfields(labeltext)
{ document.forms[0].elements[labeltext].value = ' ';
   document.forms[0].elements[0].value = ' ';
   if (varorder.num > 0)
   { document.forms[0].elements[labeltext].value = varlabel[0];
     document.forms[0].elements[0].value = varorder[0];
   }
   for(i = 1; i < varorder.num; i++)
   { document.forms[0].elements[labeltext].value =
     document.forms[0].elements[labeltext].value + '\r\n'+ varlabel[i];
     document.forms[0].elements[0].value =
        document.forms[0].elements[0].value + ' ' + varorder[i];
   }
}
function pickall(num)
{ for (i = 1; i <= num ; i++)
   { if (document.forms[0].elements[i].checked == false)
      { varlabel[varorder.num] = labels[i];
        varorder[varorder.num] = document.forms[0].elements[i].value;
        document.forms[0].elements[i].checked = true;
        varorder.num++;
      }
   }
   resetfields(num+1);
}
```

_OUTPUT_VARLIST_HTML_ Method

Outputs the HTML for the reach-through to the detail variable selection page

Syntax

CALL SEND(OBJID,'_OUTPUT_VARLIST_HTML_',*dataset-id*,*htmlfile-id*, *message-id*, *dataset-name*,*url*,*service-name*, *debug-value*,*next-program*,*background-type*, *background-value*);

Required Arguments

dataset-id
the ID for the base table data set.

Type: Numeric

htmlfile-id
the ID for the _webout file.

Type: Numeric

message-id
the ID of the message system.

Type: Numeric

dataset-name
the base table data set name.

Type: Numeric

url
the Application Broker component of the URL.

Type: Numeric

service-name
the Application Broker service value.

Type: Numeric

debug-value
the application server debug level.

Type: Numeric

next-program
the next SCL program to execute when the form is completed.

Type: Numeric

background-type
the background type (IMAGE or COLOR). This parameter is optional.

Type: Numeric

background-value
the background value. This parameter is optional.

Type: Numeric

Example

```
dataset='SASHELP.PRDSALE';
dsid=open(dataset);
htmlfile=fopen('_WEBOUT','A');
msgid=instance(loadclass('sashelp.fsp.astmsg.class'),1);
url='/cgi-bin/broker';
service='default';
debug='0';
nextpgm='SASHELP.WEBEIS.DS2HTM.SCL';
bgtype='COLOR';
bg='yellow';
call send(webid,'_OUTPUT_VARLIST_HTML_',dsid,htmlfile,msgid,dataset,url,service,
          debug,nextpgm,bgtype,bg);
```

_OUTPUT_VIEWRPT_BUTTON_ Method

Outputs the **View Report** button

Syntax

CALL SEND(OBJID,'_OUTPUT_VIEWRPT_BUTTON_');

Example

The following output is produced:

```
<INPUT TYPE="submit" NAME="view" CLASS="submit" VALUE="View Report">
```

_OUTPUT_VIEWRPT2_BUTTON_ Method

Outputs the **View Report** button on the Dimensions page

Syntax

CALL SEND(OBJID,'_OUTPUT_VIEWRPT2_BUTTON_');

Example

The following output is produced:

```
<A href="../mddbapp.hlp/" onClick="this.href=geturl
   (document.mf.d,document.mf.ac,document.mf.a)"TARGET="_parent">
<IMG SRC="view-report.gif" width="29" height="24"></A>
```

_POST_DISPLAY_OPTIONS_ Method

Specifies additional options on the Layout page

Syntax

CALL SEND(OBJID,'_POST_DISPLAY_OPTIONS_',<*parmlist*>);

Optional Argument

parmlist
an optional list for passing in information to the method.

Type: Numeric

Details

This stub method is called after all of the display options are called. It is useful for adding additional options to the Layout page.

_PRE_DISPLAY_OPTIONS_ Method

Specifies additional options on the Layout page

Syntax

CALL SEND(OBJID,'_PRE_DISPLAY_OPTIONS_',<*parmlist*>);

Optional Argument

parmlist
an optional list for passing in information to the method.

Type: Numeric

Details

This stub method is called before any of the display options are called. It is useful for adding additional options to the Layout page.

_PRINT_A_BLANK_ Method

Prints the character code to fill an empty cell

Syntax

CALL SEND(OBJID,'_PRINT_A_BLANK_');

_SET_ACROSS_TOTAL_FLAG_ Method

Sets the atotal_ instance variable to activate across totals

Syntax

CALL SEND(OBJID,'_SET_ACROSS_TOTAL_FLAG_',*ttlflag*);

Required Argument

ttlflag

a value that indicates whether to set a flag for the totals in the across dimension, where X=set the flag on and blank=do not set the flag.

Type: Character

_SET_DOWN_TOTAL_FLAG_ Method

Sets the dtotal_ instance variable to activate down totals

Syntax

CALL SEND(OBJID,'_SET_DOWN_TOTAL_FLAG_',*ttlflag*);

Required Argument

ttlflag

a value that indicates whether to set a flag for the totals in the down dimension, where X=set the flag on and blank=do not set the flag.

Type: Character

_SET_DRILL_LEVELS_ Method

Updates the SAVED_L sublist on the application list to set the drill-down values

Syntax

CALL SEND(OBJID,'_SET_DRILL_LEVELS_',*application-list*);

Required Argument

application-list

the list ID of the application list. For more information about application lists, see the online Help for SAS/EIS software.

Type: Numeric

Details

This method

- builds the HIERARCHIES_L and SAVED_L sublists on the application list if the list is empty
- builds the CURRENT_DRILLS sublist on the HIERARCHIES_L sublist if it is empty
- updates the CURRENT_DRILLS sublist for each hierarchy with the current drill-down information
- sets the CURRENT_LEVEL value for each hierarchy on the HIERARCHIES_L sublist.

Example

```
applist= makelist();
rc=fillist('CATALOG','SASHELP.EISRG.ONEWAY.EIS',applist);
call send(webid,'_SET_DRILL_LEVELS_',applist);
```

_SET_EMDDBMID_ Method

Sets the EMDDBMID_ instance variable

Syntax

CALL SEND(OBJID,'_SET_EMDDBMID_',*id*);

Required Argument

id

the ID of the data model.

Type: Numeric

_SET_EXPAND_FLAG_ Method

Sets the expflag_ instance variable that indicates whether values can be expanded

Syntax

CALL SEND(OBJID,'_SET_EXPAND_FLAG_',*rowlist*,*actionsl*);

Required Arguments

rowlist
the rowlist from the GET_CLASS_COMBINATIONS method.

Type: Numeric

actionsl
the actionsl list from the data model.

Type: Numeric

_SET_HIERL_LIST_ Method

Sets the hierl_ instance variable

Syntax

CALL SEND(OBJID,'_SET_HIERL_LIST_',*listid*);

Required Argument

listid
the list ID of the target list to copy.

Type: Numeric

_SET_SUBSET_BY_LIST_ Method

Builds the subset_by_ list from the filter value selections

Syntax

CALL SEND(OBJID,'_SET_SUBSET_BY_LIST_');

Example

The following illustrates an example of a subset_by_ list:

```
subset_by_ ( COUNTRY  = ('CANADA'
                         )
```

```
  DIVISION = ('EDUCATION'
              )
  MONTH    = ('Jan'
               'Feb'
              )
)
```

_SET_SUBSET_FLAG_ Method

Sets the value of the SUBSET_FLAG_ instance variable

Syntax

CALL SEND(OBJID,'_SET_SUBSET_FLAG_',*flagval*);

Required Argument

flagval
the value of the subset flag.

Type: Character

_SET_SUBSETS_LIST_ Method

Defines the subsets to be used

Syntax

CALL SEND(OBJID,'_SET_SUBSETS_LIST_',*varnum*);

Required Argument

varnum
the number of selected subset values.

Type: Numeric

Details

This method sets and fills the subvars_ instance variable and adds the subvars_ list to the _self_ list data model for applying the filters.

_SHOW_GRAPH_ Method

Sets the graphing variables and calls a graphing method

Syntax

CALL SEND(OBJID,'_DISPLAY_GRAPH_',*url*,*service*,*_argument-string*, *_argument-sring2*, *graph-type*,*analysis-variable*, *statistic-variable*,*down-variable*,*across-variable*, *webcls*);

Required Arguments

url
the Application Broker component of the URL.

Type: Character

service
the Application Broker service.

Type: Character

_argument-string
the argument string for the next query.

Type: Character

_argument-sring2
the argument string for the next query.

Type: Character

graph-type
the selected graph type.

Type: Character

analysis-variable
the analysis variable to graph.

Type: Character

statistic-variable
the statistic to graph.

Type: Character

down-variable
the down variable to graph.

Type: Character

across-variable
the across variable to graph.

Type: Numeric

webcls
the WEBEIS class name.

Type: Character

Details

This method sets the default graphing variables if their values have not been specified and calls the appropriate graphing method (_OUTPUT_STANDARD_GRAPH_ or _OUTPUT_CLICKABLE_GRAPH_) for the selected graph source.

_SUBMIT_GOPTIONS_ Method

Submits the SAS/GRAPH GOPTIONS statement for the standard GIF graph

Syntax

CALL SEND(OBJID,'_SUBMIT_GOPTIONS_',*gifdev*);

Required Argument

gifdev
the name of the device driver to use.
Type: Character

_SUBMIT_GRAPH_PATTERN_ Method

Submits the SAS/GRAPH PATTERN statements for the standard GIF graphs

Syntax

CALL SEND(OBJID,'_SUBMIT_GRAPH_PATTERN_');

_SUBMIT_GRAPH_TITLE_ Method

Submits the SAS/GRAPH TITLE statement for the standard GIF graph

Syntax

CALL SEND(OBJID,'_SUBMIT_GRAPH_TITLE_',*stat*,*var*);

Required Arguments

stat
the statistic used in the graph.
Type: Character

var
the analysis variable used in the graph.
Type: Character

_UPDATE_STATS_LIST_ Method

Outputs the updatestatslist JavaScript function on the Dimensions page

Syntax

CALL SEND(OBJID,'_UPDATE_STATS_LIST_');

Details

The updatestatslist function modifies the list of available and selected statistics as the user makes statistic selections for the report display.

Example

The following output is produced:

```
function updatestatslist(select) {
pos = 0;
num = 0;
newlength = 0;
var arrayname = "";
var analysistype = "";
var arrayofstats = "";
for (i=0; i < select.options.length; i++) {
   if (select.options[i].selected) {
      num=num+1;
      arrayname = select.options[i].value+"STATS";
      analysisarray=eval(arrayname);
      if (analysistype.indexOf(analysisarray[0])==-1 ) {
         analysistype=analysisarray[0] +"," +analysistype;
      }
   }
}
if (analysistype.substr(eval(analysistype.lastIndexOf(",")+1), 1)=="") {
   analysistype=analysistype.slice(0,analysistype.lastIndexOf(","));
}
arrayoftypes = analysistype.split(",");
arrayoftypes.sort();
document.mf.as.options.length=0;
document.mf.s.options.length=0;
if (num > 1) {
   for (i=0; i < arrayoftypes.length; i++) {
      if ( i==0 ) {
         arrayname = eval(arrayoftypes[0]+"desclist");
         pos = arrayname.length;
         for ( j=0; j < arrayname.length; j++) {
         document.mf.as.options[j] = new Option(statslabellist[arrayname[j]],
            arrayname[j]);
         }
      }
      else if (arrayoftypes[i]=="nunique") {
         arrayname = eval( arrayoftypes[i] +"desclist");
         document.mf.as.options[pos] = new Option(statslabellist[arrayname[0]],
            arrayname[0]);
      }
   }
   document.mf.s.options[0] = new Option("*MIXED SELECTIONS", "MIXED");
}
else if ( num==1 ) {
      k=0;
      arrayofstats=eval( arrayoftypes[0] +"desclist");
      for (i=0; i <select.options.length; i++) {
         if (select.options[i].selected) {
            arrayname = eval(select.options[i].value+"STATS");
            for ( j=1; j < arrayname.length; j++ ) {
               document.mf.s.options[j-1] = new Option(statslabellist[arrayname[j]],
                  arrayname[j]);
            }
         }
```

```
      }
      for (i=0; i < arrayofstats.length; i++ ) {
         var repeat="false";
         for (j=1; j < arrayname.length; j++) {
            if (arrayofstats[i]==arrayname[j]) {
               repeat="true";
               break;
            }
         }
         if (repeat=="false" && arrayofstats[i]!="") {
            document.mf.as.options[k] = new Option(statslabellist[arrayofstats[i]],
               arrayofstats[i]);
            k++;
         }
      }
}
}
```

Index

Special Characters

Numbers

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