MDDB Report Viewer

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About 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 PROC MDDB when SAS OLAP Server software 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.

See the following topics for more information about the MDDB Report Viewer:

- Requirements
- Setting Up
- Using the MDDB Report Viewer
- Customizing the 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** SAS OLAP Server software must be licensed at your site.

  Note: MDDB Report Viewer 9.1 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 product).
- The MDDB that you will 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 SAS/MDDB Server software 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 documentation 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 regular SAS data sets.

  Note: If you are using a Version 6 metabase registration, you must convert it to the V8 format. See Converting Version 6 SAS/EIS Metabases and follow the steps that are described.

Setting Up the MDDB Report Viewer

The MDDB Report Viewer consists of three HTML pages in which users can enter information in order 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 will use more than one 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 to learn more about using access control. For complete information on access control, see *SAS OLAP Server Administrator's Guide, Release 8.1*.

Note: In order 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 on this setup procedure, see Working With Repositories. You can also refer to the online SAS Help and Documentation for Base SAS software and SAS/EIS software for details on setting up a repository. Starting with Version 7 of SAS/EIS software, functions that were previously performed by the Metabase Facility are assigned to the Repository Manager.

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 may 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
```

where *broker-URI*, bgtype, bg, and class are as described in Method 3, step 2, below. With this method, no HTML pages are created and stored.

Method 3

Run the SAS AF command in order 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, type 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'>";
```

where

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 can contain 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 should normally be 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 will appear at the top of the report. A title value is optional. If you do not specify a title, the title "Multidimensional Reports" will be used.

bgtype
is the type of background that will appear 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 hex value for one of the colors that is supported by your 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 will be 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 hex value for the color value. You can specify a URL for the image file value. See the documentation for your browser for valid color values. If you specify bg and omit bgtype, or if you do not use either option, the background will be the default color, silver.

Note: If you specify an invalid color value, your browser will map 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 3–level or a 4–level name. For example, the following are both valid:

```
sashelp.override.myweb

sashelp.override.myweb.class
```

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 optionally modify the list of debug options for your site in the following HTML line:

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

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

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 will access when they run their reports.

Working with Repositories

Starting with Version 7 of SAS, the SAS/EIS metabase facility has been converted to the Version 8 Common Metadata Repository. 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. Although the underlying data storage scheme in the Common Metadata Repository is different from that in the SAS/EIS metabase facility, the metabase facility interface has only a few minor changes, including the following:

- Metabase registrations are contained in a repository.
- There is at most one repository per path.
- Repositories are managed by a repository manager.

If you are moving from Version 6 of SAS/EIS software to a later release, you can use the Common Metadata Repository after performing a one−time setup and conversion. Complete all of the following tasks before you attempt to use SAS/EIS software.

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

1. Specify the system repository manager location.
2. Set up the system repository manager files.
3. Define the repository to Application Dispatcher Server .
4. Set up the SASHELP repository.
5. Convert Version 6 SAS/EIS metabases.

Specifying the System Repository Manager Location

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

1. Create a directory that will be dedicated exclusively to the storage of repository manager files, for example:

   - Windows users: `!SASROOT\RPOSMGR`
   - UNIX users: `!SASROOT/RPOSMGR`
   - VMS users: `!SAS$ROOT:[RPOSMGR]`

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

   Note: This system repository manager path will be used later in this task.
2. Type **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 select **OK**. From the menu bar, select **File** **Close** to close the Registry Editor window.
3. Type **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 select **OK**.
4. Select the **Path** item in the right window. From the pop–up menu, select **Modify**. Type the path from Step 1, above; for example, type **!SASROOT\RPOSMGR**. Select **OK** to close the Edit String Value window. From the menu bar, select **File** **Close** to close the Registry Editor window and to save the changes.

Setting Up the System Repository Manager Files

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

1. Create a directory that will be dedicated exclusively to the storage of repository manager files. For example:

   - Windows users: `!SASROOT\RPOSMGR`
   - UNIX users: `!SASROOT/RPOSMGR`
   - VMS users: `!SAS$ROOT:[RPOSMGR]`

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

This completes the setup for the System Repository Manager. You can create additional repository managers (a user repository manager, for example) by repeating the steps above 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 in order to set up the SASHELP repository:

1. At a SAS command line, type `REPOSMGR` and then select **Repository Registration**.
2. In the Repository Registration window, select **New**.
3. In the Register Repository (New) window, type `SASHELP` (in uppercase) in the Repository field. In the **Path** field, type the full directory path where the CORE catalog is located. For example:

   - Windows users: `!SASROOT\CORE\SASHELP`
   - UNIX users: `!SASROOT/sashelp`
   - VMS users: `!SAS$ROOT:[HELP]`
4. In the **Description** field, you can type any character string (for example, SASHELP Repository). Select **OK** to close the Register Repository (New) window. Select **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 will be referenced as a repository.

Converting Version 6 SAS/EIS Metabases

Before you can use an existing Version 6 SAS/EIS metabase registration, you must convert it to the Version 8 Common Metadata Repository format. You must convert all metabases in a single path into a single repository. For example, if you have two legacy metabases, each with five registrations, then after the conversion you will have ten registrations in a single repository.

If you have duplicate registrations in multiple Version 6 metabases within the same path, then the conversion process changes the name of the second registration to this format: <*Version-6-metabase-name*>.<*registration-name*>. The label does not change, so it is possible that the same label will be listed more than once. Thus, to avoid duplicate registration labels within a repository, it is recommended that you change the label of any duplicate registrations within a repository. To change the registration label, you can either edit the registration's LABEL attribute or select **View** **Rename** in the Metabase window. You do not have to modify SAS/EIS applications that reference the Version 6 registrations. The old registration names are automatically mapped to the new names.

For example, suppose you have two Version 6 metabases, SASUSER.META_A and SASUSER.META_B. Each metabase contains a single table registration with a registration name of SASUSER.CLASS and a registration label of Student Information. When the SASUSER.META_A and SASUSER.META_B metabases are converted, the result is a single repository, SASUSER, that contains the following two registrations:

```
Registration name: SASUSER.CLASS
Registration label: 'Student information'
```

and

```
Registration name: SASUSER.META_B.SASUSER.CLASS
Registration label: 'Student information'
```

To convert a Version 6 SAS/EIS metabase or metabases, follow these steps:

1. Convert all user−defined attribute dictionaries before you convert any metabases. For information about converting user−defined attribute dictionaries, see the SAS/EIS Help.
2. Make sure that all librefs are assigned for the table registrations. This ensures that the library information is correct for the conversion.
3. Convert existing tables and catalogs to the Version 8 format. For information about converting tables and catalogs, see the SAS/EIS Help.
4. Type **metabase** on the command line to open the Metabase window. For information about using the Metabase window, see the SAS/EIS Help.
5. In the Metabase window, select **Edit** **Convert** to open the Convert Metabases window. For information about using the Convert Metabases window, see the SAS/EIS Help.
6. Select the metabase or metabases that you want to convert, and then select **OK**. All of the metabases that you selected are converted.

Note: If you try to access a legacy metabase registration, then you will be prompted to convert it.

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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 be used.

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 be included 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 deselectstatistics, 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 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 specify 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.

  Note: GIF graphs are not available as two−dimensional pie charts or plots.
- ◊ 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 respecify new variables and select subset values in order 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 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 will be redisplayed with the subset applied. If a graph was previously displayed, it will be 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 will 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 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 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.

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.

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 go back 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 will be readable.

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

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 will be redisplayed with the subset applied. If a graph was previously displayed, it will be 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.

How do I generate a 3D 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 click the right mouse button within the graphics display area to change the graph's properties or to save the graph to a file.

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.

Note: GIF graphs are not available as two−dimensional pie charts or plots.

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 Software: Reference, Version 8*. For more information about the REQUEST INIT program, see the PROC APPSRV, REQUEST statement syntax.

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?

MDDB Report Viewer, Version 8 and later support 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 Customizing the MDDB Report Viewer Using Cascading Style Sheets.

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 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 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 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 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 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 will be 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.

Advanced Customizations

You can customize the MDDB Report Viewer by modifying the following components:

- the MDDB Report Viewer class, instance variables, flow of control, and methods
- the MDDB Report Viewer macro variables and global variables
- the MDDB Report Viewer cascading style sheets.

MDDB Report Viewer Class, Instance Variables, Flow of Control, and Methods

- The MDDB Report Viewer class
- Instance variables
- Flow of control in the MDDB Report Viewer class
- MDDB Report Viewer methods

The MDDB Report Viewer Class

The MDDB Report Viewer class is a viewer that is used to display 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 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

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 3− or 4−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 to be 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_*
specifes a list that contains the values of only the expanded rows.
*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 = a 3−D clickable graph, and 2 = 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, 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 to be done on the data model, where any nonblank character = turn off 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 on the methods listed in these figures, refer to the individual method descriptions.

- Figure 1. Flow of Control for the Layout Page (MDDBRPTS.SCL)
- Figure 2. Flow of Control for the Dimensions Page (LAYOUT.SCL)
- Figure 3. Flow of Control for the Layout Toolbar (HEADER.SCL)
- Figure 4. Flow of Control for the Report Page (SHOWRPT.SCL)
- Figure 5. Flow of Control for the Report Page (OPRPT.SCL) (Part 1)
- Figure 5. Flow of Control for the Report Page (OPRPT.SCL) (Part 2)

- Figure 5. Flow of Control for the Report Page (OPRPT.SCL) (Part 3)
- Figure 6. Flow of Control for the Report Page Toolbar (OPTBAR.SCL) (Part 1)
- Figure 6. Flow of Control for the Report Page Toolbar (OPTBAR.SCL) (Part 2)

MDDB Report Viewer Methods

The MDDB Report Viewer class contains the methods listed below. Each method description contains a brief summary of the method's purpose and the syntax for the method. Some method descriptions also contain an example of how the method is used.

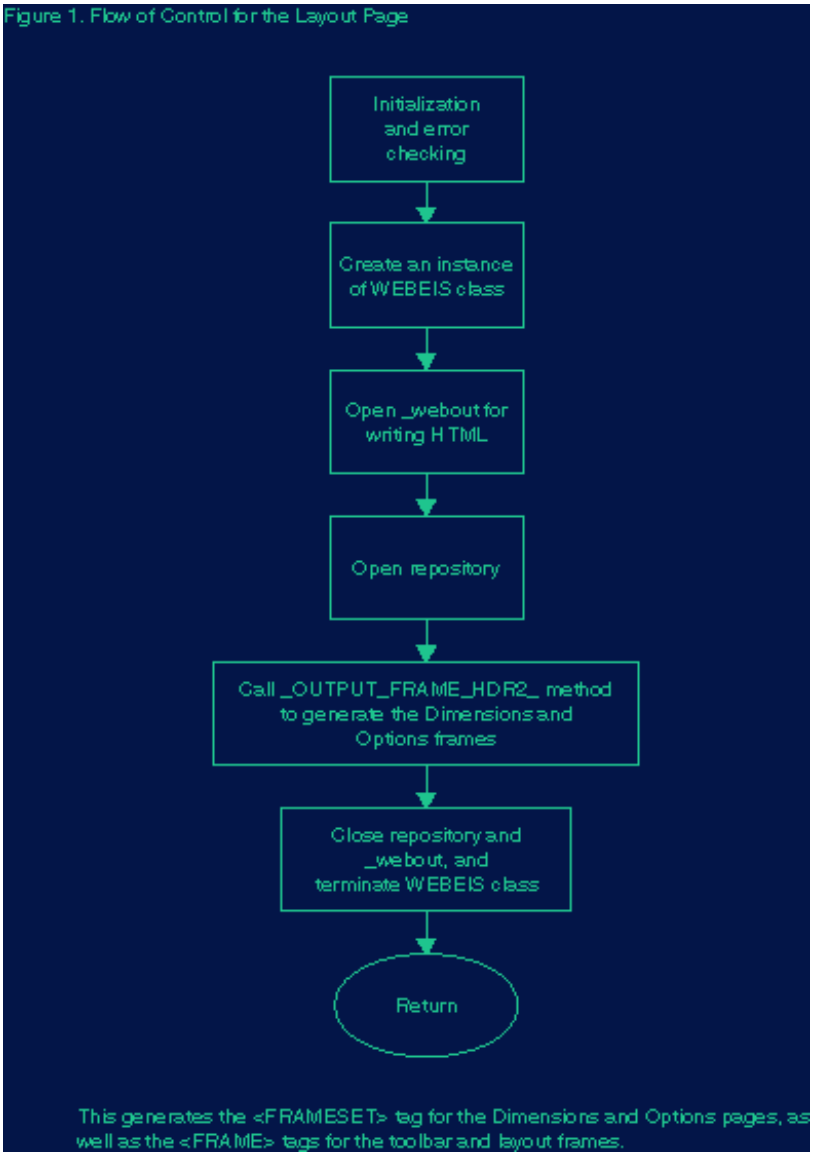
- _BUILD_ACROSSL_LIST_
- _BUILD_ANALYSIS_LIST_
- _BUILD_ANLSORTORDER_
- _BUILD_APPLICATION_LIST_
- _BUILD_CURRENT_SUBSETS_
- _BUILD_DOWNL_LIST_
- _BUILD_STATSL_LIST_
- _BUILD_TOTAL_
- _BUILD_URL_ONSUBMIT_
- _BUILD_WHERE_FORMAT_STRING
- _CHECK_HIER_MEMBER_
- _CLOSE_FORM_
- _CLOSE_PAGE_
- _CLOSE_STATIC_FORM_
- _CREATE_STAT_ARRAYS_
- _DISPLAY_ACROSS_CELLS_
- _DISPLAY_ANALYSIS_VARS_
- _DISPLAY_DEFAULT_TITLE_
- _DISPLAY_DOWNVAR_CELL_
- _DISPLAY_ERROR_
- _DISPLAY_ONEWAY_
- _DISPLAY_ONEWAY_BLOCK_
- _DISPLAY_ONEWAY_HBAR_
- _DISPLAY_ONEWAY_PIE_
- _DISPLAY_ONEWAY_VBAR_
- _DISPLAY_STATISTIC_VARS_
- _DISPLAY_SUBSET_TITLE_
- _DISPLAY_TITLE_
- _DISPLAY_TWOWAY_
- _DISPLAY_TWOWAY_BLOCK_
- _DISPLAY_TWOWAY_HBAR_
- _DISPLAY_TWOWAY_VBAR_
- _DISPLAY_VALUES_
- _DRILL_TO_LEVEL_
- _GET_ANALYSIS_VAR_NAME_
- _GET_ANALYSIS_VARS_
- _GET_AVAILABLE_STATS_
- _GET_DATA_MODEL_NAME_
- _GET_DOWNVAR_LIST_
- _GET_EMDDBMID_
- _GET_GRAPH_VALUES_
- _GET_MDDB_NAME_

- _GET_MESSAGE_ID_
- _GET_METABASE_NAME_
- _GET_OUTPUT_FILE_ID_
- _GET_RANGE_COLOR
- _GET_STATDESC_
- _GET_SUBSET_FLAG_
- _GET_USEHOLAP_
- _OPEN_DYNAMIC_FILE_
- _OPEN_FORM_
- _OPEN_ONEWAY_
- _OPEN_STATIC_FILE_
- _OPEN_TABLE_
- _OPEN_TWOWAY_
- _OPEN_WEBOUT_FOR_SPDSHT_
- _OUTPUT_ACROSS_LIST_
- _OUTPUT_ADDTL_CLSVAL_PARMS_
- _OUTPUT_ADDTL_RT_PARMS_
- _OUTPUT_ADDTOFAV_FUNCTION_
- _OUTPUT_ALL_URL_ITEMS_
- _OUTPUT_ANAL_LIST_
- _OUTPUT_ANAL_SELECT_
- _OUTPUT_ARROW_FUNCTIONS_
- _OUTPUT_BAR_SHAPE_LIST_
- _OUTPUT_BOOKMARK_BUTTON_
- _OUTPUT_CLICKABLE_GRAPH_
- _OUTPUT_BOOKMARK_URL_
- _OUTPUT_CLASSVAL_URL_FN_
- _OUTPUT_CONTENT_HEADER_
- _OUTPUT_CSV_CONTENT_HEADER_
- _OUTPUT_DIMBTN_URL_FN_
- _OUTPUT_DIMENSIONS_BUTTON_
- _OUTPUT_DOWN_LIST_
- _OUTPUT_DP_TITLE_OPTION_
- _OUTPUT_DS2HTM_HTML_
- _OUTPUT_DS2HTM_ST_
- _OUTPUT_DYNAMIC_HIDDEN_FLDS_
- _OUTPUT_EMPTY_CELL_
- _OUTPUT_EMPTY_SERVICE_LIST_
- _OUTPUT_GRAPH_DIMS_OPTION_
- _OUTPUT_GRAPH_INSTR_
- _OUTPUT_GRAPH_LIST_
- _OUTPUT_GRAPH_LOC_OPTION_
- _OUTPUT_GRAPH_OPTION_
- _OUTPUT_GRAPH_SOURCE_OPTION_
- _OUTPUT_GRAPH_TABLE_DISP_
- _OUTPUT_HDR_
- _OUTPUT_HELP_BUTTON_
- _OUTPUT_HIDDEN_FIELDS_
- _OUTPUT_HIDDEN_VARS_
- _OUTPUT_HTML_AFTER_BODY_
- _OUTPUT_HTML_BEF_CLOSE_BODY_
- _OUTPUT_HTML_FORM_HEADER_

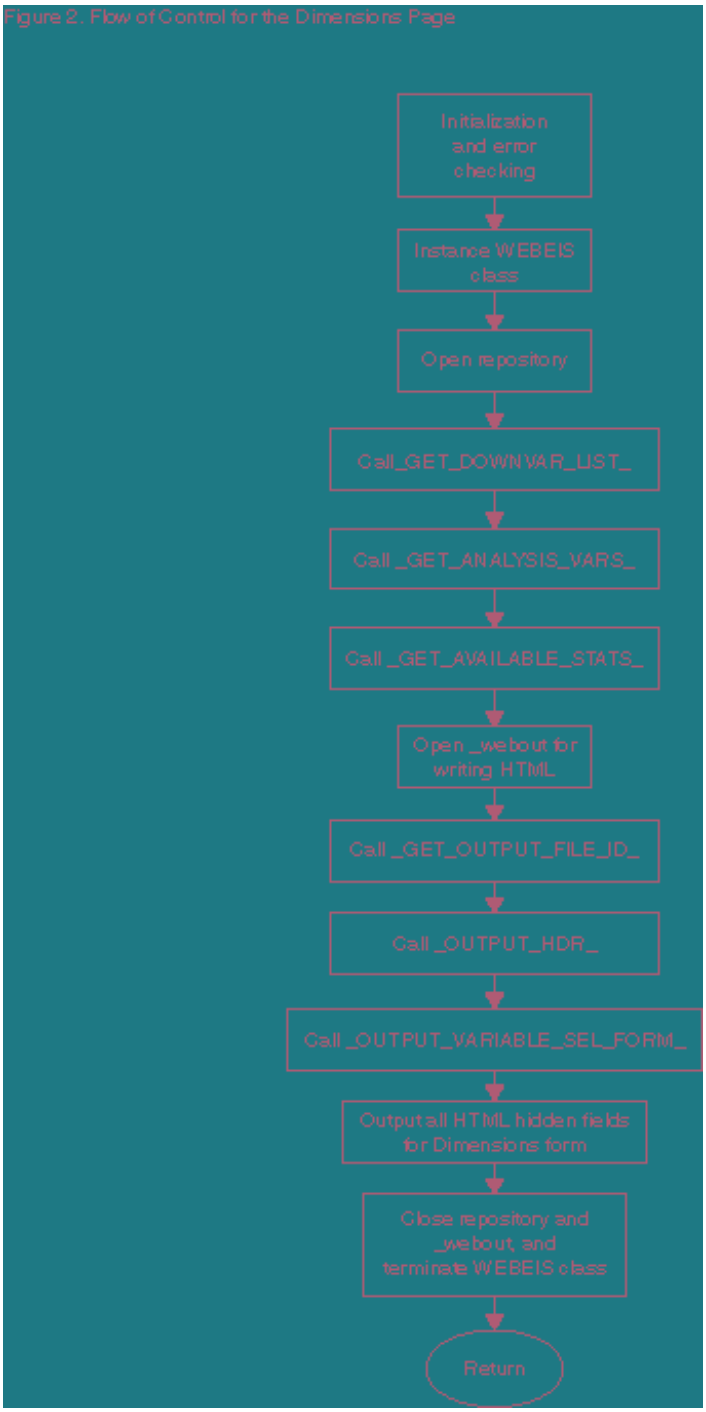
- _OUTPUT_LAYOUT_BUTTON_
- _OUTPUT_LAYOUT_FRAME_
- _OUTPUT_LAYOUT_TOOLBAR_
- _OUTPUT_LOGOUT_BUTTON_
- _OUTPUT_MAIN_TOOLBAR_FRAME_
- _OUTPUT_MDDB_LIST_
- _OUTPUT_NUMROWS_LINKS_
- _OUTPUT_NUMROWS_OPTION_
- _OUTPUT_OPTBTN_URL_FN_
- _OUTPUT_OPTIONS_BUTTON_
- _OUTPUT_OPTIONS_FORM_
- _OUTPUT_REACHTHRU_LINK_
- _OUTPUT_REACHTHRU_URL_FN_
- _OUTPUT_REPORT_FRAME_
- _OUTPUT_REPORT_RADIO_BTNS_
- _OUTPUT_REPORT_TYPE_SELECT_
- _OUTPUT_ROTATE_BUTTON_
- _OUTPUT_ROTATE_URL_
- _OUTPUT_SETURL_FUNCTION_
- _OUTPUT_SPREADSHEET_BUTTON_
- _OUTPUT_SPREADSHEET_URL_
- _OUTPUT_STANDARD_GRAPH_
- _OUTPUT_STAT_BOXES_
- _OUTPUT_STATIC_HIDDEN_FLDS_
- _OUTPUT_STAT_LIST_
- _OUTPUT_SUBSET_DIMS_OPTION_
- _OUTPUT_SUBSET_LOC_OPTION_
- _OUTPUT_SUBSETS_
- _OUTPUT_SUBSET_SELECTIONS_
- _OUTPUT_TABLE_OPTIONS_
- _OUTPUT_TABLE_DISP_OPTION_
- _OUTPUT_TOOLBAR_
- _OUTPUT_TOOLBAR_FRAME_
- _OUTPUT_TOTALS_OPTIONS_
- _OUTPUT_UPDATE_CLEAR
- _OUTPUT_URL_OPTIONS_
- _OUTPUT_VAR_FUNCTIONS_
- _OUTPUT_VARIABLE_SEL_FORM_
- _OUTPUT_VARLIST_FORM_
- _OUTPUT_VARLIST_FUNCTIONS_
- _OUTPUT_VARLIST_HTML_
- _OUTPUT_VIEWRPT_BUTTON_
- _OUTPUT_VIEWRPT2_BUTTON_
- _POST_DISPLAY_OPTIONS_
- _PRE_DISPLAY_OPTIONS_
- _PRINT_A_BLANK_
- _SET_ACROSS_TOTAL_FLAG_
- _SET_DOWN_TOTAL_FLAG_
- _SET_DRILL_LEVELS_
- _SET_EMDDBMID_
- _SET_EXPAND_FLAG_
- _SET_HIERL_LIST_

- _SET_SUBSET_BY_LIST_
- _SET_SUBSET_FLAG_
- _SET_SUBSETS_LIST_
- _SHOW_GRAPH_
- _SUBMIT_GOPTIONS_
- _SUBMIT_GRAPH_PATTERN_
- _SUBMIT_GRAPH_TITLE_
- _UPDATE_STATS_LIST_

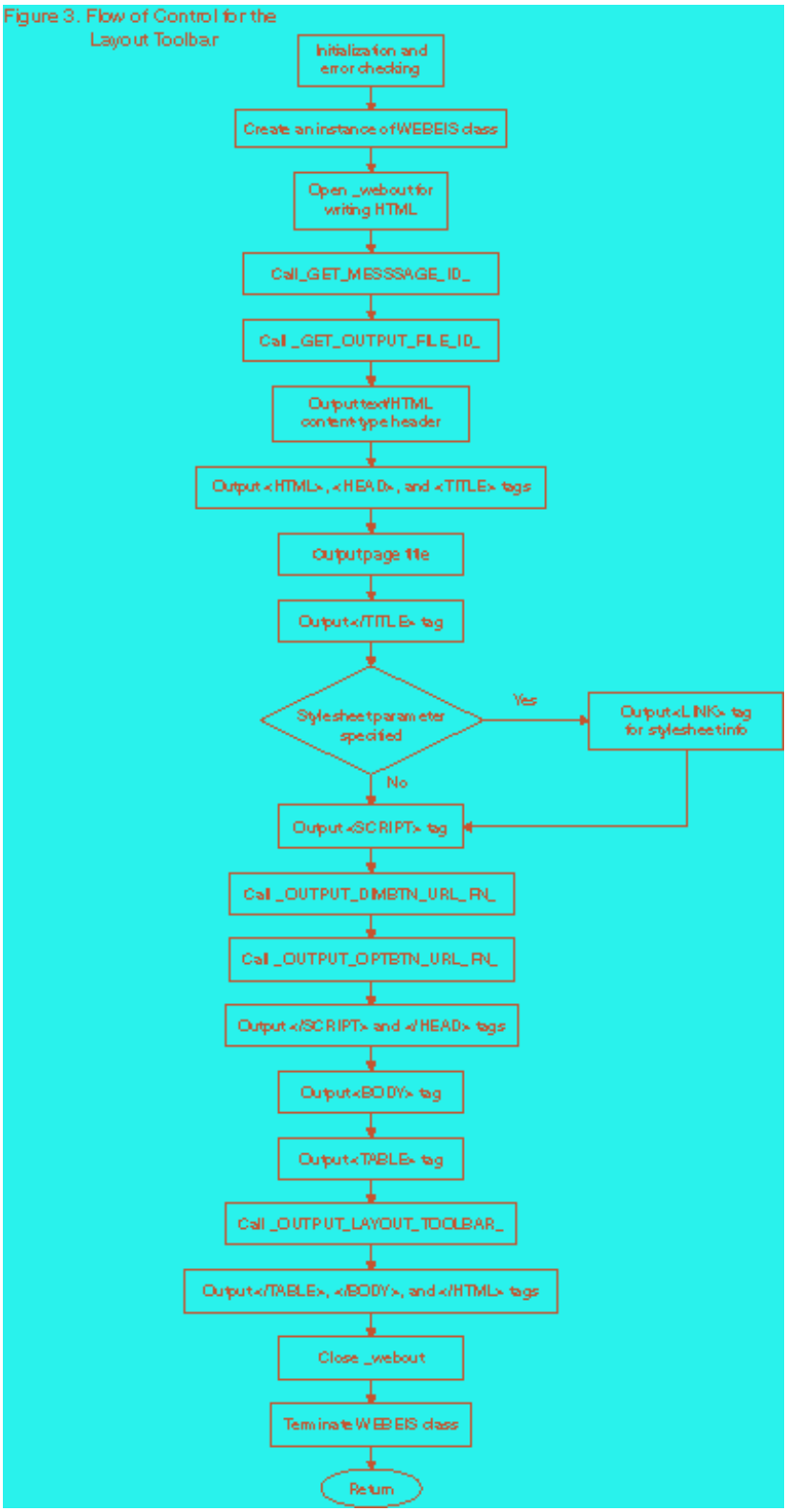
Flow of Control for the Layout Page



Flow of Control for the Dimensions Page

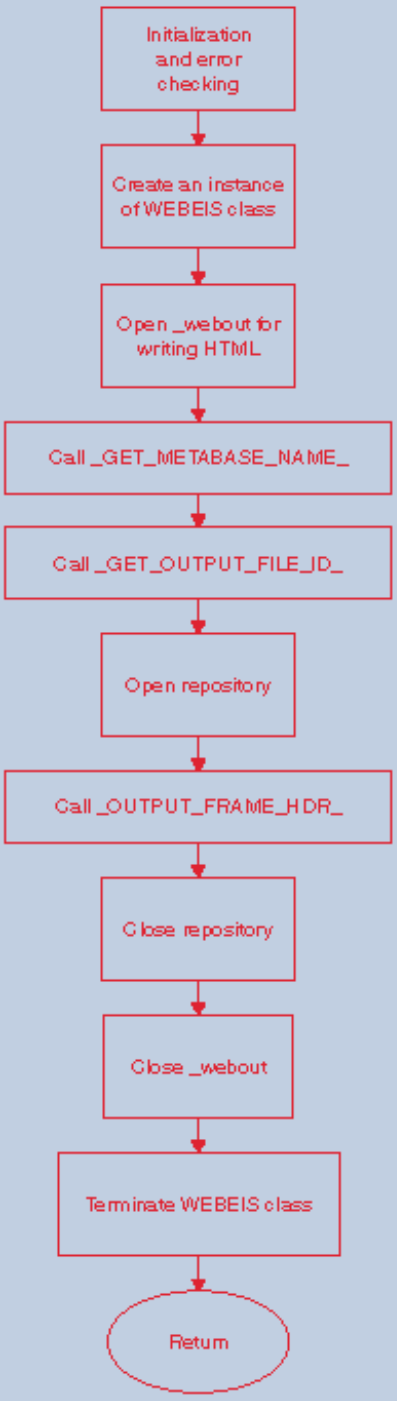


Flow of Control for the Layout Toolbar



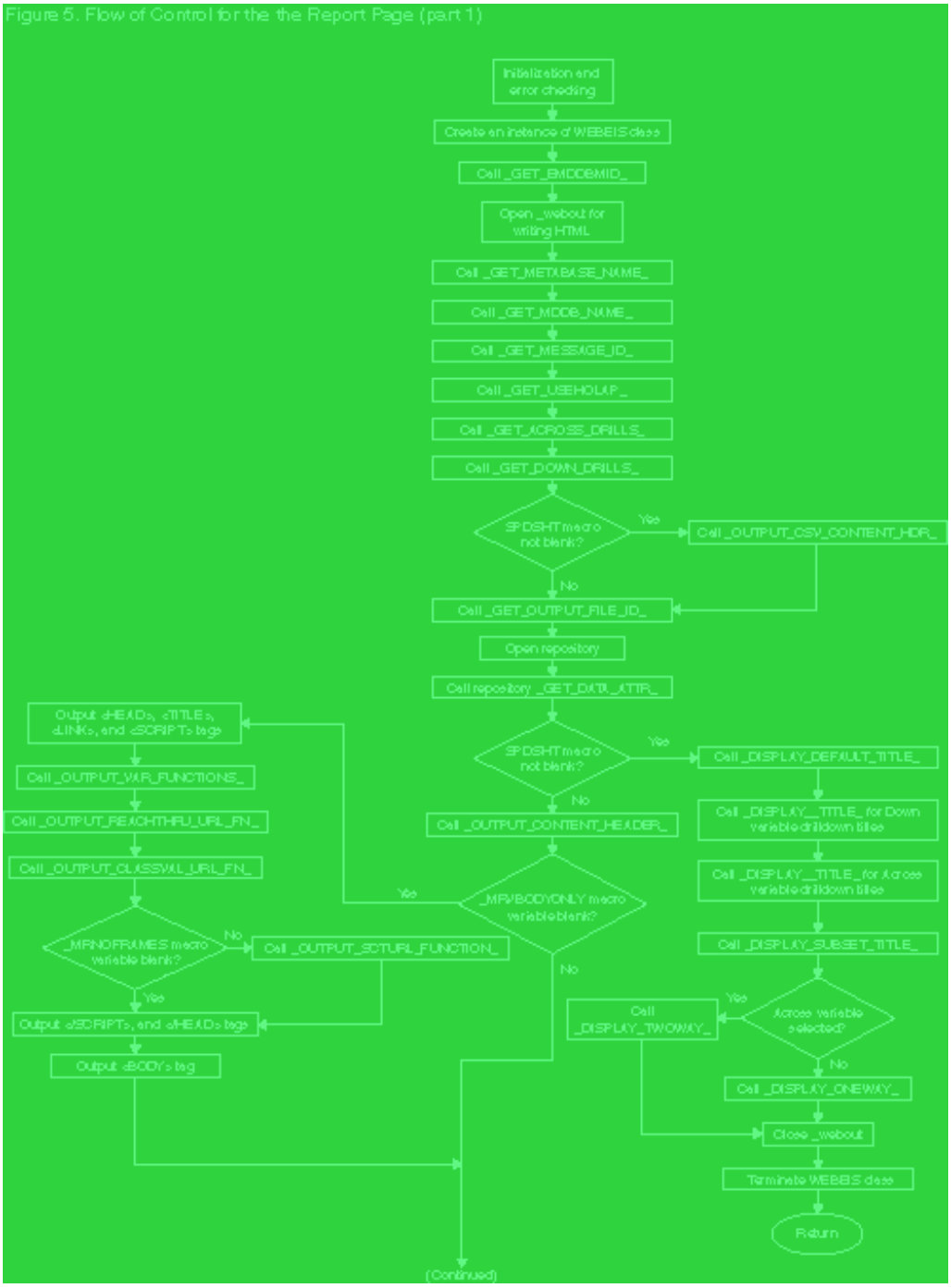
Flow of Control for the Report Page

Figure 4. Flow of Control for the the Report Page

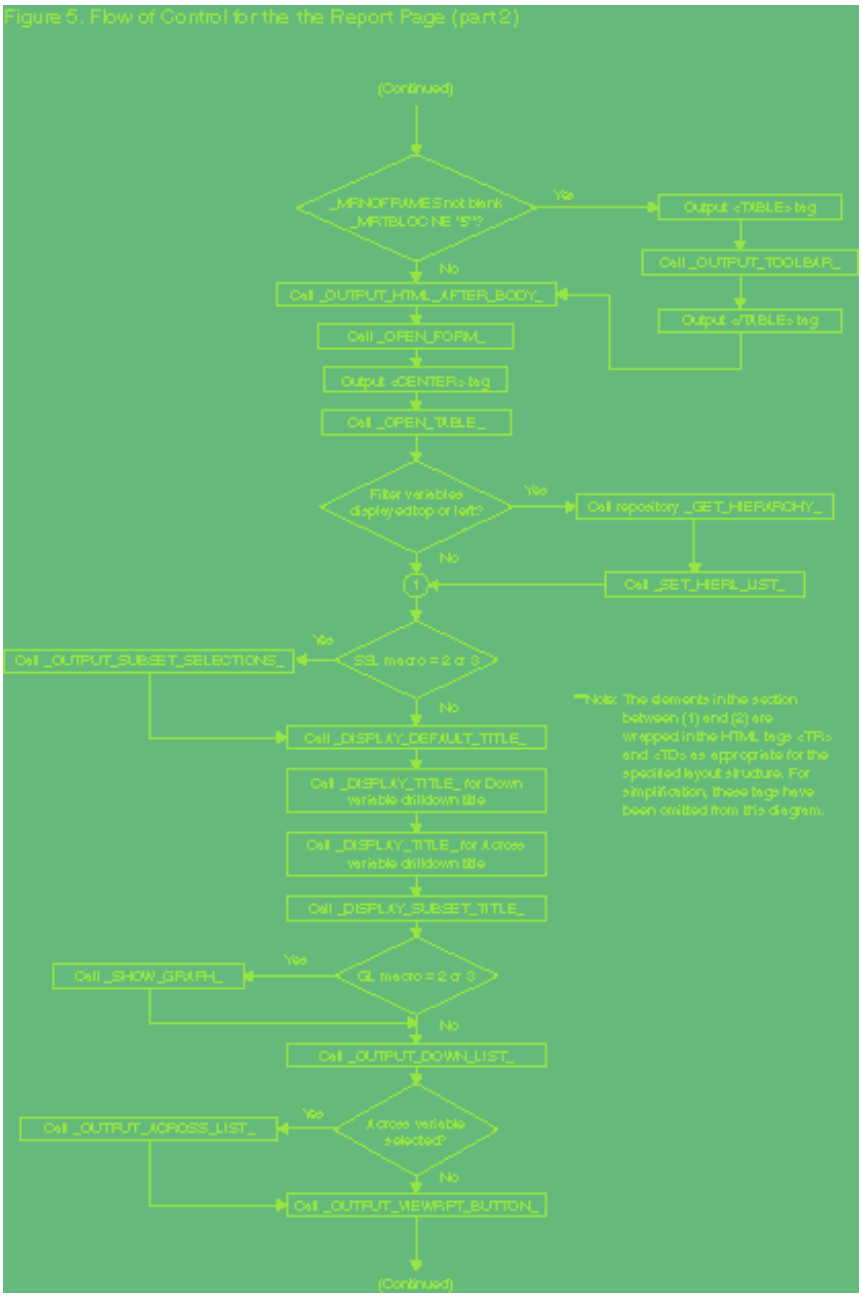


This generates the <FRAMESET> for the Report page, as well as the <FRAME> tags for the toolbar and report frames.

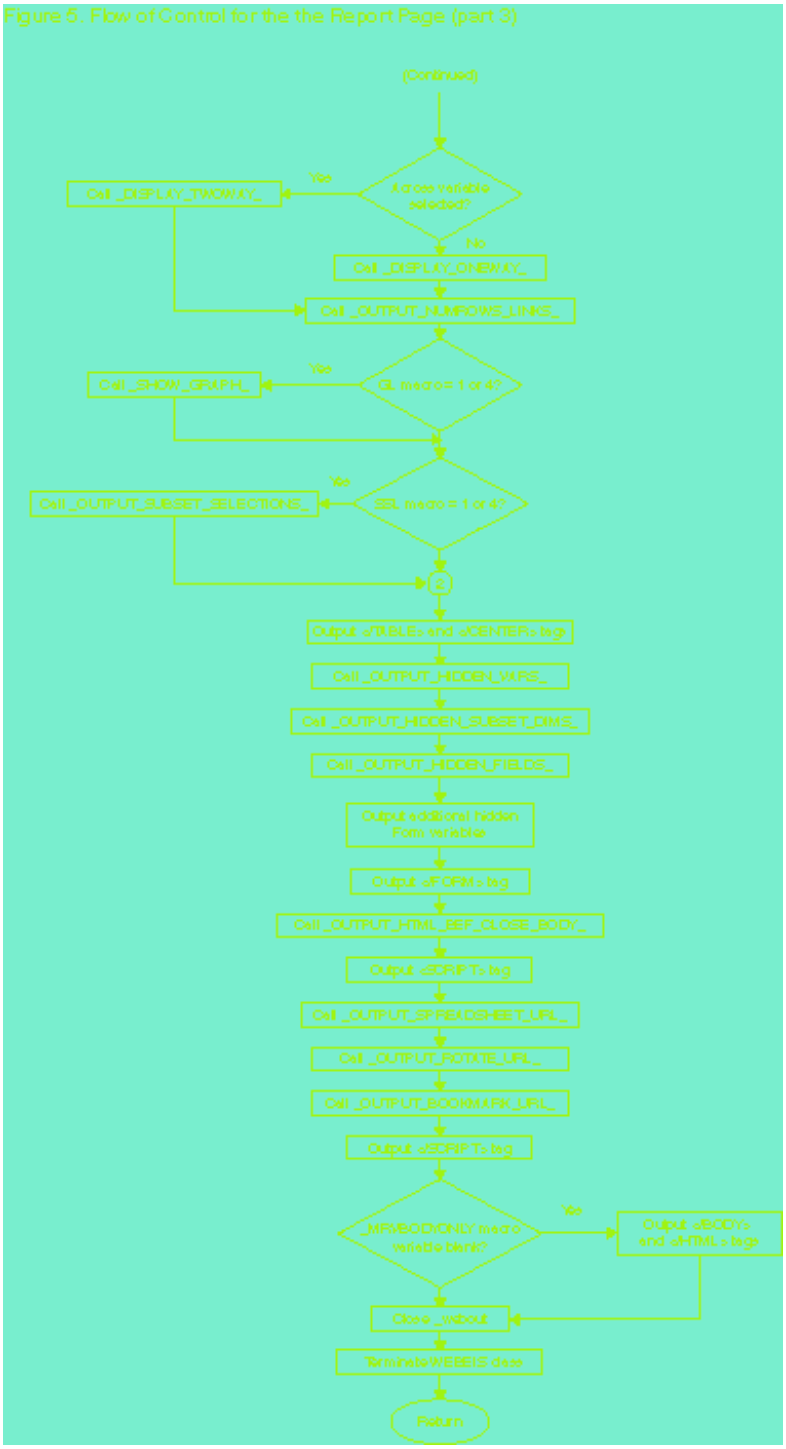
Flow of Control for the Report Page (Part 1)



Flow of Control for the Report Page (Part 2)

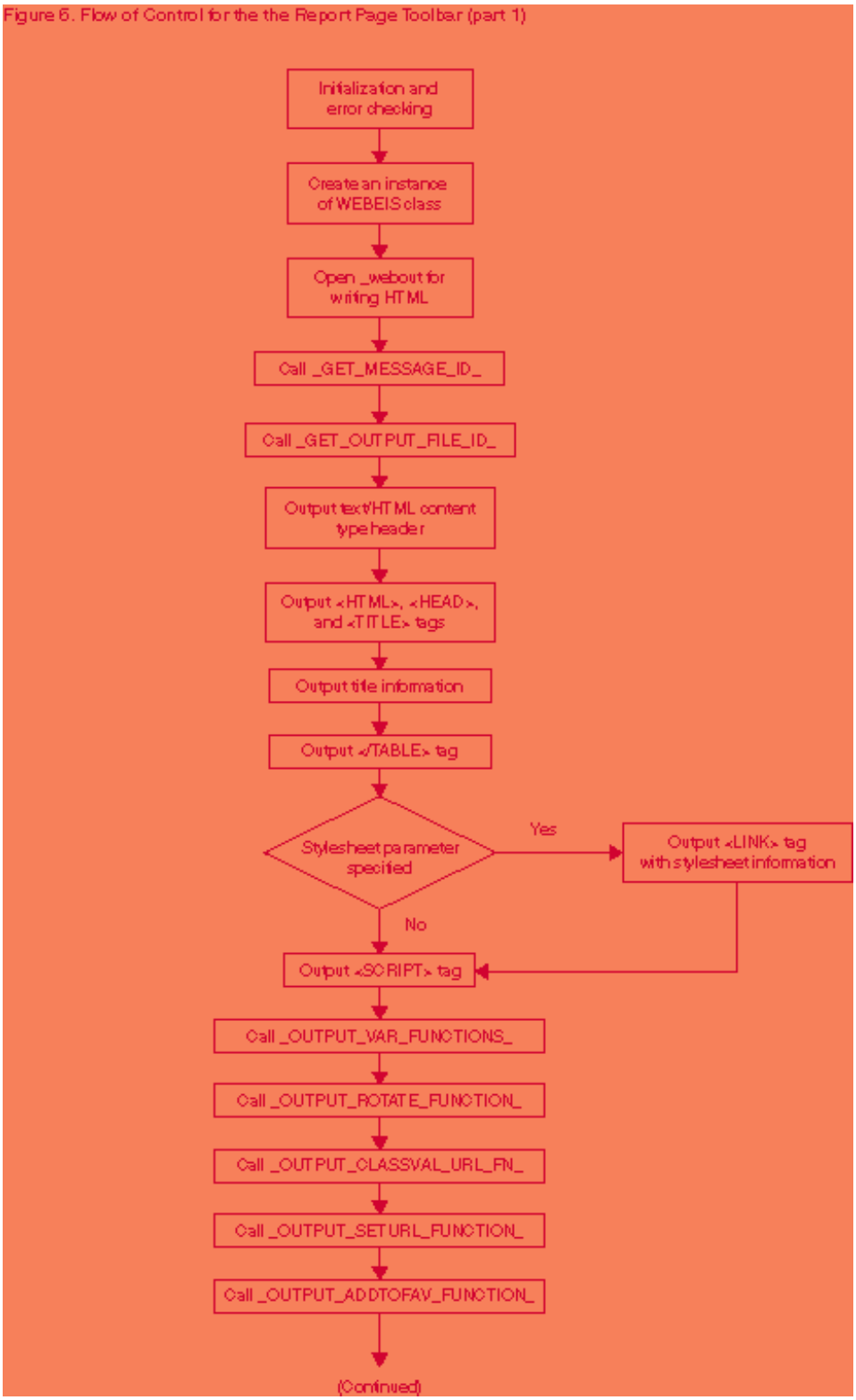


Flow of Control for the Report Page (Part 3)

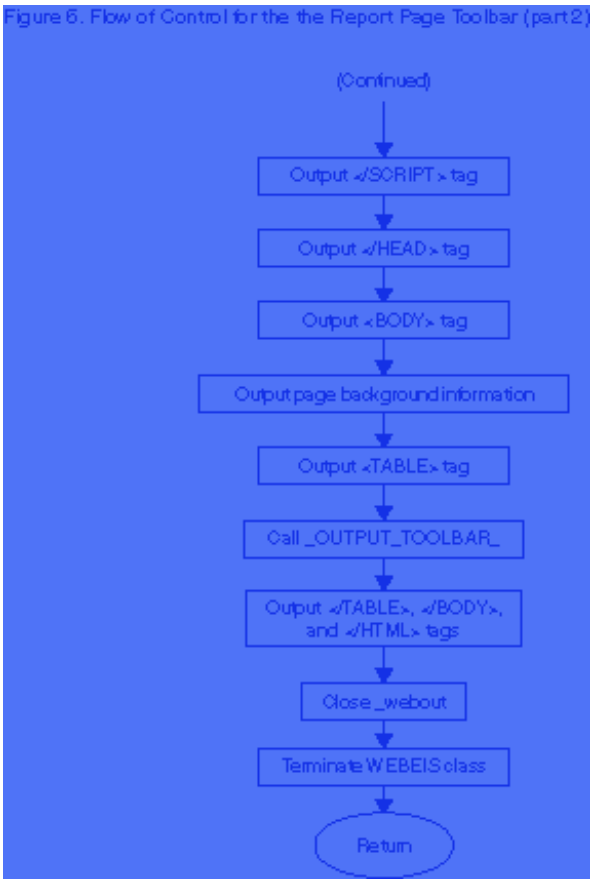


Flow of Control for the Report Page Toolbar (Part 1)

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



Flow of Control for the Report Page Toolbar (Part 2)



_BUILD_ACROSSL_LIST_ Method

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

This method

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

Syntax

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

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list. For more information on application lists, see the online documentation for SAS/EIS software.
across−variable	C	the variable that is selected for the across dimension (optional, and no longer used).

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 will be 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

This method

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

Syntax

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

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list. For more information on application lists, see the online Help for SAS/EIS software.

Example

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

The following sublist will be 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);
```

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list. For more information on application lists, see the online Help for SAS/EIS software.

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

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 on the structure of application lists, see the online Help for SAS/EIS software.

Syntax

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

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list.
metabase−id	N	the ID number of the metabase.
catalog−entry	C	the catalog entry of the Report Gallery template.
down−variable	C	the variable that is selected for the down dimension (optional). (This parameter is included for compatibility with previous releases of this application.)
across−variable	C	the variable that is selected for the across dimension (optional). (This parameter is included for compatibility with previous releases of this application.)

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.

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 HIERARCHIES_L if it is empty
- updates the CURRENT_SUBSETS lists for each hierarchy and class variable with the current filter information.

Syntax

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

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list. For more information on application lists, see the online Help for SAS/EIS software.
metabase−id	N	the ID number of the metabase

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

This method

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

Syntax

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

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list. For more information on application lists, see the online Help for SAS/EIS software.
down−variable	C	the selected down variable. (This optional parameter is included for compatibility with previous releases of the MDDB Report Viewer.)

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 will be added to the application list:

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

_BUILD_STATSL_LIST_ Method

Builds the STATSL_ sublist on the application list

This method

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

Syntax

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

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list. For more information on application lists, see the online Help for SAS/EIS software.

Example

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

The following sublist will be added to the application list:

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

_BUILD_TOTAL_ Method

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

Syntax

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

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list. For more information on application lists, see the online Help for SAS/EIS software.
metabase−id	N	the ID number of the metabase.
total−variable	C	the variable that is selected from the down or across dimension.

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 will be 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

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

Syntax

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

Where...	Is Type...	And Contains...
url	C	the broker component of the URL.

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);
```

Where...	Is Type...	And Contains...
metabase−id	N	the ID number of the metabase
variable−name	C	the name of the variable in the metabase
in−data−value	C	the unformatted data value
out−data−value	C	the string to add to the reach−through WHERE clause.

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 result is produced:

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

_CHECK_HIER_MEMBER_ Method

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

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.

Syntax

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

Where...	Is Type...	And Contains...
metabase−id	N	the ID number of the metabase
error−flag	N	an error flag, where 0 = no error, and 1 = error
hierarchy−var	C	the hierarchy variable
member−var	C	the member variable
message	C	the error message that is to be displayed.

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.

This method outputs

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

Syntax

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

Where...	Is Type...	And Contains...
initial−url	C	the URL of the initial HTML page
service−name	C	the broker service value
metabase−name	C	the metabase name
background−type	C	an optional background type (IMAGE or COLOR)
background−value	C	an optional background value
title	C	the HTML page title
webeis−class	C	the WEBEIS class name.

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

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

Syntax

```
 CALL SEND(OBJID,'_CREATE_STAT_ARRAYS_');
```

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==va
                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

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.

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);
```

Where...	Is Type...	And Contains...
column−list	N	the column list from the emddb_m class.
actions−list	N	the actions sublist for drill down.
view−report−flag	N	the flag for the **View Report** button.
analysis−variable	C	the analysis variable to be graphed.
statistic	C	the statistic to be graphed.
across−variable	C	the analysis variable for graphing.
url	C	the broker component of the URL.
argument−string	C	the argument string for the next query.
argument−string2	C	the argument string for the next query.
initial−url	C	the URL of the initial HTML page. (This parameter is obsolete. It is included in the method statement so that overrides are not broken.)
background−type	C	the optional background type (IMAGE or COLOR).
background−value	C	the optional background value.
title	C	the HTML page title.
webeis−class	C	the WEBEIS class name.
dlflag	N	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.
service	C	the service name.

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 example produces the following output:

```
<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);
```

Where...	Is Type...	And Contains...
column−list	N	the column list from the _EMDDB_M_ class
dlflag	N	a flag that indicates whether to download the table to a spreadsheet.

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

This method:

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

Syntax

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

Where...	Is Type...	And Contains...
dlflag	N	a flag that indicates whether to download the table to a spreadsheet, where 0 = output HTML tags with data values; 1 = output data values with spreadsheet delimiters.

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

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.

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);
```

Where...	Is Type...	And Contains...
row−list	C	the row list from the EMDDB_M class.
vrflag	C	a flag that indicates that the **View Report** button was pressed.
analysis−variable	N	the analysis variable that is to be graphed.
statistic−variable	C	the statistic that is to be graphed.
down−variable	C	the down dimension variable that is to be graphed.
across−variable	C	the across dimension variable that is to be graphed.
_url	C	the browser component of the URL.
_argument−string	C	the argument string for the next query.
_argument−string2	C	the argument string for the next query.
initial−url	C	the URL of the initial HTML page.
service−name	C	the broker service that is being used.
url	C	the broker component of the URL.
background−type	C	the background type (IMAGE or COLOR). This value is optional.
background−value	C	the background value. This value is optional.
title	C	the title. This value is optional.
web−class	C	the WEBEIS class name (for subclassing).
dlflag	N	a flag that indicates whether to download the table to a spreadsheet.

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);
```

Where...	Is Type...	And Contains...
error−message	C	the error message that is to be displayed.

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

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 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.

Syntax

```
CALL SEND(OBJID,'_DISPLAY_ONEWAY_',DLFLAG);
```

Where...	Is Type...	And Contains...
dlflag	N	a flag that indicates whether to download the table to a spreadsheet.

_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);
```

Where...	Is Type...	And Contains...
statistic	C	the statistic that is to be graphed
analysis–variable	C	the analysis variable that is to be graphed
down–variable	C	the down dimension variable that is to be graphed
dsname	C	the data set name from the _WRITE_ method
gif–device	C	the device driver name.

_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);
```

Where...	Is Type...	And Contains...
statistic	C	the statistic that is to be graphed
analysis–variable	C	the analysis variable that is to be graphed
down–variable	C	the down dimension variable that is to be graphed
dsname	C	the data set name from the _WRITE_ method
gif–device	C	the device driver name.

_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);
```

Where...	Is Type...	And Contains...
statistic	C	the statistic that is to be graphed
analysis–variable	C	the analysis variable that is to be graphed
down–variable	C	the down dimension variable that is to be graphed
dsname	C	the data set name from the _WRITE_ method
gif–device	C	the device driver name.

_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);
```

Where...	Is Type...	And Contains...
statistic	C	the statistic that is to be graphed
analysis–variable	C	the analysis variable that is to be graphed
down–variable	C	the down dimension variable that is to be graphed
dsname	C	the data set name from the _WRITE_ method
gif–device	C	the device driver name.

_DISPLAY_STATISTIC_VARS_ Method

Outputs the selected statistics to the report table

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.

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);
```

Where...	Is Type...	And Contains...
column−list	N	the column list from the EMDDB_M class.
analysis−variable	N	the analysis variable that is to be graphed.
_url	C	the URL of the next query.
_argument−string	C	the argument string for the next query.
_argument−string2	C	the argument string for the next query.
initial−url	C	the URL of the initial HTML page.
URL	C	the broker component of the URL.
service	C	the broker service that is being used.
background−type	C	the background type (IMAGE or COLOR). This value is optional.
background−value	C	the background value. This value is optional.
title	C	the HTML page title.
webcls	C	the WEBEIS class name.
dlflag	N	a flag that indicates whether to download the table to a spreadsheet, where 0 = output HTML tags with data values; 1 = output data values with spreadsheet delimiters. This parameter is optional.
rowlist	N	the rowlist from the _GET_CLASS_COMBINATIONS_ method. This parameter is optional.

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
&_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);
```

Where...	Is Type...	And Contains...
dlflag	N	a flag that indicates whether to download the data to a spreadsheet. This parameter is optional.

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);
```

Where...	Is Type...	And Contains...
srchchar	C	the drill string for the down variable (V) or the across variable (VA).
titlemsg	C	the name of title message, where the name can be CL_DOWN (for down) or IN_ACROSS (for across).
varname	C	the down or across variable.
dlflag	N	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.

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

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 _BUILD_APPLICATION_LIST_.
- calls _CHECK_HIER_MEMBER_.
- calls _SET_DRILL_LEVELS_ to drill to the current level.
- calls emddb_m _SET_APPLICATION_.
- calls _BUILD_ARGS_STRING_.
- calls _BUILD_ARGS2_STRING_.
- 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 emddb_m _GET_CLASS_COMBINATIONS_ to get the row list.
- calls emddb_m _GET_CLASS_COMBINATIONS_ 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 _OPEN_TABLE_.
- calls _OPEN_TWOWAY_.
- calls _DISPLAY_ACROSS_CELLS_.
- calls _OUTPUT_EMPTY_CELL_.
- calls _DISPLAY_ANALYSIS_VARS_.
- calls _DISPLAY_DOWNVAR_CELL_.
- calls _DISPLAY_STATISTIC_VARS_.
- calls _DISPLAY_VALUES_.

Syntax

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

Where...	Is Type...	And Contains...
dlflag	N	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.

_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);
```

Where...	Is Type...	And Contains...
statistic	C	the statistic that is to be graphed.
analysis−variable	C	the analysis variable that is to be graphed.
down−variable	C	the down variable that is to be graphed.
across−variable	C	the across variable that is to be graphed.
dsname	C	the data set name from the _WRITE_ method.
gif−device	C	the device driver name.
subset−list	N	the initial subset list. This parameter is optional.

_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);
```

Where...	Is Type...	And Contains...
statistic	C	the statistic that is to be graphed.
analysis−variable	C	the analysis variable that is to be graphed.
down−variable	C	the down variable that is to be graphed.
across−variable	C	the across variable that is to be graphed.
dsname	C	the data set name from the _WRITE_ method.
gif−device	C	the device driver name.
subset−list	N	the subset list that is used for the initial graph. This parameter is optional.

_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);
```

Where...	Is Type...	And Contains...
stat	C	the statistic that is to be graphed.
var	C	the analysis variable that is to be graphed.
down	C	the down variable that is to be graphed.
across	C	the across variable that is to be graphed.
dsname	C	the data set name from _WRITE_ method.
gifdev	C	the device driver name.
subset−list	N	the subset list for the initial graph. This parameter is optional.

_DISPLAY_VALUES_ Method

Outputs the numerical values to the report table

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 drilldown
- outputs the class value for the current row
- outputs an <A> tag if drilldown 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.

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);
```

Where...	Is Type...	And Contains...
row−list	N	the Row list from EMDDB_M.
column−list	N	the column list from EMDDB_M.
actions−list	N	the actions sublist that determines drilldown.
metabase−id	N	the metabase ID number.
viewreport−flag	N	the **View Report** button flag.
_url	C	the URL of the next query.
_argument−string	C	the argument string for the next query.
_argument−string2	C	the argument string for the next query.
initial−url	C	the URL of the initial HTML page.
analysis−variable	C	the analysis variable that is to be graphed.
statistic−variable	C	the statistic that is to be graphed.
across−variable	N	the analysis variable that is to be graphed.
background−type	C	the background type (IMAGE or COLOR). This value is optional.
background−value	C	the background value. This value is optional.
title	C	the HTML page title.

webcls	C	the WEBEIS class name.
dlflag	N	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.

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">
<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

This method has been replaced by the _SET_DRILL_LEVELS_ method. See the _SET_DRILL_LEVELS_ 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);
```

Where...	Is Type...	And Contains...
label	C	the long label for an analysis variable
varlist	N	the list of analysis variables
name	C	the analysis variable name.

_GET_ANALYSIS_VARS_ Method

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

This method

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

Syntax

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

Where...	Is Type...	And Contains...
metabase-id	N	the metabase ID number.

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);
```

Where...	Is Type...	And Contains...
metabase-id	N	the metabase ID number.

_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);
```

Where...	Is Type...	And Contains...
model−name	C	the name of the data model to use.

_GET_DOWNVAR_LIST_ Method

Builds the down variable list and the dimensions label list

This method

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

Syntax

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

Where...	Is Type...	And Contains...
metabase−id	N	the metabase ID number.

_GET_EMDDBMID_ Method

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

Syntax

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

Where...	Is Type...	And Contains...
id	N	the ID of the data model.

_GET_GRAPH_VALUES_ Method

Gets the numeric values for the 3D clickable graph

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.

Syntax

```
CALL SEND(OBJID,'_GET_GRAPH_VALUES_');
```

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);
```

Where...	Is Type...	And Contains...
mddb	C	the MDDB name.

_GET_MESSAGE_ID_ Method

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

Syntax

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

Where...	Is Type...	And Contains...
msgid	N	the ID of the message object.

_GET_METABASE_NAME_ Method

Returns the metabase name from the METABASE_ instance variable

Syntax

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

Where...	Is Type...	And Contains...
metabase	C	the metabase name.

_GET_OUTPUT_FILE_ID_ Method

Returns the output file ID from the HTMLFILE_ instance variable

Syntax

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

Where...	Is Type...	And Contains...
fileid	N	the ID of the output file.

_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);
```

Where...	Is Type...	And Contains...
color	C	the display color
range−list	C	the RANGE list
num	N	the numerical value to search for.

_GET_STATDESC_ Method

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

Syntax

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

Where...	Is Type...	And Contains...
statdesc	N	the ID of the list that contains statistics descriptions.

_GET_SUBSET_FLAG_ Method

Returns the value of the SUBSET_FLAG_ instance variable

Syntax

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

Where...	Is Type...	And Contains...
flagval	C	the value of the subset flag.

_GET_USEHOLAP_ Method

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

Syntax

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

Where...	Is Type...	And Contains...
id	N	the ID of the data model.

_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);
```

Where...	Is Type...	And Contains...
url	C	the URL of the next query.
form−name	C	the name of the form. This parameter is optional.
form−target	C	the target window name. This parameter is optional.

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 oneway report table

This method

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

Syntax

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

Where...	Is Type...	And Contains...
dlflag	N	a flag that indicates whether to download the table to a spreadsheet.

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 will be written

Syntax

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

Where...	Is Type...	And Contains...
indxfile	C	the fileref of the file that is to be opened.
msgdest	C	the destination for error messages. Valid values are LOG or DIALOG.
rc	N	the return code for errors (1=error).

_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);
```

Where...	Is Type...	And Contains...
brdrvalue	C	an optional parameter that specifies the table border thickness
table−width	C	an optional parameter that specifies the width of the table cells (as a percentage of the document width)
border−color−dark	C	an optional parameter that specifies a table cell border color attribute
border−color−light	C	an optional parameter that specifies a table cell border color attribute
background−color	C	an optional parameter that specifies the background color of the table
cell−padding	C	an optional parameter that specifies the spacing that is inside the table cells
cell−spacing	C	an optional parameter that specifies the spacing between the table cells
css−class	C	an optional parameter that specifies the label for a cascading style sheet tag

For further explanation of 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

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 drilldown has occurred.

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);
```

Where...	Is Type...	And Contains...
column−list	N	the column list from the _emddb_m.
viewreport−flag	N	the **View Report** button flag.
_url	C	yhe broker component of the URL.
_argument−string	C	the argument string for the next query.
_argument−string2	C	the argument string for the next query.
_argument−string3	C	the argument string for next query.
initial−url	C	the URL of the initial HTML page.
url	C	the URL for the next query.
service	C	the broker service that is being used.
analysis−variable	C	the analysis variable that is to be graphed.
statistic−variable	C	the statistic that is to be graphed.
analysis−variable	N	the analysis variable that is to be graphed.
background−type	C	the background type (IMAGE or COLOR). This parameter is optional.
background−value	C	the background value. This parameter is optional.
webeis−class	C	the WEBEIS class name.
dlflag	N	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.

_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

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.

Syntax

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

Where...	Is Type...	And Contains...
across−variable	C	the previously selected across variable. This parameter is optional.

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

This stub method is called from the _OUTPUT_CLASSVAL_URL_FN_ method.

Syntax

```
CALL SEND(OBJID,"_OUTPUT_ADDTL_CLSVAL_PARMS_');
```

_OUTPUT_ADDTL_RT_PARMS_ Method

Adds additional URL parameters to the reach–through links

This stub method is called from the _OUTPUT_REACHTHRU_URL_FN_ method.

Syntax

```
CALL SEND(OBJID,'_OUTPUT_ADDTL_RT_PARMS_');
```

_OUTPUT_ADDTOFAV_FUNCTION_ Method

Outputs the addtofav JavaScript function on the toolbar page

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

Syntax

```
 CALL SEND(OBJID,'_OUTPUT_ADDTOFAV_FUNCTION_');
```

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);
```

Where...	Is Type...	And Contains...
service−name	C	the broker service value
next−program	C	the next SCL program to execute.

_OUTPUT_ANAL_LIST_ Method

Outputs a label and HTML tags for a selection list

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.

Syntax

```
CALL SEND(OBJID,'_OUTPUT_ANAL_LIST_');
```

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);
```

Where...	Is Type...	And Contains...
tblflag	C	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.
selvar	C	the analysis variable to mark SELECTED.

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

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

Syntax

```
CALL SEND(OBJID,'_OUTPUT_ARROW_FUNCTIONS_');
```

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.
          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" && fromlist
          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[
          tolistbox.options[pos]=new Option(statslabellist[fromlistbox.options[j].value],fromlistbox.
          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);
```

Where...	Is Type...	And Contains...
bar−shape	C	the currently selected graph bar shape
view−report−flag	N	the **View Report** flag.

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_',vrlfag,url,
          service-name,analysis-variable,
          statistic,down-variable,graph-type,
          background-type,background-value,title,
          webeis-class);
```

Where...	Is Type...	And Contains...
vrflag	N	the **View Report** button flag.
url	C	the broker component of the URL.
service−name	C	the broker service value.
analysis−variable	C	the analysis variable that is to be graphed.
statistic	C	the statistic that isto be graphed.
down−variable	C	the down variable that is to be graphed,
graph−type	C	the graph type (BLOCK, HBAR, PIE, PLOT, VBAR).
background−type	C	the background type (IMAGE or COLOR). This value is optional.
background−value	C	the background value. This value is optional.
title	C	the HTML page title.
webeis−class	C	the WEBEIS class name.

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

This is a stub method.

Syntax

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

Where...	Is Type...	And Contains...
service−name	C	the broker service value.
analysis−variable	C	the analysis variable that is to be graphed.
statistic	C	the statistic that is to be graphed.
across−variable	C	the across variable that is to be graphed.
background−type	C	the background type (IMAGE or COLOR). This value is optional.
webeis−class	C	the WEBEIS class name.
background−value	C	the background value. This value is optional.
title	C	the HTML page title.
url	C	the broker component of the URL.
vrflsg	C	the View Report bottom flag

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
```

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 3D Clickable graph

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

Syntax

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

Where...	Is Type...	And Contains...
url	C	the broker component of the URL.
service−name	C	the broker service value.
graph−type	C	the graph type (BLOCK, HBAR, PIE, PLOT, VBAR).
analysis−variable	C	the analysis variable that is to be graphed.
statistic	C	the statistic that is to be graphed.
down−variable	C	the down variable that is to be graphed.
across−variable	C	the across variable that is to be graphed.
webeis−class	C	the WEBEIS class name.
background−type	C	the background type (IMAGE or COLOR). This value is optional.
background−value	C	the background value. This value is optional.
bar−shape	C	the graph bar shape (Block, Cylinder, Hexagon, Prism, Star).

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 that is used 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>
</TR>
```

_OUTPUT_DIMBTN_URL_FN_ Method

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

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

Syntax

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

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
                  }
               }
               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_');
```

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

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.

Syntax

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

Where...	Is Type...	And Contains...
down−variable	C	the previously selected down variable. This parameter is optional.
url	C	the broker component of the URL. This parameter is optional.

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 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);
```

Where...	Is Type...	And Contains...
dataset–name	C	the base table data set name
background	C	the HTML background value
url	C	the broker component of the URL
service–name	C	the broker service value
dataset–member	C	the data set name (for example, PRDSALE)
next–program–library	C	the library for the download to spreadsheet program
next–program–catalog	C	the catalog for the download to spreadsheet program
next–program	C	the next SCL program to execute to display additional rows of data
debug–value	C	the broker debug value
where–clause	C	the where clause to apply to the data.

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);
```

Where...	Is Type...	And Contains...
dataset−name	C	the base table data set name
variable−string	C	the selected variables to display, separated by spaces
startat	N	the starting row to display
number−of−rows	N	the number of rows to display
total−rows	N	the total number rows of detail data.

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);
```

Where...	Is Type...	And Contains...
metabase	C	the metabase name.
background−value	C	the background image URL or color value. This value is optional.
background−type	C	the background type (COLOR or IMAGE). This value is optional.
service	C	the application server service.
debug	C	the debug level.
title	C	the HTML page title.
webeis−class	C	the WEBEIS class name.

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);
```

Where...	Is Type...	And Contains...
spannum	N	the number of columns to span.
dlflag	N	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.
cssclass	C	the class name for the cascading style sheet class tag. This parameter is optional.

_OUTPUT_EMPTY_SERVICE_LIST_ Method

Outputs an empty service list

This method outputs

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

Syntax

```
CALL SEND(OBJID,'_OUTPUT_EMPTY_SERVICE_LIST_');
```

_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

This method outputs

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

Syntax

```
CALL SEND(OBJID,'_OUTPUT_GRAPH_INSTR_');
```

_OUTPUT_GRAPH_LIST_ Method

Outputs the list of graph types

This method outputs

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

Syntax

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

Where...	Is Type...	And Contains...
grphtype	C	the previously selected graph type
vrflag	N	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.

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);
```

Where...	Is Type...	And Contains...
grtype	C	the previously selected graph type
grmsg	C	the mnemonic of the graph type message
groption	C	the value for the OPTION tag

_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_');
```

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
```

_OUTPUT_HDR_ Method

Outputs the opening tags for the ReportLayout page

Syntax

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

Where...	Is Type...	And Contains...
url	C	the Broker component of the URL.
background−type	C	the background type (COLOR or IMAGE). This parameter is optional.
background−value	C	the background value. This parameter is optional.

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

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

Syntax

```
  CALL SEND(OBJID,'_OUTPUT_HELP_BUTTON_';);
```

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);
```

Where...	Is Type...	And Contains...
across−variable	C	the across value that is to be graphed.
statistic−variable	C	the statistic that is to be graphed.
analysis−variable	C	the variable that is to be graphed.
initial−url	C	the URL of the initial HTML page.
service	C	the Broker service.
background−type	C	the background type (IMAGE or COLOR). This parameter is optional.
background−value	C	the background value. This parameter is optional.
title	C	the title for the HTML page. This parameter is optional.
webcls	C	the WEBEIS class name (for subclassing).

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

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

Syntax

```
CALL SEND(OBJID,'_OUTPUT_HTML_AFTER_BODY_');
```

_OUTPUT_HTML_BEF_CLOSE_BODY_ Method

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

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

Syntax

```
CALL SEND(OBJID,'_OUTPUT_HTML_BEF_CLOSE_BODY_');
```

_OUTPUT_HTML_FORM_HEADER_ Method

Outputs the opening tags for the static HTML page

This method

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

Syntax

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

Where...	Is Type...	And Contains...
title	C	n optional title for the page.
cgi	C	the Broker component for the ACTION tag.
background−value	C	the background image URL or color value. This parameter is optional.
background−type	C	the background type (COLOR or IMAGE). This parameter is optional.

_OUTPUT_LAYOUT_BUTTON_ Method

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

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

Syntax

```
CALL SEND(OBJID,'_OUTPUT_LAYOUT_BUTTON_');
```

Example

The following output is produced:

```
<A href="../mddbapp.hlp/" onClick="this.href=clsurl('_PROGRAM=SASHELP.WEBEIS.MDDBRPTS.SCL')" TARGET="_
<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);
```

Where...	Is Type...	And Contains...
url	C	the broker component of the URL.
service−name	C	the broker service value.
background−type	C	the background type (IMAGE or COLOR). This parameter is optional.
graph−type	C	the graph type (BLOCK, HBAR, PIE, PLOT, VBAR).
background−value	C	the background value. This parameter is optional.
analysis−variable	C	the analysis variable that is to be graphed.
statistic	C	the statistic that is to be graphed.
down−variable	C	the down variable that is to be graphed.
across−variable	C	the across variable that is to be graphed.

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_');
```

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);
```

Where...	Is Type...	And Contains...
url	C	the broker component of the URL.
service−name	C	the broker service value.
background−type	C	the background type (IMAGE or COLOR). This parameter is optional.
graph−type	C	the graph type (BLOCK, HBAR, PIE, PLOT, VBAR).
background−value	C	the background value. This parameter is optional.
analysis−variable	C	the analysis variable that is to be graphed.
statistic	C	the statistic that is to be graphed.
down−variable	C	the down variable that is to be graphed.
across−variable	C	the across variable that is to be graphed.

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

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

Syntax

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

Where...	Is Type...	And Contains...
mddblist	N	the list of MDDBs.
mddb	C	the currently selected MDDB. This parameter is optional.

_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_');
```

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

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

Syntax

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

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
                     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);
```

Where...	Is Type...	And Contains...
_url	C	the broker component of the URL
message−id	N	the ID of the message system
graph−type	C	the graph type
bar−shape	C	the graph bar shape.

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);
```

Where...	Is Type...	And Contains...
mbid	N	the ID number of the metabase
rowlist	N	the row list from the EMDDB_M class
rowndx	N	the index of the current row in the rowlist
collist	N	the column list from the EMDDB_M class
colndx	N	the index of the current column in the collist
curlist	N	the list of classes and their associated values.

Example

The following output is produced:

```
<A href="../mddbapp.hlp/" onClick="this.href=rturl('_WHERE=COUNTRY%3D%22CANADA%223D%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);
```

Where...	Is Type...	And Contains...
service	C	the broker service that is being used.
nextpgm	C	the 4−level name of the program to run in order to display the detail data. The default is SASHELP.WEBEIS.DS2HTM.SCL.
dataset	C	the name of the data set that contains the detail data.
bgtype	C	the background type (IMAGE, COLOR, or blank).
bg	C	the background value.
url	C	the broker component of the URL.

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);
```

Where...	Is Type...	And Contains...
url	C	the broker component of the URL
service	C	the broker service that is being used
bgtype	C	the background type (IMAGE, COLOR, or blank)
grphtype	C	the selected graph type
bg	C	the background value
grphvar	C	the analysis variable that is to be graphed
grphstat	C	the statistic that is to be graphed
grphdown	C	the down dimension variable that is to be graphed
grphacr	C	the across dimension variable that is to be graphed
debug	C	the broker debug value.

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);
```

Where...	Is Type...	And Contains...
rpttype	C	a previously selected report type.

_OUTPUT_ROTATE_BUTTON_ Method

Outputs the Rotate button for the two−dimensional report

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

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);
```

The following output is produced:

Where...	Is Type...	And Contains...
viewreport−flag	N	the View Report button flag.
url	C	the broker component of the URL.
service	C	the Broker service that is being used.
initial−url	C	the URL of the initial HTML page.
across−variable	C	the across variable that is selected.
down−variable	C	the down variable that is selected.
analysis−variable	C	the analysis variable that is to be graphed.
statistic−variable	C	the statistic that is to be graphed.
down−variable	N	the down variable that is to be graphed
graph−type	N	the selected graph type.
background−type	C	the background type (IMAGE or COLOR). This parameter is optional.
background−value	C	the background value. This parameter is optional.
title	C	the HTML title page.
webeis−class	C	the WEBEIS class name.
hideflag	C	a hidden variables flag . If hideflag = 1, variables are not output. This parameter is optional.

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_',vrlfag,url,service-name,
     analysis-variable,statistic,down-variable,graph-type,
     background-type,background-value,title,webeis-class);
```

Where...	Is Type...	And Contains...
vrflag	N	the **View Report** button flag.
url	C	the broker component of the URL.
service−name	C	the broker service value.
analysis−variable	C	the analysis variable that is to be graphed.
statistic	C	the statistic that is to be graphed.
down−variable	C	the down variable that is to be graphed.
graph−type	C	the graph type (BLOCK, HBAR, PIE, PLOT, VBAR).
background−type	C	the background type (IMAGE or COLOR). This parameter is optional.
background−value	C	the background value. This parameter is optional.
title	C	the HTML page title.
webeis−class	C	the WEBEIS class name.

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

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

Syntax

```
CALL SEND(OBJID,'_OUTPUT_SETURL_FUNCTION_');
```

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);
```

Where...	Is Type...	And Contains...
vrflag	N	a flag indicating that the **View Report** button was pressed.
url	C	the broker path.
service	C	the broker service that is being used.
grphvar	C	the analysis variable that is to be graphed.
grphstat	C	the statistic that is to be graphed.
grphdown	C	the down dimension variable that is to be graphed.
grphtype	C	the graph type.
background−type	C	the background type (IMAGE or COLOR). This parameter is optional.
background−value	C	the background value. This parameter is optional.
title	C	the title. This parameter is optional.
webcls	C	the WEBEIS class name (for subclassing).

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);
```

Where...	Is Type...	And Contains...
vrflag	N	the **View Report** button flag.
url	C	the broker component of the URL.
service−name	C	the broker service value.
analysis−variable	C	the analysis variable that is to be graphed.
statistic	C	the statistic that is to be graphed.
down−variable	C	the down variable that is to be graphed.
graph−type	C	the graph type (BLOCK, HBAR, PIE, PLOT, VBAR).
background−type	C	the background type (IMAGE or COLOR). This parameter is optional.
background−value	C	the background value. This parameter is optional.
title	C	the HTML page title.
webeis−class	C	the WEBEIS class name.

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);
```

Where...	Is Type...	And Contains...
url	C	the URL for the next query
service	C	the broker service that is being used
graph−type	C	the selected graph type
analysis−variable	C	the analysis variablethat is to be graphed
statistic−variable	C	the statistic that is to be graphed
down−variable	C	the down variable that is to be graphed
across−variable	C	the analysis variable that is to be graphed
webcls	C	the WEBEIS class name.

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 per 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); upda
<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);"><
</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_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);
```

Where...	Is Type...	And Contains...
metabase	C	the metabase name.
background−value	C	the background image URL or color value. This parameter is optional.
background−type	C	the background type (COLOR or IMAGE). This parameter is optional.
webeis−class	C	the WEBEIS class name.

_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_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_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_SUBSET_SELECTIONS_ Method

Outputs the subset selection lists

Syntax

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

Where...	Is Type...	And Contains...
subloc	C	the list box location.

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_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_');
```

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_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_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);
```

Where...	Is Type...	And Contains...
vrflag	N	a flag indicating that the **View Report** button was pressed.
url	C	the broker component of the URL.
service	C	the broker service that is being used.
grphvar	C	the analysis variable that is to be graphed.
grphstat	C	the statistic that is to be graphed.
grphdown	C	the down dimension variable that is to be graphed.
grphtype	C	the selected graph type.
bgtype	C	the background type (IMAGE, COLOR, or blank).
bg	C	the background value.
title	C	the title. This value is optional.
webcls	C	the WEBEIS class name.
tbloc	C	the toolbar location, where 1=top, 2=bottom, 3=left, 4=right, and 5=none.

Example

The following output is produced:

```
<TR>
<TD>
<A HREF="/cgi-bin/broker/prdmddb.csv?_service=default&_debug=0&_program=sashelp.webeis.oprpt.scl&SPDS
&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/b
</TD>
<TD>
<A href="../mddbapp.hlp/" onClick="this.href=clsurl('ROTATE=1&_PROGRAM=SASHELP.WEBEIS.SHOWRPT.SCL')" 
</TD>
<TD>
<A href="../mddbapp.hlp/" onClick="this.href=clsurl('_PROGRAM=SASHELP.WEBEIS.MDDBRPTS.SCL')" TARGET="
<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="im
</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);
```

Where...	Is Type...	And Contains...
url	C	the broker component of the URL
service	C	the broker service that is being used
bgtype	C	the background type (IMAGE, COLOR, or blank)
grphtype	C	the selected graph type
bg	C	the background value
grphvar	C	the analysis variable that is to be graphed
grphstat	C	the statistic that is to be graphed
grphdown	C	the down dimension variable that is to be graphed
grphacr	C	the across dimension variable that is to be graphed.

Example

The following output is produced:

```
<FRAME NAME="toolbar_window" SRC="/cgi-bin/broker?_program=sashelp.webeis.optbar.scl
&_service=defaultmddb=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"&gt;
```

_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

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

Syntax

```
 CALL SEND(OBJID,'_OUTPUT_UPDATE_CLEAR_');
```

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);
```

Where...	Is Type...	And Contains...
noexp	C	an instruction not to output expand the information. A nonblank means do not output.

_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);
```

Where...	Is Type...	And Contains...
url	C	the broker component of the URL
msgid	N	the ID number of the message system
vrflag	N	a flag indicating that the **View Report** button was pressed
grphtype	C	the selected graph type.

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
<TR><TD CLASS="label">Height</TD><TD><INPUT TYPE=text NAME="gh" CLASS="select" SIZE=4 MAXLENGTH=4 VALU
<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
<TR><TD CLASS="label">Height</TD><TD><INPUT TYPE=text NAME="sh" CLASS="select" SIZE=3 MAXLENGTH=3 VALU
</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 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);
```

Where...	Is Type...	And Contains...
dataset–name	N	the base table data set name.
url	N	the broker component of the URL.
htmlfile–id	N	the ID for the _webout file.
message–id	N	the ID of the message system.
dataset–id	N	the ID for the base table data set.
service–name	N	the broker service value.
debug–value	N	the application server debug level.
next–program	N	the next SCL program to execute when the form is completed.
background–type	N	the background type (IMAGE or COLOR). This parameter is optional.
background–value	N	the background value. This parameter is optional.

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);
```

Where...	Is Type...	And Contains...
dataset−id	N	the base table data set identifier
htmlfile−id	N	the identifier for the _webout file.

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 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);
```

Where...	Is Type...	And Contains...
dataset–id	N	the ID for the base table data set.
htmlfile–id	N	the ID for the _webout file.
message–id	N	the ID of the message system.
dataset–name	N	the base table data set name
url	N	the broker component of the URL.
service–name	N	the broker service value.
debug–value	N	the application server debug level.
next–program	N	the next SCL program to execute when the form is completed.
background–type	N	the background type (IMAGE or COLOR). This parameter is optional.
background–value	N	the background value. This parameter is optional.

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 submit 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_');
```

The following output is produced:

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

_POST_DISPLAY_OPTIONS_ Method

Specifies additional options on the Layout page

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

Syntax

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

Where...	Is Type...	And Contains...
parmlist	N	an optional list for passing in information to the method.

_PRE_DISPLAY_OPTIONS_ Method

Specifies additional options on the Layout page

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

Syntax

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

Where...	Is Type...	And Contains...
parmlist	N	an optional list for passing in information to the method.

_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 in order to activate across totals

Syntax

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

Where...	Is Type...	And Contains...
ttlflag	C	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.

_SET_DOWN_TOTAL_FLAG_ Method

Sets the dtotal_ instance variable in order to activate down totals

Syntax

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

Where...	Is Type...	And Contains...
ttlflag	C	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.

_SET_DRILL_LEVELS_ Method

Updates the SAVED_L sublist on the application list to set the drilldown values

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 HIERARCHIES_L if it is empty
- updates the CURRENT_DRILLS sublist for each hierarchy with the current drilldown information
- sets the CURRENT_LEVEL value for each hierarchy on HIERARCHIES_L.

Syntax

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

Where...	Is Type...	And Contains...
application−list	N	the list ID of the application list. For more information on application lists, see the online Help for SAS/EIS software.

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);
```

Where...	Is Type...	And Contains...
id	N	the ID of the data model.

_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);
```

Where...	Is Type...	And Contains...
rowlist	N	the rowlist from the GET_CLASS_COMBINATIONS method
actionsl	N	the actionsl list from the data model.

_SET_HIERL_LIST_ Method

Sets the hierl_ instance variable

Syntax

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

Where...	Is Type...	And Contains...
listid	N	the list ID of the target list to be copied.

_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);
```

Where...	Is Type...	And Contains...
flagval	C	the value of the subset flag.

_SET_SUBSETS_LIST_ Method

Defines the subsets to be used

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

Syntax

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

Where...	Is Type...	And Contains...
varnum	N	the number of selected subset values.

_SHOW_GRAPH_ Method

Sets the graphing variables and calls a graphing method

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.

Syntax

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

Where...	Is Type...	And Contains...
url	C	the broker component of the URL
service	C	the broker service that is being used
_argument−string	C	the argument string for the next query
_argument−sring2	C	the argument string for the next query
graph−type	C	the selected graph type
analysis−variable	C	the analysis variable that is to be graphed
statistic−variable	C	the statistic that is to be graphed
down−variable	C	the down variable that is to be graphed
across−variable	N	the across variable that is to be graphed
webcls	C	the WEBEIS class name.

_SUBMIT_GOPTIONS_ Method

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

Syntax

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

Where...	Is Type...	And Contains...
gifdev	C	the name of the device driver to be used.

_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);
```

Where...	Is Type...	And Contains...
stat	C	the statistic used in the graph
var	C	the analysis variable used in the graph.

_UPDATE_STATS_LIST_ Method

Outputs the updatestatslist JavaScript function on the Dimensions page

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

Syntax

```
CALL SEND(OBJID,'_UPDATE_STATS_LIST_');
```

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++;
            }
         }
}
}
```

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 1 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 2 lists and describes these variables. For more information on the REQUEST INIT program, see PROC APPSRV, REQUEST Statement syntax.

Table 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.
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
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=3D Clickable Graph, 2=Standard GIF Graph(SAS/GRAPH)
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
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		For subclassing, default is SASHELP.WEBEIS.WEBEIS.CLASS

	WEBEIS class name	
CSS	Stylesheet URL	Applies to variable selection and report pages
CSST	Toolbar stylesheet URL	Applies to toolbar frame; if not specified, uses CSS value

Table 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: http://support.sas.com/rnd/web/intrnet/mddbapp/hinttips.html
_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 scrollbar to frame
_MRVTBSZ	Toolbar size in pixels	A character string of the form (horiz, vert); the default is (50, 125)
_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		The default is 100

	Value for the radio button that represents the fourth number of rows	
_MRVNRLKS	The 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"

Customizing the MDDB Report Viewer Using Cascading Style Sheets

The MDDB Report Viewer uses cascading style sheet (CSS) properties to enable you to customize the viewer output. You can use cascading style sheets to modify background colors, fonts, the size and location of the HTML elements, and to indicate whether the HTML elements are displayed or not. For more information on style sheet capabilities, consult your favorite HTML reference guide.

HTML elements use the CLASS parameter to surface style sheet properties. Table 1 lists the CLASS definitions that are used by the MDDB Report Viewer. An example style sheet is shipped with the viewer software, 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">
```

or 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 optionally you can apply a separate stylesheet 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 1. 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−hand corner
FILTERBOX	Table containing filter list boxes
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 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

Your Turn

If you have comments or suggestions about *MDDB Report Viewer,* please send them to us on a photocopy of this page or send us electronic mail.

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