Oracle® Smart View for Office

Developer's Guide

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1 About VBA Functions

In This Chapter

Assumed Knowledge

You can customize and automate common tasks using Microsoft Visual Basic for Applications (VBA) functions in Oracle Smart View for Office using Microsoft Excel's Visual Basic Editor.

To use the information in this chapter to develop VBA applications for Smart View, you must have working knowledge of the following:

- Smart View and how it is used in your organization
- Visual Basic or VBA programming language
- Excel Visual Basic Editor as an environment for VBA development

VBA Functions Location

All Smart View VBA functions are contained in the file `smartview.bas`, located by default in *EPM_ORACLE_HOME*`/smartview/bin`. To access these functions, import `smartview.bas` into a Visual Basic Editor module and use this module as a source of VBA functions for your program.

Using VBA Function Code Samples

This guide provides examples for each VBA function. You can copy these code samples into a Visual Basic Editor Module; however Oracle recommends that you use `smartview.bas` imported into a module as the source of the function declarations. This is particularly important for declarations that contain arrays. See "VBA Functions Location" on page 15.

If you do copy and paste code samples, always use the HTML version of this guide. Copying from a PDF file may cause characters in the code to be lost.

VBA Functions in 64-Bit Versions

If you are using the 64-bit version of Microsoft Office, VBA function declarations are slightly different from those in the 32-bit version. In 64-bit versions, the declarations include `PtrSafe` after the `Declare` keyword. For example:

- 32-bit version: `Public Declare Function HypMenuVAbout Lib "HsAddin" () As Long`
- 64-bit version: `Public Declare PtrSafe Function HypMenuVAbout Lib "HsAddin" () As Long.`

The `smartview.bas` file provided with your Smart View installation automatically contains the appropriate declaration statements.

Note: The code samples in this guide contain declarations for the 32-bit version of Office; if you have the 64-bit version, you must ensure that `PtrSafe` is included in the declarations.

VBA Parameters

Most VBA functions require you to supply values for one or more parameters. Table 1 lists the parameter types and the valid values for each type:

Table 1 VBA Parameters

Parameter	Value
Text	A word or phrase or name in quotation marks. For example: ● “Smart View” ● “[Book2.xls]Sheet1”
Boolean	● True ● False
Range object	A cell, row or column, one or more selections of cells, or a three-dimensional range address, surrounded by quotation marks. For example: ● RANGE(“A1”) ● RANGE(“A1:B2”) ● RANGE(“G:G,I:I,K:K”) ● RANGE(“A1:B5,C1:C10,D5:L8”) ● RANGE(“Sheet1!C3:R20,Sheet2!C3:R20”)

Parameter	Value
Number	A number without quotation marks and without commas. For example: ● 1 ● 2.5 ● 50000
List of strings	A list of text values separated by commas. For example: “Qtr1”, “Actual”, “Oregon”
Constant	A predefined constant from `smartview.bas`
Default value	● Null ● Empty **Note:** Many parameters have default values or behavior that the function uses if you specify Null or Empty. If you do not specify a value for such parameters, use Null or Empty. See the description of each function for default values of such parameters.

VBA Return Values

Smart View VBA functions may return any of the following values to indicate success or failure of the function. A return value of zero (0) indicates that the function ran successfully. Negative numbers represent client issues; positive numbers represent server issues. Table 2 lists the return values.

Table 2 Return Values and Their Descriptions

Return Value		Description
4	SS_ERR_ERROR	An error specific to the data provider or a generic error that cannot be mapped to a value.
2	SS_NO_GRID_ON_SHEET_BUT_FUNCTIONS_SUBMITTED	The value returned when a function sheet without a grid is submitted.
1	SS_SHEET_NOT_CONNECTED_BUT_FUNCTIONS_ SUBMITTED	The value returned when a function sheet that is not connected is submitted.
0	SS_OK	The function ran successfully.
-1	SS_INIT_ERR	Initialization error.
-2	SS_TERM_ERR	Termination error.
-3	SS_NOT_INIT	Initialization error.
-4	SS_NOT_CONNECTED	The spreadsheet is not yet connected to the server.
-5	SS_NOT_LOCKED	The spreadsheet is not locked.
-6	SS_INVALID_SSTABLE	The spreadsheet has become unstable.
-7	SS_INVALID_SSDATA	The spreadsheet contains invalid data.

Return Value		Description
-8	SS_NOUNDO_INFO	No Undo information exists.
-9	SS_CANCELED	Operation has been canceled.
-10	SS_GLOBALOPTS	Not used.
-11	SS_SHEETOPTS	Not used.
-12	SS_NOTENABLED	Undo is not enabled.
-13	SS_NO_MEMORY	Not enough memory resources are available.
-14	SS_DIALOG_ERROR	Appropriate dialog box could not be displayed.
-15	SS_INVALID_PARAM	Function contains an invalid parameter.
-16	SS_CALCULATING	Calculation is in progress.
-17	SS_SQL_IN_PROGRESS	Obsolete setting.
-18	SS_FORMULAPRESERVE	Operation is not allowed because the spreadsheet is in formula preservation mode.
-19	SS_INTERNALSSERROR	Operation cannot take place on the specified sheet.
-20	SS_INVALID_SHEET	Current sheet cannot be determined.
-21	SS_NOACTIVESHEET	Spreadsheet name was not specified and no active sheet is selected.
-22	SS_NOTCALCULATING	Calculation cannot be canceled because no calculation is running.
-23	SS_INVALIDSELECTION	Selection parameter is invalid.
-24	SS_INVALIDTOKEN	Not used.
-25	SS_CASCADENOTALLOWED	Cascade list file cannot be created, or you are attempting to cascade while the spreadsheet is embedded in another document.
-26	SS_NOMACROS	Spreadsheet macros cannot be run due to a licensing agreement.
-27	SS_NOREADONLYMACROS	Spreadsheet macros which update the database cannot be run due to a licensing constraint.
-28	SS_READONLYSS	You have a read-only license and cannot update the database.
-29	SS_NOSQLACCESS	Obsolete setting.
-30	SS_MENUALREADYREMOVED	The menu is removed already.
-31	SS_MENUALREADYADDED	The menu is added already.

Return Value		Description
-32	SS_NOSPREADSHEETACCESS	Not used.
-33	SS_NOHANDLES	Not used.
-34	SS_NOPREVCONNECTION	Not used.
-35	SS_LROERROR	Not used.
-36	SS_LROWINAPPACCESSERR	Not used.
-37	SS_DATANAVINITERR	Not used.
-38	SS_PARAMSETNOTALLOWED	Not used.
-39	SS_SHEET_PROTECTED	The specified worksheet is protected. Unprotect the worksheet and try the operation again.
-40	SS_CALCSCRIPT_NOTFOUND	Calc script not found.
-41	SS_NOSUPPORT_PROVIDER	Provider not supported.
-42	SS_INVALID_ALIAS	Invalid alias.
-43	SS_CONN_NOT_FOUND	Connection not found.
-44	SS_APS_CONN_NOT_FOUND	Provider Services connection not found.
-45	SS_APS_NOT_CONNECTED	Provider Services not connected.
-46	SS_APS_CANT_CONNECT	Provider Services cannot connect.
-47	SS_CONN_ALREADY_EXISTS	Connection already exists.
-48	SS_APS_URL_NOT_SAVED	Provider Services URL not saved.
-49	SS_MIGRATION_OF_CONN_NOT_ALLOWED	Migration of connection not allowed.
-50	SS_CONN_MGR_NOT_INITIALIZED	Connection manager not initialized.
-51	SS_FAILED_TO_GET_APS_OVERRIDE_PROPERTY	Failed to get Provider Services override property.
-52	SS_FAILED_TO_SET_APS_OVERRIDE_PROPERTY	Failed to set Provider Services override property.
-53	SS_FAILED_TO_GET_APS_URL	Failed to get Provider Services URL.
-54	SS_APS_DISCONNECT_FAILED	Provider Services disconnect failed.
-55	SS_OPERATION_FAILED	Operation failed.
-56	SS_CANNOT_ASSOCIATE_SHEET_WITH_CONNECTION	Cannot associate sheet with connection.
-57	SS_REFRESH_SHEET_NEEDED	Worksheet refresh needed.
-58	SS_NO_GRID_OBJECT_ON_SHEET	No grid object on sheet.
-59	SS_NO_CONNECTION_ASSOCIATED	No connection associated.

Return Value		Description
-60	SS_NON_DATA_CELL_PASSED	Non-data cell passed.
-61	SS_DATA_CELL_IS_NOT_WRITABLE	Data cell is not writable.
-62	SS_NO_SVC_CONTENT_ON_SHEET	No Smart View content on sheet.
-63	SS_FAILED_TO_GET_OFFICE_OBJECT	Failed to get Office object.
-64	SS_OP_FAILED_AS_CHART_IS_SELECTED	Operation failed because chart is selected.
-65	SS_EXCEL_IN_EDIT_MODE	Excel in edit mode.
-66	SS_SHEET_NON_SMARTVIEW_COMPATIBLE	Sheet not compatible with Smart View.
-67	SS_APP_NOT_STANDALONE	Application not stand alone.
-68	SS_SMART_VIEW_DISABLED	Smart View is disabled.
-69	SS_VBA_DEPRECATED	The function has been deprecated.
-70	SS_OPERATION_NOT_SUPPORTED_IN_MULTIGRID_MODE	The operation is not supported in worksheets that are in multiple grid mode.
-71	SS_INVALID_MEMBER	The member name is invalid. Used with HypGetMemberInformation.
-72	SS_NO_SV_NAME_RANGE	No named ranges are available. Used with HypGetNameRangeList.
-73	SS_AMBIGUOUS_MENU	The menu item is ambiguous and could not be resolved. Used with HypExecuteMenu, HypHideRibbonMenu, and HypHideRibbonMenuReset.

Using Spreadsheet Toolkit VBA Applications in Smart View

VBA applications created in Oracle Hyperion Essbase Spreadsheet Toolkit can be converted to Smart View by making the following modifications:

- Replace the `EssV` prefix of Spreadsheet Toolkit functions with `Hyp`; for example, change `EssVRemoveOnly` to `HypRemoveOnly`.
- Replace the `EssMenuV` prefix of Oracle Hyperion Essbase Spreadsheet Toolkit menu functions with `HypMenuV`; for example, change `EssMenuVZoomIn` to `HypMenuVZoomIn`.
- Replace the declarations in `essxlvba.txt` with the declarations in `smartview.bas`.

VBA Function Types

- **Menu** functions are identical to the equivalent commands on the Smart View menu and ribbon. See Chapter 2, "Menu Functions."

- **General** functions perform actions, set options, or retrieve information typically performed from the Smart View ribbon or Options dialog box. See Chapter 3, "General Functions."
- **Connection** functions perform actions related to connections to data providers. See Chapter 4, "Connection Functions."
- **Ad hoc** functions perform ad hoc operations such as zooming, retrieving and submitting data, and pivoting. See Chapter 5, "Ad Hoc Functions."
- The **Form** function opens a data form. See Chapter 6, "Form Functions."
- **Cell** functions perform operations and retrieve information for data cells and their contents. See Chapter 7, "Cell Functions."
- **POV** functions specify or retrieve settings for the POV. See Chapter 8, "POV Functions."
- **Calculation script and business rule** functions retrieve lists of or execute calculation scripts and business rules. See Chapter 9, "Calculation Script and Business Rule Functions."
- **Calculation, consolidation, and translation** functions executes these operations on data for Oracle Hyperion Financial Management and Oracle Hyperion Enterprise® applications.See Chapter 10, "Calculation, Consolidation, and Translation Functions."
- **Member query** functions retrieve generation, level, attribute, and other information about members. See Chapter 11, "Member Query Functions."
- **Options** functions set and retrieve information for global and/or sheet options, and enable deletion of MRU items. See Chapter 12, "Options Functions."
- **Dynamic link** functions set or retrieve data point details that are displayed in separate windows via dynamic links. See Chapter 13, "Dynamic Link Functions."
- The **MDX query** function executes an MDX query whose results are not displayed in a worksheet. See Chapter 14, "MDX Query Functions."

Note: For an alphabetical list of VBA functions, see the index.

2 Menu Functions

In This Chapter

About Menu Functions

VBA menu functions are identical to the equivalent commands on the Smart View menu and ribbon. The requirements for the menu functions are the same as those for the menu commands. For example, if you must be logged in to an Oracle Essbase server to use a menu command, then you must also be logged in to an Essbase server to use the equivalent VBA command.

HypMenuVAbout

Data provider types: Essbase, Oracle Hyperion Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVAbout() opens the **Help About** screen.

Syntax

HypMenuVAbout()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVAbout Lib "HsAddin" () As Long
    Sub MAbout()
X=HypMenuVAbout()
End Sub
```

HypMenuVAdjust

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVAdjust() opens the **Adjust Data** dialog box.

Syntax

HypMenuVAdjust()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVAdjust Lib "HsAddin" () As Long
Sub MAdjust()
    X=HypMenuVAdjust()
End Sub
```

HypMenuVBusinessRules

Data provider types: Planning

Description

HypMenuVBusinessRules() opens the **Business Rules** dialog box.

Syntax

HypMenuVBusinessRules()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVBusinessRules Lib "HsAddin" () As Long
Sub MBusinessRules()
   X=HypMenuVBusinessRules()
End Sub
```

HypMenuVCalculation

Data provider types: Essbase, Financial Management (ad hoc only), Hyperion Enterprise

Description

HypMenuVCalculation() opens the **Calculation Scripts** dialog box.

Syntax

HypMenuVCalculation()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVCalculation Lib "HsAddin"() As Long
Sub MCalc()
    X=HypMenuVCalculation()
End Sub
```

HypMenuVCascadeNewWorkbook

Data provider types: Essbase, Planning, Hyperion Enterprise

Description

HypMenuVCascadeNewWorkbook() opens the **Member Selection** dialog box to begin the cascading process to worksheets of a newly-opened Excel workbook.

Syntax

HypMenuVCascadeNewWorkbook()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVCascadeNewWorkbook Lib "HsAddin" () As Long
Sub MCascadeNewWorkbook()
    X=HypMenuVCascadeNewWorkbook()
End Sub
```

HypMenuVCascadeSameWorkbook

Data provider types: Essbase, Planning, Hyperion Enterprise

Description

HypMenuVCascadeSameWorkbook() opens the **Member Selection** dialog box to begin the cascading process to the same workbook.

Syntax

HypMenuVCascadeSameWorkbook()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVCascadeSameWorkbook Lib "HsAddin" () As Long
Sub MCascadeSameWorkbook()
    X=HypMenuVCascadeSameWorkbook()
End Sub
```

HypMenuVCellText

Data provider types: Planning, Financial Management, Hyperion Enterprise (forms only)

Description

HypMenuVCellText() opens the **Cell Comments** dialog box.

Syntax

HypMenuVCellText()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVCellText Lib "HsAddin" () As Long

Sub MCellText()
   X=HypMenuVCellText()
End Sub
```

HypMenuVCollapse

Data provider types: Planning (forms only)

Description

HypMenuVCollapse() collapses all levels of detail for the selected cells.

Syntax

HypMenuVCollapse()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVCollapse Lib "HsAddin" () As Long
Sub MHypMenuVCollapse()
   X=HypMenuVCollapse()
End Sub
```

HypMenuVConnect

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVConnect() opens the Smart View Panel and enables users to connect to a data provider.

Syntax

HypMenuVConnect()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVConnect Lib "HsAddin"() As Long
Sub MConn()
   X=HypMenuVConnect()
End Sub
```

HypMenuVCopyDataPoints

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVCopyDataPoints() copies data points from Excel for pasting into Word or PowerPoint. See also "HypMenuVPasteDataPoints" on page 33.

Syntax

HypMenuVCopyDataPoints()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVCopyDataPoints Lib "HsAddin" () As Long
Sub MCopyDataPoints()
   X=HypMenuVCopyDataPoints()
End Sub
```

HypMenuVExpand

Data provider types: Planning (forms only)

Description

HypMenuVExpand() displays all levels of detail for the selected cells.

Syntax

HypMenuVExpand()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVExpand Lib "HsAddin" () As Long
Sub MExpand()
   X=HypMenuVExpand()
End Sub
```

HypMenuVFunctionBuilder

Data provider types: Essbase Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVFunctionBuilder() opens the Function Builder.

Syntax

HypMenuVFunctionBuilder()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVFunctionBuilder Lib "HsAddin" () As Long
Sub MFunctionBuilder()
   X=HypMenuVFunctionBuilder()
End Sub
```

HypMenuVInstruction

Data provider types: Planning (forms only), Financial Management (forms only), Hyperion Enterprise (forms only)

Description

HypMenuVInstruction() opens the **Instructions** dialog box.

Syntax

Returns 0 if successful; otherwise, returns the appropriate error code.

Return Value

HypMenuVInstruction()

Example

```
Public Declare Function HypMenuVInstruction Lib "HsAddin" () As Long
Sub MInstruction()
   X=HypMenuVInstruction()
End Sub
```

HypMenuVKeepOnly

Data provider types: Essbase (ad hoc only), Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVKeepOnly() retains only the selected member (the active cell) or member range in the sheet.

Syntax

HypMenuVKeepOnly()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVKeepOnly Lib "HsAddin"() As Long
Sub MKeepOnly()
   X=HypMenuVKeepOnly()
End Sub
```

HypMenuVLRO

Data provider types: Essbase

Description

HypMenuVLRO() opens the **Linked Objects** dialog box.

Syntax

HypMenuVLRO()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVLRO Lib "HsAddin" () As Long
Sub MLRO()
   X=HypMenuVLRO()
End Sub
```

HypMenuVMemberInformation

Data provider types: Essbase

Description

HypMenuVMemberInformation() opens the **Member Information** dialog box.

Syntax

HypMenuVMemberInformation()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVMemberInformation Lib "HsAddin" () As Long
Sub MMemberInformation()
   X=HypMenuVMemberInformation()
End Sub
```

HypMenuVMemberSelection

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVMemberSelection() opens the **Member Selection** dialog box.

Syntax

HypMenuVMemberSelection()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVMemberSelection Lib "HsAddin" () As Long
Sub MMemberSelection()
   X=HypMenuVMemberSelection()
End Sub
```

HypMenuVMigrate

Data provider types: Financial Management, Hyperion Enterprise

Description

HypMenuVMigrate() launches the Financial Management and Hyperion Enterprise migration utility for **Active WorkBook Migration** and **Batch Migration**.

Syntax

HypMenuVMigrate (vtOption, vtOutput)

ByVal vtOption As Variant

ByRef vtOutput As Variant

Parameters

vtOption: Number that indicates the migration utility to be launched:

1—Financial Management Active Workbook Migration

2—Financial Management Batch Migration

3—Hyperion Enterprise Active WorkBook Migration

4—Hyperion Enterprise Batch Migration

vtOutput: Output parameter. Returns the migration result.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVMigrate Lib "HsAddin" (ByVal vtOption As Variant, ByRef
vtOutput As Variant) As Long

Sub MigrateHFM()
sts = HypMenuVMigrate(1, out)
MsgBox (out)
MsgBox (sts)
End Sub
```

HypMenuVOptions

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVOptions() opens the **Options** dialog box.

Syntax

HypMenuVOptions()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVOptions Lib "HsAddin"() As Long
Sub MOptions()
   X=HypMenuVOptions()
End Sub
```

HypMenuVPasteDataPoints

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVPasteDataPoints() pastes data points that were copied from Excel into Word or PowerPoint. See also "HypMenuVCopyDataPoints" on page 28.

Syntax

HypMenuVPasteDataPoints()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVPasteDataPoints Lib "HsAddin" () As Long
Sub MVPasteDataPoints()
   X=HypMenuVPasteDataPoints()
End Sub
```

HypMenuVPivot

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVPivot() pivots the members associated with the selected cell.

Syntax

HypMenuVPivot()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVPivot Lib "HsAddin"() As Long
Sub MPivot()
   X=HypMenuVPivot()
End Sub
```

HypMenuVPOVManager

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVPOVManager() opens the POV Manager.

Syntax

HypMenuVPOVManager()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVPOVManager Lib "HsAddin" () As Long
Sub MPOVManager()
```

```
   X=HypMenuVPOVManager()
End Sub
```

HypMenuVQueryDesigner

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVQueryDesigner() opens the Query Designer.

Syntax

HypMenuVQueryDesigner()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVQueryDesigner Lib "HsAddin"() As Long
Sub MDesigner()
   X=HypMenuVQueryDesigner ()
End Sub
```

HypMenuVRedo

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVRedo() reverses an Undo operation.

Syntax

HypMenuVRedo()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVRedo Lib "HsAddin" () As Long
Sub MRedo()
   X=HypMenuVRedo()
End Sub
```

HypMenuVRefresh

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVRefresh() refreshes the active worksheet.

Syntax

HypMenuVRefresh()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVRefresh Lib "HsAddin"() As Long
Sub MRetrieve()
   X=HypMenuVRefresh()
End Sub
```

HypMenuVRefreshAll

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVRefreshAll() refreshes data in all connected worksheets in an Excel workbook.

Syntax

HypMenuVRefreshAll()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVRefreshAll Lib "HsAddin" () As Long
Sub MRefreshAll()
   X=HypMenuVRefreshAll()
End Sub
```

HypMenuVRefreshOfflineDefinition

Data provider types: Planning

Description

HypMenuVRefreshOfflineDefinition() refreshes the Offline data form definition and data.

Syntax

HypMenuVRefreshOfflineDefinition()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVRefreshOfflineDefinition Lib "HsAddin" () As Long
Sub MRefreshOfflineDefinition()
   X=HypMenuVRefreshOfflineDefinition()
End Sub
```

HypMenuVRemoveOnly

Data provider types: Essbase Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVRemoveOnly() removes only the selected member or member range in the sheet.

Syntax

HypMenuVRemoveOnly()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVRemoveOnly Lib "HsAddin"() As Long
Sub MRemoveOnly()
   X=HypMenuVRemoveOnly()
End Sub
```

HypMenuVRulesOnForm

Data provider types: Planning (forms only)

Description

HypMenuVRulesOnForm() opens the **Rules on Form** dialog box.

Syntax

HypMenuVRulesOnForm()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVRulesOnForm Lib "HsAddin" () As Long
Sub MRulesOnForm()
   X=HypMenuVRulesOnForm()
End Sub
```

HypMenuVRunReport

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVRunReport() runs a report designed in the Query Designer.

Syntax

HypMenuVRunReport()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVRunReport Lib "HsAddin" () As Long
Sub MRunReport()
   X=HypMenuVRunReport()
End Sub
```

HypMenuVSelectForm

Data provider types: Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVSelectForm() opens the **Select Form** dialog box.

Syntax

HypMenuVSelectForm()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVSelectForm Lib "HsAddin" () As Long
Sub MSelectForm()
   X=HypMenuVSelectForm()
End Sub
```

HypMenuVShowHelpHtml

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVShowHelpHtml() launches the online help.

Syntax

HypMenuVShowHelpHtml(vtHelpPage)

ByVal vtHelpPage As Variant

Parameter

vtHelpPage: The name of the HTML file that launches the help.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVShowHelpHtml Lib "HsAddin" (ByVal vtHelpPage As Variant)
As Long
Sub MShowHelpHtml()
   X=HypMenuVShowHelpHtml("launch.htm")
End Sub
```

HypMenuVSubmitData

Data provider types: Essbase Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypMenuVSubmitData() submits data that has been modified or marked as dirty with HypSetCellsDirty to the active database on the server.

Syntax

HypMenuVSubmitData()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVSubmitData Lib "HsAddin"() As Long
Sub MSubmit()
   X=HypMenuVSubmitData()
End Sub
```

HypMenuVSupportingDetails

Data provider types: Planning

Description

HypMenuVSupportingDetails() opens the **Supporting Details** dialog box..

Syntax

HypMenuVSupportingDetails()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVSupportingDetails Lib "HsAddin" () As Long
Sub MSupportingDetails()
   X=HypMenuVSupportingDetails()
End Sub
```

HypMenuVSyncBack

Data provider types: Planning

Description

HypMenuVSyncBack() synchronizes data from an offline Planning data form to the server.

Syntax

HypMenuVSyncBack()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVSyncBack Lib "HsAddin" () As Long
Sub MSyncBack()
   X=HypMenuVSyncBack()
End Sub
```

HypMenuVTakeOffline

Data provider types: Planning

Description

HypMenuVTakeOffline() launches the **Take Offline** wizard.

Syntax

HypMenuVTakeOffline()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVTakeOffline Lib "HsAddin" () As Long
Sub MTakeOffline()
   X=HypMenuVTakeOffline()
End Sub
```

HypMenuVUndo

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVUndo() restores the previous database view.

Syntax

HypMenuVUndo()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVUndo Lib "HsAddin" () As Long
Sub MUndo()
   X=HypMenuVUndo()
End Sub
```

HypMenuVVisualizeinExcel

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVVisualizeinExcel() retrieves the Excel spreadsheet from which data points were copied to Word or PowerPoint.

Syntax

HypMenuVVisualizeinExcel()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypMenuVVisualizeinExcel Lib "HsAddin" () As Long
Sub MVisualizeinExcel()
   X=HypMenuVVisualizeinExcel()
End Sub
```

HypMenuVZoomIn

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVZoomIn() expands the view of data according to the options specified in the Options dialog box.

Syntax

HypMenuVZoomIn()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVZoomIn Lib "HsAddin"() As Long
Sub MZoomIn()
   X=HypMenuVZoomIn()
End Sub
```

HypMenuVZoomOut

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypMenuVZoomOut() collapses the view of data.

Syntax

HypMenuVZoomOut()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypMenuVZoomOut Lib "HsAddin"() As Long
Sub MZoomOut()
   X=HypMenuVZoomOut()
End Sub
```

HypExecuteMenu

Data provider types: All

Description

HypExecuteMenu() executes the specified menu or ribbon item.

You can use HypExecuteMenu only with these controls: button, split button, menu, dynamic menu, and toggle button (toggle buttons for extensions are not supported).

Syntax

HypExecuteMenu (vtSheetName, vtMenuName) As Long

ByVal vtSheetName As Variant

ByVal vtMenuName As Variant

Parameters

vtSheetName: Input parameter; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMenuName: Input parameter; the name of the menu item to execute.

- For items that are displayed on multiple ribbons or menus, you must prepend the ribbon title (Office 2007 or later) to the item name using the characters -> to avoid ambiguity. For example, to distinguish between **Refresh** on the Smart View ribbon and **Refresh** on the Essbase ribbon, use `Smart View->Refresh` or `Essbase->Refresh`. Duplicate items within the same data provider or extension ribbon cannot be used.
- Only items associated with an action are supported. For example, **Panel** can be used, because it opens the Smart View Panel. **Connections** cannot be used, because it is not associated with an action.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code. Common error codes for this function are -15 (invalid parameter) and -73 (ambiguity: "Could not resolve menu name").

Examples

For Refresh

```
Public Declare Function HypExecuteMenu Lib "HsAddin" (ByVal vtSheetName As Variant,ByVal
vtMenuName As Variant) As Long
Sub Example_ExecuteMenu()
sts = HypExecuteMenu("Sheet1", "Panel")  'returns 0
sts = HypExecuteMenu(Empty, "Smart View->Refresh") 'returns 0
sts = HypExecuteMenu("Sheet1", "Refresh")  'returns -73(ambiguity)
sts = HypExecuteMenu("Sheet1", "Connections")  'returns -15(invalid parameter because
"Connections" is not associated with an action)
End Sub
```

If you are working with a non-English language, then vtMenuName requires the localized value the menu name in Smart View.

For example, if you are working with French, then vtMenuName would use the French value of Refresh in Smart View. The examples below compare the English and French parameter definitions for Refresh:

English:

```
sts = HypExecuteMenu(Empty, "Smart View->Refresh")
```

French:

```
sts = HypExecuteMenu(Empty, "Smart View->Actualiser")
```

For Submit Without Refresh

```
Sub TestEssbaseSubmitData()
sts = HypExecuteMenu(Empty, "Essbase->Submit Data Without Refresh")
Debug.Print (sts)
End Sub
```

For Submit Data Range

```
Sub TestEssbaseSubmitData()
sts = HypExecuteMenu(Empty, "Essbase->Submit Data Range")
Debug.Print (sts)
End Sub
```

HypHideRibbonMenu

Data provider types: All

Description

Hides ribbon menus and menu items. Also hides context ribbon menus and menu items based on sheet input.

Smart View ribbon customization is applicable for any sheet. Context ribbon customization is sheet-based.

This function is supported for Office 2007 and above.

Syntax

Public Declare Function HypHideRibbonMenu Lib "HsAddin" (ByVal vtSheetName As Variant, ParamArray vtMenus() As Variant) As Long

ByVal vtSheetName As Variant

ParamArray vtMenus() As Variant

Parameters

vtSheetName: Input variable containing the sheet name on which ribbon menus and menu items are to be hidden. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMenus: Input variable containing ribbon menu names and menu item names to be hidden.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code. A common error code for this function is -73 (ambiguity).

Example

```
Sub HideMenus()

sts = HypHideRibbonMenu ("Sheet1", "Smart View->Submit Data", "Panel")

sts = HypHideRibbonMenu("Sheet1", "Smart View->Refresh->Refresh")
'Hides the submenu item Refresh under the Refresh split button

sts = HypHideRibbonMenu("Sheet1", "Essbase->POV", "Smart View->Copy", "Essbase->Same
Workbook")
'Hides menu items for different ribbons on the same sheet
```

```
End Sub
```

HypHideRibbonMenuReset

Data provider types: All

Description

Resets visibility of the ribbon menus and menu items hidden on the sheet using HypHideRibbonMenu.

This function is supported for Office 2007 and above.

Syntax

Public Declare Function HypHideRibbonMenuReset Lib "HsAddin" (ByVal vtSheetName As Variant) As Long

ByVal vtSheetName As Variant

Parameters

vtSheetName: Input variable containing the sheet name on which the hidden menus and hidden menu items are to be reset to visible state. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Sub HideMenuReset()

sts = HypHideRibbonMenuReset ("Sheet1")
'Resets the visibility of menus and menu items hidden on this sheet

End Sub
```

3 General Functions

In This Chapter

About General Functions

General VBA functions perform actions, set options, or retrieve information typically performed from the Smart View ribbon or Options dialog box.

HypShowPanel

Data provider types: All

Description

HypShowPanel () shows or hides the Smart View Panel. Once hidden, the Smart View Panel will be displayed only when the user selects **Panel** on the Smart View ribbon or runs HypShowPanel.

Syntax

HypShowPanel Lib (bShow)

ByVal bShow As Boolean

Parameters

bShow: Set to True to show the Smart View Panel. Set to False to hide the Smart View Panel

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Examples

To show the Smart View Panel:

```
Public Declare Function HypShowPanel Lib "HsAddin" (ByVal bShow As Boolean) As Long
Sub Example_HypShowPanel()
sts = HypShowPanel(True)
End Sub
```

To hide the Smart View Panel:

```
Public Declare Function HypShowPanel Lib "HsAddin" (ByVal bShow As Boolean) As Long
Sub Example_HypShowPanel()
sts = HypShowPanel(False)
End Sub
```

HypGetVersion

Data provider types: All

Description

HypGetVersion() retrieves any of the following information about the installed version of Smart View and creates a version information file:

- Product version number
- Build number
- Build date
- build version

Syntax

HypGetVersion (vtID, vtValueList, vtVersionInfoFileCommand)

ByVal vtID As Variant

ByRef vtValueList As Variant

ByVal vtVersionInfoFileCommand As Variant

Parameters

vtID: Input parameter; the ID for which the information is required; can be one of the following constants or strings or empty:

- BUILD_DATE or “BUILD DATE”
- BUILD_NUMBER or “BUILD NO”
- BUILD_VERSION or “VERSION”
- PRODUCT_ID or “PRODUCT” ID
- Empty: If empty, the output list contains all information in the version information file with comma-separated values.

vtValueList: Output parameter; the array list or required value

vtVersionInfoFileCommand: Input parameter; a numerical command ID to save or launch the version information file if vtID is empty. Possible values:

- 0- Do nothing
- 1- Save the version information file
- 2- Launch the version information file

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code

Examples

To create a message box that displays the build version:

```
Public Declare Function HypGetVersion Lib "HsAddin" (ByVal vtID As Variant, ByRef
vtValueList As Variant, ByVal vtVersionInfoFileCommand As Variant) As Long
Sub Example_HypGetVersion()
sts = HypGetVersion(BUILD_VERSION, version, 0)
MsgBox version(0)
End Sub
```

To retrieve and save version information in a version information file:

```
Public Declare Function HypGetVersion Lib "HsAddin" (ByVal vtID As Variant, ByRef
vtValueList As Variant, ByVal vtVersionInfoFileCommand As Variant) As Long
Sub Example_HypGetVersion()
sts = HypGetVersion("", versioninfo, 1) 'saves version info file in user directory and
gets array
```

```
inf = versioninfo(0) 'gets the information in 0th array element
End Sub
```

HypGetLastError

Data provider types: All

Description

HypGetLastError() returns the last error message stored in Smart View. It retrieves the error message as it is stored in the server (error messages returned via VBA functions may not match those retrieved from the server).

Syntax

HypGetLastError (vtErrorCode, vtErrorMessage, vtErrorDescription)

ByRef vtErrorCode As Variant

ByRef vtErrorMessage As Variant

ByRef vtErrorDescription As Variant

Parameters

vtErrorCode: The error code number

vtErrorMessage: The error message

vtErrorDescription: A description of the error

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypGetLastError Lib "HsAddin" (ByRef vtErrorCode As Variant,
ByRef vtErrorMessage As Variant, ByRef vtErrorDescription As Variant) As Long
Sub Example_HypGetLastError
ReturnValue = HypGetLastError(ErrorCodeValue, ErrorMessageValue, ErrorDescriptionValue)
End Sub
```

HypShowPov

Data provider types: All

Description

HypShowPov() shows or hides the POV toolbar.

Syntax

HypShowPov(bShowPov)

ByVal bShowPov As Boolean

Parameters

bShowPov: Set to True to show the POV toolbar. Set to False to hide the POV toolbar.

Return Value

Returns 0 if successful; otherwise, the appropriate error code.

Example

```
Public Declare Function HypShowPov Lib "HsAddin" (ByVal bShowPov As Boolean) As Long
Sub Example_HypShowPov()
X=HypShowPov(True)
End Sub
```

HypSetMenu

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

In Excel 2007 and 2010, HypSetMenu( ) shows or hides the Smart View and data provider ribbons.

Syntax

HypSetMenu(bSetMenu)

ByVal bSetMenu As Boolean

Parameters

bSetMenu: Set to True to show the ribbons or menu. Set to False to hide the menu or ribbons.

Return Value

Returns 0 if successful; otherwise, the appropriate error code

Example

```
Declare Function HypSetMenu Lib "HsAddin" (ByVal bSetMenu As Boolean) As Long
Sub Example_HypSetMenu()
X=HypSetMenu(True)
End Sub
```

HypCopyMetaData

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypCopyMetaData() copies the metadata from one worksheet to another worksheet.

Syntax

HypCopyMetaData (vtSourceSheetName, vtDestinationSheetName)

ByVal vtSourceSheetName As Variant

ByVal vtDestinationSheetName As Variant

Parameters

vtSourceSheetName: The name of the worksheet that contains the data to be copied

vtDestinationSheetName: The name of the destination worksheet

Return Value

Returns 0 if successful; otherwise, the appropriate error code.

Example

```
Public Declare Function HypCopyMetaData Lib "HsAddin" (ByVal vtSourceSheetName As
Variant, ByVal vtDestinationSheetName As Variant) As Long
Sub Example_HypCopyMetaData()
Dim LRet As Long
LRet = HypCopyMetaData ("Sheet1", "Sheet2")
End Sub
```

HypDeleteMetaData

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise, Oracle Hyperion Reporting and Analysis

Description

HypDeleteMetaData() deletes Smart View metadata from the workbook in any of three modes:

- Mode 1—Delete all Smart View metadata only from the provided worksheet storage
- Mode 2—Delete all Smart View metadata only from the provided workbook storage
- Mode 3—Delete all Smart View metadata from the provided workbook storage and from all the worksheets' storage

Syntax

HypDeleteMetaData(vtDispObject, vtbWorkbook, vtbClearMetadataOnAllSheetsWithinWorkbook)

vtDispObject As Variant

vtbWorkbook As Variant

vtbClearMetadataOnAllSheetsWithinWorkbook As Variant

Parameters

vtDispObject: Dispatch object of worksheet or workbook that indicates where to delete metadata. If Null is passed, then **vtbWorkbook** determines the active worksheet or active workbook and will be operated upon.

vtbWorkbook: Boolean. Indicates that you passed worksheet dispatch or workbook dispatch. If Null is passed in vtDispObject, then this flag will determine that the user wants to delete metadata from active worksheet or active workbook.

vtbClearMetadataOnAllSheetsWithinWorkbook: Boolean. Specifies that Smart View metadata should be deleted from all sheets within the workbook. Used only if **vtbWorkbook** is True.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypDeleteMetaData Lib "HsAddin" (ByVal vtDispObject As Variant,
ByVal vtbWorkbook As Variant, ByVal vtbClearMetadataOnAllSheetsWithinWorkbook As Variant)
As Long

Sub Example_HypDeleteMetaData()
    Dim Ret As Long
    Dim Workbook As Workbook
    Dim Sheet As Worksheet

    Set Workbook = ActiveWorkbook
    Set Sheet = ActiveSheet

    'Ret = HypDeleteMetaData(oSheet, False, True)      'Mode 1
    Ret = HypDeleteMetaData(oWorkbook, True, False)  'Mode 2
    'Ret = HypDeleteMetaData(oWorkbook, True, True)   'Mode 3

    MsgBox     (Ret)

End Sub
```

HypIsDataModified

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypIsDataModified() determines whether any data cells have been modified but not yet submitted.

Syntax

HypIsDataModified (vtSheetName)

By Val vtSheetName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

Return Value

Returns True if the worksheet contains any data cells that have been modified but not yet submitted; otherwise, False.

Example

```
Public Declare Function HypIsDataModified Lib "HsAddin" (ByVal vtSheetName As Variant)As
Boolean
Sub Example_HypIsDataModified()
Dim oRet As Boolean
oRet = HypIsDataModified(Empty)
MsgBox (oRet)
End Sub
```

HypIsSmartViewContentPresent

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypIsSmartViewContentPresent() determines whether the sheet contains Smart View content.

Syntax

HypIsSmartViewContentPresent(vtSheetName, vtTypeOfContentsInSheet])

ByVal vtSheetName As Variant

ByRef vtTypeOfContentsInSheet

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtTypeOfContentsInSheet: Output parameter; returns the type of content on the worksheet. Possible values are in the enum as follows;.

```
Enum TYPE_OF_CONTENTS_IN_SHEET
    EMPTY_SHEET
    ADHOC_SHEET
    FORM_SHEET
```

```
    INTERACTIVE_REPORT_SHEET
End Enum
```

Return Value

Returns True if the worksheet contains Smart View content; otherwise, returns False.

Example

```
Public Declare Function HypIsSmartViewContentPresent Lib "HsAddin" (ByVal vtSheetName As
Variant, ByRef vtTypeOfContentsInSheet As TYPE_OF_CONTENTS_IN_SHEET) As Boolean

Sub Example_HypIsSmartViewContentPresent()
    Dim Ret As Boolean
    Dim vtTypeOfContentsInSheet As TYPE_OF_CONTENTS_IN_SHEET
    Dim SheetName As String
    Dim SheetDisp As Worksheet

    SheetName = Empty
    Set SheetDisp = Worksheets("Sheet1")
    Ret = HypIsSmartViewContentPresent (Empty, ContentType)
End Sub
```

HypIsFreeForm

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypIsFreeForm() determine whether the worksheet is in free-form mode.

Syntax

HypIsFreeForm (vtSheetName)

By Val vtSheetName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

Return Value

Returns True if the worksheet is in free-form state; otherwise, returns False.

Example

```
Public Declare Function HypIsFreeForm Lib "HsAddin" (ByVal vtSheetName As Variant) As
Boolean
Sub Example_HypIsFreeForm()
Dim oRet As Boolean
oRet = HypIsFreeForm(Empty)
```

```
MsgBox (oRet)
End Sub
```

HypUndo

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypUndo() reverts the database view of a worksheet to what it was before a Zoom In, Zoom Out, Keep Only, Remove Only, or Refresh operation.

Syntax

HypUndo (vtSheetName)

ByVal vtSheetName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypUndo Lib "HsAddin" (ByVal vtSheetName As Variant) As Long
Sub Example_HypUndo()
X=HypUndo(Sheet1)
End Sub
```

HypRedo

Data provider types: Essbase, Planning (ad hoc only) Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypRedo() reverts the database view to what it was before an Undo operation.

Syntax

HypRedo (vtSheetName)

ByVal vtSheetName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypRedo Lib "HsAddin" (ByVal vtSheetName As Variant) As Long
Sub Example_HypRedo()
X=HypRedo(Sheet1)
End Sub
```

HypPreserveFormatting

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypPreserveFormatting() applies grid formatting to cells created by zooming in.

Syntax

HypPreserveFormatting (vtSheetName, vtSelectionRange)

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: The range of cell(s) in which formatting is to be preserved. Multiple ranges are supported.

Return Value

Returns 0 if successful; otherwise, the appropriate error code.

Example

```
Public Declare Function HypPreserveFormatting Lib "HsAddin" (ByVal vtSheetName As
Variant, ByVal vtSelectionRange As Variant) As Long


Sub Example_HypPreserveFormatting()

        Dim oRet As Long
        Dim oSheetName As String
```

```
        Dim oSheetDisp As Worksheet

        oSheetName = Empty
        Set oSheetDisp = Sheet1
        oRet = HypPreserveFormatting ("", oSheetDisp.Range("B2"))

        MsgBox (oRet)

End Sub
```

HypRemovePreservedFormats

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypRemovePreservedFormats() removes preserved formats.

Note: Users must refresh before the original formatting is applied.

Syntax

HypRemovePreservedFormats (vtSheetName, vtbRemoveAllCapturedFormats,vtSelectionRange)

ByVal vtSheetName As Variant

ByVal vtbRemoveAllCapturedFormats As Variant

ByVal vtSelectionRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtbRemoveAllCapturedFormats: Set to True to remove all preserved formats in the selected range. Otherwise, set to False. If set to True, the next parameter value is not used, so users can pass Null for vtSelectionRange.)

vtSelectionRange: The range of the cell(s) in which formatting is to be preserved. Multiple ranges are supported.

Return Value

Returns 0 if successful; otherwise, the appropriate error code.

Example

```
Public Declare Function HypRemovePreservedFormats Lib "HsAddin" (ByVal vtSheetName As
Variant, ByVal vtbRemoveAllCapturedFormats As Variant, ByVal vtSelectionRange As Variant)
As Long
```

```
Sub Example_HypRemovePreservedFormats()

        Dim Ret As Long
        Dim SheetName As String
        Dim SheetDisp As Worksheet

        SheetName = "Sheet1"

        Set oSheetDisp = Worksheets(SheetName)
        'Ret = HypRemovePreservedFormats(Empty, False, SheetDisp.Range("B2"))
        Ret = HypRemovePreservedFormats(Empty, True, Null)
        MsgBox (oRet)

End Sub
```

HypSetAliasTable

Data provider types: Essbase, Planning

Description

HypSetAliasTable() sets the alias table for the selected worksheet.

Syntax

HypSetAliasTable (ByVal vtSheetName As Variant, ByVal vtAliasTableName As Variant)

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtAliasTableName: The text name of the alias table. vtAliasTableName is of the form "`Default`", "`Long Names`" and so forth.

Return Value

0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypSetAliasTable Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtAliasTableName As Variant) As Long
Sub Example_SetAliasTable
sts = HypSetAliasTable(Empty,"Long Names")
End sub
```

HypGetSubstitutionVariable

Data provider types: Essbase

Description

HypGetSubstitutionVariable() retrieves substitution variables and their current values from Essbase.

Syntax

HypGetSubstitutionVariable (vtSheetName, vtApplicationName, vtDatabaseName, vtVariableName, vtVariableNames, vtVariableValues)

ByVal vtSheetName As Variant

ByVal vtApplicationName As Variant

ByVal vtDatabaseName As Variant

ByVal vtVariableName As Variant

ByRef vtVariableNames As Variant

ByRef vtVariableValues As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtApplicationName: The name of the application from which to return substitution variables. If set to Null or Empty, all the applications are considered.

vtDatabaseName: The name of the database from which to return substitution variables. If set to Null or Empty, all the databases are considered.

vtVariableName: The name of the substitution variable to be retrieved. If set to Null or Empty, the entire list of variables is returned.

vtVariableNames: Output result vector that contains the list of the substitution variable names. Its contents are unknown if the macro fails.

vtVariableValues: Output result vector that contains the list of the substitution variable values corresponding to each variable returned. Its contents are unknown if the macro fails.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetSubstitutionVariable Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtApplicationName As Variant, ByVal vtDatabaseName As Variant, ByVal vtVariableName
As Variant, ByRef vtVariableNames As Variant, ByRef vtVariableValues As Variant) As Long

Sub Example_HypGetSubstitutionVariable()
    Dim sts As Long
    sts = HypGetSubstitutionVariable(Empty, "Sample", "Basic", Empty, vtVarNameList,
vtVarValueList)
   End If
End Sub
```

HypSetSubstitutionVariable

Data provider types: Essbase

Description

HypSetSubstitutionVariable() creates substitution variables in Essbase. If the variable already exists, then its value is set to the new specified value.

Syntax

HypSetSubstitutionVariable (vtSheetName, vtApplicationName, vtDatabaseName, vtVariableName, vtVariableValue)

ByVal vtSheetName As Variant

ByVal vtApplicationName As Variant

ByVal vtDatabaseName As Variant

ByVal vtVariableName As Variant

ByVal vtVariableValue As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If sest to Null or Empty, the active worksheet is used.

vtApplicationName: The name of the application name in which to create the new substitution variable. If set to Null or Empty , the scope of the variable is global.

vtDatabaseName: The name of the database in which to create the new variable. If set to Null or Empty, the scope of the variable created is global within the application specified.

vtVariableName: The variable name to be created. Required.

vtVariableValue: The value to be assigned to the variable. Required.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetSubstitutionVariable Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtApplicationName As Variant, ByVal vtDatabaseName As Variant, ByVal vtVariableName
As Variant, ByVal vtVariableValue As Variant) As Long

Sub Example_HypSetSubstitutionVariable
   Dim X as Long
   X = HypSetSubstitutionVariable(Empty, "Sample", "Basic", "Account", "100")
End Sub
```

HypGetDatabaseNote

Data provider types: Essbase

Description

HypGetDatabaseNote() retrieves Essbase database notes.

Syntax

HypGetDatabaseNote (vtSheetName, vtDBNote)

ByVal vtSheetName As Variant

ByRef vtDBNote As Variant

Parameters

vtSheetName: Input parameter; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDBNote: Output parameter; the database note to be retrieved.

Example

```
Public Declare Function HypGetDatabaseNote Lib "HsAddin" (ByVal vtSheetName As Variant,
ByRef vtDBNote As Variant) As Long
Sub Example_HypGetDatabaseNote()
sts = HypGetDatabaseNote(Empty, DBNote)
MsgBox DBNote
End  Sub
```

4 Connection Functions

In This Chapter

About Connection Functions

Connection functions perform actions related to connections to data providers.

HypConnect

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypConnect() logs into a data provider and associates the worksheet with that connection. HypConnect() must be called for each sheet in order to associate this connection with that sheet.

Syntax

HypConnect (vtSheetName, vtUserName, vtPassword, vtFriendlyName)

ByVal vtSheetName As Variant

ByVal vtUserName As Variant

ByVal vtPassword As Variant

ByVal vtFriendlyName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtUserName: A valid user name

vtPassword: The password for this user

vtFriendlyName: The friendly connection name of the data provider. This is the connection name created by HypCreateConnection.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypConnect Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal vtUserName
As Variant, ByVal vtPassword As Variant, ByVal vtFriendlyName As Variant) As Long

Sub Example_HypConnect()
   X=HypConnect(Empty, UserName, Password, "My Sample Basic")
End Sub
```

HypUIConnect

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise, Oracle Business Intelligence Enterprise Edition

Description

HypUIConnect() prompts the user with the **Connect to Data Source** dialog box when the user name and password is not provided. It does not prompt if already connected.

Syntax

HypUIConnect Lib (vtSheetName, vtUserName, vtPassword, vtFriendlyName)

ByVal vtSheetName As Variant

ByVal vtUserName As Variant

ByVal vtPassword As Variant

ByVal vtFriendlyName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtUserName: A valid user name

vtPassword: The password for this user

vtFriendlyName: The connection name of the data provider

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare PtrSafe Function HypUIConnect Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtUserName As Variant, ByVal vtPassword As Variant, ByVal vtFriendlyName As Variant)
As Long
HypUIConnect(Empty, UserName, Password, "My Connection")
```

HypConnected

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypConnected() provides the connection status of the sheet.

Syntax

HypConnected (vtSheetName)

ByVal vtSheetName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

Return Value

Returns True if the sheet is connected to a provider; False if it is not.

Example

```
Declare Function HypConnected Lib "HsAddin" (ByVal vtSheetName As Variant) As Variant

Sub Example_HypConnected
   Dim X As Variant
   X = HypConnected(Empty)
End sub
```

If the sheet is connected, a variant with a value of -1 is returned, which is interpreted as True by VBA. In order to get -1 as the return value, you must declare the variable (which takes a return value) as a number type (Long, Integer, Double, etc.). The script given below demonstrates this:

```
Declare Function HypConnected Lib "HsAddin" (ByVal vtSheetName As Variant) As Variant
Sub Example_HypConnected()
Dim X As Integer 'Can also be Long or Double
X = HypConnected(Empty)  'Value of X will become -1 if Sheet1 is connected
End Sub
```

If variable X is not defined, VBA interprets it (and any other variable which is not defined) as being of the type, Variant. Then, if Sheet1 is connected, X will be equal to True.

If variable X is defined as a boolean, the return value is correctly displayed as True.

HypConnectionExists

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypConnectionExists() checks whether a particular connection name exists in the list of all connections as viewed in the Smart View Panel. The particular connection may or may not be active (connected).

Syntax

HypConnectionExists(vtFriendlyName)

ByVal vtFriendlyName As Variant

Parameters

vtFriendlyName: The name of the connection to search for in the list of all connections. It is not case-sensitive.

Return Value

Boolean. If successful, return value is TRUE; otherwise, return value is FALSE.

Example

```
Declare Function HypConnectionExists Lib "HsAddin" (ByVal vtFriendlyName As Variant) As
Variant

Sub Example_HypConnectionExists
   Dim bIsConnection as Boolean
   bIsConnection = HypConnectionExists ("Demo_Basic")
End sub
```

HypCreateConnection

Data provider types: Essbase, Financial Management, Hyperion Enterprise

Description

HypCreateConnection() creates a connection to the data provider from the specified information. See also "HypCreateConnectionEx" on page 68.

Note: Planning users who want to add data providers in the Smart View Panel must use HypCreateConnectionEx.

Note: Use HypConnect to establish the connection.

Syntax

HypCreateConnection(vtSheetName, vtUserName, vtPassword, vtProvider, vtProviderURL, vtServerName, vtApplicationName, vtDatabaseName, vtFriendlyName, vtDescription)

ByVal vtSheetName As Variant

ByVal vtUserName As Variant

ByVal vtPassword As Variant

ByVal vtProvider As Variant

ByVal vtProviderURL As Variant

ByVal vtServerName As Variant

ByVal vtApplicationName As Variant

ByVal vtDatabaseName As Variant

ByVal vtFriendlyName As Variant

ByVal vtDescription As Variant

Parameters

vtSheetName: Not used

vtUserName: A valid user name

vtPassword: The password for this user

vtProvider: The data provider. Supported vtProvider types:

- Global Const HYP_ESSBASE = "Essbase"
- Global Const HYP_ENTERPRISE = "Hyperion Enterprise"
- Global Const HYP_FINANCIAL_MANAGEMENT = "Hyperion Financial Management"

Note: The global constant HYP_ANALYTIC_SERVICES = "Analytic Provider Services" has been deprecated.

vtProviderURL: The URL of the data provider

vtServerName: The name of the server on which the application resides

vtApplicationName: The name of the application

vtDatabaseName: The name of the database

vtFriendlyName: The connection name of the data provider

vtDescription: A description of the data provider

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypCreateConnection Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtUserName As Variant, ByVal vtPassword As Variant, ByVal vtProvider As Variant, ByVal
vtProviderURL As Variant, ByVal vtServerName As Variant, ByVal vtApplicationName As
Variant, ByVal vtDatabaseName As Variant, ByVal vtFriendlyName As Variant, ByVal
vtDescription As Variant) As Long
Sub Example_HypCreateConnection()
X = HypCreateConnection(Empty, UserName, Password, HYP_ESSBASE, "http://localhost:13080/
smartview/SmartView", "localhost", "Sample", "Basic", "My Connection", "Essbase_1")
End Sub
```

HypCreateConnectionEx

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise, Reporting and Analysis

Description

HypCreateConnectionEx is a superset of HypCreateConnection; it has additional parameters that enable use of the Smart View Panel. Planning users who want to add data providers in the Smart View Panel must use HypCreateConnectionEx.

For Essbase, Planning, and Financial Management, HypCreateConnectionEx can be used to create private connections using a Workspace URL.

Syntax

HypCreateConnectionEx (vtProviderType, vtServerName, vtApplicationName, vtDatabaseName, vtFormName, vtProviderURL, vtFriendlyName, vtUserName, vtPassword, vtDescription, vtReserved1, ByVal vtReserved2)

ByVal vtProviderType As Variant

ByVal vtServerName As Variant

ByVal vtApplicationName As Variant

ByVal vtDatabaseName As Variant

ByVal vtFormName As Variant

ByVal vtProviderURL As Variant

ByVal vtFriendlyName As Variant

ByVal vtUserName As Variant

ByVal vtPassword As Variant

ByVal vtDescription As Variant

ByVal vtReserved1 As Variant (reserved for future use)

ByVal vtReserved2 As Variant (reserved for future use)

Parameters

vtProviderType: The data provider. Supported vtProviderType types:

- Global Const HYP_ESSBASE = "Essbase"
- Global Const HYP_PLANNING = "Planning"
- Global Const HYP_FINANCIAL_MANAGEMENT = "Financial Management"
- Global Const HYP_RA = "Hyperion Smart View Provider for Hyperion Reporting and Analysis
- Global Const HYP_ENTERPRISE = "Hyperion Enterprise"

vtServerName: The name of the server on which the application resides

vtApplicationName: The name of the application

vtDatabaseName: The name of the database

vtFormName: The name of the data form. Required to create Planning connection in Smart View Panel under Private Connections.

vtProviderURL: The data provider URL. Required to create Planning connection in Smart View Panel.

vtFriendlyName: The connection name of the data provider

vtUserName: A valid user name

vtPassword: The password for this user

vtDescription: Description for the data provider

Note: For Oracle Hyperion Reporting and Analysis, only the provider URL, provider type, and connection name are required.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypCreateConnectionEx Lib "HsAddin" (ByVal vtProviderType As
Variant, ByVal vtServerName As Variant,ByVal vtApplicationName As Variant,ByVal
vtDatabaseName As Variant, ByVal vtFormName As Variant, ByVal vtProviderURL As Variant,
ByVal vtFriendlyName As Variant, ByVal vtUserName As Variant, ByVal vtPassword As Variant,
ByVal vtDescription As Variant, ByVal vtReserved1 As Variant, ByVal vtReserved2 As
Variant) As Long

Sub Example_HypCreateConnectionEx()

Dim lRet As Long
lRet = HypCreateConnectionEx("Essbase", "server12", "Demo", "Basic", "", "", "My Demo",
"Username", "Password", "", "", "")

lRet = HypCreateConnectionEx("Planning", "planqe14", "TotPlan", "", "/Forms/Smart View
Forms/01 Product Revenue", "http://planqe14:8300/HyperionPlanning/SmartView", "My
Planning VBA Conn", "UserName", "Password", "", "", "")

End Sub
```

HypDisconnect

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypDisconnect() logs out from the data provider.

Syntax

HypDisconnect(vtSheetName, bLogoutUser)

ByVal vtSheetName As Variant

ByVal bLogoutUser As Boolean

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

bLogoutUser: Set to True to disconnect and log out from the provider session. Default value is False.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypDisconnect Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
bLogoutUser As Boolean) As Long

Sub Example_HypDisconnect()
   X=HypDisconnect(Empty, True)
End Sub
```

HypDisconnectAll

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypDisconnectAll is a security measure that disconnects all connected users and invalidates the user authentication. Equivalent of the **Disconnect All** menu item.

Syntax

HypDisconnectAll()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypDisconnectAll Lib "HsAddin" () As Long
Sub Example_HypDisconnectAll()
sts = HypDisconnectAll()
End Sub
```

HypDisconnectEx

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypDisconnectEx disconnects the specified connection. This connection need not be associated as in HypDisconnect.

Syntax

HypDisconnectEx (vtFriendlyName)

ByVal vtFriendlyName As Variant

Parameters

vtFriendlyName: The friendly connection name to be disconnected

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypDisconnectEx Lib "HsAddin" (ByVal vtFriendlyName As Variant) As Long

Sub Example_HypDisconnectEx()
        Dim lRet As Long
        lRet = HypDisconnectEx("My Sample")
End Sub
```

HypGetSharedConnectionsURL

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetSharedConnectionsURL() returns the Shared Connections URL to be used (also shown in the Options dialog box).

Syntax

HypGetSharedConnectionsURL (vtSharedConnURL)

ByRef vtSharedConnURL As Variant

Parameters

vtSharedConnURL: Output parameter; the Shared Connections URL

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetSharedConnectionsURL Lib "HsAddin" (ByRef vtSharedConnURL As
Variant) As Long
Sub Example_HypGetSharedConnectionsURL()
Dim lRet As Long
Dim conn As Variant
lRet = HypGetSharedConnectionsURL(conn)
MsgBox (lRet)
MsgBox (conn)
End Sub
```

HypSetSharedConnectionsURL

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSetSharedConnectionsURL() sets the Shared Connections URL in the config file and Options dialog box.

Syntax

HypSetSharedConnectionsURL (vtSharedConnURL)

ByVal vtSharedConnURL As Variant

Parameters

vtSharedConnURL: the new Shared Connections URL to be set.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypSetSharedConnectionsURL Lib "HsAddin" (ByVal vtSharedConnURL
As Variant) As Long
Sub Example_HypSetSharedConnectionsURL()
Dim lRet As Long
lRet = HypSetSharedConnectionsURL("http://<server>:19000/workspace/SmartViewProviders")
End Sub
```

HypIsConnectedToSharedConnections

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypIsConnectedToSharedConnections() determines whether SmartView is connected to Shared Connections.

Syntax

HypIsConnectedToSharedConnections ()

Return Value

Return: True if Smart View is connected to Shared Connections, otherwise, False.

Example

```
Declare Function HypIsConnectedToSharedConnections Lib "HsAddin" () As Variant
Sub Example_HypIsConnectedToSharedConnections()
Dim vtRet As Variant
vtRet = HypIsConnectedToSharedConnections ()
MsgBox(vtRet)
End Sub
```

HypRemoveConnection

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypRemoveConnection() removes the specified connection from the list of available Smart View connections in the Smart View Panel.

Syntax

HypRemoveConnection(vtFriendlyName)

ByVal vtFriendlyName As Variant

Parameters

vtFriendlyName: The friendly connection name of the data provider

Return Value

Returns 0 if successful, otherwise, returns the appropriate error code.

Example

```
Declare Function HypRemoveConnection Lib "HsAddin" (ByVal vtFriendlyName As Variant) As
Long

Sub Example_HypRemoveConnection()
   X=HypRemoveConnection("My Connection")
End Sub
```

HypInvalidateSSO

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypInvalidateSSO() discards the existing SSO token.

Example

```
Declare Function HypInvalidateSSO Lib "HsAddin" () As Long
Sub Example_HypInvalidateSSO()
    X = HypInvalidateSSO()
End Sub
```

HypResetFriendlyName

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypResetFriendlyName modifies the friendly name to a new one. To modify the friendly name of a connection in the Smart View Panel, Smart View must be connected to Oracle Hyperion Provider Services.

Syntax

HypResetFriendlyName (vtOldFriendlyName, vtNewFriendlyName)

By Val vtOldFriendlyName As Variant

By Val vtNewFriendlyName As Variant

Parameters

vtOldFriendlyName: The old friendly connection name

vtNewFriendlyName: The new friendly connection name

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypResetFriendlyName Lib "HsAddin" (ByVal vtOldFriendlyName As Variant,
ByVal vtNewFriendlyName As Variant) As Long

Sub Example_HypResetFriendlyName()
        Dim lRet As Long
        lRet = HypResetFriendlyName("server2_Sample_Basic", "My Sample Basic")
End Sub
```

HypSetActiveConnection

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSetActiveConnection() associates the current active worksheet with one of the active connections.

Note: HypSetActiveConnection does not work with worksheets that contain Report Designer objects

Syntax

HypSetActiveConnection (vtFriendlyName)

ByVal vtFriendlyName As Variant

Parameters

vtFriendlyName: The friendly name of the active connection to be associated with the current active worksheet. It is not case-sensitive.

Return Value

Long. If successful, return value is 0; otherwise, the appropriate error code is returned.

Example

```
Declare Function HypSetActiveConnection Lib "HsAddin" (ByVal vtFriendlyName As Variant)
As Long

Sub Example_SetActiveConnection()
   sts = HypSetActiveConnection ("Demo_Basic")
End sub
```

HypSetAsDefault

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSetAsDefault() sets a connection default.

Syntax

HypSetAsDefault (vtFriendlyName)

ByVal vtFriendlyName As Variant

Parameters

vtFriendlyName: The name of the private active connection to be set as the default. It must be a private connection name whose value can be found in the Registry: `HKCU\Software\Hyperion Solutions\HyperionSmartView\Connections`

Return Value

If successful, return value is 0; otherwise, the appropriate error code is returned.

Example

```
Public Declare Function HypSetAsDefault Lib "HsAddin" (ByVal vtFriendlyName As Variant)
As Long

Sub Example_SetAsDefault()
sts = HypSetAsDefault("buildtie7_w32Simple_w32Simple")
MsgBox (sts)
End Sub
```

HypSetConnAliasTable

Data provider types: Essbase, Planning

Description

HypSetConnAliasTable() sets the alias table for a connection. This function requires an active connection.

Syntax

HypSetConnAliasTable (ByVal vtFriendlyName As Variant, ByVal vtAliasTableName As Variant)

Parameters

vtFriendlyName: The connection name of the data provider; for example, `"MyConnection1"` or `"SampleBasic"`. If vtFriendlyName is Null or Empty, an error is returned.

vtAliasTableName: The name of the alias table in the form "`Default`", "`Long Names`", "`None`", and so forth. This parameter cannot be Null or Empty. If no alias needs to be applied, then you can use the parameter "`None`".

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypSetConnAliasTable Lib "HsAddin" (ByVal vtFriendlyName As
Variant, ByVal vtAliasTableName As Variant) As Long

Sub Example_HypSetConnAliasTable
sts = HypSetConnAliasTable("SampleBasic","Long Names")
End sub
```

5 Ad Hoc Functions

In This Chapter

About Ad Hoc Functions

Ad hoc functions perform ad hoc operations such as zooming, retrieving and submitting data, and pivoting.

HypPerformAdhocOnForm

Data provider types: Planning

Description

HypPerformAdhocOnForm() enables ad hoc analysis in Excel worksheets for Planning web forms.

Syntax

HypPerformAdhocOnForm(vtSheetName, vtFormName)

ByVal vtSheetName As Variant

ByVal vtFormName As Variant

Parameters

vtSheetName: Input variable; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtFormName: Input variable; the name of the Planning web form, including its full path; for example, `/Forms/Financials/Financials Summary`

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypPerformAdhocOnForm Lib  "HsAddin" (ByVal  vtSheetName As
Variant, ByVal  vtFormName  As Variant)  As Long
Sub Example_PerformAdhocOnForm
sts = HypPerformAdhocOnForm(Empty, "/Forms/Financials/Financials Summary")
End Sub
```

HypRetrieve

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypRetrieve() retrieves data from the database.

Syntax

HypRetrieve(vtSheetName)

ByVal vtSheetName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Examples

```
Public Declare Function HypRetrieve Lib "HsAddin" (ByVal vtSheetName As Variant) As Long
Sub Example_HypRetrieve()
X=HypRetrieve(Empty)
End Sub
```

```
Public Declare Function HypRetrieve Lib "HsAddin" (ByVal vtSheetName As Variant) As Long
Sub Example_HypRetrieve()
X=HypRetrieve(Empty)
If X = 0 Then
   MsgBox("Retrieve successful.")
Else
   MsgBox("Retrieve failed.")
End If
End Sub
```

HypRetrieveRange

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypRetrieveRange() enables users to refresh a selected or named range of cells in a grid or worksheet. If the range specified for this function contains more rows or columns than the actual grid has, the additional rows and columns are treated as comments and are thus part of the grid.

HypRetrieveRange clears the Undo buffer, therefore the Undo operation cannot be used afterward.

Syntax

HypRetrieveRange(vtSheetName,vtRange,vtFriendlyName)

ByVal vtSheetName As Variant

ByVal vtRange As Variant

ByVal vtFriendlyName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The continuous range to be refreshed. This range must contain one or more member cells as well as data cells. If vtRange is Null, the entire worksheet is refreshed, and GetUsedRange is used on the worksheet specified to get the range to be refreshed.

vtFriendlyName: The friendly name of the connection to be used to refresh the range. If set to Null, the active connection associated with the worksheet is used to refresh the range on that worksheet. If no connection is associated, an error is returned.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypRetrieveRange Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtRange As Variant, ByVal vtFriendlyName As Variant) As Long
Worksheets("Sheet2").Names.Add name:="MyRange", RefersTo:="=$E$11:$F$28"
Sub Example_RetrieveRange
    Worksheets("Sheet1").Names.Add name:="MyRange", RefersTo:="=$E$11:$F$28"
     sts = HypRetrieveRange(Empty, range("E11:F28"), "Samp1")
            'retrieve by regular range
    sts = HypRetrieveRange(Empty, range("MyRange"), "Samp1")
            'retrieve by named range
End sub
```

HypRetrieveNameRange

Data provider types: Essbase

Description

HypRetrieveNameRange refreshes the grid created by HypRetrieveRange. This function works only with Smart View multi-grid defined range names.

Syntax

HypRetrieveNameRange (vtSheetName, vtGridName)

ByVal vtSheetName As Variant

ByVal vtGridName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtGridName: Input parameter; the name of the named range or grid to be refreshed. Named ranges take the form: `"'<Sheetname>'!<range name>"`

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Examples

Example 1

```
Public Declare Function HypRetrieveNameRange Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtGridName As Variant) As Long

Sub RetrieveAllRange()
'connect all required connections
sts = HypConnect("Sheet1", "UserName", "Password", "stm10026_Sample_Basic")
'get list of named grids available
sts = HypGetNameRangeList("Sheet1", "", vtList)
```

```
'refresh each range one by one
For i = 0 To 2
sts = HypRetrieveNameRange("Sheet1", vtList(i))
Next i
End Sub
```

Example 2

If you know the name of the grid:

```
Public Declare Function HypRetrieveNameRange Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtGridName As Variant) As Long
Sub Example_HypRetrieveNameRange()
sts = HypRetrieveNameRange("Sheet1", "'Sheet1'!DMDemo_Basic_2")
End Sub
```

HypGetNameRangeList

Data provider types: Essbase

Description

HypGetNameRangeList returns a list of named grids for a given connection.

Syntax

HypGetNameRangeList (vtSheetName, vtFriendlyName, vtNameList)

ByVal vtSheetName As Variant

ByVal vtFriendlyName As Variant

ByRef vtNameList As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtFriendlyName: Input parameter; the connection name whose list of name ranges are to be retrieved. If set to Empty, all name range lists in the sheet are retrieved.

vtNameList: Output parameter; the list output.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypGetNameRangeList Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtFriendlyName As Variant, ByRef vtNameList As Variant) As Long
Sub Example_HypGetNameRangeList()
sts = HypGetNameRangeList("Sheet1", "stm10026_Sample_Basic", vtList)
End Sub
```

HypRetrieveAllWorkbooks

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypRetrieveAllWorkbooks() refreshes all open workbooks from the same instance of Excel.

Syntax

HypRetrieveAllWorkbooks()

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypRetrieveAllWorkbooks Lib "HsAddin" () As Long

Sub Example_HypRetrieveAllWorkbooks()
  X=HypRetrieveAllWorkbooks()
End Sub
```

HypExecuteQuery

Data provider types: Essbase

Description

HypExecuteQuery() executes an MDX query and displays the results on a worksheet. (If you do not want to display the query results on a worksheet, use HypExecuteMDXEx instead.)

Syntax

HypExecuteQuery (ByVal vtSheetName As Variant, ByVal vtMDXQuery As Variant) As Long

ByVal vtSheetName As Variant

ByVal vtMDXQuery

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMDXQuery: The MDX query statement to be executed on the worksheet

Return Value

Long. If successful, return value is 0; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypExecuteQuery Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtMDXQuery As Variant) As Long

Sub Example_HypExecuteQuery ()
   Dim vtQuery As Variant
   vtQuery = "SELECT {([Jan])} on COLUMNS, {([East])} on ROWS"
   sts = HypConnect (Empty, "Username", "Password", "Sample_Basic")
   sts = HypExecuteQuery (Empty, vtQuery)
   sts = HypDisconnect (Empty, True)
End sub
```

HypSubmitData

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSubmitData() updates the database with modified data from the specified spreadsheet.

Note: HypSubmitData() is not supported with aggregate storage databases or in a clustered environment.

Note: The ability to update the database depends on the access permissions of the submitter. To update data, you must have at least Write access to the database.

Syntax

HypSubmitData(vtSheetName)

ByVal vtSheetName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

Return Value

For forms: Returns 0 if form is submitted successfully; otherwise, returns the appropriate error code.

For ad hoc: Returns 0 if ad hoc grid is submitted successfully and HsSetVal functions, if any, were run. Returns 1 if the sheet was not connected but HsSetVal functions, if any, were run. Returns 2 if sheet had no ad hoc grid but HsSetVal functions, if any, were run. Otherwise, returns the appropriate error code.

Example

```
Declare Function HypSubmitData Lib "HsAddin" (ByVal vtSheetName As Variant) As Long
Sub Example_HypSubmitData()
Worksheets(Empty).range("B2").value = 8023
Worksheets(Empty).range("B2").Select
sts = HypSubmitData(Empty)
End Sub
```

HypPivot

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypPivot() transposes spreadsheet rows and columns, based on the selected dimension.

Syntax

HypPivot(vtSheetName, vtStart, vtEnd)

ByVal vtSheetName As Variant

ByVal vtStart As Variant

ByVal vtEnd As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtStart: The range object that refers to the single cell starting point of the pivot

vtEnd: The range object that refers to the single cell ending point of the pivot

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypPivot Lib "HsAddin" (ByVal vtSheetName As Variant,  ByVal
vtStart As Variant, ByVal vtEnd As Variant) As Long

Sub Example_HypPivot()
X=HypPivot(Empty, RANGE("B2"), RANGE("D1"))
   If X = 0 Then
      MsgBox("Pivot successful.")
   Else
      MsgBox("Pivot failed.")
   End If
End Sub
```

HypPivotToGrid

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypPivotToGrid() moves the selected dimension and members from the POV to the spreadsheet grid.

Syntax

HypPivotToGrid (vtSheetName, vtDimensionName, vtSelection)

ByVal vtSheetName As Variant

ByVal vtDimensionName As Variant

ByVal vtSelection As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimensionName: The currently selected dimension from the toolbar

vtSelection: The range object that refers to the single cell starting point of the pivot. Orientation is calculated based on the selection.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypPivotToGrid Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtDimensionName As Variant, ByVal vtSelection As Variant) As Long

Sub Example_PivotGrid()
X = HypPivotToGrid(Empty, "Product", Range("E6"))
If X = 0 Then
   MsgBox ("Pivot to grid successful.")
Else
   MsgBox ("Pivot to grid failed.")
End If
End Sub
```

HypPivotToPOV

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypPivotToPOV() pivots from the grid to the POV.

Syntax

HypPivotToPOV (vtSheetName, vtSelection)

ByVal vtSheetName As Variant

ByVal vtSelection As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelection: The range object that refers to the single cell starting point of the pivot. Orientation is calculated based on the selection.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypPivotToPOV Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtSelection As Variant) As Long
Sub Example_HypPivotToPOV()
X=HypPivotToPOV(Empty, RANGE("E6"))
If X = 0 Then
   MsgBox("Pivot to POV successful.")
Else
   MsgBox("Pivot to POV failed.")
End If
End Sub
```

HypKeepOnly

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypKeepOnly() retains only the selected member(s) in the sheet and removes unselected members.

Selection must include only member cells, not data cells.

Syntax

HypKeepOnly(vtSheetName, vtSelection)

ByVal vtSheetName As Variant

ByVal vtSelection As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelection: The range object that refers to the member(s) to be kept. If selection is Null or Empty, the active cell is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Examples

To keep only one member name:

```
Public Declare Function HypKeepOnly Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtSelection As Variant) As Long

Sub Example_HypKeepOnly()
   X=HypKeepOnly(Empty, RANGE("D2"))
   If X = 0 Then
      MsgBox("Keep Only successful.")
   Else
      MsgBox("Keep Only failed." + X)
   End If
End Sub
```

To keep multiple member names:

```
Public Declare Function HypKeepOnly Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtSelection As Variant) As Long

Sub Example_HypKeepOnly
   X=HypKeepOnly(Empty, RANGE("D2:A5"))
   If X = 0 Then
      MsgBox("Keep Only successful.")
   Else
      MsgBox("Keep Only failed." + X)
   End If
End Sub
```

HypRemoveOnly

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypRemoveOnly() removes only the selected member(s) in the worksheet.

Selection must include only member cells, not data cells.

Syntax

HypRemoveOnly(vtSheetName, vtSelection)

ByVal vtSheetName As Variant

ByVal vtSelection As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelection: The range object that refers to the member(s) to be removed. If selection is Null or Empty, the active cell is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Examples

To remove only one member name:

```
Public Declare Function HypRemoveOnly Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtSelection As Variant) As Long

Sub Example_HypRemoveOnly()
X=HypRemoveOnly(Empty, RANGE("D2"))
If X = 0 Then
   MsgBox("Remove Only successful.")
Else
   MsgBox("Remove Only failed." + X)
End If
End Sub
```

To remove multiple member names:

```
Public Declare Function HypRemoveOnly Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtSelection As Variant) As Long

Sub Example_HypRemoveOnly()
X=HypRemoveOnly(Empty, RANGE("D2, A5"))
If X = 0 Then
   MsgBox("Remove Only successful.")
Else
   MsgBox("Remove Only failed." + X)
End If
End Sub
```

HypZoomIn

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypZoomIn() retrieves and expands data from Smart View based on the selected members.

Syntax

HypZoomIn(vtSheetName, vtSelection, vtLevel, vtAcross)

ByVal vtSheetName As Variant

ByVal vtSelection As Variant

ByVal vtLevel As Variant

ByVal vtAcross As Variant (not used)

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelection: The range object that refers to the members to be zoomed in on. If the selection is Null or Empty, the active cell is used.

vtLevel: The number that indicates the level of the zoom. Available levels:

- 0 = Next level
- 1 = All levels
- 2 = Bottom level
- 3 = Siblings (available only for Essbase 11.1.2.1.102 or later connections using Provider Services)
- 4 = Same Level (available only for Essbase 11.1.2.1.102 or later connections using Provider Services)
- 5 = Same generation (available only for Essbase 11.1.2.1.102 or later connections using Provider Services)
- 6 = Formulas (available only for Essbase 11.1.2.1.102 or later connections using Oracle Hyperion Provider Services)

If Null, Empty or an incorrect value is passed, the currently selected option is used.

vtAcross: Not used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypZoomIn Lib "HsAddin" (ByVal vtSheetName As Variant,  ByVal vtSelection
As Variant, ByVal vtLevel As Variant, ByVal vtAcross As Variant) As Long

Sub Example_HypZoomIn()
X=HypZoomIn(Empty, RANGE("B3"), 1, FALSE)
```

```
If X = 0 Then
   MsgBox("Zoom successful.")
Else
   MsgBox("Zoom failed.")
End If
End Sub
```

HypZoomOut

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypZoomOut() collapses the view of data based on the selected members.

Syntax

HypZoomOut(vtSheetName, vtSelection)

ByVal vtSheetName As Variant

ByVal vtSelection As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelection: The range object that refers to the members to be zoomed out on. If the selection is Null or Empty, the active cell is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypZoomOut Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtSelection As Variant) As Long

Sub Example_HypZoomOut()
X=HypZoomOut(Empty, RANGE("B3"))
If X = 0 Then
   MsgBox("Zoom out successful.")
Else
   MsgBox("Zoom out failed.")
End If
End Sub
```

6 Form Functions

In This Chapter

About Forms

Forms are grid displays that enable users to enter data into the database and to view and analyze data or related text. In Financial Management, Hyperion Enterprise, forms are called "data forms."

"HypOpenForm " on page 93

HypOpenForm

Data provider types: Planning, Financial Management, Hyperion Enterprise

Description

HypOpenForm () opens the specified form.

Syntax

HypOpenForm (vtSheetName, vtFolderPath, vtFormName, vtDimensionList(), vtMemberList())

ByVal vtSheetName As Variant

ByVal vtFolderPath As Variant

ByVal vtFormName As Variant

ByRef vtDimensionList() As Variant

ByRef vtMemberList() As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtFolderPath: The folder path name

vtFormName: The name of the data form

vtDimensionList(): not in use

vtMemberList(): not in use

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypOpenForm Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtFolderPath As Variant, ByVal vtFormName As Variant, ByRef vtDimensionList() As Variant,
ByRef vtMemberList() As Variant) As Long

Sub Example_HypOpenForm()
  Dim DimList() As Variant
  Dim MemList() As Variant
  sts = HypOpenForm(Empty, "/Forms/data1", "data1", DimList, MemList)
  MsgBox (sts)
End Sub
```

7 Cell Functions

In This Chapter

About Cell Functions

Cell functions perform operations and retrieve information for data cells and their contents.

HypGetDimMbrsForDataCell

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetDimMbrsForDataCell() retrieves the entire set of dimension members for a data cell. These members must be in the grid.

Syntax

HypGetDimMbrsForDataCell (vtSheetName, vtCellRange, vtServerName, vtAppName, vtCubeName, vtFormName, vtDimensionNames, vtMemberNames)

ByVal vtSheetName As Variant

ByVal vtCellRange As Variant

ByRef vtServerName As Variant

ByRef vtAppName As Variant

ByRef vtCubeName As Variant

ByRef vtFormName As Variant

ByRef vtDimensionNames As Variant

ByRef vtMemberNames As Variant

Parameters

vtSheetName: Input variable; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtCellRange: Input variable; the range of the cell (one cell only)

vtServerName: Output variable; the name of the server the associated connection on the sheet is connected to

vtAppName: Output variable; the name of the application the associated connection on the sheet is connected to

vtCubeName: Output variable; the name of the cube /database (Plan Type in Planning) the associated connection on the sheet is connected to

vtFormName: Output variable; the name of the form the associated connection on the sheet is connected to (in ad hoc grids, this is returned as an empty string)

vtDimensionNames: Output variable; the array of dimension names

vtMemberNames: Output variable; the array of member names

Return Value

Returns 0 if successful; otherwise, the appropriate error code.

Example

In order to run the example below, the defined sheet in `oSheetName` must contain a valid grid, and the cell or cell range defined in `oSheetDisp.Range` must be a valid data cell within a grid.

```
Public Declare Function HypGetDimMbrsForDataCell Lib "HsAddin" (ByVal vtSheetName As
Variant, ByVal vtCellRange As Variant, ByRef vtServerName As Variant, ByRef vtAppName As
Variant, ByRef vtCubeName As Variant, ByRef vtFormName As Variant, ByRef vtDimensionNames
As Variant, ByRef vtMemberNames As Variant) As Long

Sub Example_HypGetDimMbrsForDataCell()

Dim oRet As Long
Dim oSheetName As String
Dim oSheetDisp As Worksheet
```

```
Dim vtDimNames As Variant
Dim vtMbrNames As Variant
Dim vtServerName As Variant
Dim vtAppName As Variant
Dim vtCubeName As Variant
Dim vtFormName As Variant
Dim lNumDims As Long
Dim lNumMbrs As Long
Dim sPrintMsg As String

oSheetName = "Sheet1"
Set oSheetDisp = Worksheets("Sheet1")
oRet = HypGetDimMbrsForDataCell("", oSheetDisp.Range("valid data cell"), vtServerName,
vtAppName, vtCubeName, vtFormName, vtDimNames, vtMbrNames)

If (oRet = SS_OK) Then
    If IsArray(vtDimNames) Then
        lNumDims = UBound(vtDimNames) - LBound(vtDimNames) + 1
    End If

    If IsArray(vtMbrNames) Then
        lNumMbrs = UBound(vtMbrNames) - LBound(vtMbrNames) + 1
    End If

   sPrintMsg = "Number of Dimensions = " & lNumDims & "  Number of Members = " & lNumMbrs &
" Cube Name - " & vtCubeName
    MsgBox (sPrintMsg)
End If

End Sub
```

HypCell

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypCell() retrieves a cell value for a single member combination.

Syntax

HypCell(vtSheetName, ParamArray MemberList())

ByVal vtSheetName As Variant

ByVal ParamArray MemberList() As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

MemberList: A list of strings that describe the member combination for which a data value will be retrieved. If MemberList is Null or Empty, the top level value is used. Represent members as `"Dimension#Member"`; for example, `"Year#Jan"` or `"Market#East"`.

Return Value

Returns the value of the data point if successful. Returns #No Connection if the sheet cannot be determined or is not connected to a data provider. Returns "Invalid Member *MemberName* or dimension *DimensionName*" if a member is incorrect.

Example

```
Declare Function HypCell Lib "HsAddin" (ByVal vtSheetName As Variant, ParamArray
MemberList() As Variant) As Variant

Sub Example_HypCell()
Dim X As String
X=HypCell(Empty, "Year#Qtr1", "Scenario#Actual", "Market#Oregon")
    If X = "#No Connection" Then
       MsgBox("Not logged in, or sheet not active.")
    Else
       If Left(X, 15) = "#Invalid member" then
          MsgBox("Member name incorrect.")
       Else
          MsgBox(X + " Value retrieved successfully.")
       End If
    End If
End Sub
```

Note: The value of the data point returned is not placed in a cell in the spreadsheet automatically. To place the value in a cell, use the Visual Basic select method and the ActiveCell property. See your Visual Basic documentation for more information.

HypFreeDataPoint

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypFreeDataPoint() frees any memory allocated by HypGetDataPoint.

Syntax

Syntax

HypFreeDataPoint(vtInfo)

ByRef vtInfo As Variant

Parameters

vtInfo: The variant array returned by HypGetDataPoint

Return Value

Returns 0 if successful; returns -15 ("Invalid Parameter)") if not successful.

Example

See "HypGetDataPoint" on page 100 for an example of HypFreeDataPoint.

HypGetCellRangeForMbrCombination

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetCellRangeForMbrCombination() retrieves the cell range for the selected combination of members.

Syntax

HypGetCellRangeForMbrCombination (vtSheetName, vtDimNames, vtMbrNames, vtCellIntersectionRange)

By Val vtSheetName As Variant

ByRef vtDimNames As Variant

ByRef vtMbrNames As Variant

ByRef vtCellIntersectionRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimNames: Input variable; the array of dimension names

vtMbrNames: Input variable; the array of member names corresponding to the dimensions (in the same order)

vtCellIntersectionRange: Output variable; the range of the cell(s) on the grid

Return Value

Returns SS_OK if successful; otherwise, the appropriate error code.

Example

```
Public Declare Function HypGetCellRangeForMbrCombination Lib "HsAddin" (ByVal vtSheetName
As Variant, ByRef vtDimNames() As Variant, ByRef vtMbrNames() As Variant, ByRef
vtCellIntersectionRange As Variant) As Long
Sub Example_HypGetCellRangeForMbrCombination()

        Dim oRet As Long
        Dim oSheetName As String
        Dim oSheetDisp As Worksheet
        Dim vtDimNames(3) As Variant
        Dim vtMbrNames(3) As Variant
        Dim vtReturnCellRange As Variant
```

```
        Dim oRange As Range

        'oSheetName = Empty
        'Set oSheetDisp = Worksheets(oSheetName$)

        vtDimNames(0) = "Measures"
        vtDimNames(1) = "Market"
        vtDimNames(2) = "Year"
        vtDimNames(3) = "Product"
        'vtDimNames(4) = ""

        vtMbrNames(0) = "Sales"
        vtMbrNames(1) = "New York"
        vtMbrNames(2) = "Year"
        vtMbrNames(3) = " Product"
        'vtMbrNames(4) = ""

oRet = HypGetCellRangeForMbrCombination ("", vtDimNames, vtMbrNames, vtReturnCellRange)

If (oRet = 0) Then
    Set oRange = vtReturnCellRange
End If
End Sub
```

HypGetDataPoint

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetDataPoint() retrieves member information for a single data cell. For example, to find out the members that consist of the data intersection at cell B6, HypGetDataPoint may return the members January, California, Actual, Root Beer, Profit.

Syntax

HypGetDataPoint (vtSheetName, vtCell)

By Val vtSheetName As Variant

By Val vtCell As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtCell: The reference cell for which to retrieve the member combination information

Return Value

Returns an array of member names.

Example

```
Declare Function HypGetDataPoint Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtCell As Variant) As Variant

Sub Example_HypGetDataPoint()
Dim vt As Variant
Dim cbItems As Variant
Dim i As Integer
Dim pMember As String
vt = HypGetDataPoint(Empty, range ("B3"))
If IsArray(vt) Then
    cbItems = UBound(vt) - LBound(vt) + 1
    MsgBox ("Number of elements = " + Str(cbItems))

    For i = LBound(vt) To UBound(vt)
        MsgBox ("Member = " + vt(i))
    Next
    X = HypFreeDataPoint(vt)
Else
    MsgBox ("Return Value = " + Str(vt))
End If
End Sub
```

HypIsCellWritable

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypIsCellWritable() checks to see whether a cell is writable.

Syntax

HypIsCellWritable (vtSheetName, vtCellRange)

ByVal vtSheetName As Variant

ByVal vtCellRange As Variant

Parameters

vtSheetName: Input parameter; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtCellRange: Output parameter; the range of the cell (one cell only) whose writability is to be checked

Return Value

Returns VARIANT_TRUE if the cell is writable; otherwise, VARIANT_FALSE.

Example

```
Public Declare Function HypIsCellWritable Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtCellRange As Variant) As Boolean

Sub Example_HypIsCellWritable()

            Dim oRet As Boolean
            Dim oSheetName As String
            Dim oSheetDisp As Worksheet

            oSheetName = "Sheet1"
            Set oSheetDisp = Worksheets(oSheetName$)
            oRet = HypIsCellWritable (Empty, oSheetDisp.Range("G2"))

End Sub
```

HypSetCellsDirty

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSetCellsDirty() marks selected data range dirty for submitting data.

Syntax

HypSetCellsDirty (vtSheetName, vtRange)

ByVal vtSheetName As Variant

ByVal vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: Variant data range to be marked as dirty

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetCellsDirty Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtRange As Variant) As Long

Sub Example_HypSetCellsDirty()
   X=HypSetCellsDirty (Empty, Range ("A3:B3"))
End Sub
```

HypDeleteAllLROs

Data provider types: Essbase

Description

HypDeleteAllLROs() deletes all linked reporting objects from the cells specified by the vtSelectionRange parameter.

Syntax

HypDeleteAllLROs (vtSheetName, vtSelectionRange)

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: The range of cells from which to delete all linked reporting objects

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypDeleteAllLROs Lib "HsAddin" (ByVal vtSheetName As
Variant,ByVal vtSelectionRange As Variant) As Long

Sub Example_HypDeleteAllLROs
sts = HypDeleteAllLROs("Sheet1", Range("B3"))
End Sub
```

HypDeleteLROs

Description

HypDeleteLROs() deletes one or more linked reporting objects from the cells specified by the vtSelectionRange parameter.

Syntax

Syntax

HypDeleteLROs (vtSheetName, vtSelectionRange, vtLROIDs())

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

ByRef vtLROIDs() As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: Input variable; the range of cells from which to delete all linked reporting objects

vtLROIDs(): Input variable; the array of LRO Ids to be deleted

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypDeleteLROs Lib "HsAddin" (ByVal vtSheetName As Variant,ByVal
vtSelectionRange As Variant, ByRef vtLROIDs() As Variant) As Long

Sub Example_HypDeleteLROs()
Dim LROIDs(1)
LROIDs(0) = 1
LROIDs(1) = 2
sts = HypDeleteLROs("Sheet1", Range("B3"), LROIDs)
End Sub
```

HypAddLRO

Data provider types: Essbase

Description

HypAddLRO() adds linked reporting objects to the cells specified by the vtSelectionRange parameter. To see the added linked reporting objects, you must launch the **Linked Reporting Objects** dialog box or or use HypListLRO.

Syntax

HypAddLRO(vtSheetName, vtSelectionRange, vtlType, vtName, vtDescription)

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

ByVal vtlType As Variant

ByVal vtName As Variant

ByVal vtDescription As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: Input parameter; the range of cells to associate with the linked reporting object

vtlType: Input parameter; the linked reporting object type expressed as a constant

- 1—Cell note
- 2—File
- 3—URL

vtName: Input variable; the location of the file with filename and URL information. Not used for cell note.

vtDescription: Input variable; the description of the cell note, file, or URL

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Public Declare Function HypAddLRO Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtSelectionRange As Variant, ByVal vtlType As Variant, ByVal vtName As Variant, ByVal
vtDescription As Variant, ByRef vtLROIDs() As Variant) As Long
Sub Example_HypAddLRO()
 sts = HypAddLRO("Sheet1", Range("B3"), 1, "", "Hello World")
End Sub
```

HypUpdateLRO

Description

HypUpdateLRO() updates linked reporting objects associated with the cells specified by the vtSelectionRange parameter. To see the updates, you must launch the **Linked Reporting Objects** dialog box or or use HypListLRO.

Syntax

HypUpdateLRO(vtSheetName, vtSelectionRange, vtID,vtlType, vtName, vtDescription)

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

ByVal vtID As Variant

ByVal vtlType As Variant

ByVal vtName As Variant

ByVal vtDescription As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: Input variable; the range of cells to associate with the linked reporting object

vtID: Input variable; the ID of the linked reporting object to be updated

vtlType: Input variable; the linked reporting object type expressed as a constant

- 1—Cell note
- 2—File
- 3—URL

vtName: Input variable; the location of the file with filename and URL information. Not used for cell note.

vtDescription: Input variable; the description of the cell note, file, or URL

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Public Declare Function HypUpdateLRO Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtSelectionRange As Variant, ByVal vtID As Variant, ByVal vtlType As Variant, ByVal vtName
As Variant, ByVal vtDescription As Variant) As Long

Sub Example_HypUpdateLRO
sts = HypUpdateLRO("Sheet1", Range("B3"), "2", 2, "d:\test2.txt", "linked object")
End Sub
```

HypListLROs

Data provider types: Essbase

Description

HypListLROs() lists all linked reporting objects associated with the cells specified by the vtSelectionRange parameter.

Syntax

HypListLROs (vtSheetName, vtSelectionRange, vtLRO)

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

ByRef vtLRO As LRO_Info

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: Input variable; the range of cells from which to list all linked reporting objects

vtLRO: Output variable; the 2-dimensional array of linked reporting objects

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypListLROs Lib "HsAddin" (ByVal vtSheetName As Variant,ByVal
vtSelectionRange As Variant,ByRef vtLRO) As Long

Dim ObjectList As LRO_Info
Sub Example_HypListLROs()
sts = HypListLROs("Sheet1", Range("B3"), ObjectList)
End Sub
```

HypRetrieveLRO

Data provider types: Essbase

Description

HypRetrieveLRO() retrieves linked reporting objects associated with the cells specified by the vtSelectionRange parameter. To see the linked reporting objects, you must launch the **Linked Reporting Objects** dialog box or or use HypListLRO.

Syntax

HypRetrieveLRO(vtSheetName, vtSelectionRange, vtID,vtlType, vtName, vtDescription)

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

ByVal vtID As Variant

ByVal vtName As Variant

ByVal vtDescription As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: Input variable; the range of cells to associate with the linked reporting object

vtID: Input variable;the ID of the linked reporting object to be retrieved. This is provided when you execute HypListLROs.

vtName: Output variable;the name of the linked reporting object

vtDescription: Output variable; the description of the retrieved linked reporting object

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Public Declare Function HypRetrieveLRO Lib "HsAddin" (ByVal vtSheetName As Variant,ByVal
vtSelectionRange As Variant,ByVal vtID,ByRef vtName,ByRef vtDescription) As Long

Sub Example_HypRetrieveLRO
sts = HypRetrieveLRO("Sheet1", Range("B3"), "1", vtName, vtDescription)
End Sub
```

HypExecuteDrillThroughReport

Data provider types: Essbase

Description

HypExecuteDrillThroughReport() executes the specified drill-through report. See also "HypGetDrillThroughReports" on page 109.

Syntax

HypExecuteDrillThroughReport(vtSheetName, vtSelectionRange, vtID, vtName, vtURL, vtURLTemplate, vtType)

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

ByVal vtID As Variant

ByVal vtName As Variant

ByVal vtURL As Variant

ByVal vtURLTemplate As Variant

ByVal vtType As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: Input variable; the range of cells in which to execute the drill-through report

vtID: Input variable; the ID for the execution of the drill-through report. This is returned from the server when you run HypGetDrillThroughReports.

vtName: Input variable; the name of the drill-through report. This is returned from the server when you run HypGetDrillThroughReports.

vtURL: Input variable; the URL of the drill-through report. This is returned from the server when you run HypGetDrillThroughReports.

vtURLTemplate: Input variable; the URL template of the drill-through report. This is returned from the server when you run HypGetDrillThroughReports.

vtType: Input variable; the type of the drill-through report. This is returned from the server when you run HypGetDrillThroughReports.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypExecuteDrillThroughReport Lib "HsAddin" (ByVal vtSheetName As
Variant,ByVal vtSelectionRange As Variant,ByVal vtID As Variant,ByVal vtName As
Variant,ByVal vtURL As Variant,ByVal vtURLTemplate As Variant,ByVal vtType As Variant) As
Long

Sub Example_HypExecuteDrillThroughReport()
sts = HypExecuteDrillThroughReport("Sheet3", Range("B3"), ids(0), names(0), "", "", "")
End Sub
```

HypGetDrillThroughReports

Data provider types: Essbase

Description

HypGetDrillThroughReports() retrieves a list of drill-through reports. See also "HypExecuteDrillThroughReport" on page 108.

Syntax

HypGetDrillThroughReports(vtSheetName, vtSelectionRange, vtIDs, vtNames, vtURLs, vtURLTemplates, vtTypes)

ByVal vtSheetName As Variant

ByVal vtSelectionRange As Variant

ByVal vtIDs As Variant

ByVal vtNames As Variant

ByVal vtURLs As Variant

ByVal vtURLTemplates As Variant

ByVal vtTypes As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtSelectionRange: The range of cells that contain the drill-through reports to retrieve

vtIDs: Output variable; the array of the IDs returned from the server

vtNames: Output variable; the array of the names returned from the server

vtURLs: Output variable; the array of the URLs returned from the server

vtURLTemplates: Output variable; the array of the URL templates returned from the server

vtTypes: Output variable; the array of the types returned from the server

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypGetDrillThroughReports Lib "HsAddin" (ByVal vtSheetName As
Variant,ByVal vtSelectionRange As Variant,ByRef vtIDs As Variant,ByRef vtNames As
Variant,ByRef vtURLs As Variant,ByRef vtURLTemplates As Variant,ByRef vtTypes As Variant)
As Long

Sub Example_HypGetDrillThroughReports()
sts = HypGetDrillThroughReports("Sheet3", Range("B3"), ids, names, urls, urltemplates,
types)
End Sub
```

8 POV Functions

In This Chapter

About POV Functions

POV functions specify or retrieve settings for the POV.

HypSetPOV

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypSetPOV() sets the POV for the selected ad hoc worksheet. This function does not support data forms; for forms, use HypSetPages instead (see "HypSetPages" on page 114).

Syntax

HypSetPOV(vtSheetName, ParamArray MemberList())

ByVal vtSheetName As Variant

ParamArray MemberList() As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

ParamArray MemberList(): A list of strings that describe the member combination for which a data value will be retrieved. If MemberList is null or empty, the top level value is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code. If you use this function on a form instead of an ad hoc worksheet, error -69 (deprecated VBA) is returned.

Example

```
Declare Function HypSetPOV Lib "HsAddin" (ByVal vtSheetName As Variant, ParamArray
MemberList() As Variant) As Long
Sub Example_HypSetPOV()
   X=HypSetPOV (Empty,"Year#Qtr1", "Market#East")
End Sub
```

HypGetBackgroundPOV

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetBackgroundPOV() returns the list of background POV members as two-string arrays. One string array contains the POV dimension names; the other contains the member names.

Syntax

HypGetBackgroundPOV (vtFriendlyName, vtDimensionNames, vtMemberNames)

ByVal vtFriendlyName As Variant

ByRef vtDimensionNames As Variant

ByRef vtMemberNames As Variant

Parameters

vtFriendlyName: Input variable; the connection name of the data provide.

vtDimensionNames: Output variable; the dimension names array

vtMemberNames: Output variable; the member names array (one member per POV dimension)

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

This example assumes that the worksheet is connected and has a grid.

```
Public Declare Function HypGetBackgroundPOV Lib "HsAddin" (ByVal vtFriendlyName As
Variant, ByRef vtDimensionNames As Variant, ByRef vtMemberNames As Variant) As Long
Sub Example_GetBackgroundPOV()
sts = con = HypGetBackgroundPOV("stm10026_Sample_Basic", vtDim, vtMem)
End Sub
```

HypSetBackgroundPOV

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSetBackgroundPOV() sets the POV for the connection object in the POV Manager.

Syntax

HypSetBackgroundPOV(vtFriendlyName, ParamArray MemberList())

ByVal vtFriendlyName As Variant

ParamArray MemberList() As Variant

Parameters

vtFriendlyName: The connection name of the data provider.

MemberList: A list of strings that describe the member combination for which a data value will be retrieved. If MemberList is Null or Empty, the top level HypSetDimensions value is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetBackgroundPOV Lib "HsAddin" (ByVal vtFriendlyName, ParamArray
MemberList() As Variant) As Long

Sub Example_ypSetBackgroundPOV()
   X=HypSetBackgroundPOV ("My Connection","Year#Qtr1", "Market#East")
End Sub
```

HypGetPagePOVChoices

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetPagePOVChoices() returns the available member names and member description for a given dimension.

Syntax

HypGetPagePOVChoices(vtSheetName, vtDimensionName, vtMbrNameChoices, vtMbrDescChoices)

ByVal vtSheetName As Variant

ByVal vtDimensionName As Variant

ByRef vtMbrNameChoices As Variant

ByRef vtMbrDescChoices As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimensionName: The dimension names in the POV

vtMbrNameChoices: Output parameter; the array of member names

vtMbrDescChoices: Output parameter; the array of member descriptions

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypGetPagePOVChoices Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtDimensionName As Variant, ByRef vtMbrNameChoices As Variant, ByRef
vtMbrDescChoices As Variant) As Long
Sub Example_HypGetPagePOVChoices()
  Dim mbrName As Variant
  Dim mbrDesc As Variant
  sts = HypGetPagePOVChoices(Empty, "Product", vtMbrNameChoices, vtMbrDescChoices)
  MsgBox (sts)
 End Sub
```

HypSetPages

Data provider types: Planning (forms only), Financial Management (forms only), Hyperion Enterprise (forms only)

Description

HypSetPages() sets the page members for the selected sheet.

Syntax

HypSetPages (ByVal vtSheetName, ParamArray MemberList())

ByVal vtSheetName As Variant

ParamArray MemberList() As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

ParamArray MemberList(): The list of desired page member items in the form `Dimension#Current Member`. If MemberList is Null or Empty, the top level value is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypSetPages Lib "HsAddin" (ByVal vtSheetName As Variant,
ParamArray MemberList() As Variant) As Long

Sub Example_HypSetPages()
X=HypSetPages (Empty,"Entity#Operations","Scenario#Current")
End Sub
```

HypGetMembers

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetMembers() gets the list of selected or used members for a given dimension present in the grid.

For Essbase and Planning, member names are based on the selected alias table.

For Financial Management, the second array returns the descriptions.

For POV (in forms), Page (in ad hoc) and user variables, a single member is returned.

To uniquely identify the user variable, provide the user variable name rather than the dimension name.

Syntax

HypGetMembers (vtSheetName, vtDimensionName, vtMbrNameChoices, vtMbrDescChoices)

ByVal vtSheetName As Variant

ByVal vtDimensionName As Variant

ByRef vtMbrNameChoices As Variant

ByRef vtMbrDescChoices As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimensionName: Input variable; the name of the dimension for which the selected member list is to be returned

vtMbrNameChoices: Output variable; the array of member names used

vtMbrDescChoices: Output variable; the array of member name descriptions. For Essbase and Planning, this is the same as member names. This list will be empty if the dimension is a row or column dimension.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

This example assumes that the worksheet is connected and has a grid.

```
Public Declare Function HypGetMembers Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtDimensionName As Variant, ByRef vtMbrNameChoices As Variant, ByRef vtMbrDescChoices As
Variant) As Long
Sub Example_HypGetMembers()
sts = HypGetMembers("Sheet1", "Year", vtMbr, vtDes)
End Sub
```

HypSetMembers

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSetMembers() sets the list of POV dimension choices in ad hoc grids and the Page list in Financial Management forms.

This function cannot be used to set the Page list in Planning forms, nor can it be used to set row or column members.

The member list submitted by the user is validated before it is set.

Syntax

HypSetMembers (vtSheetName, vtDimensionName, ParamArray MemberList())

ByVal vtSheetName As Variant

ByVal vtDimensionName As Variant

ParamArray MemberList() As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimensionName: Input variable; the name of the dimension for which the selected member list is to be set

MemberList: Input variable; the array of member names to be set as choices

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

This example assumes that the worksheet is connected and has a grid. Note: "InvalidMember" does not belong to the Entity dimension and therefore will not be included in the list of dimension choices.

```
Public Declare Function HypSetMembers Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtDimensionName As Variant, ParamArray MemberList() As Variant) As Long
Sub Example_HypSetMembers()
sts = HypSetMembers("Sheet1", "Entity", "Regional", "InvalidMember", "None")
End Sub
```

HypGetActiveMember

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetActiveMember () returns the active member name of the given dimension. The active member for page dimensions, POV dimensions, and user variables can be retrieved on ad hoc or form worksheets. Row and column dimensions are not returned.

Syntax

HypGetActiveMember (vtDimName, vtMember)

ByVal vtDimName As Variant

ByRef vtMember As Variant

Parameters

vtDimName: Input variable; the dimension name whose active member is to be retrieved

vtMember: Output variable; the active member name returned

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

This example assumes that the worksheet is connected and has a grid.

```
Public Declare Function HypGetActiveMember Lib "HsAddin" (ByVal vtDimName As Variant,
ByRef vtMember As Variant) As Long
Sub Example_GetActiveMember()
sts =  HypGetActiveMember("Market", vtMem)
End Sub
```

HypSetActiveMember

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSetActiveMember() sets the active member for a given dimension: page, POV, and user variables. Does not apply to row and column dimensions.

Syntax

HypSetActiveMember (vtDimName, vtMember)

ByVal vtDimName As Variant

ByVal vtMember As Variant

Parameters

vtDimName: Input variable; the dimension name whose active member is to be changed or set

vtMember: Input variable; the active member to be set

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

This example assumes that the worksheet is connected and has a grid.

```
Public Declare Function HypSetActiveMember Lib "HsAddin" (ByVal vtDimName As Variant,
ByVal vtMember As Variant) As Long
Sub Example_HypSetActiveMember()
sts =  HypSetActiveMember("Market", "Washington")
End Sub
```

HypGetDimensions

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetDimensions() returns an array containing the dimension names in the grid and an array containing their corresponding types.

Type array has five possible types (row, column, page, POV, user variable), which can be identified using the following enumeration:

```
Enum DIMENSION_TYPE
     ROW_DIM = 0
     COL = 1
     POV = 2
     PAGE = 3
```

```
     USERVAR = 5
End Enum
```

To uniquely identify the user variable, use the user variable name rather than the dimension name.

Syntax

HypGetDimensions (vtSheetName, vtMemberNames, vtType)

ByVal vtSheetName As Variant

ByRef vtMemberNames As Variant

ByRef vtType As Variant

Parameters

vtSheetName: Input parameter; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberNames: Output variable; the dimension name array present in the grid

vtType: Output variable; the type information for the respective dimension

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

This example assumes that the worksheet is connected and has a grid.

```
Public Declare Function HypGetDimensions Lib "HsAddin" (ByVal vtSheetName As Variant,
ByRef vtMemberNames As Variant, ByRef vtType As Variant) As Long
Sub Example_GetDimensions()
sts = HypGetDimensions("Sheet1", vtDim, vtType)
End Sub
```

HypSetDimensions

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypSetDimensions() specifies an ad hoc grid layout other than the default grid by rearranging the metadata of the grid. In this function, you specify an array containing the dimension names in the grid and an array containing their corresponding types.

If HypSetDimensions() is used on an existing ad hoc report, the entire grid layout is rearranged, and comments, formulas, and formatting are lost.

Syntax

HypSetDimensions(vtSheetName, vtDimNames(), vtType())

ByVal vtSheetName() As Variant

ByRef vtDimNames() As Variant

ByRef vtType() As Variant)

Parameters

vtSheetName: Input parameter; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimNames(): Input parameter; the dimension name array present in the grid

vtType(): Input parameter; the type information for the respective dimension. Possible values:

- Row dimension (ROW_DIM) = 0
- Column (COL) = 1
- POV (POV) = 2
- Page dimension (PAGE) = 3
- User variable (USERVAR) = 5

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

This example assumes that the worksheet is connected.

```
Public Declare Function HypSetDimensions Lib "HsAddin" (ByVal vtSheetName() As Variant,
ByRef vtDimNames() As Variant, ByRef vtType() As Variant) As Long
Sub Example_HypSetDimensions()
Dim dims(3) As Variant
Dim types(3) As Variant
dims(0) = "Product"
dims(1) = "Market"
dims(2) = "Scenario"
dims(3) = "Measures"
types(0) = ROW_DIM
types(1) = COL
types(2) = POV
types(3) = POV
sts = HypSetDimensions("Sheet2", dims, types)
End Sub
```

9 Calculation Script and Business Rule Functions

In This Chapter

About Calculation Script and Business Rule Functions

Calculation script and business rule functions retrieve or execute calculation scripts and business rules.

HypListCalcScripts

Data provider types: Essbase

Description

HypListCalcScripts() lists all calculation scripts present on an Essbase server.

Syntax

HypListCalcScripts (vtSheetName, vtScriptArray)

ByVal vtSheetName As Variant

ByRef vtScriptArray As Variant

Parameters

vtSheetName: Input parameter; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtScriptArray: Output parameter; the array of business rule scripts

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypListCalcScripts Lib "HsAddin" (ByVal vtSheetName As Variant, ByRef
vtScriptArray As Variant) As Long
Sub Example_HypListCalcScripts()
Dim sts As Long
Dim paramList As Variant
sts = HypListCalcScripts(Empty, paramList)
If IsArray(paramList) Then
   cbItems = UBound(paramList) - LBound(paramList) + 1
      MsgBox ("Number of elements = " + Str(cbItems))
   For i = LBound(paramList) To UBound(paramList)
      MsgBox ("Member = " + paramList(i))
   Next
   Else
      MsgBox ("Return Value = " + sts)
End If
End Sub
```

HypExecuteCalcScript

Data provider types: Essbase

Description

HypExecuteCalcScript() uses a calculation script (business rule script) to initiate a calculation on the server.

Syntax

HypExecuteCalcScript (vtSheetName, vtCalcScript, vtSynchronous)

ByVal vtSheetName As Variant

ByVal vtCalcScript As Variant

ByVal vtSynchronous As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtCalcScript: The name of the calculation script on the server in the database directory to run. To run the default calculation script, use `Default`.

vtSynchronous: Not used

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypExecuteCalcScript Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtCalcScript As Variant, ByVal vtSynchronous As Variant) As Long
```

```
Sub Example_HypExecuteCalcScript()
X = HypExecuteCalcScript (Empty, "Default", False)
   If X = 0 Then
      MsgBox("Calculation complete.")
   Else
      MsgBox("Calculation failed.")
   End If
End Sub
```

HypListCalcScriptsEx

Data provider types: Essbase, Planning

Description

HypListCalcScriptsEx() lists all business rules.

Note: See **Usage** under **HypExecuteCalcScriptsEx** for more information.

Syntax

HypListCalcScriptsEx (vtSheetName, vtbRuleOnForm, vtCubeNames, vtBRNames, vtBRTypes, vtBRHasPrompts, vtBRNeedsPageInfo, vtBRHidePrompts)

ByVal vtSheetName As Variant

ByVal vtbRuleOnForm As Variant

ByRef vtCubeNames As Variant

ByRef vtBRNames As Variant

ByRef vtBRTypes As Variant

ByRef vtBRHasPrompts As Variant

ByRef vtBRNeedsPageInfo As Variant

ByRef vtBRHidePrompts As Variant

Parameters

vtSheetName: Input parameter; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtbRuleOnForm: Input parameter; the boolean to indicate whether to list business rules associated only with the form opened on the sheet. If set to False, all business rules associated with the application are returned.

vtCubeNames: Output parameter; the array of cube names (plan types in Planning) associated with the business rules

vtBRNames: Output parameter; the array of business rule names

vtBRTypes: Output parameter; the array of business rule types

vtBRHasPrompts: Output parameter; the array of Booleans that indicate whether the business rule has runtime prompts (RTP)

vtBRNeedsPageInfo: Output parameter; the array of Booleans that indicate whether the business rule requires Page Information to be run on the sheet

vtBRHidePrompts: Output parameter; the array of Booleans that indicate whether the RTPs for the business rule are hidden

Return Value

Returns 0 if successful; otherwise, the appropriate error code.

Example

```
Public Declare Function HypListCalcScriptsEx Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtbRuleOnForm As Variant, ByRef vtCubeNames As Variant, ByRef vtBRNames As Variant,
ByRef vtBRTypes As Variant, ByRef vtBRHasPrompts As Variant, ByRef vtBRNeedsPageInfo As
Variant, ByRef vtBRHidePrompts As Variant) As Long
Sub RunListCalcScriptsEx()
sts = HypListCalcScriptsEx(Empty, True, CubeName, BRNames, BRTypes, BRHasPrompts,
BRNeedsPageInfo, BRHidePrompts)
End Sub
```

HypExecuteCalcScriptEx

Data provider types: Essbase, Planning

Description

HypExecuteCalcScriptEx() executes the selected business rule.

Syntax

HypExecuteCalcScriptEx(vtSheetName, vtCubeName, vtBRName, vtBRType, vtbBRHasPrompts, vtbBRNeedPageInfo, vtRTPNames(), vtRTPValues(), vtbShowRTPDlg, vtbRuleOnForm, vtbBRRanSuccessfully, vtCubeName, vtBRName, vtBRType, vtbBRHasPrompts, vtbBRNeedPageInfo, vtbBRHidePrompts, vtRTPNamesUsed, vtRTPValuesUsed)

ByVal vtSheetName As Variant

ByVal vtCubeName As Variant

ByVal vtBRName As Variant

ByVal vtBRType As Variant

ByVal vtbBRHasPrompts As Variant

ByVal vtbBRNeedPageInfo As Variant

ByRef vtRTPNames() As Variant

ByRef vtRTPValues() As Variant

ByVal vtbShowRTPDlg As Variant

ByVal vtbRuleOnForm As Variant

ByRef vtbBRRanSuccessfuly As Variant

ByRef vtCubeName As Variant

ByRef vtBRName As Variant

ByRef vtBRType As Variant

ByRef vtbBRHasPrompts As Variant

ByRef vtbBRNeedPageInfo As Variant

ByRef vtbBRHidePrompts As Variant

ByRef vtRTPNamesUsed As Variant

ByRef vtRTPValuesUsed As Variant

Parameters

vtSheetName: Input parameter; the name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtCubeName: Input parameter; the cube name (plan type in Planning) associated with the business rule

vtBRName: Input parameter; the name of the business rule to be run

vtBRType: Input parameter; the type of business rule to be run

vtbBRHasPrompts: Input parameter; the Boolean that indicates whether the business rule has RTPs

vtbNeedPageInfo: Input parameter; the Boolean that indicates whether the business rule requires Page Information to be run (this information is either from HypListCalcScriptsEx or from a prior run of HypExecuteCalcScriptEx)

vtRTPNames: Input parameter; the array of RTP names associated with the business rule

vtRTPValues: Input parameter; the array of RTP values corresponding to the RTP names

vtbShowBRDlg: Input parameter; the Boolean that indicates whether to display the Business Rules dialog to let users select the business rule (True) or to execute the business rule automatically (False). If set to True, all input parameters related to the business rule are ignored. Recommendation: Set to True when running the business rule for the first time, and thereafter set to false to automate the execution of the same business rule.

vtbRuleOnForm: Input parameter; the Boolean that indicates whether the business rule is to be associated to the form open on active sheet

vtbBRRanSuccessfully: Output parameter; the Boolean value that indicates whether the last business rule ran successfully

vtCubeName: Output parameter; the cube name (plan types in Planning) associated with the last run business rule

vtBRName: Output parameter; the name of the last run business rule

vtBRType: Output parameter; the type of the last run business rule

vtbBRHasPrompts: Output parameter; the Boolean that indicates whether the last run business rule has RTPs

vtbBRNeedPageInfo: Output parameter; the Boolean that indicates whether the last run business rule requires Page information to be run

vtbBRHidePrompts: Output parameter; the Boolean that indicates whether the last run business rule has hidden RTPs

vtRTPNames: Output parameter; the array of RTP names used to run last run business rule

vtRTPValues: Output parameter; the array of RTP values associated with RTP names used to run last run business rule

Return Value

Returns 0 if successful; otherwise, the appropriate error code.

Example

```
Public Declare Function HypExecuteCalcScriptEx Lib "HsAddin" (ByVal vtSheetName As
Variant,ByVal vtCubeName As Variant,ByVal vtBRName As Variant, ByVal vtBRType As Variant,
ByVal vtbBRHasPrompts As Variant, ByVal vtbBRNeedPageInfo As Variant,ByRef vtRTPNames()
As Variant,ByRef vtRTPValues() As Variant, ByVal vtbShowRTPDlg As Variant, ByVal
vtbRuleOnForm As Variant, ByRef vtBRRanSuccessfully As Variant,ByRef vtCubeName As
Variant,ByRef vtBRName As Variant, ByRef vtBRType As Variant, ByRef vtbBRHasPrompts As
Variant, ByRef vtbBRNeedPageInfo As Variant, ByRef vtbBRHidePrompts As Variant, ByRef
vtRTPNamesUsed As Variant, ByRef vtRTPValuesUsed As Variant) As Long

Sub Example_HypExecuteCalcScriptEx()

Dim oRet As Long
Dim oSheetName As StringDim oSheet As Worksheet
Dim vtCubeNames As Variant
Dim vtBRNames As Variant
Dim vtBRTypes As Variant
Dim vtBRHasPrompts As Variant
Dim vtBRNeedsPageInfo As Variant
Dim vtBRHidePrompts As Variant
Dim sAllCalcs As String
Dim sCalcName As String
Dim bNeedPageInfo As Variant
Dim vtInRTPNames() As Variant
Dim vtInRTPValues() As Variant
Dim vtOutRTPNames As Variant
Dim vtOutRTPValues As Variant
Dim vtbBRRanSuccessfully As Variant
Dim vtbBRRanSuccessfully2 As Variant
Dim vtOutCubeName As Variant
Dim vtOutBRName As Variant
Dim vtOutBRType As Variant
```

```
Dim bBRHasPrompts As Variant
Dim bBRNeedPageInfo As Variant
Dim bBRHidePrompts As Variant
Dim bShowDlg As Variant
Dim bRuleOnForm As Variant

'Set oSheet = ActiveSheet
'oSheetName = oSheet.Name
oSheetName = "Sheet3"

oRet = HypListCalcScriptsEx (oSheetName, False, vtCubeNames, vtBRNames, vtBRTypes,
vtBRHasPrompts, vtBRNeedsPageInfo, vtBRHidePrompts)
If (oRet = 0) Then
    If IsArray(vtBRNames) Then
        lNumMbrs = (UBound(vtBRNames) - LBound(vtBRNames) + 1)
    End If

    sPrintMsg = "Number of Calc Scripts = " & lNumMbrs
    MsgBox (sPrintMsg)

    'Start Executing the Calc Script

    bShowDlg = True
    bRuleOnForm = False
    iScript = 1

   oRet = HypExecuteCalcScriptEx (oSheetName, vtCubeNames(iScript), vtBRNames(iScript),
 vtBRTypes(iScript), vtBRHasPrompts(iScript), vtBRNeedsPageInfo(iScript), vtInRTPNames,
vtInRTPValues, bShowDlg, bRuleOnForm, vtbBRRanSuccessfully, vtOutCubeName, vtOutBRName,
vtOutBRType,bBRHasPrompts, bBRNeedPageInfo, bBRHidePrompts, vtOutRTPNames,
vtOutRTPValues)
    If (oRet = 0) Then
        MsgBox ("Last BR ran successfully -  " & vtbBRRanSuccessfully)

        If (vtbBRRanSuccessfully = True) Then
            bShowDlg = False
            bRuleOnForm = False

            If IsArray(vtOutRTPNames) And IsArray(vtOutRTPValues) Then
                lNumRTPNames = (UBound(vtOutRTPNames) - LBound(vtOutRTPNames) + 1)
                lNumRTPVals = (UBound(vtOutRTPValues) - LBound(vtOutRTPValues) + 1)
            End If

            If (lNumRTPNames > 0) Then
                ReDim vtInRTPNames(lNumRTPNames - 1) As Variant
                ReDim vtInRTPValues(lNumRTPNames - 1) As Variant

                For iRTPs = 0 To lNumRTPNames - 1
                    sBRName = vtOutRTPNames(iRTPs)
                    sBRVal = vtOutRTPValues(iRTPs)

                    vtInRTPNames(iRTPs) = sBRName
                    vtInRTPValues(iRTPs) = sBRVal
                Next iRTPs
            End If

            oRet = HypExecuteCalcScriptEx (oSheetName, vtOutCubeName, vtOutBRName,
```

```
vtOutBRType, bBRHasPrompts, bBRNeedPageInfo, vtInRTPNames, vtInRTPValues, bShowDlg,
bRuleOnForm, vtbBRRanSuccessfully2, vtOutCubeName,  vtOutBRName, vtOutBRType,
bBRHasPrompts, bBRNeedPageInfo, bBRHidePrompts, vtOutRTPNames, vtOutRTPValues)
            MsgBox ("Automated BR ran successfully -  " & vtbBRRanSuccessfully2)
        End If
    Else
        sPrintMsg = "Error - " & oRet
        MsgBox (sPrintMsg)
    End If
Else
    sPrintMsg = "Error - " & oRet
    MsgBox (sPrintMsg)
End If

End Sub
```

Usage

You can use HypExecuteCalcScriptEx in four modes, depending on whether HypListCalcScriptsEx is called before HypExecuteCalcScriptEx.

If you do *not* call HypListCalcScriptsEx before HypExecuteCalcScriptEx, then the first time you call HypListCalcScriptsEx you should set vtbShowBRDlg to True for the first usage and to False thereafter.

- When vtbShowBRDlg is **True** (mode 1):
    - **Input Arguments:** vtSheetName, vtCubeName, vtbRuleOnForm are used. vtBRName, vtBRType, vtbBRHasPrompts, vtbNeedPageInfo, ppRTPNames, ppRTPValues are ignored.
    - **Behavior**: The **Business Rules** dialog box displays all possible rules depending upon the vtbRuleOnForm value. When the user, runs the selected business rule and exits the **Business Rules** dialog box, the details of that business rule are filled in the out arguments and returned to the caller.
    - **Output arguments**: All out arguments are filled and returned to the caller so that they can be used in subsequent calls.
- When vtbShowBRDlg argument is **False** (mode 2):
    - **Input arguments**: All input arguments are used.
    - **Behavior:** The **Business Rules** dialog box is not displayed. The business rule is run automatically, and the appropriate status is returned to the caller.
    - **Output arguments**: All output arguments are left unmodified, because nothing needs to be passed on to the caller, who already has all the information to run this particular business rule.

If you *do* call HypListCalcScriptsEx before HypExecuteCalcScriptEx, then when HypListCalcScriptsEx is called, users get information about all business rules and runtime prompts, if any.

If a user runs a business rule that has no RTP, HypExecuteCalcScriptEx can be called with vtbShowBRDlg argument as False and provides all other information as the input arguments.

If a user runs a business rule that has an RTP, HypExecuteCalcScriptEx must be called with vtbShowBRDlg as True so that the business rule and its RTPs can be displayed and the user can select the RTP values to run the business rule. (InPlanning, the RTP flag may be True for a business rule when there are no RTPs to be displayed.)

- If the cube name, business rule name and business rule type are passed as empty in HypExecuteCalcScriptEx (mode 3), the **Business Rules** dialog box is displayed and all business rules are shown, depending upon vtbRuleOnForm argument. All else is the same as mode 1.
- If the cube name, business rule name and business rule type are passed with filled values in HypExecuteCalcScriptEx (mode 4), the **Business Rules** dialog box is displayed and only the passed business rule (business rule name for the provided cube name) is displayed along with its RTPs. All else is the same as mode 1.

HypDeleteCalc

Data provider types: Essbase

Description

HypDeleteCalc() deletes a calculation script from an Essbase server.

Syntax

HypDeleteCalc (vtSheetName, vtApplicationName, vtDatabaseName, vtCalcScript)

ByVal vtSheetName As Variant

ByVal vtApplicationName As Variant

ByVal vtDatabaseName As Variant

ByVal vtCalcScript As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtApplicationName: The name of the application name that contains the calculation script

vtDatabaseName: The name of the database that contains the calculation script

vtCalcScript: The name of the calculation script to be deleted

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypDeleteCalc Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtApplicationName As Variant, ByVal vtDatabaseName As Variant, ByVal vtCalcScript As
Variant) As Long
```

```
Sub Example_HypDeleteCalc
Dim X as Long
   X = HypDeleteCalc (Empty,"Sample","Basic","CalcYear")
End Sub
```

10 Calculation, Consolidation, and Translation Functions

In This Chapter

About Calculation, Consolidation, and Translation Functions

These functions execute calculation, consolidation, and translation operations on data for Financial Management and Hyperion Enterprise applications.

HypCalculate

Data provider types: Financial Management, Hyperion Enterprise

Description

HypCalculate() calls the Calculate method.

Syntax

HypCalculate (vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range that contains the data to be used. If `Empty` or `Null`, then the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypCalculate Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal vtRange
As Variant) As Long
Sub Example_HypCalculate()
sts = HypCalculate (Empty, Empty)
End Sub
```

HypCalculateContribution

Data provider types: Financial Management (ad hoc only)

Description

HypCalculateContribution() calls the Calculate Contribution.

Syntax

HypCalculateContribution (vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range that contains the data to be used. If `Empty` or `Null`, then the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypCalculateContribution Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtRange As Variant) As Long
Sub Example_HypCalculateContribution()
sts = HypCalculateContribution (Empty, Empty)
End Sub
```

HypConsolidate

Data provider types: Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypConsolidate calls the Consolidate method.

Syntax

HypConsolidate (vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range object that refers to the data to be used. If `Empty` or `Null`, the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypConsolidate Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtRange As Variant) As Long
Sub Example_HypConsolidate()
sts = HypConsolidate (Empty, Empty)
End Sub
```

HypConsolidateAll

Data provider types: Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypConsolidateAll() calls the Consolidate All method.

Syntax

HypConsolidateAll (vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range that contains the data to be used. If `Empty` or `Null`, the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypConsolidateAll Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtRange As Variant) As Long
Sub Example_HypConsolidateAll
sts = HypConsolidateAll(Empty, Empty)
End Sub
```

HypConsolidateAllWithData

Data provider types: Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypConsolidateAllWithData calls the Consolidate All With Data method.

Syntax

HypConsolidateAllWithData (vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range that contains the data to be used. If `Empty` or `Null`, the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypConsolidateAllWithData Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtRange As Variant) As Long
Sub Example_HypConsolidateAllWithData()
sts = HypConsolidateAllWithData (Empty, Empty)
End Sub
```

HypForceCalculate

Data provider types: Financial Management

Description

HypForceCalculate() calls the Force Calculate method.

Syntax

HypForceCalculate(vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range that contains the data to be used. If `Empty` or `Null`, the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypForceCalculate Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtRange As Variant) As Long
Sub Example_HypForceCalculate()
sts = HypForceCalculate (Empty, Empty)
End Sub
```

HypForceCalculateContribution

Data provider types: Financial Management (ad hoc only)

Description

HypForceCalculateContribution calls the Force Calculate Contribution method.

Syntax

HypForceCalculateContribution (vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range that contains the data to be used. If `Empty` or `Null`, the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypForceCalculateContribution Lib "HsAddin" (ByVal vtSheetName As
Variant, ByVal vtRange As Variant) As Long
Sub Example_HypForceCalculateContribution()
sts = HypForceCalculateContribution (Empty, Empty)
End Sub
```

HypForceTranslate

Data provider types: Financial Management (ad hoc only)

Description

HypForceTranslate calls the Force Translate method.

Syntax

HypForceTranslate (vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range that contains the data to be used. If `Empty` or `Null`, the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypForceTranslate Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtRange As Variant) As Long
Sub Example_HypForceTranslate()
sts = HypForceTranslate (Empty, Empty)
End Sub
```

HypTranslate

Data provider types: Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypTranslate() calls the Translate method.

Syntax

HypTranslate (vtSheetName, vtRange)

ByVal vtSheetName As Variant

By Val vtRange As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtRange: The range that contains the data to be used. If `Empty` or `Null`, the selected range in the worksheet is used.

Return Value

Returns 0 if successful; otherwise, returns the corresponding error code.

Example

```
Declare Function HypTranslate Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal vtRange
As Variant) As Long
Sub Example_HypTranslate()
sts = HypTranslate (Empty, Empty)
End Sub
```

11 Member Query Functions

In This Chapter

About Member Query Functions

Member query functions retrieve generation, level, attribute, and other information about members.

HypFindMember

Data provider types: Essbase

Description

HypFindMember() retrieves dimension, alias, generation and level information for the specified member.

Syntax

HypFindMember (vtSheetName, vtMemberName, vtAliasTable, vtDimensionName, vtAliasName, vtGenerationName, vtLevelName)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByVal vtAliasTable As Variant

ByRef vtDimensionName As Variant

ByRef vtAliasName As Variant

ByRef vtGenerationName As Variant

ByRef vtLevelName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: Input parameter; the member for which to retrieve information. Required; there is no default value.

vtAliasTable: Input parameter; the name of the alias table to search for the alias name. If Null, the default alias table is used.

vtDimensionName: Output parameter; the dimension of the member

vtAliasName: Output parameter; the alias name of the member

vtGenerationName: Output parameter; the generation of the member

vtLevelName: Output parameter; the level of the member

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypFindMember Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByVal vtAliasTable As Variant, ByRef vtDimensionName As Variant,
ByRef vtAliasName As Variant, ByRef vtGenerationName As Variant, ByRef vtLevelName As
Variant) As Long

Sub Example_HypFindMember()
   X = HypFindMember(Empty, "100", "Default", dimName, aliasName, genName, levelName)
   MsgBox (dimName)
   MsgBox (aliasName)
   MsgBox (genName)
   MsgBox (levelName)
End Sub
```

HypFindMemberEx

Data provider types: Essbase

Description

HypFindMemberEx() retrieves dimension, alias, generation and level information for the specified member.

Syntax

HypFindMember (vtSheetName, vtMemberName, vtAliasTable, vtDimensionName, vtAliasName, vtGenerationName, vtLevelName)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByVal vtAliasTable As Variant

ByRef vtDimensionName As Variant

ByRef vtAliasName As Variant

ByRef vtGenerationName As Variant

ByRef vtLevelName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtAliasTable: The name of the alias table to search for the alias name. If Null, the default alias table is searched.

vtDimensionName: Output parameter; the dimension of the member

vtAliasName: Output parameter; the alias name of the member

vtGenerationName: Output parameter; the generation of the member

vtLevelName: Output parameter; the level of the member

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypFindMemberEx Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByVal vtAliasTable As Variant, ByRef vtDimensionName As Variant,
ByRef vtAliasName As Variant, ByRef vtGenerationName As Variant, ByRef vtLevelName As
Variant) As Long
```

```
Sub Example_HypFindMemberEx()
 X = HypFindMemberEx(Empty, "100", "Default", dimName, aliasName, genName, levelName)
   MsgBox (dimName)
   MsgBox (aliasName)
   MsgBox (genName)
   MsgBox (levelName)
End Sub
```

HypGetAncestor

Data provider types: Essbase

Description

HypGetAncestor() returns the ancestor at any specific generation or level for the specified member.

Syntax

HypGetAncestor (vtSheetName, vtMemberName, vtLayerType, intLayerNum, vtAncestor)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByVal vtLayerType As Variant

ByVal intLayerNum As Integer

ByRef vtAncestor As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtLayerType: Input parameter: Gen or Level. If set to Null or Empty, Gen is the default.

intLayerNum: Input parameter: the level or generation number. Required.

vtAncestor: Output parameter; the name of the ancestor

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetAncestor Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByVal vtLayerType As Variant, ByVal intLayerNumber As Integer,
ByRef vtAncestor As Variant) As Long

Sub Example_HypGetAncestor
```

```
   Dim X as Long
   Dim vtAncestor As Variant
   X = HypGetAncestor (Empty, "100-20", "Level", 1, vtAncestor)
End Sub
```

HypGetChildren

Data provider types: Essbase

Description

HypGetChildren() returns the children for the specified member.

Syntax

HypGetChildren (vtSheetName, vtMemberName, intChildCount, vtChildArray)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByVal intChildCount As Integer

ByRef vtChildArray As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: Input parameter; the member name. Required.

intChildCount: Input parameter; a restriction on the number of children returned.

- ChildCount <=0. All children are returned.
- ChildCount >0. The result set is limited to the number specified as the argument. If the result set is less than the specified argument, all results are returned.

vtChildArray: Output result vector that contains the list of the children. Its contents are unknown if the macro fails.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetChildren Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByVal intChildCount As Integer, ByRef vtChildArray As Variant) As
Long

Sub Example_HypGetChildren
   Dim vtChildren As Variant
   Dim vtChild As Variant
   Dim X as Long
```

```
      X = HypGetChildren (Empty, "Market", 0, vtChildren)
      If IsArray (vtChildren) Then
         For i = LBound (vtChildren) To UBound (vtChildren)
         VtChild = vtChildren (i)
      Next
   End If
End Sub
```

HypGetParent

Data provider types: Essbase

Description

HypGetParent() returns the name of the parent of the specified member.

Syntax

HypGetParent(vtSheetName, vtMemberName, vtParentName)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByRef vtParentName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: Input parameter; the member name. Required.

vtParentName: Output parameter; the parent name

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetParent Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByRef vtParentName As Variant) As Long

Sub Example_HypGetParent
   Dim vtParent As Variant
   X = HypGetParent (Empty, "East", vtParent)
End sub
```

HypIsAttribute

Data provider types: Essbase

Description

HypIsAttribute() checks to see if the specified member has a specific attribute.

Syntax

HypIsAttribute(vtSheetName, vtDimensionName, vtMemberName, vtUDAString)

ByVal vtSheetName As Variant

ByVal vtDimensionName As Variant

ByVal vtMemberName As Variant

ByVal vtUDAString As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimensionName: The name of the dimension to which the member belongs

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtUDAString: Input string that is compared against the attributes of the member.

Return Value

Returns a variant in which -1 is true, 0 is false; otherwise, returns the appropriate error code.

Example

```
Declare Function HypIsAttribute Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtDimensionName As Variant, ByVal vtMemberName As Variant, ByVal vtUDAString As Variant)
As Variant

Sub Example_HypIsAttribute()
vtret = HypIsAttribute(Empty, "Market", "Connecticut", "MyAttribute")
    If vtret = -1 Then
      MsgBox ("Found MyAttribute")
    ElseIf vtret = 0 Then
      MsgBox ("MyAttribute not available for Connecticut")
    Else
      MsgBox ("Error value returned is" & vtret)
    End If
End Sub
```

HypIsDescendant

Data provider types: Essbase

Description

HypIsDescendant() checks if the specified member is the descendant of another specified member.

Syntax

HypIsDescendant(vtSheetName, vtMemberName, vtAncestorName)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByVal vtAncestorName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtAncestorName: The name of the ancestor. Required.

Return Value

Returns a variant in which -1 is true, 0 is false; otherwise, returns the appropriate error code.

Example

```
Declare Function HypIsDescendant Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByVal vtDescendantName As Variant) As Boolean

Sub Example_HypIsDescendant
   Dim b as Boolean
   b = HypIsDescendant (Empty, "Year", "Jan")
End sub
```

HypIsAncestor

Data provider types: Essbase

Description

HypIsAncestor() checks whether the specified member is the ancestor of another specified member.

Syntax

HypIsAncestor(vtSheetName, vtMemberName, vtAncestorName)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByVal vtAncestorName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtAncestorName: The name of the ancestor. Required.

Return Value

Returns a variant in which -1 is true, 0 is false; otherwise, returns the appropriate error code.

Example

```
Declare Function HypIsAncestor Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByVal vtAncestorName As Variant) As Variant

Sub Example_HypIsAncestor
   Dim b As Variant
   b = HypIsAncestor (Empty, "Year", "Jan")
End sub
```

HypIsExpense

Data provider types: Essbase

Description

HypIsExpense() verifies that the member specified has an Expense tag.

Syntax

HypIsExpense(vtSheetName, vtDimensionName, vtMemberName)

ByVal vtSheetName As Variant

ByVal vtDimensionName As Variant

ByVal vtMemberName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimensionName: The dimension of the member. If set to Null or Empty, the active dimension is used.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

Return Value

Returns a variant in which -1 is true, 0 is false; otherwise, returns the appropriate error code.

Example

```
Declare Function HypIsExpense Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtDimensionName As Variant, ByVal vtMemberName As Variant) As Variant

Sub CheckExpense()
vtret = HypIsExpense(Empty, "Measures", "Opening Inventory")
    If vtret = -1 Then
     MsgBox ("Opening Inventory has expense flag set")
    ElseIf vtret = 0 Then
     MsgBox ("Expense flag has not been set")
    Else
     MsgBox ("Error value returned is" & vtret)
    End If
End Sub
```

HypIsParent

Data provider types: Essbase

Description

HypIsParent() checks whether the specified member is the parent of another specified member.

Syntax

HypIsParent(vtSheetName, vtMemberName, vtParentName)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByVal vtParentName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtParentName: The name of the parent. Required.

Return Value

Returns a variant in which -1 is true, 0 is false; otherwise, returns the appropriate error code.

Example

```
Declare Function HypIsParent Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByVal ParentName As Variant) As Boolean
```

```
Sub Example_HypIsParent
   Dim b as Boolean
   b = HypIsParent (Empty, "East", "Market")
End Sub
```

HypIsChild

Data provider types: Essbase

Description

HypIsChild() determines whether a member is the child of a specified parent member. HypIsChild checks only for children, not for all descendants.

Syntax

HypIsChild(vtSheetName, vtParentName, vtChildName)

ByVal vtSheetName As Variant

ByVal vtParentName As Variant

ByVal vtChildName As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtParentName: The name of the parent. Required

vtChildName: The name of the child. Required

Return Value

Returns a variant in which -1 is true, 0 is false; otherwise, returns the appropriate error code.

Example

```
Declare Function HypIsChild Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtParentName As Variant, ByVal vtChildName As Variant) As Variant

Sub Example_HypIsChild
   Dim b as Boolean
   b = HypIsChild ("Sheet1", "Year", "Qtr1")
End Sub
```

HypIsUDA

Data provider types: Essbase

Description

HypIsUDA() determines whether a member has a specific UDA.

Syntax

HypIsUDA (vtSheetName, vtDimensionName, vtMemberName, vtUDAString)

ByVal vtSheetName As Variant

ByVal vtDimensionName As Variant

ByVal vtMemberName As Variant

ByVal vtUDAString As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimensionName: The dimension of the member

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtUDAString: Input string that is compared against the attributes of the member.

Return Value

Returns a variant in which -1 is true, 0 is false; otherwise, returns the appropriate error code.

Example

```
Declare Function HypIsUDA Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtDimensionName As Variant, ByVal vtMemberName As Variant, ByVal vtUDAString As Variant)
As Variant

Sub Example_HypIsUDA()
vtret = HypIsUDA(Empty, "Market", "Connecticut", "MyUDA")
    If vtret = -1 Then
      MsgBox ("Found MyUDA")
    ElseIf vtret = 0 Then
      MsgBox ("Did not find MyUDA")
    Else
      MsgBox ("Error value returned is" & vtret)
    End If
End Sub
```

HypOtlGetMemberInfo

Data provider types: Essbase

Description

HypOtlGetMemberInfo() returns the comments, formulas, UDAs, and attributes associated with the selected member selection.

Syntax

HypOtlGetMemberInfo (vtSheetName, vtDimensionName, vtMemberName, vtPredicate, vtMemberArray)

ByVal vtSheetName As Variant

ByVal vtDimensionName As Variant

ByVal vtMemberName As Variant

ByVal vtPredicate As Variant

ByRef vtMemberArray As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtDimensionName: The dimension of the member. If set to Null, the predicate in the whole outline is searched.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtPredicate: Member selection criteria:

- 1 = HYP_COMMENT
- 2 = HYP_FORMULA
- 3 = HYP_UDA
- 4 = HYP_ATTRIBUTE

vtMemberArray: Output parameter; the result of the query.

Return Value

Returns 0 if successful; otherwise returns the appropriate error code.

Example

```
Declare Function HypOtlGetMemberInfo Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtDimensionName As Variant, ByVal vtMemberName As Variant,  ByVal vtPredicate As Variant,
ByRef vtMemberArray As Variant) As Long
Sub Example_HypOtlGetMemberInfo()
    vtRet = HypOtlGetMemberInfo(Empty, "Year", "Jan", HYP_COMMENT, vt)
If IsArray(vt) Then cbItems = UBound(vt) + 1
    MsgBox ("Number of elements = " + Str(cbItems))
For i = 0 To UBound(vt)
    MsgBox ("Member = " + vt(i))
Next
```

```
MsgBox ("Return Value = " + vtRet)
End Sub
```

HypQueryMembers

Data provider types: Essbase

Description

HypQueryMembers() executes the member selection query.

Syntax

HypQueryMembers (vtSheetName, vtMemberName, vtPredicate, vtOption, vtDimensionName, vtInput1, vtInput2, vtMemberArray)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByVal vtPredicate As Variant

ByVal vtOption As Variant

ByVal vtDimensionName As Variant

ByVal vtInput1 As Variant

ByVal vtInput2 As Variant

ByRef vtMemberArray As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtPredicate: Member selection criteria (integer) :

- 1 = HYP_CHILDREN
- 2 = HYP_DESCENDANTS
- 3 = HYP_BOTTOMLEVEL
- 4 = HYP_SIBLINGS
- 5 = HYP_SAMELEVEL
- 6 = HYP_SAMEGENERATION
- 7 = HYP_PARENT
- 8 = HYP_DIMENSION
- 9 = HYP_NAMEDGENERATION

- 10 HYP_NAMEDLEVEL
- 11 HYP_SEARCH
- 12 HYP_WILDSEARCH
- 13 HYP_USERATTRIBUTE
- 14 HYP_ANCESTORS
- 15 HYP_DTSMEMBER
- 16 HYP_DIMUSERATTRIBUTES

vtOption: (integer) Options are dependent on the predicate. For the predicate values, HYP_SEARCH and HYP_WILDSEARCH, specify query options:

- HYP_MEMBERSONLY
- HYP_ALIASESONLY
- HYP_MEMBERSANDALIASES

vtDimensionName: (string) Dimension to limit the scope of the query. It is used with the following query options and ignored otherwise: HYP_NAMEDGENERATION, HYP_NAMEDLEVEL, HYP_USERATTRIBUTE, HYP_SEARCH (set to Null to search through all dimensions), HYP_WILDSEARCH (set to Null to search through all dimensions).

vtInput1: (string) Input string that is determined by the option. It is used with the following query options and ignored otherwise:

- HYP_NAMEDGENERATION (The name of the generation)
- HYP_NAMEDLEVEL (The name of the level)
- HYP_SEARCH (The string to search for. The string is defined as an exact)
- HYP_WILDSEARCH (The string to search for. The string is defined as an exact search string with an optional '*' at the end to mean any set of characters)
- HYP_USERATTRIBUTE (The user-defined attribute)

vtInput2: (string) Input string that is determined by the option. It is used with the following query options and ignored otherwise:

- HYP_USERATTRIBUTE (The user-defined attribute)
- HYP_SEARCH, HYP_WILDSEARCH (If the options are set to search in the alias tables, this string specifies which alias table to search. If the string is Null, all alias tables will be searched).

vtMemberArray: Output that contains the result of the query. If unsuccessful, its contents are unknown.

Return Value

Returns a zero if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypQueryMembers Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtMemberName As Variant, ByVal vtPredicate As Variant, ByVal vtOption As Variant, ByVal
vtDimensionName As Variant, ByVal vtInput1 As Variant, ByVal vtInput2 As Variant, ByRef
vtMemberArray As Variant) As Long

Sub Example_HypQueryMembers()
' sts = HypQueryMembers(Empty, "Profit", HYP_CHILDREN, Empty, Empty, Empty, Empty,
vArray)
' sts = HypQueryMembers(Empty, "Profit", HYP_DESCENDANTS, Empty, Empty, Empty, Empty,
vArray)
' sts = HypQueryMembers(Empty, "Profit", HYP_BOTTOMLEVEL, Empty, Empty, Empty, Empty,
vArray)
' sts = HypQueryMembers(Empty, "Sales", HYP_SIBLINGS, Empty, Empty, Empty, Empty, vArray)
' sts = HypQueryMembers(Empty, "Sales", HYP_SAMELEVEL, Empty, Empty, Empty, Empty,
vArray)
' sts = HypQueryMembers(Empty, "Sales", HYP_SAMEGENERATION, Empty, Empty, Empty, Empty,
vArray)
' sts = HypQueryMembers(Empty, "Sales", HYP_PARENT, Empty, Empty, Empty, Empty, vArray)
' sts = HypQueryMembers(Empty, "Sales", HYP_DIMENSION, Empty, Empty, Empty, Empty,
vArray)
' sts = HypQueryMembers(Empty, "Year", HYP_NAMEDGENERATION, Empty, "Year", "Quarter",
Empty, vArray)
' sts = HypQueryMembers(Empty, "Product", HYP_NAMEDLEVEL, Empty, "Product", "SKU", Empty,
vArray)
' sts = HypQueryMembers(Empty, "Product", HYP_SEARCH, HYP_ALIASESONLY, "Product", "Cola",
Empty, vArray)
' sts = HypQueryMembers(Empty, "Year", HYP_WILDSEARCH, HYP_MEMBERSONLY, "Year", "J*",
Empty, vArray)
' sts = HypQueryMembers(Empty, "Market", HYP_USERATTRIBUTE, Empty, "Market", "Major
Market", Empty, vArray)
' sts = HypQueryMembers(Empty, "Sales", HYP_ANCESTORS, Empty, Empty, Empty, Empty,
vArray)
' sts = HypQueryMembers(Empty, "Jan", HYP_DTSMEMBER, Empty, Empty, Empty, Empty, vArray)
' sts = HypQueryMembers(Empty, "Product", Empty, Empty, Empty, Empty, vArray)

If IsArray(vt) Then
  cbItems = UBound(vt) + 1
      MsgBox ("Number of elements = " + Str(cbItems))
   For i = 0 To UBound(vt)
      MsgBox ("Member = " + vt(i))
   Next
Else
   MsgBox ("Return Value = " + Str(vt))
End If
End Sub
```

HypGetMemberInformation

Data provider types: Essbase

Description

HypGetMemberInformation returns the properties of a selected member.

Syntax

HypGetMemberInformation (vtSheetName, vtMemberName, vtPropertyName, vtPropertyValue, vtPropertyValueStrings)

ByVal vtMemberName As Variant

ByVal vtPropertyName As Variant

ByVal vtPropertyValue As Variant

ByRef vtPropertyValueStrings As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: The member for which to retrieve information. Required; there is no default value.

vtPropertyName: Input parameter; the name of the property for which information is required. See Table 3.

vtPropertyValue: Output parameter; the property array for the member, returned as numerical value from the server.

vtPropertyValueStrings: Output parameter; the property array for the member, returned as string equivalent of numerical value for properties for which numerical values do not make sense.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetMemberInformation Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtMemberName As Variant, ByVal vtPropertyName As Variant, ByRef vtPropertyValue As
Variant, ByRef vtPropertyValueStrings As Variant) As Long
Sub Example_HypGetMemberInformation
sts = HypGetMemberInformation("Sheet1", "Jan", HYP_MI_NAME, vtValues,
vtPropertyValueString)
End Sub
```

Table 3 Constants for Member Information

Constants for Member Information
Global Const HYP_MI_NAME = "Name"
Global Const HYP_MI_DIM = "Dim"
Global Const HYP_MI_LEVEL = "Level"
Global Const HYP_MI_GENERATION = "Generation"
Global Const HYP_MI_PARENT_MEMBER_NAME = "ParentMbrName"

Constants for Member Information
Global Const HYP_MI_CHILD_MEMBER_NAME = "ChildMbrName"
Global Const HYP_MI_PREVIOUS_MEMBER_NAME = "PrevMbrName"
Global Const HYP_MI_NEXT_MEMBER_NAME = "NextMbrName"
Global Const HYP_MI_CONSOLIDATION = "Consolidation"
Global Const HYP_MI_IS_TWO_PASS_CAL_MEMBER = "IsTwoPassCalcMbr"
Global Const HYP_MI_IS_EXPENSE_MEMBER = "IsExpenseMbr"
Global Const HYP_MI_CURRENCY_CONVERSION_TYPE = "CurrencyConversionType"
Global Const HYP_MI_CURRENCY_CATEGORY = "CurrencyCategory"
Global Const HYP_MI_TIME_BALANCE_OPTION = "TimeBalanceOption"
Global Const HYP_MI_TIME_BALANCE_SKIP_OPTION = "TimeBalanceSkipOption"
Global Const HYP_MI_SHARE_OPTION = "ShareOption"
Global Const HYP_MI_STORAGE_CATEGORY = "StorageCategory"
Global Const HYP_MI_CHILD_COUNT = "ChildCount"
Global Const HYP_MI_ATTRIBUTED = "Attributed"
Global Const HYP_MI_RELATIONAL_DESCENDANT_PRESENT = "RelDescendantPresent"
Global Const HYP_MI_RELATIONAL_PARTITION_ENABLED = "RelPartitionEnabled"
Global Const HYP_MI_DEFAULT_ALIAS = "DefaultAlias"
Global Const HYP_MI_HIERARCHY_TYPE = "HierarchyType"
Global Const HYP_MI_DIM_SOLVE_ORDER = "DimSolveOrder"
Global Const HYP_MI_IS_DUPLICATE_NAME = "IsDuplicateName"
Global Const HYP_MI_UNIQUE_NAME = "UniqueName"
Global Const HYP_MI_ORIGINAL_MEMBER = "OrigMember"
Global Const HYP_MI_IS_FLOW_TYPE = "IsFlowType"
Global Const HYP_MI_AGGREGATE_LEVEL = "AggLevel"
Global Const HYP_MI_FORMAT_STRING = "FormatString"
Global Const HYP_MI_ATTRIBUTE_DIMENSIONS = "AttributeDims"
Global Const HYP_MI_ATTRIBUTE_MEMBERS = "AttributeMbrs"
Global Const HYP_MI_ATTRIBUTE_TYPES = "AttributeTypes"

Constants for Member Information
Global Const HYP_MI_ALIAS_NAMES = "AliasNames"
Global Const HYP_MI_ALIAS_TABLES = "AliasTables"
Global Const HYP_MI_FORMULA = "Formula"
Global Const HYP_MI_COMMENT = "Comment"
Global Const HYP_MI_LAST_FORMULA = "LastFormula"
Global Const HYP_MI_UDAS = "Udas"

HypGetMemberInformationEx

Data provider types: Essbase

Description

HypGetMemberInformationEx returns all information about a member in an array.

Syntax

HypGetMemberInformationEx (vtSheetName, vtMemberName, vtPropertyNames, vtPropertyValues, vtPropertyValueStrings)

ByVal vtSheetName As Variant

ByVal vtMemberName As Variant

ByRef vtPropertyNames As Variant

ByRef vtPropertyValues As Variant

vtPropertyValueStrings As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtMemberName: The member for which to retrieve information. This parameter is required because there is no default value.

vtPropertyNames: The property name array

vtPropertyValues: The property value array

vtPropertyValueStrings: The property string value array

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypGetMemberInformationEx Lib "HsAddin" (ByVal vtSheetName As
Variant,ByVal vtMemberName As Variant, ByRef vtPropertyNames As Variant, ByRef
vtPropertyValues As Variant, ByRef vtPropertyValueStrings As Variant) As Long

sub Example_HypGetMemberInformationEx()
 sts = HypGetMemberInformationEx(Empty, "100-10", propertynames, propertyvalues,
propertyvaluestrings)
End Sub
```

12 Options Functions

In This Chapter

About Options Functions

Options functions set and retrieve information for global and/or sheet options, and enable deletion of MRU items.

HypGetGlobalOption

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetGlobalOption() returns information about Smart View global options. Global options are options that apply to the entire current workbook and to any workbooks and worksheets that are created henceforth.

See also "HypGetOption" on page 165.

Syntax

HypGetGlobalOption(vtItem)

ByVal vtItem As Long

Parameters

vtItem: The number that indicates which option is to be retrieved

Table 4 lists the numbers of options and their return data types.

Table 4 HypGetGlobalOption Parameter Numbers and Options

vtItem	Option	Return Data Type
1	Use Excel formatting	Boolean
2	Use double-click for ad hoc operations	Boolean
3	Enable undo	Boolean
4	Not used	--
5	Specify message level setting: ● 0 = Information ● 1 = Warnings ● 2 = Errors ● 3 = None ● 4 = Extended info See Notes in "HypSetGlobalOption" on page 161 for information about this option and backward compatibility.	Integer
6	Use thousands separator	Boolean
7	Route messages to log file	Boolean
8	Clear log file on next launch	Boolean
9	Navigate without data	Boolean
10	Not used	--
11	Not used	--
12	Specify Meaningless label	Text
13	Reduce Excel file size	Boolean
14	Enable formatted strings	Boolean
15	Retain numeric formatting	Boolean
16	Enable enhanced comment handling	Boolean
17	Enable retain ribbon context	Boolean
18	Display Smart View Panel on startup	Boolean
19	Always show on refresh (in Comment Edit dialog box; available only if **Enhanced comment handling** is enabled and the grid contains comments)	Boolean
20	Enable profiling. Includes extended Info log entries and most function calls. Creates XML files for each Office application with active Smart View. Intended for debugging. Severely impacts performance. See Notes in "HypSetGlobalOption" on page 161 for information about backward compatibility.	Boolean

Return Value

Returns the appropriate return data type as shown in Table 4, "HypGetGlobalOption Parameter Numbers and Options"; otherwise, returns the appropriate error code.

Example

The following example sets the message level option and checks whether the value set is valid.

```
Declare Function HypGetGlobalOption Lib "HsAddin" (ByVal vtItem As Long) As Variant

Sub Example_HypGetGlobalOption()
   sts = HypGetGlobalOption(5)
   If sts = -15 then
      Msgbox ("Invalid Parameter")
   Else
      Msgbox ("Message level is set to" & sts)
    End If
End Sub
```

HypSetGlobalOption

Data provider types: Essbase, Financial Management, Planning, Hyperion Enterprise

Description

HypSetGlobalOption() sets global Smart View options. Global options are options that apply to the entire current workbook and to any workbooks and worksheets that are created henceforth.

Note: You can set only one option at a time.

See also "HypSetOption" on page 170.

Syntax

HypSetGlobalOption(vtItem, vtGlobalOption)

ByVal vtItem As Long

ByVal vtGlobalOption As Variant

Parameters

vtItem: The number that indicates which option is to be set. See Table 4, "HypGetGlobalOption Parameter Numbers and Options," on page 160 for values.

vtGlobalOption: A variant which can take a Boolean, Number, or Text value denoting the option being set for vtItem. If Null or Empty, no action is performed.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Notes

For backward compatibility, HypSetGlobalOption(5, 5) is supported for setting the profiling option only on sheets created *earlier* than Smart View 11.1.2.5.000. This VBA statement is not supported to set the profiling option on sheets created in Smart View 11.1.2.5.000 and *later*.

In Smart View 11.1.2.5.000 and later, using HypSetGlobalOption(5,5) to set the profiling option returns a value of -69, SS_VBA_DEPRECATED. Instead, use the following functions to get or set the profiling option:

- HypGetGlobalOption(20) and HypSetGlobalOption(20, True or False)
- HypGetOption(119, Var, "") and HypSetOption(119, True or False, "")

Example

The following example sets the option to display no messages.

```
Declare Function HypSetGlobalOption Lib "HsAddin" (ByVal vtItem As Long, ByVal
vtGlobalOption As Variant) As Long

Sub Example_HypSetGlobalOption()
   X=HypSetGlobalOption(5, 3)
If X=0 Then
   MsgBox("Message level is set to 3 - No messages")
Else
   MsgBox("Error. Message level not set.")
End If
End Sub
```

HypGetSheetOption

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypGetSheetOption() returns information about sheet level options.

Syntax

HypGetSheetOption(vtSheetName, vtItem)

ByVal vtSheetName As Variant

ByVal vtItem As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtItem: The number that indicates which option is to be retrieved. See Table 5 for a list of values.

Table 5 Options for vtItem

vtItem	Option	Data Type and Values
1	Set zoom in level: ● 0 = Next level ● 1 = All levels ● 2 = Bottom level ● 3 = Sibling level ● 4 = Same level ● 5 = Same generation ● 6 = Formulas	Number
2	Enable Include Selection setting	Boolean
3	Enable Within Selection Group setting	Boolean
4	Enable Remove Unselected Groups setting	Boolean
5	Specify Indent setting: ● 0 = No indentation ● 1 = Indent sub items ● 2 = Indent totals	Number
6	Enable suppress missing setting	Boolean
7	Enable suppress zeros setting	Boolean
8	Enable suppress underscores setting	Boolean
9	Enable No Access setting	Boolean
10	Enable Repeated Member setting	Boolean
11	Enable Invalid setting	Boolean
12	Ancestor Position: ● 0 = Top ● 1 = Bottom	Number
13	Specify Missing Text label	Text
14	Specify No Access label	Text
15	Cell Status: ● 0 = Data ● 1 = Calculation Status ● 2 = Process Management	Number

vtItem	Option	Data Type and Values
16	Member Name Display options: ● 0 = Name Only ● 1 = Name and Description ● 2 = Description only	Number

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetSheetOption Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtItem As Variant) As Variant

Sub Example_HypGetSheetOption()
sts = HypGetSheetOption("Sheet", 5)
If sts = -15 then
   Msgbox ("Invalid Parameter")
Else
   Msgbox ("Indentation is set to" & sts)
End If
End Sub
```

HypSetSheetOption

Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypSetSheetOption() sets sheet level options.

Note: You can set only one option at a time.

Syntax

HypSetSheetOption(vtSheetName, vtItem, vtOption)

ByVal vtSheetName As Variant

ByVal vtItem As Variant

ByVal vtOption As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtItem: The number that indicates which option is to be set. See Table 5 on page 163 for a list of values.

vtOption: The new value of the item.

Return Values

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetSheetOption Lib "HsAddin" (ByVal vtSheetName As Variant, ByVal
vtItem As Variant, ByVal vtOption As Variant) As Long

Sub Example_HypSetSheetOption()
X=HypSetSheetOption(Empty, 6, FALSE)
If X=0 Then
   MsgBox("#Missing values will appear. ")
Else
   MsgBox("Error. #Missing option not set.")
End If
End Sub
```

HypGetOption

Data provider types: Essbase, Financial Management, Planning, Hyperion Enterprise

Description

HypGetOption() retrieves Smart View options that are both default and sheet specific so you do not need separate VBA commands for the two types of options.

See also "HypGetGlobalOption" on page 159.

Syntax

HypGetOption (vtItem,vtRet,vtSheetName)

ByVal vtItem As Variant

ByRef vtRet As Variant

ByVal vtSheetName As Variant

Parameters

vtItem: The index or constant that refers to a specific option. See Table 6 on page 166 for descriptions of the options. Also, a list of available options is shown in `smartview.bas` under "Enumeration of options index to be used for HypGetOption/HypSetOption."

vtRet: The output variable

vtSheetName: The sheet name of a sheet level option. If a valid sheet name is not provided, then the default option is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypGetOption Lib "HsAddin" (ByVal vtItem As Variant, ByRef vtRet
As Variant, ByVal vtSheetName As Variant) As Long

Sub Example_HypGetOption()

sts = HypGetOption(HSV_ZOOMIN, Var, "Sheet2") 'get zoom in option for sheet2
sts = HypGetOption(1, Var, "") 'get default zoom in option

End Sub
```

Table 6 Option Constants for HypGetOption and HypSetOption

	Constant	Data Type	Comment
HSV_ZOOMIN	1	Number	Sets zoom in level: ● 0 = Next level ● 1 = All levels ● 2 = Bottom level ● 3 = Sibling level ● 4 = Same level ● 5 = Same generation ● 6 = Formulas
HSV_INCLUDE_SELECTION	2	Boolean	Selects the Include Selections check box
HSV_WITHIN_SELECTEDGROUP	3	Boolean	Selects the Within Selected Group check box
HSV_REMOVE_ UNSELECTEDGROUP	4	Boolean	Selects the Remove Unselected Groups check box
HSV_INDENTATION	5	Number	Selects an Indentation option ● 0 = No indentation ● 1 = Indent sub items ● 2 = Indent totals
HSV_SUPPRESSROWS_ MISSING	6	Boolean	Suppresses rows that contain no data or are missing data
HSV_SUPPRESSROWS_ZEROS	7	Boolean	Suppresses rows that contain only zeroes
HSV_SUPPRESSROWS_ UNDERSCORE	8	Boolean	Suppresses rows that contain underscore characters in member names
HSV_SUPPRESSROWS_ NOACCESS	9	Boolean	Suppress rows that contain data that the user does not have the security access to view
HSV_SUPPRESSROWS_ REPEATEDMEMBERS	10	Boolean	Suppresses rows that contain repeated member names, regardless of grid orientation.
HSV_SUPPRESSROWS_INVALID	11	Boolean	Suppresses rows that contain only invalid values

	Constant	Data Type	Comment
HSV_ANCESTOR_POSITION	12	Number	Specifies an ancestor position in hierarchies: ● 0 = Top ● 1 = Bottom
HSV_MISSING_LABEL	13	Text	Displays #Missing, #Numeric Zero, or the text of your choice in data cells that contain missing data.
HSV_NOACCESS_LABEL	14	Text	Displays #NoAccess, #Numeric Zero, or the text of your choice in data cells that the user does not have permission to view.
HSV_CELL_STATUS	15	Number	As an alternative to displaying actual data, displays the calculation or process status of the cells: ● 0 = Data ● 1 = Calculation Status ● 2 = Process Management
HSV_MEMBER_DISPLAY	16	Number	Specifies how to display member names in cells: ● 0 = Name Only ● 1 = Name and Description ● 2 = Description only
HSV_INVALID_LABEL	17	Text	Displays #Invalid, #Numeric Zero, or the text of your choice in data cells that contain invalid data.
HSV_SUBMITZERO	18	Boolean	If you specified #NumericZero for the HSV_MISSING_LABEL, HSV_NOACCESS_LABEL, or SV_INVALID_LABEL options, allows you to submit zeroes to the database.
HSV_19	19		Reserved for future use
HSV_20	20		Reserved for future use
HSV_PRESERVE_FORMULA_COMMENT	21	Boolean	Preserves formulas and comments on the grid during queries.
HSV_22	22		Reserved for future use
HSV_FORMULA_FILL	23	Boolean	Propagates formulas associated with member cells to the members retrieved as a result of zooming in. If HSV_PRESERVE_FORMULA_COMMENT and HSV_EXCEL_FORMATTING are both enabled, propagates cell formatting to the members retrieved as a result of zooming in. Applies to formulas in both member and data cells.
HSV_EXCEL_FORMATTING	30	Boolean	Selects the Excel formatting check box
HSV_RETAIN_NUMERIC_FORMATTING	31	Boolean	When the user drills down in dimensions, uses the scale specified in HSV_SCALE and/or number of decimal places from HSV_DECIMALPLACES for data.
HSV_THOUSAND_SEPARATOR	32	Boolean	Uses a comma or other thousands separator in numerical data. Do not use # or $ as the thousands separator in Excel International Options.

	Constant	Data Type	Comment
HSV_NAVIGATE_WITHOUTDATA	33	Boolean	Enables the speeding up of operations such as Pivot, Zoom, Keep Only, and Remove Only by preventing the calculation of source data while you are navigating. When you are ready to retrieve data, disable Navigate without Data.
HSV_ENABLE_FORMATSTRING	34	Boolean	Essbase-specific. Essbase provides a format string to be associated with different data types. Once enabled, shows user specific text instead of numbers.
HSV_ENHANCED_COMMENT_ HANDLING	35	Boolean	Enables review and correction of comments and member names in ad hoc grids that contain comments.
HSV_ADJUSTCOLUMNWIDTH	36	Boolean	Adjusts column widths to fit cell contents automatically.
HSV_DECIMALPLACES	37	Number	Specifies the number of decimal places to display.
HSV_SCALE	38	Number	Specifies the scaling of numeric data, which is displayed based on the scale selected.
HSV_MOVEFORMATS_ON_ ADHOC	39	Boolean	Copies parent cell formatting to zoomed in cells and retains this formatting even if the cell location changes after an operation.
HSV_DISPLAY_INVALIDDATA	40	Boolean	Displays invalid data.
HSV_SUPPRESSCOLUMNS_ MISSING	41	Boolean	Suppresses columns that contain cells for which no data exists in the database (no data is not the same as zero. Zero is a data value.)
HSV_SUPPRESSCOLUMNS_ ZEROS	42	Boolean	Suppresses columns that contain only zeroes.
HSV_SUPPRESSCOLUMNS_ NOACCESS	43	Boolean	Suppresses columns that contain data that the user does not have the security access to view.
HSV_SUPPRESS_ MISSINGBLOCKS	44	Boolean	Suppresses blocks of cells for which no data exists in the database.
HSV_DOUBLECLICK_FOR_ ADHOC	101	Boolean	Specifies that double-clicking retrieves the default grid in a blank worksheet and thereafter zooms in or out on the cell contents.
HSV_UNDO_ENABLE	102	Boolean	Enables and disables Undo. Specify the number undo operations allowed with the HSV_NUMBER_OF_ UNDO_ACTION parameter.
HSV_103	103		Reserved for future use.
HSV_LOGMESSAGE_DISPLAY	104	Number	Specifies message display level setting: ● 0 = Information ● 1 = Warnings ● 2 = Errors ● 3 = None ● 4 = Extended info

	Constant	Data Type	Comment
HSV_ROUTE_LOGMESSAGE_TO_FILE	105	Boolean	Enables and disables the Route Messages to File check box.
HSV_CLEAR_LOG_ON_NEXTLAUNCH	106	Boolean	Clears the log file starting with the next log message generation, which will be seen after Excel is closed.
HSV_REDUCE_EXCEL_FILESIZE	107	Boolean	Should always be enabled except in the following cases, when it should not be used: ● You send an Excel workbook to users on Smart View releases earlier than 9.3.1.6 or to users on Microsoft Office regardless of Smart View release. In these workbooks: ❍ Grids that contain functions must be refreshed before data can be displayed. ❍ In ad hoc mode, POV settings are lost; the behavior is similar to that of a fresh ad hoc grid. ● You open a workbook sent from users on Smart View release earlier than 9.3.1.6 or on Microsoft Office regardless of Smart View release
HSV_ENABLE_RIBBON_CONTEXT	108	Boolean	Displays the active data provider ribbon automatically after you use a button on the Smart View ribbon.
HSV_DISPLAY_HOMEPANEL_ONSTARTUP	109	Boolean	Enables and disables the Display on Startup check box on the Smart View Home panel. When enabled, shows the Smart View Home Panel when the Panel icon is selected in the Smart View ribbon. When disabled, the last opened panel is shown.
HSV_SHOW_COMMENTDIALOG_ON_REFRESH	110	Boolean	When enabled, if the grid has comments, the comment editor is displayed to users upon refresh. When disabled, users can launch the comment editor from the Smart View ribbon.
HSV_NUMBER_OF_UNDO_ACTION	111	Number	The number of Undo and Redo actions permitted on an operation (0 through 100). Works in conjunction with the HSV_UNDO_ENABLE parameter.
HSV_NUMBER_OF_MRU_ITEMS	112	Number	The number, 15 or fewer, of your most recently used connections to be displayed on Smart View Home and the Open menu on the Smart View ribbon.
HSV_ROUTE_LOGMESSAGE_FILE_LOCATION	113	Text	Saves log messages in a file.
HSV_DISABLE_SMARTVIEW_IN_OUTLOOK	114	Boolean	Disables Smart View in Outlook if you do not want to use Smart View task lists in Outlook.
HSV_DISPLAY_SMARTVIEW_SHORTCUT_MENU_ONLY	115	Boolean	Displays only Smart View menu items on shortcut menus. Otherwise, shortcut menus display both Excel and Smart View items.
HSV_DISPLAY_DRILL_THROUGH_REPORT_TOOLTIP	116	Boolean	Displays by default lists of available drill-through reports for cells whenever you mouse over them.

	Constant	Data Type	Comment
HSV_SHOW_ PROGRESSINFORMATION	117	Boolean	Specifies that the Smart View Progress status bar will appear when an operation begins after the number of seconds defined in HSV_ PROGRESSINFO_TIMEDELAY.
HSV_PROGRESSINFO_ TIMEDELAY	118	Number	The time, in seconds, after which the Smart View Progress status bar appears when an operation begins.
HSV_ENABLE_PROFILING	119	Boolean	Creates extended Info log entries and most function calls. Creates XML files for each Office application with active Smart View. Intended for debugging. Severely impacts performance.

HypSetOption

Data provider types: Essbase, Financial Management, Planning, Hyperion Enterprise

Description

HypSetOption() enables you to set Smart View options as both default and sheet specific so you do not need separate VBA commands for the two types of options.

See also "HypSetGlobalOption" on page 161.

Syntax

HypSetOption (vtItem,vtOption,vtSheetName)

ByVal vtItem As Variant

ByVal vtOption As Variant

ByVal vtSheetName As Variant

Parameters

vtItem: The index or constant that refers to a specific option. See Table 6 on page 166 for descriptions of the options. Also, a list of available options is shown in `smartview.bas` under "Enumeration of options index to be used for HypGetOption/HypSetOption."

vtOption: The input value to set for an option.

vtSheetName: The sheet name to set a sheet level option. If a valid sheet name is not provided, then the default option is used.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypSetOption Lib "HsAddin" ( ByVal vtItem As Variant,ByVal
vtOption As Variant, ByVal vtSheetName As Variant) As Long

Sub Example_HypSetOption()
```

```
sts = HypSetOption(HSV_ZOOMIN, 2, "Sheet2") 'set zoom in option for sheet2
sts = HypSetOption(HSV_ZOOMIN, 1, "") 'set default zoom in

sts = HypSetOption(HSV_INVALID_LABEL, "#InvalidTest", "Sheet2")  'set invalid label for
sheet2
sts = HypSetOption(17, "#globalinvalid", "") 'set default invalid label, numbers can be
used instead of declared constants
End Sub
```

HypDeleteAllMRUItems

Data provider types: All

Description

HypDeleteAllMRUItems () deletes all items in the most recently used list, including those that are pinned to the list.

Syntax

HypDeleteAllMRUItems Lib "HsAddin" () As Long

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Public Declare Function HypDeleteAllMRUItems Lib "HsAddin" () As Long

Sub Example_HypDeleteAllMRUItems ()
   sts = HypDeleteAllMRUItems()
End Sub
```

13 Dynamic Link Functions

In This Chapter

About Dynamic Link Views

You can use static or dynamic link views to display details about a data point in an adjacent window without disturbing the contents in the main window. Static link views are predefined and are built into Smart View. With dynamic link views, you can use the VBA functions in this section to change row, column, POV, and connection information.

When the dynamic link query has been initialized, all the subsequent setinfo, getinfo, displaytolinkview calls are performed on that saved dynamic link query. If you change the grid on the worksheet and want to perform the dynamic link action on the new grid, you must again initialize the query using the setinfo calls available.

Setting Up Dynamic Link Views

Use dynamic link views to customize link behavior. With a dynamic link view, you can change the connection, row, column, POV, and column information.

➤ To set up a dynamic link view:

1. Set the HypUseLinkMacro flag to True. (When HypUseLinkMacro is set to False, the predefined link query is performed.)
2. Set the macro name to run.

   The macro name you set should contain all the function calls to initialize the grid and to set the connection, row, POV, and column items as needed.
3. Connect the sheet and retrieve the appropriate grid onto the sheet.
4. Select a data point on the sheet.
5. From the Essbase ribbon, select **Visualize**, then **Visualize in Excel**.

   The macro set in step 2 is executed, and the link action is performed.

Automating Macro Execution

You can automate execution of a macro through the Smart View menu.

➤ To set up a macro to execute manually through the Smart View menu:

1. Set the HypUseLinkMacro flag to false.
2. Connect the sheet and retrieve a grid.
3. Select a data point on the sheet.
4. Run the macro that contains all the function calls to initialize the grid and set the connection, row, column, and POV items.

HypUseLinkMacro

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypUseLinkMacro() specifies the type of link view: static or dynamic.

Note: Static and dynamic link views share the same menu option; therefore, you must turn the flag on before performing the dynamic link query. When you are finished with dynamic link views, turn the flag off.

Syntax

HypUseLinkMacro (bUse)

ByVal bUse as Boolean

Parameters

bUse: Set to True to perform dynamic link. Set to False to perform static link.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypUseLinkMacro Lib "HsAddin" (ByVal bUse As Boolean) As Long

Sub Example_HypUseLinkMacro()
   Sts = HypUseLinkMacro(True)
End sub
```

HypSetLinkMacro

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypSetLinkMacro() sets the macro name to be run to perform the dynamic link query action.

Note: When the link action is triggered from the **Visualize in Excel** menu item, the macro set by this function will be run.

Syntax

HypSetLinkMacro (vtMacroName)

ByVal vtMacroName As Variant

Parameters

vtMacroName: The name of the macro to be run

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetLinkMacro Lib "HsAddin" (ByVal vtMacroName As Variant) As Long

Sub Example_HypSetLinkMacro()
```

```
  Sts = HypUseLinkMacro(True)
  Sts = HypSetLinkMacro("Sheet1.Macro8")
End Sub
```

HypGetLinkMacro

Data provider types: Essbase, Planning (ad hoc only)Financial Management, (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetLinkMacro() returns the macro name currently set to be run to perform the dynamic link query.

Syntax

HypGetLinkMacro (vtMacroName)

ByRef vtMacroName As Variant

Parameters

vtMacroName: Output parameter, returns the currently set macro name

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetLinkMacro Lib "HsAddin" (ByRef vtMacroName As Variant) As Long

Sub Example_HypGetLinkMacro()
   Dim Macroname As Variant
   Sts = HypUseLinkMacro(True)
   Sts = HypSetLinkMacro("Sheet1.Macro8")
   Sts = HypGetLinkMacro(Macroname)
   If (StrComp(MacroName, "Sheet1.Macro8")) Then
      MsgBox ("Error Occurred")
   End If
End Sub
```

HypGetSourceGrid

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetSourceGrid() creates a query from the source grid for the dynamic link query.

This function applies to both static and dynamic link views.

Before you run HypGetSourceGrid, a connected grid must exist on the active worksheet and a valid data cell must be selected.

Syntax

HypGetSourceGrid(vtSheetName, vtGrid)

ByVal vtSheetName As Variant

ByRef vtGrid As Variant

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtGrid: The grid XML returned

Return Value

Returns 0 if successful or the appropriate error code otherwise.

Example

```
Declare Function HypGetSourceGrid Lib "HsAddin" (ByVal vtSheetName As Variant, ByRef
vtGrid As Variant) As Long

Sub Example_HypGetSourceGrid()
   Dim vtGrid As Variant
   Range ("B2").Select
   Sts = HypGetSourceGrid (Empty, vtGrid)
End sub
```

HypDisplayToLinkView

Data provider types: Data provider types: Essbase, Planning, Financial Management, Hyperion Enterprise

Description

HypDisplayToLinkView() displays Office documents to Word or PowerPoint or grids to Excel.

Note: The link action is performed with the latest content of the dynamic link query.

Syntax

HypDisplayToLinkView (vtDocumentType, vtDocumentPath)

ByVal vtDocumentType As Variant

ByVal vtDocumentPath As Variant

Parameters

vtDocumentType: The destination for the link view. Valid values:

- EXCEL_APP
- WORD_APP
- PPOINT_APP

vtDocumentPath: The path to the document. Required only for WORD_APP or PPOINT_APP.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypDisplayToLinkView Lib "HsAddin" (ByVal vtDocumentType As Variant,
ByVal vtDocumentPath As Variant) As Long

Sub Example_HypDisplayToLinkView()
  Dim vtGrid As Variant
  Sts = HypConnect(Empty, "UserName", "Password", "MyDemoBasic")
  Sts = HypRetrieve(Empty)
  Range("B2").Select
  Sts = HypGetSourceGrid(Empty, vtGrid)
  Sts = HypSetColItems(1, "Market", "East", "West", "South", "Central", "Market")
  Sts = HypDisplayToLinkView("EXCEL_APP", "")
End Sub
```

HypGetConnectionInfo

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetConnectionInfo() returns the connection information for the dynamic link query.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypGetConnectionInfo(vtServerName, vtUserName,vtPassword, vtApplicationName, vtDatabaseName,vtFriendlyName,vtURL,vtProviderType)

ByRef vtServerName As Variant

ByRef vtUserName As Variant

ByRef vtPassword As Variant

ByRef vtApplicationName As Variant

ByRef vtDatabaseName As Variant

ByRef vtFriendlyName As Variant

ByRef vtURL As Variant

ByRef vtProviderType As Variant

Parameters

vtServerName: Output parameter; the name of the server for the dynamic link query

vtUserName: Output parameter; the user name for the dynamic link query

vtPassword: Output parameter; the password for the dynamic link query. Note: The actual password is not returned for security reasons; it is returned as Empty.

vtApplicationName: Output parameter; the application name for the dynamic link query

vtDatabaseName: Output parameter; the database name for the dynamic link query

vtFriendlyName: Output parameter; the friendly connection name for the dynamic link query

vtURL: Output parameter; the URL for the dynamic link query

vtProviderType: Output parameter; the provider type for the dynamic link query

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetConnectionInfo Lib "HsAddin" (ByRef vtServerName As Variant, ByRef
vtUserName As Variant, ByRef vtPassword As Variant, ByRef vtApplicationName As Variant,
ByRef vtDatabaseName As Variant, ByRef vtFriendlyName As Variant, ByRef vtURL As Variant,
ByRef vtProviderType As Variant) As Long

Sub Example_HypGetConnectionInfo()
   Dim vtGrid As Variant
   Dim server As Variant
   Dim user As Variant
   Dim app As Variant
   Dim db As Variant
   Dim provider As Variant
   Dim conn As Variant
   Dim url As Variant
   Sts = HypConnect(Empty, "UserName", "MyDemoBasic")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
   Sts = HypGetSourceGrid (Empty, vtGrid)
   Sts = HypGetConnectionInfo(server,user, pwd, app, db, conn, url, provider)
End sub
```

HypSetConnectionInfo

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypSetConnectionInfo() modifies the connection information in the query.

The parameters passed for HypSetConnectionInfo() must match the connection information stored with that connection name.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypSetConnectionInfo (vtServerName, vtUserName, vtPassword, vtApplicationName, vtDatabaseName, vtFriendlyName, vtURL, vtProviderType)

ByVal vtServerName As Variant

ByVal vtUserName As Variant

ByVal vtPassword As Variant

ByVal vtApplicationName As Variant

ByVal vtDatabaseName As Variant

ByVal vtFriendlyName As Variant

ByVal vtURL As Variant

ByVal vtProviderType As Variant

Parameters

vtServerName: The server name in the query

vtUserName: The user name in the query

vtPassword: The user password in the query

vtApplicationName: The application name in the query

vtDatabaseName: The database name in the query

vtFriendlyName: The friendly connection name in the query

vtURL: The provider URL in the query

vtProviderType: The provider type in the query

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetConnectionInfo Lib "HsAddin" (ByVal vtServerName As Variant, ByVal
vtUserName As Variant, ByVal vtPassword As Variant, ByVal vtApplicationName As Variant,
ByVal vtDatabaseName As Variant, ByVal vtFriendlyName As Variant, ByVal vtURL As Variant,
ByVal vtProviderType As Variant) As Long

Sub Example_HypSetConnectionInfo()
   Dim vtGrid As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "DemoBasic")
   Sts = HypRetrieve(Empty)
   Range("B2").Select
   Sts = HypGetSourceGrid(Empty, vtGrid)
   Sts = HypSetConnectionInfo("localhost", "UserName", "Password", "Sample", "Basic",
"SampleBasic", "http://localhost:13080/aps/SmartView", provider)
End Sub
```

HypGetRowCount

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetRowCount() returns the number of row dimensions.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypGetRowCount()

Return Value

Returns number of row dimensions if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetRowCount Lib "HsAddin" () As Long

Sub Example_HypGetRowCount()
   Dim vtGrid As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "MyDemoBasic")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
   Sts = HypGetSourceGrid (Empty, vtGrid)
```

```
   Sts = HypGetRowCount ()
End sub
```

HypGetColCount

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetColCount() returns the number of column dimensions.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypGetColCount()

Return Value

Returns the number of column dimensions if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetColCount Lib "HsAddin" () As Long

Sub Example_HypGetColCount()
   Dim vtGrid As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "MyDemoBasic")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
   Sts = HypGetColCount ()
End sub
```

HypGetPOVCount

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetPOVCount() returns the number of dimensions in the POV from the dynamic link query.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypGetPOVCount()

Return Value

Returns the number of dimensions in the POV if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetPOVCount Lib "HsAddin" () As Long

Sub Example_HypGetPOVCount()
   Dim vtGrid As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "MyDemoBasic")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
   Sts = HypGetSourceGrid (Empty, vtGrid)
   Sts = HypGetPOVCount ()
End sub
```

HypGetRowItems

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetRowItems() returns the members present for the nth row dimension in the dynamic link query.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypGetRowItems(vtRowID, vtDimensionName, vtMemberNames)

ByVal vtRowID As Variant

ByRef vtDimensionName As Variant

ByRef vtMemberNames As Variant

Parameters

vtRowID: The row number *n*.

vtDimensionName: Output parameter; the nth row dimension name

vtMemberNames: Output parameter; the members for the nth row dimensions

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetRowItems Lib "HsAddin" (ByVal vtRowID As Variant, ByRef
vtDimensionName As Variant, ByRef vtMemberNames As Variant) As Long

Sub Example_HypGetRowItems()
   Dim vtGrid As Variant
   Dim vtDimName As Variant
   Dim vtMembers As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "DemoBasic_Connection")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
   Sts = HypGetSourceGrid (Empty, vtGrid)
   Sts = HypGetRowItems(1, vtDimName, vtMembers)
End sub
```

HypSetRowItems

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

Sets the members for the nth row dimension for this dynamic link query. If the nth row does not exist, a new row is appended.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypSetRowItems (vtRowID, vtDimensionName, ParamArray MemberList())

ByVal vtRowID As Variant

ByVal vtDimensionName As Variant

ParamArray MemberList() As Variant

Parameters

vtRowID: The row number *n*

vtDimensionName: The dimension name

ParamArray MemberList: The list of member names

Return Value

Long. Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetRowItems Lib "HsAddin" (ByVal vtRowID As Variant, ByVal
vtDimensionName As Variant, ParamArray MemberList() As Variant) As Long

Sub Example_HypSetRowItems()
   Dim vtGrid As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "DemoBasic")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
   Sts = HypGetSourceGrid (Empty, vtGrid)
   Sts = HypSetRowItems(1, "Product", "100", "200", "300", "400", "Diet", "Product")
End sub
```

HypGetColItems

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetColItems() returns the members present in the dynamic link query for the nth column dimensions.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypGetColItems(vtColID, vtDimensionName, vtMemberNames)

ByVal vtColID As Variant

ByRef vtDimensionName As Variant

ByRef vtMemberNames As Variant

Parameters

vtColID : The column number *n*

vtDimensionName: Returns the nth column dimension name

vtMemberNames: Returns members for the nth column dimensions

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetColItems Lib "HsAddin" (ByVal vtColID As Variant, ByRef
vtDimensionName As Variant, ByRef vtMemberNames As Variant) As Long

Sub Example_HypGetColItems()
   Dim vtGrid As Variant
   Dim vtDimensionName As Variant
   Dim vtMembers As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "AnamikaDemoBasic")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
   Sts = HypGetSourceGrid (Empty, vtGrid)
   Sts = HypGetColItems(1, vtDimensionName, vtMemberNames)
End sub
```

HypSetColItems

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypSetColItems() sets the members for the nth column dimension for the dynamic link query. If the nth column does not exist, a new column is appended.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypSetColItems (vtColID, vtDimensionName, ParamArray MemberList())

ByVal vtColID As Variant

ByVal vtDimensionName As Variant

ParamArray MemberList() As Variant

Parameters

vtColID: The column number *n*

vtDimensionName: The dimension name

ParamArray MemberList: The list of member names

Return Value

Long. Returns 0 if successful, otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetColItems Lib "HsAddin" (ByVal vtColID As Variant, ByVal
vtDimensionName As Variant, ParamArray MemberList() As Variant) As Long

Sub Example_HypSetColItems()
   Dim vtGrid As Variant
   Sts = HypConnect(Empty, "Username", "Password", "SalesDemoBasic")
   Sts = HypRetrieve(Empty)
   Range("B2").Select
   Sts = HypGetSourceGrid(Empty, vtGrid)
   Sts = HypSetColItems(1, "Market", "East", "West", "South", "Central", "Market")
End Sub
```

HypGetPOVItems

Data provider types: Essbase, Planning (ad hoc only), Financial Management (ad hoc only), Hyperion Enterprise (ad hoc only)

Description

HypGetPOVItems() returns the dimensions in the POV and the currently selected member for each dimension.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypGetPOVItems(vtDimensionNames, vtPOVNames)

ByRef vtDimensionNames As Variant

ByRef vtPOVNames As Variant

Parameters

vtDimensionNames: The dimension names in the POV

vtPOVNames: The currently selected member for each dimension in the POV.

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypGetPOVItems Lib "HsAddin" (ByRef vtDimensionNames As Variant, ByRef
vtPOVNames As Variant) As Long

Sub Example_HypGetPOVItems()
   Dim vtGrid As Variant
   Dim vtDimNames As Variant
   Dim vtPOVNames As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "MyDemoBasic")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
   Sts = HypGetSourceGrid (Empty, vtGrid)
   Sts = HypGetPOVItems (vtDimNames, vtPOVNames)
End sub
```

HypSetPOVItems

Data provider types: Essbase, Oracle Hyperion Planning (ad hoc only), Oracle Hyperion Financial Management (ad hoc only), Oracle Hyperion Enterprise® (ad hoc only)

Description

HypSetPOVItems() sets the POV dimensions for the dynamic link query.

Note: It is assumed that a call has already been made to HypGetSourceGrid to initialize the dynamic link query, which contains the information about the active data provider and the grid on the worksheet.

Syntax

HypSetPOVItems (ParamArray MemberList())

ParamArray MemberList() As Variant

Parameters

ParamArray MemberList(): The list of desired POV items in the form `Dimension#Current Member`

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Example

```
Declare Function HypSetPOVItems Lib "HsAddin" (ParamArray MemberList() As Variant) As
Long
Sub Example_HypSetPOVItems()
   Dim vtGrid As Variant
   Sts = HypConnect(Empty, "UserName", "Password", "MyDemoBasic")
   Sts = HypRetrieve(Empty)
   Range ("B2").Select
```

```
   Sts = HypGetSourceGrid (Empty, vtGrid)
   Sts = HypSetPOVItems ("Scenario#Scenario", "Measures#Measures")
End sub
```

14 MDX Query Functions

In This Chapter

About MDX

Multidimensional Expressions (MDX) language is used to develop scripts or applications to query and report against data and metadata in Essbase databases. For information about MDX, see the Essbase documentation set.

"HypExecuteMDXEx" on page 191

HypExecuteMDXEx

Data provider types: Oracle Essbase

Description

HypExecuteMDXEx() executes an MDX query whose results are output in a data structure but are not displayed on the worksheet. (If you want to display the query results on a worksheet, use HypExecuteQuery instead.)

Syntax

```
HypExecuteMDXEx
(
ByVal vtSheetName As Variant,
ByVal vtQuery As Variant,
ByVal vtBoolHideData As Variant,
ByVal vtBoolDataLess As Variant,
ByVal vtBoolNeedStatus As Variant,
ByVal vtMbrIDType As Variant,
ByVal vtAliasTable As Variant,
ByRef outResult As MDX_AXES_NATIVE
) As Long
```

Parameters

vtSheetName: The name of worksheet on which to run the function. If vtSheetName is `Null` or `Empty`, the active worksheet is used.

vtQuery: The MDX query to be executed

vtBoolHideData: The Boolean flag to hide or unhide data in the result

vtBoolDataLess: The Boolean flag to get or avoid data in the result

vtBoolNeedStatus: The Boolean flag to get or avoid status info in the result

vtMbrIDType: The member type identifier for the result (name or alias)

vtAliasTable: The alias table to be used

outResult: Pointer to a structure of type MDX_AXES. It contains the query output. (See Data Types Specific to HypExecuteMDXEx for data types and support functions for this API.)

Return Value

Returns 0 if successful; otherwise, returns the appropriate error code.

Data Types Specific to HypExecuteMDXEx

The following data types apply exclusively to HypExecuteMDXEx:

MDX_CELL: The data type corresponding to a cell

MDX_PROPERTY: The data type containing properties info for members and dimensions

MDX_MEMBER: The data type for members information

MDX_DIMENSION: The data type for dimensions information

MDX_CLUSTER: The data type for cluster information

MDX_AXIS: The data type representing an axis

MDX_AXES: The root level structure containing a collection of axes and cells

MDX_AXES_NATIVE: The data type used as an out parameter for HypExecuteMDXEx. This structure should be converted to MDX_AXES using procedure GetVBCompatibleMDXStructure.

Example

```
Sub GetVBCompatibleMDXStructure(ByRef inStruct As MDX_AXES_NATIVE, ByRef outStruct As
MDX_AXES)

Public Declare Function HypExecuteMDXEx Lib "HsAddin" (ByVal vtSheetName As Variant,
ByVal vtQuery As Variant, ByVal vtBoolHideData As Variant, ByVal vtBoolDataLess As
Variant, ByVal vtBoolNeedStatus As Variant, ByVal vtMbrIDType As Variant, ByVal
vtAliasTable As Variant, ByRef outResult As MDX_AXES_NATIVE) As Long

Sub Example_HypExecuteMDXEx()

Dim Query As Variant
Dim vtBoolHideData As Variant
```

```
Dim vtBoolDataLess As Variant
Dim vtBoolNeedStatus As Variant
Dim vtMbrIDType As Variant
Dim vtAliasTable As Variant
Dim result_Native As MDX_AXES_NATIVE
Dim result_VBCompatible As MDX_AXES

Query = "select {Jan} on COLUMNS, {Profit} on ROWS from Sample.Basic"
vtBoolHideData = True
vtBoolDataLess = True
vtBoolNeedStatus = True
vtMbrIDType = "alias"
vtAliasTable = "none"

sts = HypConnect(Empty, "UserName", "Password", "SB")

If sts = 0 Then

sts = HypExecuteMDXEx(Empty, Query, vtBoolHideData, vtBoolDataLess, vtBoolNeedStatus,
vtMbrIDType, vtAliasTable, result_Native)
sts = GetVBCompatibleMDXStructure(result_Native, result_VBCompatible)
sts = HypDisconnect(Empty, True)
Else
End If
End Sub
```

15 Oracle BI EE Functions

In This Chapter

About Oracle BI EE Functions

The VBA functions in this chapter support Smart View operations when connected to an Oracle BI EE data source.

Preparing to Work with Oracle BI EE Functions

Before you begin creating and editing VBA functions for Oracle BI EE, you must first add references to the Oracle Smart View BI Extension type library and Oracle Smart View for Office type library.

➤ To add Oracle Smart View BI Extension and Smart View references:

1. **Start the Visual Basic Editor from a Microsoft Office application; for example, from Excel.**
2. **Select Tools, then References.**
3. **In Available References, check the following items:**
   - Oracle Smart View BI Extension
   - Oracle SmartView RC 1.0 Type Library
4. **Click OK.**

Continue with "Instantiating an Oracle Smart View BI Extension Object" on page 196.

Instantiating an Oracle Smart View BI Extension Object

The Oracle Smart View BI Extension exposes its automation interface through COM interface. To make an automation call to Oracle Smart View BI Extension, an Oracle Smart View BI Extension COM object must first be instantiated.

All Oracle BI EE automation functions are defined in the IBIReport interface, and the SmartViewOBIEEAutomation class implements those functions. Therefore, in any Oracle BI EE automation call, you must include the variable declarations that are described in the following procedure.

➤ To create the variable declarations that will be included in all functions:

1 **Declare a variable of type** `IBIReport`.

2 **Set the variable to an object of type** `SmartViewOBIEEAutomation`.

The resulting lines are:

```
Dim obiee As IBIReport
Set obiee = New SmartViewOBIEEAutomation
```

3 **Include the lines from step 2 in each of your functions.**

You are ready to begin creating and working with the Oracle Smart View BI Extension functions. See "Oracle Smart View BI Extension Functions" on page 196 for a complete listing of the functions available and their usage.

Oracle Smart View BI Extension Functions

Subtopics

InsertView

Description

Insert an Oracle BI EE view into an Office application.

Syntax

Function InsertView(

connectionContext As String,

sourcePath As String,

viewName As String,

prompt() As BIReportPrompt,

format As SVREPORT_RENDER_FORMAT,

insertOption As SVREPORT_COMPOUND_VIEW_INSERT_OPTION) As Boolean

Parameters

connectionContext: The Oracle BI EE provider URL.

sourcePath: The location of the view in the Oracle BI EE Catalog.

To express the path of the view, in a web browser, access the Oracle BI EE Catalog, navigate to the view folder, and note the URL of the folder. The path of the folder can then be derived after decoding the folder URL (which is encoded with URL encoding). To specify a location of the view, include the analysis name in the path. For example, in the browser, the URL of a folder in Oracle BI EE is: .

```
http://xxxx.com:xxxx/analytics/saw.dll?catalog#%7B%22location%22%3A%22%2Fusers
%2Fadministrator%2Fsvc_auto_bugs%22%7D
```

Decoding the URL and the URL is changed to:

```
http://xxxx.com:xxxx/analytics/saw.dll?catalog#{"location":"/users/administrator/
svc_auto_bugs"}
```

After getting the folder path, append the analysis name to the path. In the end, the path looks like:

```
/users/administrator/svc_auto_bugs/AnalysisName
```

viewName: The name of the view.

prompt: The prompts for inserting the view.

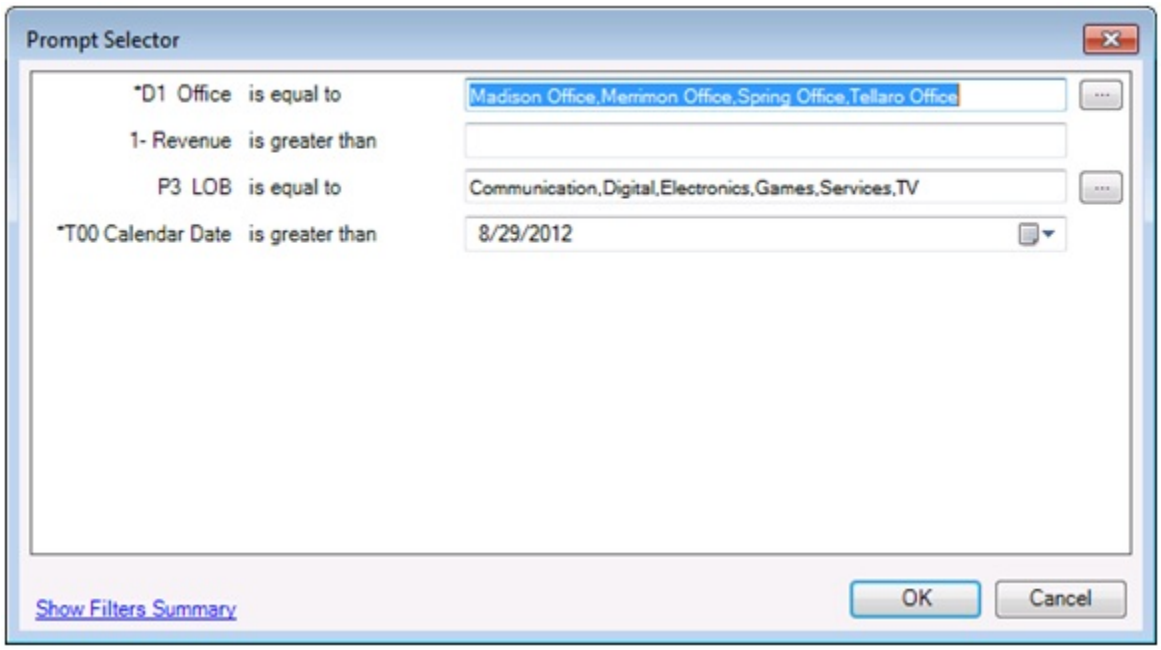
Prompts are an array of BIReportPrompt. BIReportPrompt is a class with only one member which is an array of strings. All prompt input should be converted to strings. The order of the BIReportPrompt array should be same as the order of the prompts in the Prompt Selector dialog box.

For example, to specify prompt values for the prompts in the Figure 1, you must create an array of four BIReportPrompts:

- The first element contains the selection for “D1 Office”
- The second element is for “1 - Revenue”
- The third element is for “P3 LOB”
- The fourth element is for “T00 Calendar Date”

The sample code follows Figure 1.

Figure 1 Prompt Selector Dialog Box with Selections for Office, Line of business, and Calendar Date




```
Dim prompts(0 To 3) As BIReportPrompt

Dim firstPrompt(0 To 3) As String
firstPrompt(0) = "Madison Office"
firstPrompt(1) = "Merrimon Office"
firstPrompt(2) = "Spring Office"
firstPrompt(3) = "Tellaro Office"
prompts(0).Values = firstPrompt

Dim secondPrompt(0 To 0) As String
secondPrompt(0) = "500"
prompts(1).Values = secondPrompt

Dim ThirdPrompt(0 To 5) As String
ThirdPrompt(0) = "Communication"
ThirdPrompt(1) = "Digital"
ThirdPrompt(2) = "Electronics"
ThirdPrompt(3) = "Games"
ThirdPrompt(4) = "Services"
ThirdPrompt(5) = "TV"
prompts(2).Values = ThirdPrompt

Dim FourthPrompt(0 To 0) As String
ForthPrompt(0) = "5/15/2009"
prompts(3).Values = ForthPrompt
```

format: The format to be rendered. Valid render format values are described in Table 7.

Table 7 Render Formats and View Types

Render Format Value	View Types to be Used
Default_Format	All Views
ExcelPivot	Pivot Table View Only
ExcelTable	Table View Only
Image	Chart View Only

insertOption: For compound views only. This option specifies how to insert all the views in a compound view and is ignored for individual views.

Valid values:

- NewSheet—Inserts each view in the compound view in a new sheet.
- SameSheet—Inserts each view in the compound view in the same sheet.

Return Value

Indicates if the operation succeeds or not.

Example

```
Sub InsertTableTest()

Dim obiee As IBIReport
Set obiee = New SmartViewOBIEEAutomation

Dim prompts() As BIReportPrompt

obiee.InsertView "http://xxx.com:xxxx/analytics/jbips", "/shared/SmartView/OBIEE/
sv_vba_dev", "tableView!1", prompts, Default_Format, NewSheet

End Sub

Sub InsertPromptTableTest()

Dim obiee As IBIReport
Set obiee = New SmartViewOBIEEAutomation

Dim prompts(0 To 3) As BIReportPrompt

Dim firstPrompt(0 To 3) As String
firstPrompt(0) = "Madison Office"
firstPrompt(1) = "Merrimon Office"
firstPrompt(2) = "Spring Office"
firstPrompt(3) = "Tellaro Office"
prompts(0).Values = firstPrompt

Dim secondPrompt(0 To 0) As String
secondPrompt(0) = "500"
prompts(1).Values = secondPrompt

Dim ThirdPrompt(0 To 5) As String
```

```
ThirdPrompt(0) = "Communication"
ThirdPrompt(1) = "Digital"
ThirdPrompt(2) = "Electronics"
ThirdPrompt(3) = "Games"
ThirdPrompt(4) = "Services"
ThirdPrompt(5) = "TV"
prompts(2).Values = ThirdPrompt

Dim FourthPrompt(0 To 0) As String
ForthPrompt(0) = "5/15/2009"
prompts(3).Values = ForthPrompt

obiee.InsertView "http://xxx.com:xxxx/analytics/jbips","/shared/SmartView/sv_vba_dev/
promptAllTypes", "tableView!1", prompts, Default_Format, SameSheet

End Sub
```

EditPrompts

Description

Edit prompts of a view.

Syntax

Function EditPrompts(

objID As String,

prompt() As BIReportPrompt

) As Boolean

Parameters

objID: The ID of the view to be edited. If an empty ID is passed, the selected view will be used.

prompt: Same as the "prompt" parameter in InsertView.

Return Value

Indicates if the operation succeeds or not.

Example

```
Sub EditPromptTableTest()

Dim obiee As IBIReport
Set obiee = New SmartViewOBIEEAutomation

Dim prompts(0 To 3) As BIReportPrompt

Dim firstPrompt(0 To 3) As String
firstPrompt(0) = "Madison Office"
firstPrompt(1) = "Merrimon Office"
firstPrompt(2) = "Spring Office"
```

```
firstPrompt(3) = "Tellaro Office"
prompts(0).Values = firstPrompt

Dim secondPrompt(0 To 0) As String
secondPrompt(0) = "500"
prompts(1).Values = secondPrompt

Dim ThirdPrompt(0 To 5) As String
ThirdPrompt(0) = "Communication"
ThirdPrompt(1) = "Digital"
ThirdPrompt(2) = "Electronics"
ThirdPrompt(3) = "Games"
ThirdPrompt(4) = "Services"
ThirdPrompt(5) = "TV"

prompts(2).Values = ThirdPrompt

Dim ForthPrompt(0 To 0) As String
ForthPrompt(0) = "8/15/2009"
prompts(3).Values = ForthPrompt

obiee.EditPrompts Empty, prompts
```

EditPagePrompts

Description

Edit the page selections of a view.

Syntax

Function EditPagePrompts(

objID As String,

pageSelections() As String

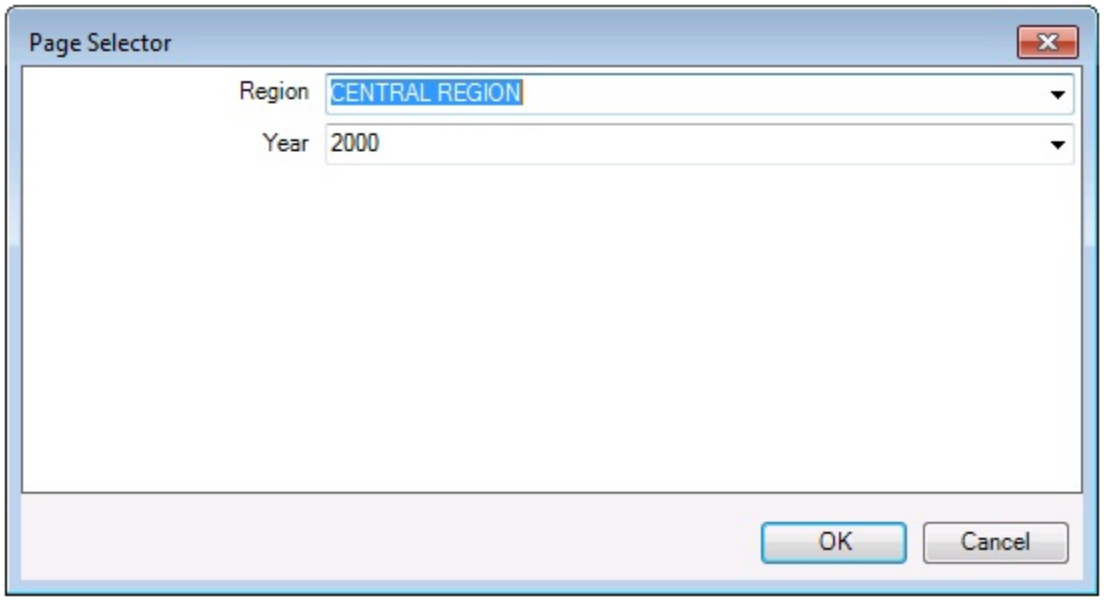
) As Boolean

Parameters

objID: The IDid of the view to be edited. If an empty ID is passed, the selected view will be used.

pageSelections: The order of the page selection stored in the string array should be same as the order the page selections appear in the Page Selector dialog box. For example, to specify the page selections shown in Figure 2, use the sample code that follows the figure.

Figure 2 Page Selector Dialog Box with Selections for Region and Year




```
Dim pageSelections(0 To 1) As String
pageSelections (0) = "CENTRAL REGION"
pageSelections (1) = "2000"
```

Return Value

Indicates if the operation succeeds or not.

Example

```
Sub EditPagePromptTest()

Dim obiee As IBIReport
Set obiee = New SmartViewOBIEEAutomation
Dim pages(0 To 1) As String
pages(0) = "CENTRAL REGION"
pages(1) = "2000"

obiee.EditPagePrompts Empty, pages

End Sub
```

GetPagePrompts

Description

Get page selections of a view.

Syntax

Function GetPagePrompts(

objID As String,

PageEdges() As String,

PageSelections() As String

) As Boolean

Parameters

objID: The ID of the view to get page selections from. If an empty ID is passed, the selected view will be used.

PageEdges: An output argument. Returns names of the page edges of the view.

PageSelections: An output argument. Returns the selected page values.

Return Value

Indicates if the operation succeeds or not.

Example

```
Sub TestGetPage()

Dim obiee As IBIReport
Set obiee = New SmartViewOBIEEAutomation

Dim dims() As String
Dim pageSelections() As String

obiee.GetPagePrompts Empty, dims, pageSelections

End Sub
```

DeleteView

Description

Delete a view in an Office application.

Syntax

Function DeleteView(objID As String) As Boolean

Parameters

objID: The ID of the view to be deleted. If an empty ID is passed, the selected view will be used.

Return Value

Indicates if the operation succeeds or not.

Example

```
Sub DeleteViewTest()
```

```
Dim obiee As IBIReport
Set obiee = New SmartViewOBIEEAutomation
obiee.DeleteView Empty

End Sub
```

AnalysisProperties

Description

Fetch the properties of an analysis.

Syntax

Function AnalysisProperties(

connectionContext As String,

sourcePath As String,

analysisName As String

) As SVReportProperty()

Parameters

connectionContext: The Oracle BI EE provider URL.

sourcePath: The path of the analysis.

analysisName: The name of the analysis.

Return Value

An array of SVReportProperty. Each element in the array represents one property of the analysis. SVReportProperty's name member contains the name of the property, and the value member contains the value of the property.

Example

```
Sub TestAnalysisProp()

Dim BIReport As IBIReport
Set BIReport = New SmartViewOBIEEAutomation

Dim result As Variant

result = BIReport.AnalysisProperties("http://xxx.com:xxxx/analytics/jbips","/shared/
SmartView/OBIEE", "svdevusr")

End Sub
```

DirProperties

Description

Fetch properties of a directory

Syntax

Function DirProperties (

connectionContext As String,

sourcePath As String,

) As SVReportProperty()

Parameters

connectionContext: The Oracle Business Intelligence Enterprise Edition provider URL.

sourcePath: The path of the directory.

Return Value

Same as the return values of AnalysisProperties. An array of SVReportProperty. Each element in the array represents one property of the analysis. SVReportProperty's name member contains the name of the property, and the value member contains the value of the property.

Example

```
Sub TestDirProp()

Dim BIReport As IBIReport
Set BIReport = New SmartViewOBIEEAutomation

Dim result As Variant

result = BIReport.DirProperties("http://xxx.com:xxxx/analytics/jbips","/shared/
SmartView/OBIEE/sv_vba_dev")

End Sub
```

InvokeMenu

Description

Invoke Smart View Oracle BI EE extension menu.

Syntax

Sub InvokeMenu(

menuID As String

)

Parameters

menuID: The ID of the menu items. Valid values are listed in Table 8.

Table 8 Oracle BI EE Menu Items and IDs

Menu	ID
View Designer	ViewDesigner
Publish View	PublishView
Refresh	Refresh
Edit Prompts	EditPrompts
Edit Page Prompts	EditPage
Copy	CopyView
Paste	PasteView
Delete	DeleteView
Mask Data	MaskView
Mask Document Data	MaskDocumentView

Example

```
Sub TestMenuInvoke()

    Dim obiee As IBIReport
    Set obiee = New SmartViewOBIEEAutomation

    obiee.InvokeMenu "ViewDesigner"

End Sub
```

CopyView

The CopyView function is not supported in the current release.

PasteView

The PasteView function is not supported in the current release.