
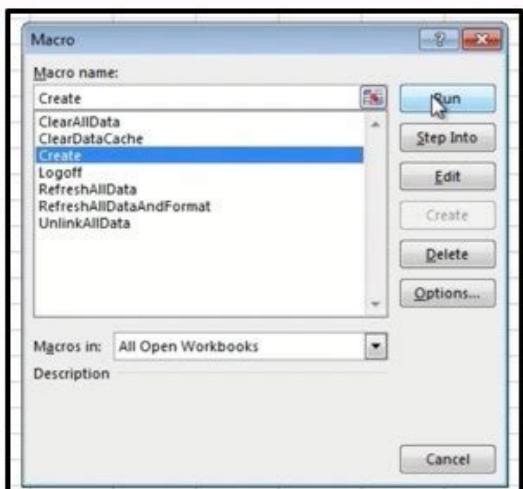


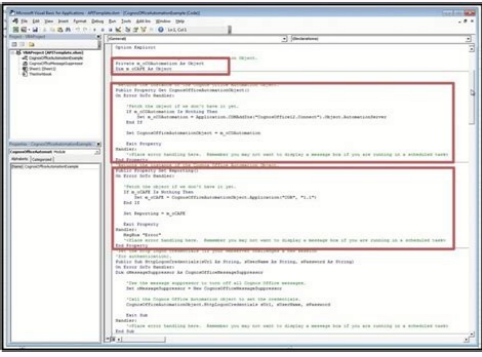
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## Cognos reporting api



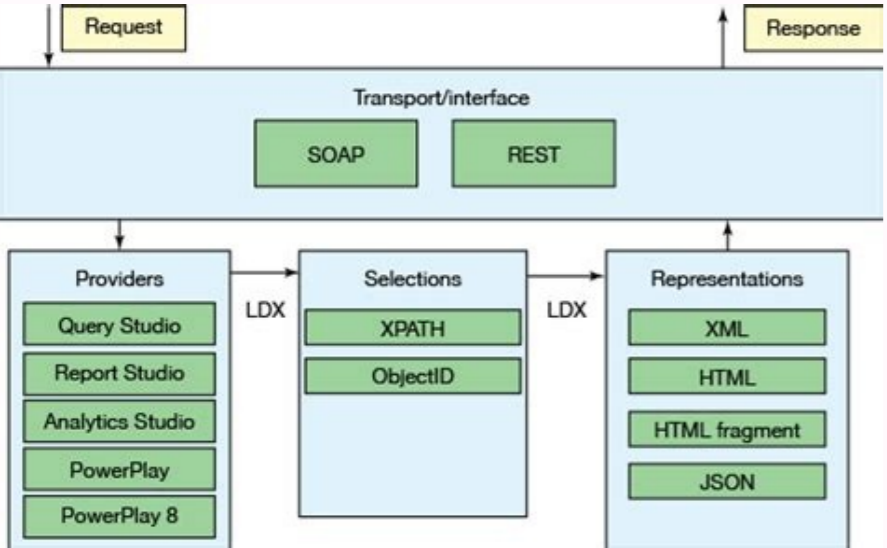
Sales Territory	Country	Region	City	Address line 1	Revenue
Central Europe	Germany	Berlin, Germany	Berlin, Germany	Neckarstraße 83, Berlin, Germany	\$422,561.86
			Berlin, Germany		\$1,760,396.62
			Berlin, Germany		\$1,760,396.62
	Brandenburg, Germany	Potsdam, Germany	Potsdam, Germany	Ahornstraße 82, Potsdam, Germany	\$602,109.90
			Potsdam, Germany		\$602,109.90



Header Text dialog box showing options for Automatic text and Specified text. The Specified text option is selected, with the prompt text 'Choose a Product Line...'.

Properties Value Prompt dialog box showing the Prompt Text section. The Header Text is set to 'Choose a Product Line...'.

Header Text description: Specifies the title that appears above the list of choices in a value prompt. The default title text is the name of the level above the data items that are listed as choices; for example, Regions.



It also contains wrapper functions that call the API exposed by IBM Cognos Office. Any macro with parameters is not shown in the macro options by default. `cafe.QuickReports.Get("")`. `GetTuple(ActiveCell)` Arguments Argument Description Data type Quick Report ID The ID of the Quick Report that the tuple is being returned from. This `CellSet` object can then be traversed in a similar way to a `JSON` object. Copy If `bResult` Then Copy `CognosOfficeAutomationObject.RefreshAllDataAndFormat` Copy End If `RefreshAllDataAndFormat` retrieves the most current data values and formatting from the IBM® Cognos® server and updates those values and formats in the current document. `Reporting.GetConnection().PATCH()` Arguments Argument Description Data type `CURRENT` The URL of the host that you want to update on. `RefreshSelection()` `RefreshSheet` Example Application.COMAddIns("CognosOffice12.Connect").Object.AutomationServer.Application("COR", "1.1").RefreshSheet `RefreshSheet` refreshes IBM Planning Analytics for Microsoft Excel data in the active sheet. Therefore, when you use only part or all of the original URL string with the `UpdateServerURL` method, you will change all data that matches the search string. Using an application programming interface (API), you can automate the refreshing or publishing of content. `ClearSheet()` EvaluateSynchronous The EvaluateSynchronous function behaves like Excel's Evaluate formula and turns a string into a formula. `Reporting.QuickReports.Replace` `Reporting.GetCurrentReport(ActiveCell)`. Arguments Argument Description Data type Quick Report ID The ID of the Quick Report that will have its MDX statement replaced. `Reporting.GetCurrentReport()`. `EnabledReports` Arguments Argument Description Data type True Enables indents in Quick Reports. Takes a string array of file locations and names (must be a 1-to-1 pairing of files and file names). `test.DynamicReports.RebuildActiveWorkbook` End Sub This API call is used to rebuild the Dynamic Reports in the active workbook, even if the Dynamic Reports are on different sheets. `Reporting.GetCurrentReport()`. `Cube DataSource` Example Public Sub DataSource() `MsgBox` Reporting.GetCurrentReport().DataSource is used to return the Quick Report host URL. To help you understand what is possible using this API, several samples are provided. `String` Script files This site includes sample script files that you can use to automate functions. `Reporting.Explorations.GetAt()`. `SwapRowsAndColumns` `SetRowSuppression` Example Public Sub `SetRowSuppressions()` `Reporting.Explorations.GetAt(Application.ActiveSheetName)`. `SetRowSuppression` True End Sub `SetRowSuppression` is used to enable and disable zero-suppression for rows in an exploration. To gain access to this control from IBM Cognos, click the Options button on the IBM Cognos ribbon, then click Update System Utility. Public Property Get `OData` As String `OData` endpoint `OData = "tm1/" + Server + "/api/v1` End Property Public Property Get `Current()` As String `Current = Reporting.Settings.GetValue("MrvServer")` End Property Public Function `GetCurrentServer()` As String Dim `sServerCubeMRU` As String Dim `sServerCube` As Variant Dim `sServer` As String `sServerCubeMRU` = `Reporting.Settings.GetValue("MrvPackage")` `sServerCubeMRU` = `Mid(sServerCubeMRU, 2, Len(sServerCubeMRU) - 2)` `sServerCube` = `Split(sServerCubeMRU, "/")` `sServer` = `Split(sServerCube(0), "/")(1)` `GetCurrentServer` = `Mid(sServer, 3, Len(sServer) - 3)` End Function Public Function `GetDataGetPath` As String As `JSONObjectWrapper` Dim `result` As New `JSONParser` Dim `response` As Object `Set response` = `Reporting.GetConnection().Get(OData(GetCurrentServer) & "/" & path)` End Function Use GET requests to return data from the TM1 Server. By using a CVS, you can generate highly customizable Exploration Views. `Alphanumeric string` `GetColumnSuppression` Example Public Sub `AreColumnsSuppressed()` `MsgBox` `Reporting.Explorations.GetAt(Application.ActiveSheetName)`. `Reporting.GetCurrentReport()`. `Name` `Rebuild` Example Public Sub `Rebuild()` `Reporting.GetCurrentReport()`. `Rebuild` is used to rebuild a Quick Report. `Publish` (url, document path, server path, name, description, screenTip) Arguments Argument Description Data type url The server to which you are publishing. `Syntax` The following string is the syntax for the DataSource method. Remember you may not want to display a message box if you are running in a scheduled task -> End Property The references mentioned in this section can be imported via the CognosOfficeAutomationExample.bas file. `HttpLoginCredentials` (url, user name, password) Arguments Argument Description Data type url The URL for the Web site against which you want to authenticate. `String` new server URL string Indicates the URL of the target system. `Syntax` The following string is the syntax for the RefreshSheet method. `Creating` VBA macros Passing parameters, leveraging VBS and the command line interface In addition to these capabilities, you can schedule scripts, either ones that you create or the samples, to run as a batch process at a set time. `Procedure` Open a new Office document, workbook, or presentation. The MDX Cleanup utility resolves invalid members or removes them from the MDX if the members no longer exist. No need to encode spaces and other special characters. `Syntax` The following string is the syntax for the RowHierarchies method. All Rights Reserved. `Alphanumeric string` MDX MDX statement which the Exploration View is to be created from. `Logon` does not appear in the macro list in the Microsoft application because the macro receives an argument. `Alphanumeric string` MDX MDX statement which the Dynamic Report is to be created from. `Syntax` The following string is the syntax for the `SwapRowsAndColumns` method. If you are using IBM Cognos Office with IBM Cognos Analytics data, ensure that the Prompt Update Method property on the Manage Data tab in the IBM Cognos pane is set to Use=Display or Do Not Update to complete the operation. Before you begin, make sure that you've returned the connection object. `Alphanumeric string` server name Name of the server which the Quick Report is to be created from. `String` Optional TI process parameter Name of the view which the Custom Report is to be created from. `String` server name Name of the server which the Custom Report is to be created from. `Syntax` `PublishTm1` (string serverURL, string serverName, string publishPath, string documentPath, string name, string description, string screenTip, bool `isPrivate`, bool `isReference`) `MakeFolderTm1` Example for creating a public or private folder at a given location: Public Sub `MakeFolderTm1()` Dim `oMessageSuppressor` As `CognosOfficeMessageSuppressor` `New` `CognosOfficeMessageSuppressor` Dim `sURL` As String `sURL = " "` Dim `sDS` As String `sDS = "Planning Sample"` Dim `sFolderPath` As String `sFolderPath = "Contents(Planning Sample)/Contents(Private Down Goals)"` Dim `sFolderName` As String `sFolderName = "PublishTm1_Folder1"` Dim `slsPrivate` As Boolean `slsPrivate = False` `CognosOfficeAutomationObject.MakeFolderTm1` `sURL`, `sDS`, `sFolderPath`, `sFolderName`, `slsPrivate` End Sub `MakeFolderTm1` is a TM1-specific API that can create a public or private folder at a given location and differs from the existing `Publish` api in the following ways: No need to include `tm1/Planning%20Sample/api/v1/Contents(Applications)` in the publish path; the API fills that in during execution. `Quick Report` functions can use the following PropertyAccessor objects: `PropertyAccessor` Description Count Counts the number of Quick Reports in the active book. `Publish` does not appear in the macro list in the Microsoft application because the macro receives an argument. `Boolean` `Logon` (url, user name, password, namespace) Arguments Argument Description Data type url The URL for the IBM Cognos Analytics or IBM TM1 system, which you want to log on to. `Reporting.GetCurrentReport()`. `Select` `SetSlicer` Example Public Sub `Select()` `Reporting.Explorations.GetAt()`. `SetRowSuppression` Arguments Argument Description Data type True Enables zero-suppression. You can use the API to create a scheduled batch program to refresh content on a daily, weekly, or monthly basis so that, as your period data changes, the affected files are kept up-to-date. `String` PATH The full (absolute) path of the component that you want to place. If you are using IBM Cognos® Analytics data, ensure that the Prompt Update Method property on the Manage Data tab in the IBM Cognos pane is set to Use=Display or Do Not Update to complete the operation. The `UpdateServerURL` method looks at all data in the workbook and updates data that matches the search string, not just report properties containing the URL string. `Syntax` The following string is the syntax for the ClearSheet method. To learn more about `ExecuteFunction`, see `ExecuteFunction`. `Logoff()` `Logon` Example of the syntax for logging into the IBM Cognos Analytics system: Dim `bResult` As Boolean `bResult = CognosOfficeAutomationObject.Logon ("", "Administrator", "CognosAdmin", "Production")` Example of the syntax for logging into an IBM TM1 system: Dim `bResult` As Boolean `bResult = CognosOfficeAutomationObject.Logon ("", "admin", "peaches", "localhost/Planning Sample")` The `Logon` function takes the URL of the server and the credential elements required by IBM® Planning Analytics for Microsoft Excel to perform a logon: user ID, password, and namespace. `RefreshAllDataAndFormat()` `RefreshBook` Example Application.COMAddIns("CognosOffice12.Connect").Object.AutomationServer.Application("COR", "1.1").RefreshBook `RefreshBook` refreshes all data values in the opened workbooks. `Reporting.Explorations.GetAt()`. `Clear` `Clear` (Exploration) Example Public Sub `Clear()` `Reporting.Explorations.Create` " " , "Planning Sample", "plan\_BudgetPlan", "Goal Input" End Sub `Clear` generates an Exploration View based on the host system URL, server name, cube name, and view name. It is the local path of the file that you want to publish. `Reporting.DynamicReports.RebuildActiveWorkbook` `Custom Report` API function `Custom Report` functions can be used to interact with Custom Report worksheets. `Integer` `Rebuild` (Dynamic Report) Example `Reporting.Explorations.GetAt(ActiveCell.VerisionName)`. `Item()` `Item()` This API call is used to build a Dynamic Report. `Syntax` The following string is the syntax for the GET request. `Syntax` The following string is the syntax for the SuppressMessages method. `Processing` within VBA The following example demonstrates how to call the Logon method within VBA Dim `bResult` As Boolean `bResult = CognosOfficeAutomationObject.Logon ("", "Administrator", "CognosAdmin", "Production")` If `bResult` Then `CognosOfficeAutomationObject.RefreshAllData()` `CognosOfficeAutomationObject.Logoff()` Dim `sTraceLog` As String `sTraceLog = CognosOfficeAutomationObject.TraceLog` Here is where you could write the trace log to file. `String` PUT requests Use PUT requests to place components in the TM1 Server at a target location. `[Operating Expense]`. `EXPAND` `BELOW`. `RECURSIVE` DIMENSION PROPERTIES MEMBER UNIQUE NAME, MEMBER NAME, MEMBER CAPTION, LEVEL NUMBER, CHILDREN CARDINALITY. `[plan chart of accounts].[AccountName]` ON 1 FROM `[plan_BudgetPlan]` WHERE `[plan_version].[FY 2004 Budget]` , `[plan_business.unit].[10000]` , `[plan_department].[1000]` , `[plan_exchange_rate].[actual]` , `[plan_source].[goal]` DIMENSION PROPERTIES MEMBER UNIQUE NAME, MEMBER NAME, MEMBER CAPTION, LEVEL NUMBER, CHILDREN CARDINALITY. `[plan_business.unit]` For these types of automation to work, you must register one or more macros within the workbook. `Reporting.GetConnection()`. `Post()` Arguments Argument Description Data type `CURRENT` The URL of the host that you want to store or update on. `|String` description | The document description that will appear in IBM Cognos. Exploration functions can use the following PropertyAccessor objects: `PropertyAccessor` Description Count Counts the number of Explorations in active book. `String` `IsVisible` (Task Pane) Example: Dim `bResult` As Boolean `bResult = Reporting.TaskPane.IsVisible()` If `bResult = True` Then Call `Reporting.TaskPane.Refresh()` End If You can use the `IsVisible` method to return the state of the Task Pane. The values can be updated with new server data using the `RefreshAllData` call. `Syntax` The following string is the syntax for the `RebuildActiveSheet` method. `Syntax` The system must be successfully logged on to the IBM Cognos server. `Syntax` The following string is the syntax for the `GetTuple` method. |String name| The document name that will appear in IBM Cognos. `[BusinessUnit]` , `[plan_department].[Department]` , `[plan_source].[Source]` End Sub `SetSpecification` is used to define the subset and dimension properties of an existing exploration. For more information about the Application, `DisplayAlerts` property, see Application. `DisplayAlerts` property. The Custom Report functions that are exposed through the IBM® Cognos® automation objects are: `Create` (Custom Report) Example Public Sub `Create()` `Reporting.CustomReports.Create` " " , "Planning Sample", "plan\_BudgetPlan", "Goal Input" End Sub `Create` generates a Custom Report based on the host system URL, server name, cube name, and view name. `GetReports()` Gets the collection of Exploration objects from the active book. `cafe.QuickReports.Get()` End Property `Copy Reporting()` Property Get statement. Returns the instance of the Cognos Office Automation Object. `Syntax` The system must be successfully logged on to the IBM TM1 server. If the path of your folder is not correct when you publish using automation, you are again prompted to log on. For example, you can use `EvaluateSynchronous` to find the nth child of a parent or to determine the parent of a given dimension element. `Syntax` The following string is the syntax for the `SetValue` method. The `Import` File dialog box appears. `String` `SetValue` Example Public Sub `ToggleSetEditorPreview()` Dim `x` = `Reporting.Settings.GetValue("SetEditorPreviewOn")` If `True` = `x` Then `Reporting.Settings.SetValue "SetEditorPreviewOn", "False"` Else `Reporting.Settings.SetValue "SetEditorPreviewOn", "True"` End If End Sub `SetValue` is used to set a new value for a specific setting and save the changes to the settings file. `String` `SlicerHierarchies` Example Sub `RowHierarchies()` Dim `slsers` As String For Each `Slicer` In `cafe.QuickReports.Get(0)`. `SlicerDimensions` If `slsers` "" Then `slsers = slsers & ", " & vbNewLine` End If `slsers = slsers & Slicer.Next MsgBox` "Slicers: " & `slsers` End Sub `SlicerHierarchies` is used to return the hierarchies that exist in the slicers of a Quick Report. Do not import both files, which are application specific. `GetAt(sheet)` Gets the Exploration object on the specified sheet name, from the active book. If it exists, `String` PATH The full (absolute) path of the component that you want to delete. `Data driven` mechanisms, such as `TurbIntegrator` are only concerned with used when rebuilding the Quick Report. `Boolean` `ExecuteQuery` The following string is an example of the `ExecuteQuery` method stored in a VBA module: Public Property Get `GetRowsAxis(query As String)` As Collection `Set c = Reporting.ExecuteQuery(" ", "sData", )` Dim `result` As New Collection For `i = 0` To `BackgroundTasks` are complete. `Reporting.GetCurrentReport()` UseServerFormats = Dynamic Report API functions Dynamic Report functions can be used to interact with Dynamic Report worksheets. `Syntax` The following string is the syntax for the `GetConnection` method. You may modify the script files to meet your particular needs or use them as a reference to create your own programs. `[Revenue]` ON 0, `[plan_time].[plan_time].[2004]` ON 1 FROM `[plan_BudgetPlan]` End Sub `CreateFromMDX` generates an Exploration View based on the host system URL, server name, and MDX string. `Syntax` Reporting.TaskPane.ChangedDataSource "host system URL" "server name" Example `CognosOfficeAutomationObject.ClearAllData` `ClearAllData` clears all data values in the opened workbooks. If `True` is returned, the Task Pane is visible. The samples include script files for scheduling the refresh of documents. `Syntax` The following string is the syntax for the `RefreshBook` method. `String` user name The user name for authentication. `Syntax` The following string is the syntax for the `SetSlicer` method. To use the method, you must know the URL of the host that you want to send REST requests to. `Reporting.Explorations.GetAt()`. `Refresh` `SwapRowsAndColumns` Example Public Sub `SwapRowsAndColumns()` `Reporting.Explorations.GetAt(Application.ActiveSheetName)`. `SwapRowsAndColumns` End Sub `SwapRowsAndColumns` is used to swap the rows and columns in an exploration. `Syntax` The following string is the syntax for the `SetRowSuppression` method. `Syntax` The following string is the syntax for the PUT request. `String` PATH The full (absolute) path of the component that you want to store or update. Public Property Get `CognosOfficeAutomationObject` On Error Go To Handler: Fetch the object if we don't have it yet. `String` array You can include an array of TI process parameters by separating them with commas. `Customize` the ribbon to display the Developer tab. `cafe.QuickReports.Get()` End Sub If your script runs, but nothing happens, it may be a sign that the Planning Analytics for Microsoft Excel add-in is not activated. \* / ( "schema", " title": "IBM Planning Analytics Universal View Specification", "type": "object", "required": [ "MDX"], "additionalProperties": false, "properties": { "MDX": { "type": "string" }, "Meta": { "type": "object", "additionalProperties": true, "properties": { "Aliases": { "type": "object", "additionalProperties": false, "patternProperties": { ".\*\w+\|.\w+\|.\w+": { "type": "string" } }, "ExpandAbove": { "type": "string" } }, "ExpandAbove": { "type": "string" } }, "patternProperties": { ".\*\w+\|.\w+\|.\w+": { "type": "boolean" } }, "oneOf": [ { "required": ["Expression"], "dependencies": { "IsPublic": "SubsetName" } } ] } } } } } You can use a Common View Specification to embed additional state information in your Exploration View or Quick Report. `String` `SetValue` is used to set a value in a setting. Do not edit this code module. `Syntax` The following string is the syntax for the `TraceError` method. `Executing` in batch mode means that all display alerts are turned off. `Procedure` In Microsoft Excel, customize the ribbon to show the Developer tab. For example, using a CVS, you can define aliases and subsets as per the CVS schema input. `Syntax` The following string is the syntax for the `CreateFromMDX` method. `Syntax` The following string is the syntax for the `Select` method. `UnlinkAllData()` Example Application.COMAddIns("CognosOffice12.Connect").Object.AutomationServer.Application("COR", "1.1").UnlinkBook UnlinkBook unlinks the active book from the connection. `Macro` files The macro files for Cognos® Office are written in Microsoft Visual Basic for Applications (VBA). `Syntax` The following string is the syntax for the `GetSpecification` method. You can then call these macros from your code. `Reporting.CustomReports.createfromMDX` " " , " Arguments Argument Description Data type host system URL URL of the host system which the Custom Report is to be created from. By using a CVS, you can generate highly customizable Quick Reports. `String` namespace The specific namespace for authentication. `Syntax` The following string is the syntax for the `Create` method. The installation\_location\Automation\COAutomationExample.xis sample file contains code for `ExecuteFunction`. `CognosOfficeAutomationObject.ClearAllData` Exit Sub HANDLER: '

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