AUTOMATION ANYWHERE

MetaBot – SAP DLL Functions

Document covers the description of SAP MetaBot DLL functions used while working on the Automation Anywhere MetaBot application.

Contents

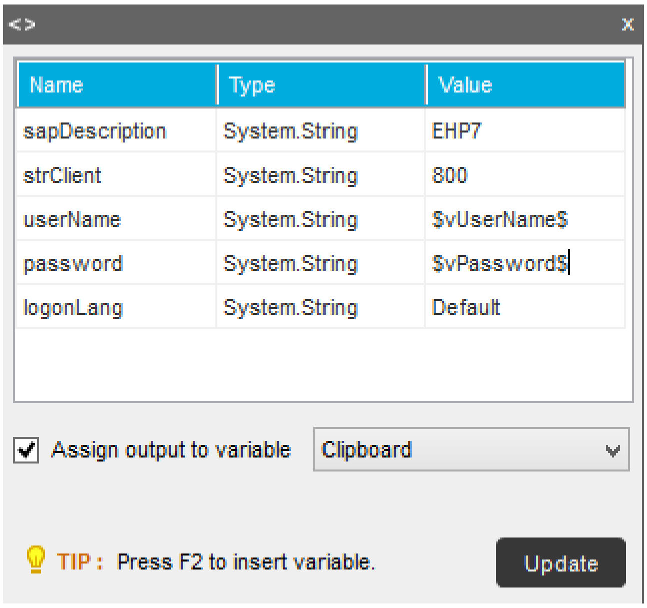
Function 1: LoginWithNewSession

Function Details: Create new session and login into SAP GUI using provided login credentials

Return Type: String

Parameters:

Name	Type	Details
sapDescription	String	Logon Connection Name
strClient	String	Client number configure on SAP server
userName	String	Username to login into SAP GUI
password	String	Password to login into SAP GUI
LogonLang	String	Logon Default Language



Name	Type	Value
sapDescription	System.String	EHP7
strClient	System.String	800
userName	System.String	$vUserName$
password	System.String	$vPassword$
logonLang	System.String	Default

☑ Assign output to variable Clipboard

TIP : Press F2 to insert variable.

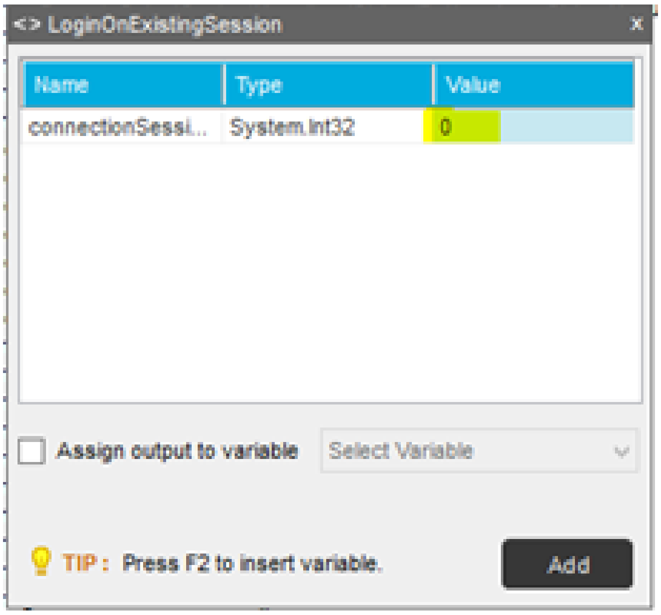
Function 2: LoginOnExistingSession

Function Details: Login into the existing open connection

Return Type: String

Parameters:

Name	Type	Details
ConnectionSessionIndex	int	connection session index, session start from 0



LoginOnExistingSession

Name	Type	Value
connectionSessi...	System.Int32	0

□ Assign output to variable

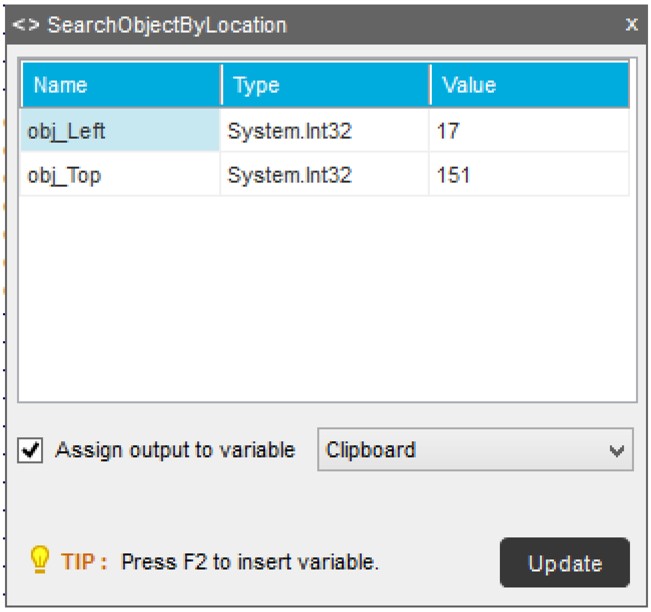
Function 3: SearchObjectByLocation

Function Details: Search SAP object based on location (e.g. left, top)

Return Type: String

Parameters:

Name	Type	Details
Obj_Left	int	Left value of object
Obj_Top	int	Top value of object



<> SearchObjectByLocation

Name	Type	Value
obj_Left	System.Int32	17
obj_Top	System.Int32	151

☑ Assign output to variable: Clipboard

TIP : Press F2 to insert variable.

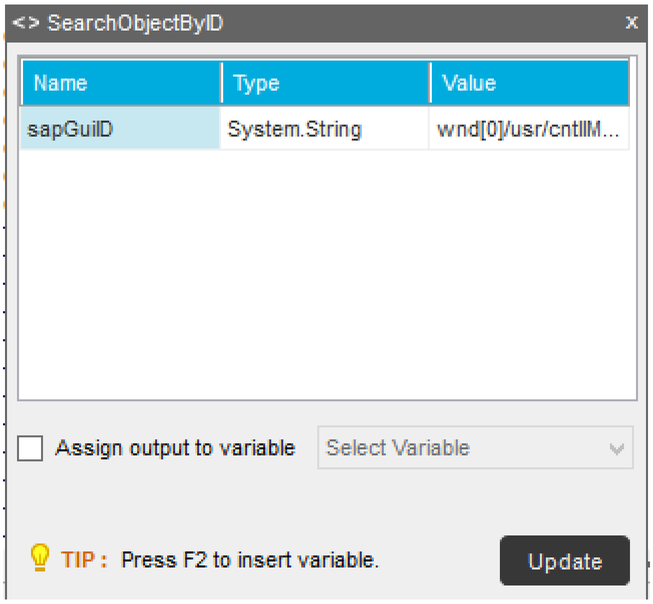
Function 4: SeachObjectByID

Function Details: Search SAP GUI object based on ID

Return Type: String

Parameters:

Name	Type	Details
SAPGUIId	String	SAP GUI ID which user want to search the object



Name	Type	Value
sapGuiID	System.String	wnd[0]/usr/cntlIM...

□ Assign output to variable   Select Variable

TIP : Press F2 to insert variable.

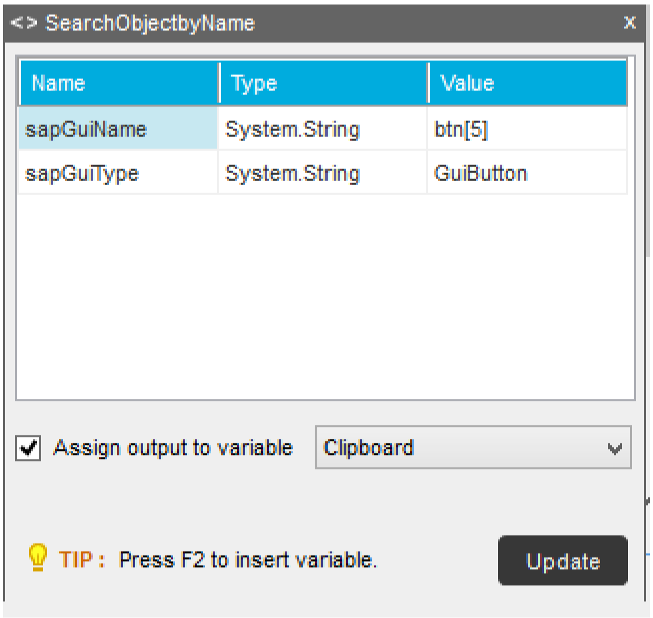
Function 5: SearchObjctByName

Function Details: Search SAP GUI object based on object name and type (e.g. Tree, Combobox, Textbox)

Return Type: String

Parameters:

Name	Type	Details
SAPGUIName	String	Name of an object
SAPGUIType	String	Type of an object (e.g. Textbox, Radio button)



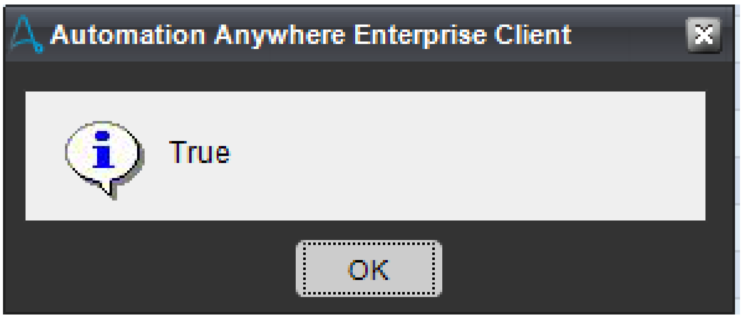
<> SearchObjectbyName

Name	Type	Value
sapGuiName	System.String	btn[5]
sapGuiType	System.String	GuiButton

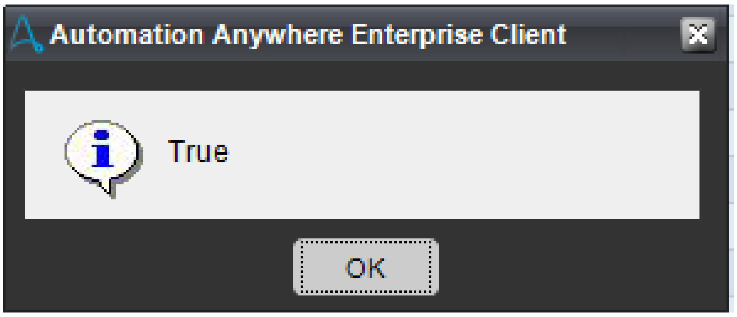
☑ Assign output to variable: Clipboard

TIP : Press F2 to insert variable.

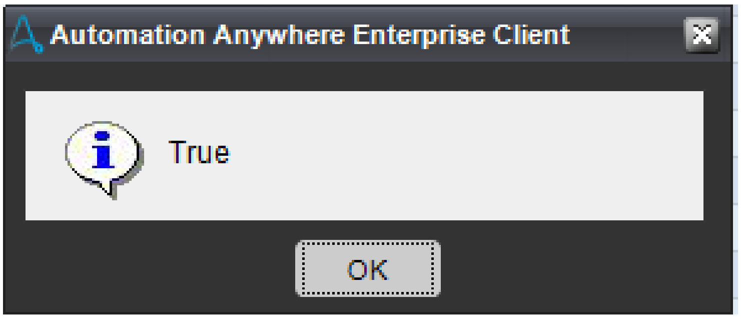
Function 6: ExecuteLeftClick

Function Details: Execute left-click action on the searched object	Output when **left click** is performed:  True
Return Type: Bool	
Note: No parameter required	

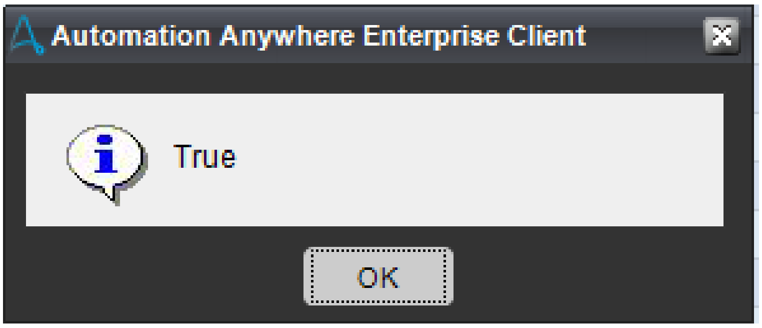
Function 7: ExecuteRightClick

Function Details: Execute right-click action on the searched object	Output when **right click** is performed:  Automation Anywhere Enterprise Client True
Return Type: Bool	
Note: No parameter required	

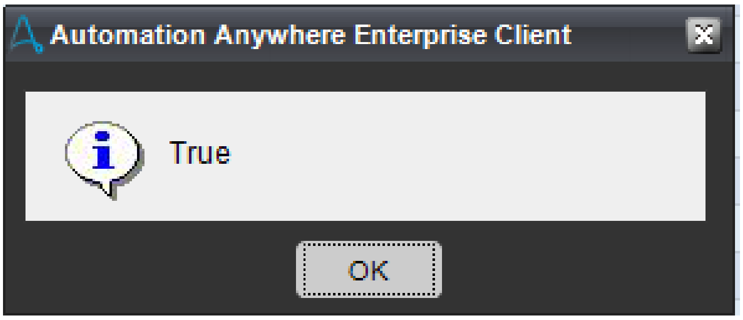
Function 8: ExecuteDoubleClick

Function Details: Execute double-click action on the searched object	Output when **double-click** is performed on the object located by the function SearchObjectById():  True
Return Type: Bool	
Note: No parameter required	

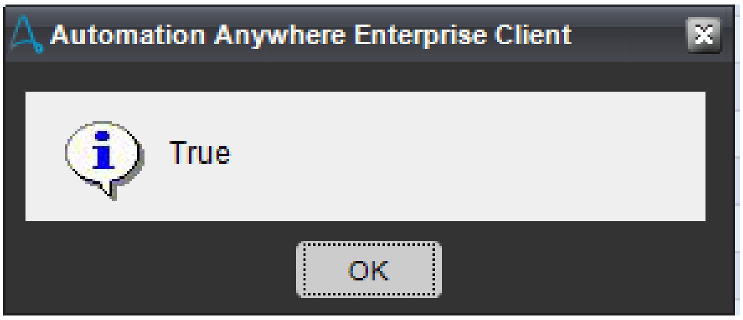
Function 9: ExecutePressButton

Function Details: Execute press button action on the searched object	Output when **press button action** is performed:  Automation Anywhere Enterprise Client True
Return Type: Bool	
Note: No parameter required	

Function 10: ExecuteClick

Function Details: Execute click action on the searched object	Output when **click** is performed:  Automation Anywhere Enterprise Client True
Return Type: Bool	
Note: No parameter required	

Function 11: ExecuteSelectAction

Function Details: Execute select action on the searched Combo-Box or list view control based on Index	Output when **select action** is performed:  True
Return Type: Bool	
Note: No parameter required	

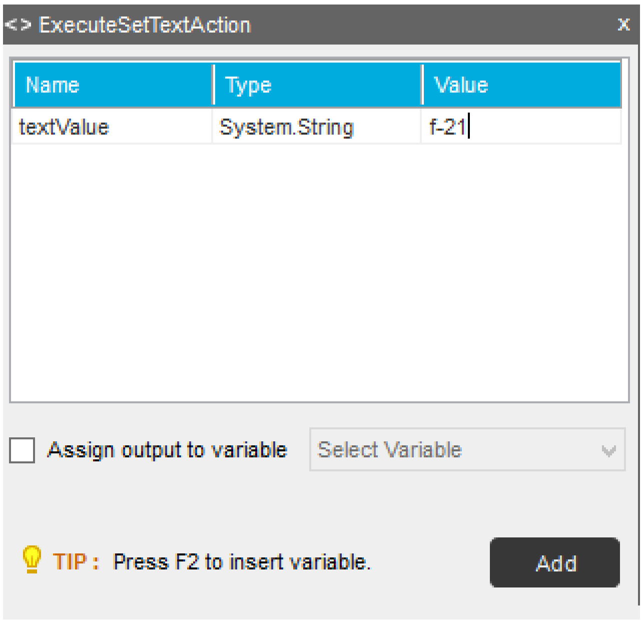
Function 12: ExecuteSetTextAction

Function Details: Execute Set Text action on the searched Text-Box control

Return Type: Bool

Parameters:

Name	Type	Details
Textvalue	String	Text to set into the textbox



Name	Type	Value
textValue	System.String	f-21

□ Assign output to variable Select Variable

TIP : Press F2 to insert variable.

Function 13: ExpandNode

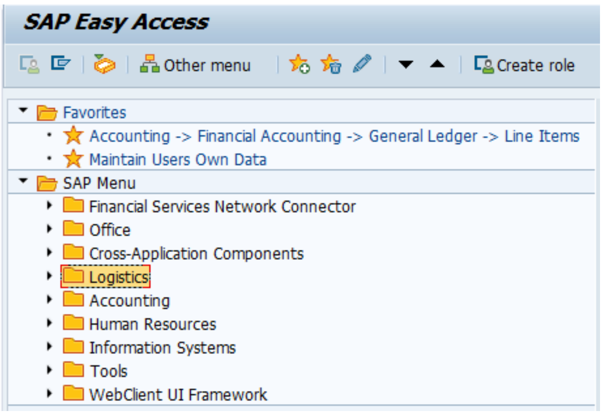
Function Details: Expand a node from the tree view

Return Type: String

Parameters:

Name	Type	Details
NodePath	String	Enter node path (e.g. 2\1\4\1)

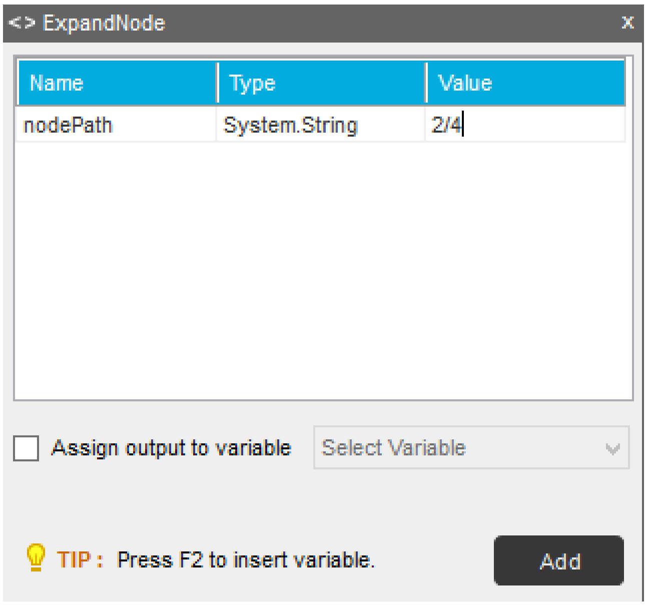
For example:



SAP Easy Access

- Favorites
  - Accounting -> Financial Accounting -> General Ledger -> Line Items
  - Maintain Users Own Data
- SAP Menu
  - Financial Services Network Connector
  - Office
  - Cross-Application Components
  - Logistics
  - Accounting
  - Human Resources
  - Information Systems
  - Tools
  - WebClient UI Framework

Use the **ExpandNode** function to expand the highlighted “Logistic” node in the above image, and enter the node value from the root.



<> ExpandNode

Name	Type	Value
nodePath	System.String	2/4

☐ Assign output to variable   Select Variable

TIP : Press F2 to insert variable.

Function 14: SelectNode

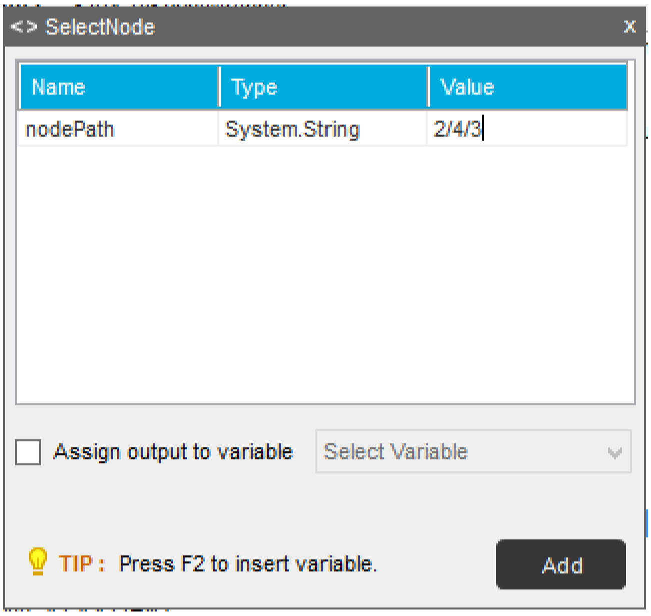
Function Details: Select a node from the tree view

Return Type: String

Parameters:

Name	Type	Details
NodePath	String	Enter node path (e.g. 2\1\4\1)

For example:
Use the **SelectNode** function to select “Logistics Execution” node after expanding “Logistics” node, and enter the node value from the root.



Name	Type	Value
nodePath	System.String	2/4/3

TIP : Press F2 to insert variable.

Function 15: GetTotalRows

Function Details: Get total rows of the table
Return Type: String
Note: No parameter required

Function 16: GetTotalColumns

Function Details: Get total columns of the table
Return Type: String
Note: No parameter required

Function 17: SetSelectall

Function Details: Select the entire Table Data
Return Type: String
Note: No parameter required

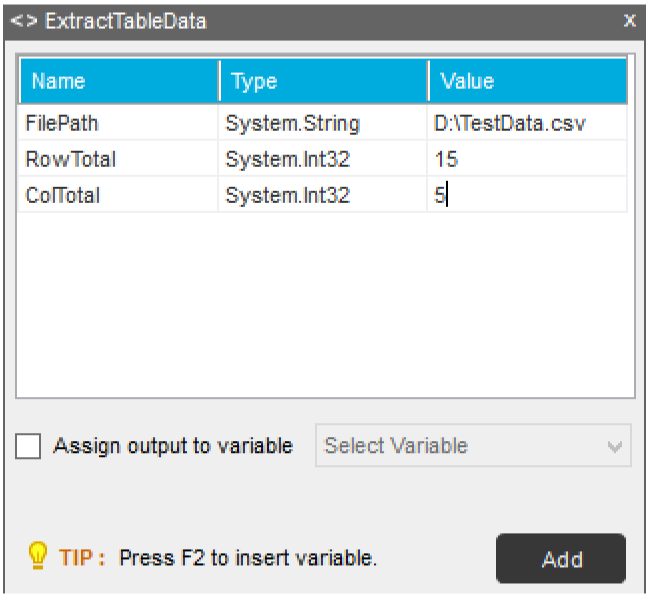
Function 18: ExtractTableData

Function Details: Extract table data into CSV file

Return Type: String

Parameters:

Name	Type	Details
CSVPath	String	CSV File path
RowTotal	String	Number of rows you want to extract
ColumnTotal	String	Number of columns you want to extract



<> ExtractTableData

Name	Type	Value
FilePath	System.String	D:\TestData.csv
RowTotal	System.Int32	15
ColTotal	System.Int32	5

□ Assign output to variable

TIP : Press F2 to insert variable.

Function 19: ExecuteGetTextAction

Function Details: Get text value for the searched GUI Control
Return Type: String
Note: No parameter required

Function 20: ExecuteEnterkey

Function Details: Execute SAP submit action
Return Type: String
Note: No parameter required

Function 21: SetFocus

Function Details: Set focus on the SAP GUI Object
Return Type: String
Note: No parameter required

Function 22: ExecuteMaximize

Function Details: Maximize the SAP window
Return Type: String
Note: No parameter required

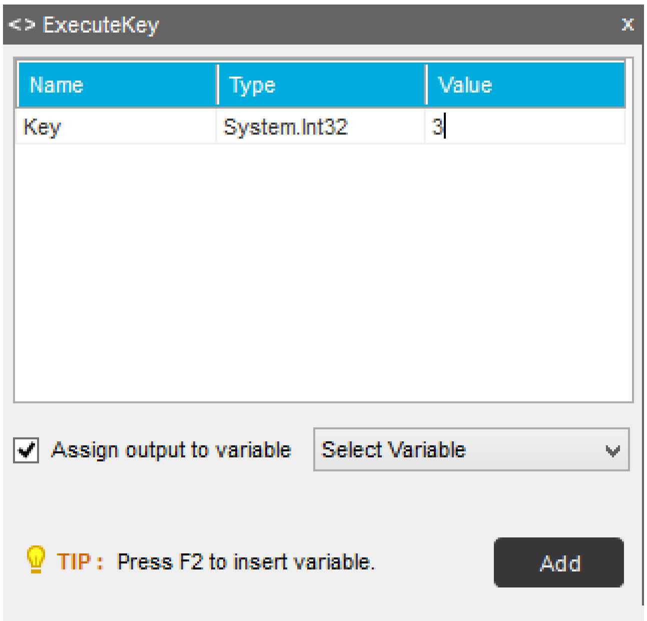
Function 23: ExecuteKey

Function Details: Execute key into the SAP Application

Return Type: String

Parameters:

Name	Type	Details
Key	Int	Key code which user want to perform



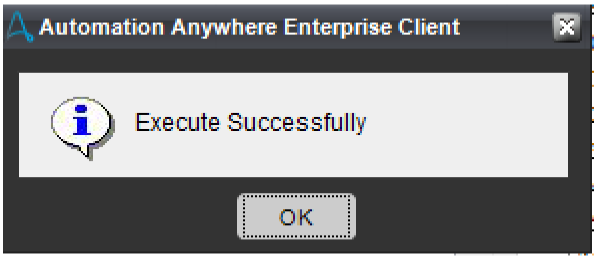
<> ExecuteKey

Name	Type	Value
Key	System.Int32	3

☑ Assign output to variable: Select Variable

TIP : Press F2 to insert variable.

Output when **key action** is performed:



Automation Anywhere Enterprise Client

Execute Successfully

Function 24: ExecuteCheckAction

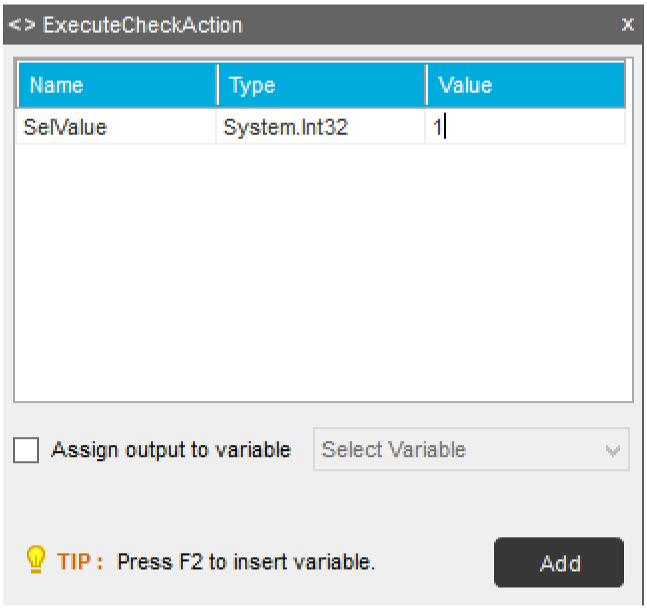
Function Details: Select check boxes or radio buttons

Return Type: Bool

Parameters:

Name	Type	Details
SelValue	Int	1 for True or 0 for False

True: Enter the value as 1
False: Enter the value as 0



<> ExecuteCheckAction

Name	Type	Value
SelValue	System.Int32	1

□ Assign output to variable

TIP : Press F2 to insert variable.

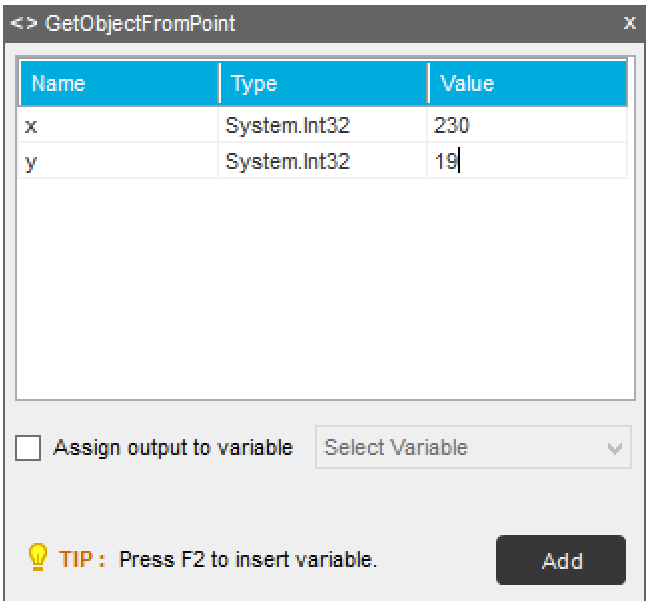
Function 25: GetObjectFromPoint

Function Details: Get SAP GUI object based on the co-ordinates

Return Type: String

Parameters:

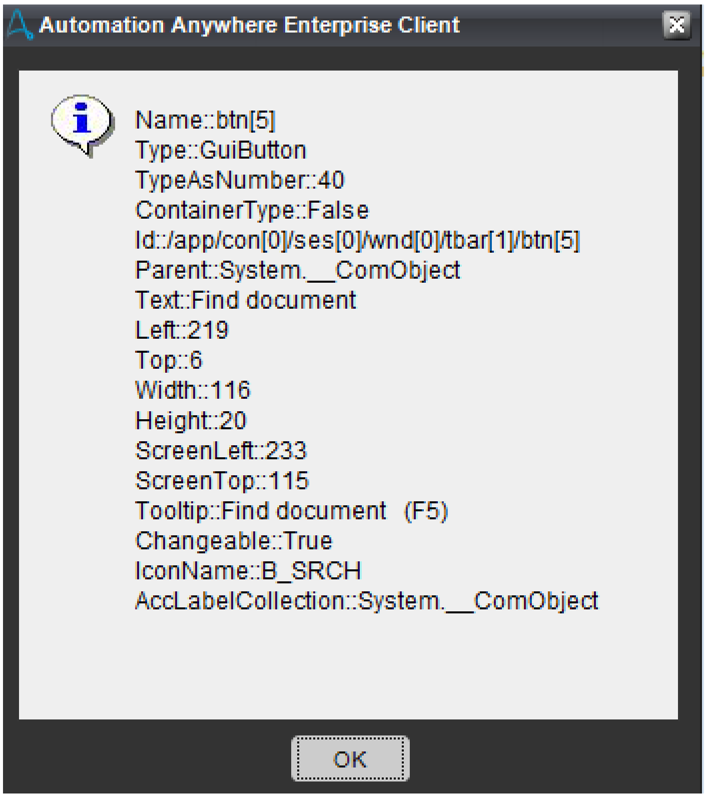
Name	Type	Details
X	Int	X co-ordinate
Y	Int	Y co-ordinate



Name	Type	Value
x	System.Int32	230
y	System.Int32	19

□ Assign output to variable

Function 26: GetAllSAPObjectProperties

Function Details: Collect all properties of the SAP GUI object	Output when **this function** is performed:  Name::btn[5] Type::GuiButton TypeAsNumber::40 ContainerType::False Id::/app/con[0]/ses[0]/wnd[0]/tbar[1]/btn[5] Parent::System.__ComObject Text::Find document Left::219 Top::6 Width::116 Height::20 ScreenLeft::233 ScreenTop::115 Tooltip::Find document (F5) Changeable::True IconName::B_SRCH AccLabelCollection::System.__ComObject
Return Type: String	
Note: No parameter required	

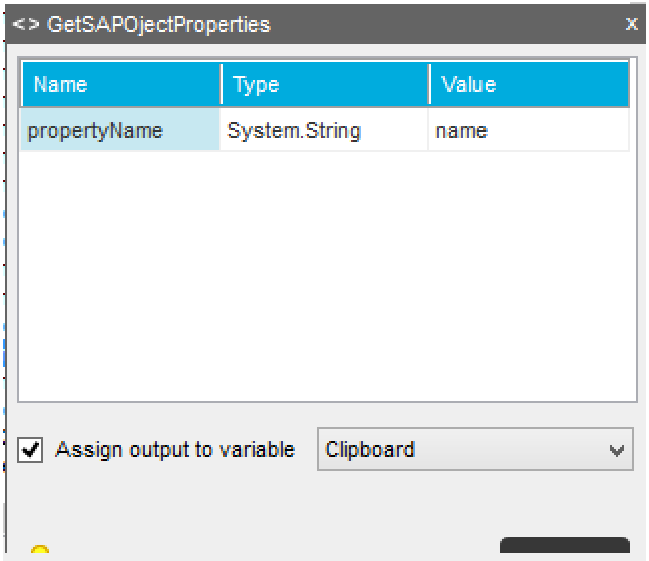
Function 27: GetSAPObjectProperties

Function Details: Collect specific object properties value

Return Type: String

Parameters:

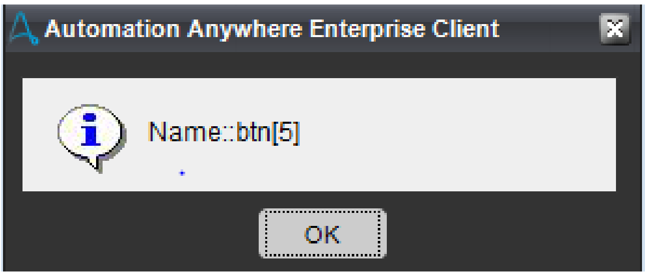
Name	Type	Details
ProerptyName	String	SAP Object Property name which user wants to get.



Name	Type	Value
propertyName	System.String	name

☑ Assign output to variable Clipboard

Output when **this function** is performed (selected object's name is stored into variable):



Name::btn[5]

Function 28: DisConnectSAPSession

Function Details: Disconnect session from GUI Scripting
Return Type: Bool
Note: No parameter required

Function 29: CloseAndDisConnectAllExistingSession

Function Details: Close All Open SAPGUI Session and windows
Return Type: Bool
Note: No parameter required