



Open2Test Test Automation Framework Keyword Naming Conventions for Developers (.NET) - TestPartner

Version 1.0

July 2009

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1. Purpose of the Document

This document provides the naming conventions followed in the Open Source Test Automation Framework for DotNET Technology.

2. Keyword Naming Conventions

2.1. Naming Convention used for Keywords

1. **LaunchApp**

'LaunchApp' is used to launch the application under test (AUT). This keyword triggers the driver script to launch the application either from a specified folder (the location of which is specified in the third column) or, if the application is already synchronized with Microfocus TestPartner, then this automatically launches the application from the location specified in TestPartner.

2. **Context**

'Context' is used only on a window or a dialog object. This keyword brings a particular window or dialog to the current context so that any operation can be performed on that particular window or dialog.

3. **Perform**

'Perform' is used to perform an operation on a particular object (ex: clicking on a button, closing an open window, or typing some text in a textbox). This keyword should be entered in the corresponding row in the second column if any such operations are to be performed.

4. **Check**

'Check' is used to check if the required property of a particular object is attained at runtime. This is a type of validation step (expected result).

5. **Condition**

'Condition' is used to compare two variables, checking properties, existence of windows, etc.

6. **CallFunction**

'Call Function' is used to call an external user defined functions. The function can have one or more arguments.

7. **Storevalue**

'Storevalue' is used to store the property values of different objects in different environment variables. These environment variables can later be used as input parameters in various functions and also in scripts.

8. **PressKey**

'Press Key' is used to pass hot keys such as Enter, F3, F10, Ctrl-S, etc.

9. **Msgbox**

'Msgbox' is used for debugging to display the contents of a variable.

10. **Report**

'Report' is used for customized reporter events. It is displayed in the Result Sheet. The report can be of 4 types: i) Pass, ii) Fail.

11. Strsearch

'Strsearch' is used to search for a 'sub string' inside a 'main string'.

12. Strreplace

'Strreplace' is used for replacing a 'sub string' inside a 'main string' with a new 'sub string'.

13. Strconcat

'Strconcat' is used to concatenate any number of strings with each other.

14. Wait

'Wait' is used to place static waits in the keyword script.

15. Arith

'Arith' is used to perform the arithmetic operations on the variables.

16. Assignvalue

'Assignvalue' is used to assign dynamically generated values from the application to environment variables.

17. Callaction

'Callaction' is used to call another linear script or Keyword Scripts.

18. Loop

'Loop' is used to loop a set of actions given in the datatable.

19. convert

'Convert' is used to typecast from one data type to another.

20. Function

'Function' is used to perform FSO (file system object) operations such as creating a folder in a specified path, creating a file in a specified path, etc.

2.2. Naming Conventions used for Objects

The table below provides the naming conventions followed for different Window objects in the Open Source Test Automation Framework.

Sl.No	.NET Object Class	Naming Conventions used in the Open Source Test Automation Framework
1.	Window	Window
2.	DotNETButton	Button
3	DotNETForm	Form
4.	DotNETCheckBox	Checkbox

5.	DotNETListBox	Listbox
6.	DotNETEditBox	Textbox
7.	DotNETRadioButton	Radiobutton
8.	DotNETLabel	Label
9.	DotNETToolBar	Toolbar
10.	DotNETTreeView	Treeview
11.	DotNETListView	Listview
12.	DotNETMenuStrip	Menu
13.	DotNETCalendarControl	Calendar
14.	DotNETTableLayoutPanel	Tabel
15.	DotNETPropertyGrid	Propertygrid
16.	DotNETStatusBar	Statusbar
17.	DotNETScrollBar	Scrollbar
18.	DotNETTabControl	Tab
19.	ActiveX	ActiveX
20.	DotNETCombobox	Combobox
21.	DotNETPanel	Panel
22.	DotNETLinkLabel	Linklabel
23.	DotNETBindingNavigator	Bindingnavigator
24.	Object	Object

Table 1: Naming Conventions Used for Objects

2.3. Naming Conventions Used for Actions

1. Click

'Click' is used to perform the click operation on objects. It is used with the perform keyword in keyword scripts (ex. clicking a button).

2. Activate.

'Activate' is used for activating the Current window to perform other actions on the window. It is used with the perform keyword in keyword scripts. (Ex: Close, Maximize, Minimize, etc).

3. Attach.

'Attach' is used for activating the DotNet Object. Like Button, Form, Listbox, Combobox, etc. It is used with the perform keyword in keyword scripts.

4. **Clear**

'Clear' is used to clear the specified text form the Editbox control. It is used with the perform keyword in keyword scripts.

5. **Close**

'Close' is used to perform the close operation on any open objects. It is used with the perform keyword in keyword scripts (ex. closing a Window, Dialog, etc).

6. **Menuselect :< menuitem(1)~menuitem(2)..>**

'Menuselect' is used for selecting a specified menu item from the window. It is used with the perform keyword in keyword scripts

7. **Maximize**

'Maximize' is used to perform the Maximize operation on any open objects. It is used with the perform keyword in keyword scripts.

8. **Minimize**

'Minimize' is used to perform the Minimize operation on any open objects. It is used with the perform keyword in keyword scripts.

9. **Restore**

'Restore' is used to perform the Restore operation on any open objects. It is used with the perform keyword in keyword scripts.

10. **Select:<name/Item>**

'Select' is used to select an item from Combobox, Listbox, Treeview, Listview, or Tab. It is used with the perform keyword in keyword scripts.

11. **Selectindex:<index>**

'Selectindex' is used to select an item from a Tab or Combobox. It is used with the perform keyword in keyword scripts.

12. **Set:<Text>**

'Set' is used to assign a value to an edit field. It is used with the perform keyword.

13. **Type:<Value>**

'Type' is used to assign a value to an edit field. It is used with the perform keyword.

14. **Type:<Item>**

'Type' is used to select an item from Combobox. It is used with the perform keyword.

15. **Setdate:Date/Now/<Date>**

This sets the current system date (Date)/ current system date and time

(Now)/specified date(<date>) to the Calendar object. It is used with the perform keyword in keyword scripts.

16. **SetTime:Now/<Time>**

This sets the current system Time (Now)/specified time(<Time>) to the Calendar object. It is used with the perform keyword in keyword scripts.

17. Set

This is used to select a Radio Button. It is used with the perform keyword in Keyword scripts.

18. Checked:<True/False>

This is a Check operation that is used to verify whether a Radio Button is selected or not.

19. Checked:<True/False>

This is a Check operation that is used to verify whether a Checkbox is checked or not.

20. Enabled:<True/False>

This is a Check operation that is used to verify whether the given window object is enabled or not.

21. Exist:<True/False>

This is a Check operation that is used to verify whether the window object whose name is specified exists or not.

22. Focused:<True/False>

This is a Check operation that is used to verify whether the object is focused or not.

23. ItemCount:<Item>

This is a Check operation that is used to verify the number of items present or not in a window object.

24. Text:<text/#Variable Name>

This is a Check operation that is used to verify whether the required text is present or not in the object.

25. Prop_name:<variable name>

This is used to store the property value in the specified variable. It is used with storevalue keyword.

26. Windowtext: <Text>:<True/False>

This is a Check operation that is used to verify whether a windows text is present or not in the window object.

27. Check

This is used to select the Checkbox. It is used with the perform keyword.

28. Uncheck

This is used to deselect the Checkbox. It is used with the perform keyword.

29. ItemExist:<Item name>

This is a Check operation that is used to verify whether an item is present or not in the window object.

30. Doubleclick

'Doubleclick' is used to perform the doubleclick operation on objects. It is used with the perform keyword in keyword scripts.

31. **Press:<name>**
This is a Perform operation to Click on the specified toolbar item.
32. **Expand:<Item name>**
This is used to expand the treeitem specified. It is used with the perform keyword in keyword scripts.
33. **ExtendSelect:<name_of_the_item>**
'Extendselect' is used to select an additional item form the listbox or listview. It is used with the perform keyword in keyword scripts.
34. **Extendselectindex:<index_value_of_the_item>**
'Extendselectindex' is used to select an additional item from a Tab or Combobox. It is used with the perform keyword in keyword scripts.
35. **<conversiontype>:<variable name>:<format type>**
This is used to convert a variable from one data type to another.
36. **Collapse:<name>**
This is used to collapse the treeitem specified. It is used with the perform keyword in keyword scripts.
37. **SelectRange:<item name1>:<item name2>**
This is used to select the range of items in a listview.
38. **Create;<Folder Path/Name>/<File Path/Name>**
This is used to create a folder/file in the specified path.
39. **Delete;<Folder Path/Name>/<File Path/Name>**
This is used to delete a folder/file in the specified path.
40. **Copy;<Source Path/Name>;<DestinationFolder Path/Name>/<Source File Path/Name>;<Destination Folder Path>**
This is used to copy a folder/file from source to destination path specified.
41. **Move;<Source Path/Name>;<DestinationFolder Path/Name>/<Source File Path/Name>;<Destination Folder Path>**
This is used to move a folder/file from the source to the destination path.
42. **Write;<File Path/Name>;<The value to be entered>**
This is used to write the file with the data mentioned in the specified path.
43. **Read;<File Path/Name>;<Variable to store data from file>**
This is used to read the contents of a mentioned file and store the values in the specified variable.
44. **Append;<File Path/Name>;<text to be appended to file>**
This is used to append the data specified with the data contained in the file.
45. **Sqlexecute;<query>**
'sqlexecute' is used for executing the specified SQL query in the database. The Server name, username and password have to be

mentioned along with the query. It is used with the perform keyword in keyword scripts.

46. Sqlvaluecapture; <query>

'Sqlvaluecapture' is used for capturing the data from the database object by executing the specified query and storing it in the variable. The Server name, username and password have to be mentioned along with the query. It is used with the perform keyword in keyword scripts. (Ex: Capture the database value present in employee_name column of employee table and store it in variable "ename").

47. Sqlmultiplecapture; <query>

'Sqlmultiplecapture' is used for capturing multiple data from the database object by executing the specified query and storing it in the variable. The Server name, username and password have to be mentioned along with the query. It is used with the perform keyword in keyword scripts.

48. Sqlcheckpoint; <query>

'Sqlcheckpoint' is used for capturing the data from the database and comparing it with the expected value. It is used with the perform keyword in keyword scripts.

2.4. Naming Conventions used for Variables

- To store the property value of an object, an environment variable is used.

Example:

Storevalue	Textbox; <textbox name>	Prop_name: <varName>
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Here, the value in the textbox is stored to a variable 'varName'

- To assign a value to a field from a variable, the variable should be preceded by '#'.

Perform	Textbox;<textbox name>	Set:#varName
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Here, the value stored in varName is assigned to the textbox.

Note: Variable naming standards to be followed are shown below.

2.5. Naming Convention used for Datatable

To input a value to a field from a Datatable, the Naming convention used is **dt**.

Example:

Perform	Textbox;<textbox name>	Set: dt_<Parameter>
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Here the 'dt' signifies to take the value from the datatable from the column "Parameter".

2.6. Naming Convention used for Environment

To input a value to a field from an environment variable, the naming convention used is **env**.

Example:

Perform	Textbox;<textbox name>	Set: env_<VarName>
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Here, the 'env' signifies to take the value from the environment variable 'VarName'.

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