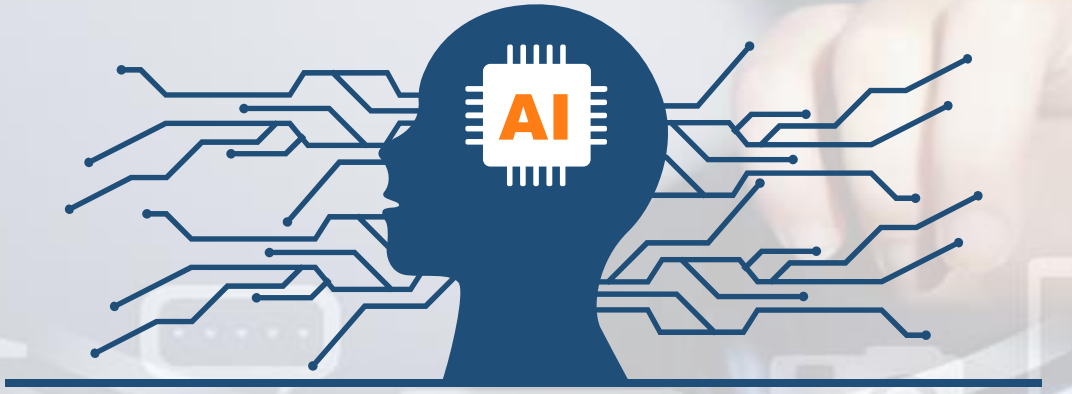
eZAutomate Static Data Parameterization

Product Quality | Operational Efficiency | Test Infrastructure Utilization



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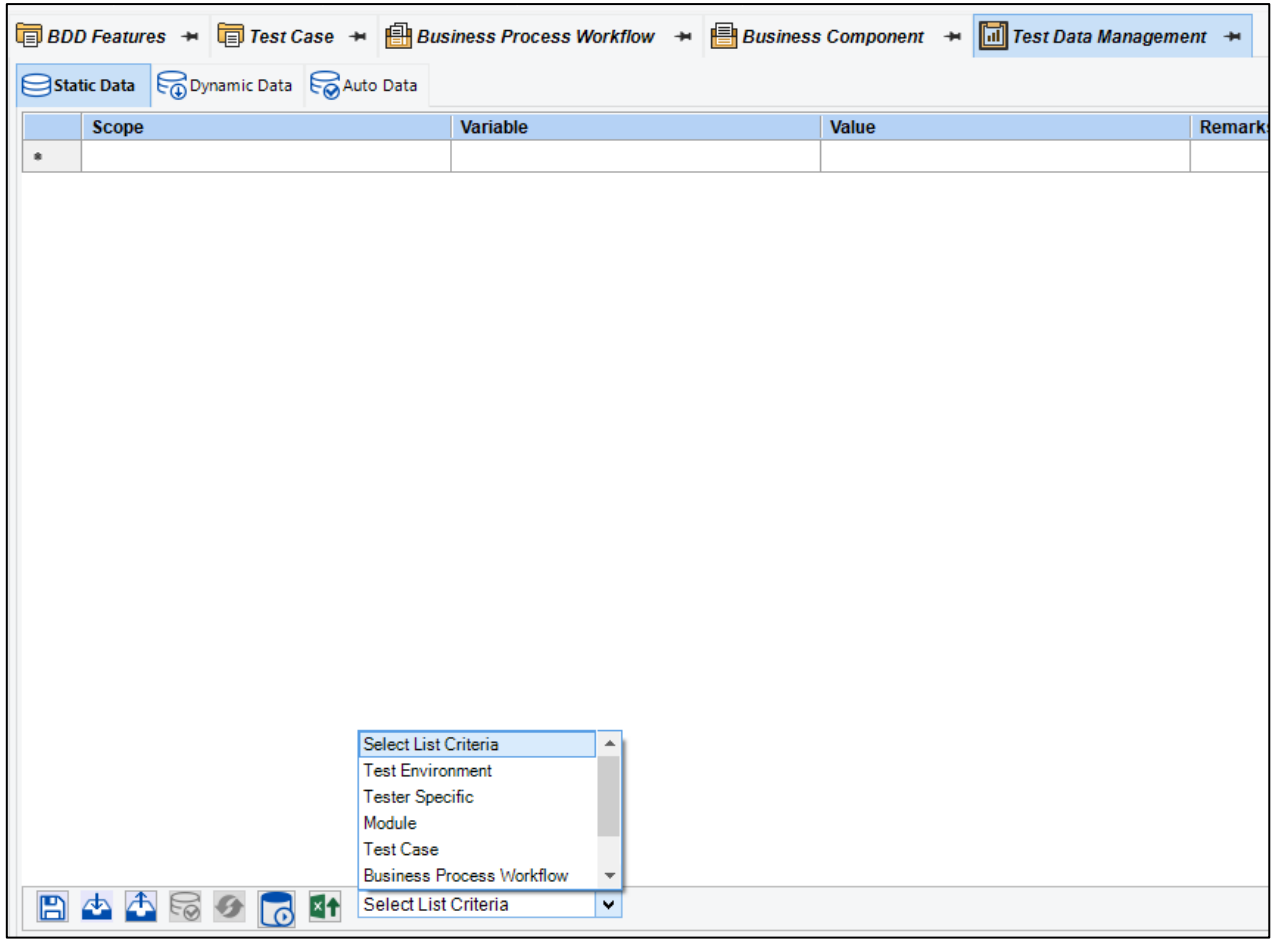
Levels of Static Data Parameterization

- Static Data Parameterization can be implemented on Static Variables (Static variable are those whose value will remain same/fixed). This can be done by saving data into database or by saving data into excel sheet.
- In eZAutomate, there are various level for Static Data Parameterization:

    1. Test Environment
    2. Tester Specific
    3. Module
    4. Test Case
    5. Business Process Workflow
    6. Business Component

Note: Static variables are represented within angular brackets in Keyword Script Table <>.



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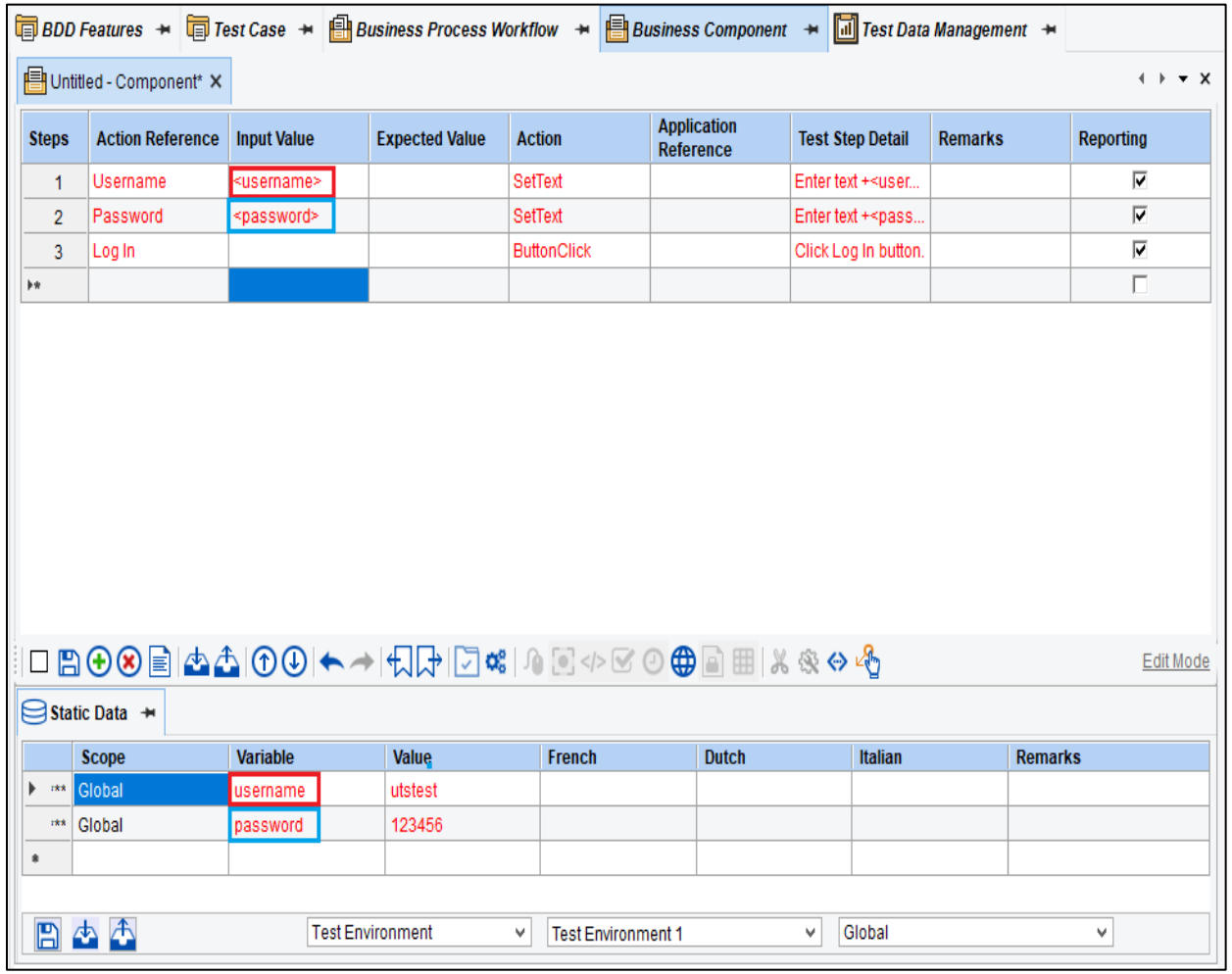
Static Variable Parameterization

Parameterizing static variable:

- Open business component and identify the **Input Value** on which to use static variables.
- Create static variable:
  - Go to **Select List Criteria** and select correct criteria.
  - On the second tab choose the correct criteria name.
  - On the third tab select the scope.
  - In **Variable** column type the name of variable and in **Value** column type the value of the variable.
  - In case AUT is a multilingual application, type the equivalent of **Value** in other languages in respective language column.
  - Click on **Save** to save the defined variables and its values.
- After defining the static variable, key in the variable name in **Input Value** of Keyword Script Table.



Note: Same steps are followed to parameterize static variables of all levels

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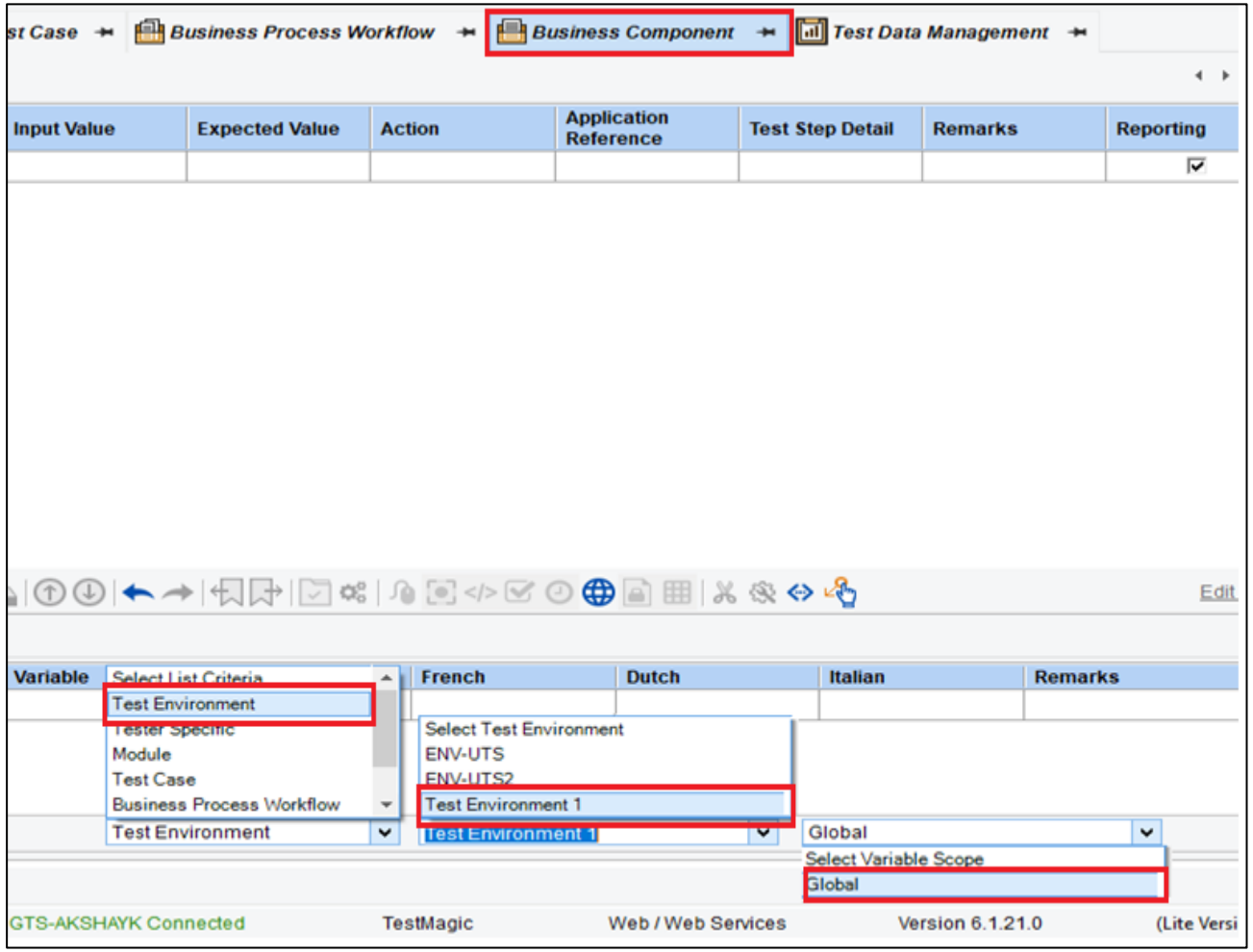
Create Static Variable - Test Environment

Steps to create **Test Environment** level variable:

- In the **Static Data** tab of Business Component screen, select **Test Environment** from the **Select List Criteria** drop-down.
- In **Select Test Environment** list, select the particular test environment created under the project.
- In the **Select Variable Scope** drop-down, select **Global** or any TestCase.
  - Global- Variable declared as global can be used by all TestCases under the selected test environment
  - Test Case- Variable declared as test case specific can be used only in the selected TestCase under the selected test environment.
- Execute TestCases in various testing environments like QA, Pre-Production, UAT etc. For each environment designate different data parameters.
- In eZAutomate, same script is used on different environment levels.



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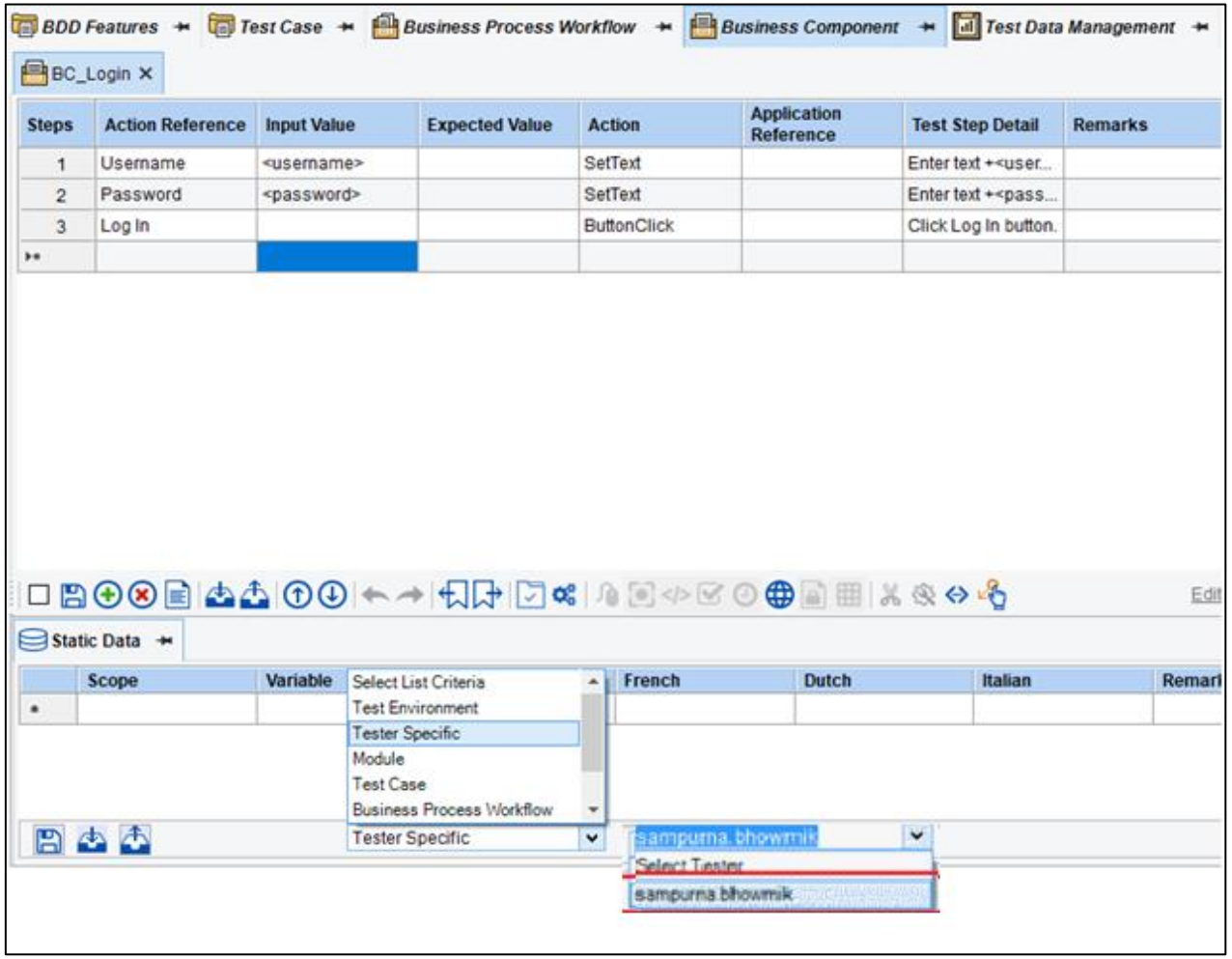
Create Static Variable - Tester Specific

Steps to create **Tester Specific** level variable:

- In the **Static Data** tab of Business Component screen, select **Tester Specific** from the **Select List Criteria** drop-down.
- In **Select Tester** list, select the particular tester, with which you want to associate the data.
- In the **Select Variable Scope** drop-down, select **Global** or any TestCase. (These TestCases are only those which are assigned to the tester you have selected)
    - Global - Variable declared as global can be used by all test cases for the selected tester.
    - TestCase - Variable declared as TestCase specific can be used only in the selected TestCase for the selected tester.
- Execute TestCases under various tester credentials. For each tester designate different data parameters.



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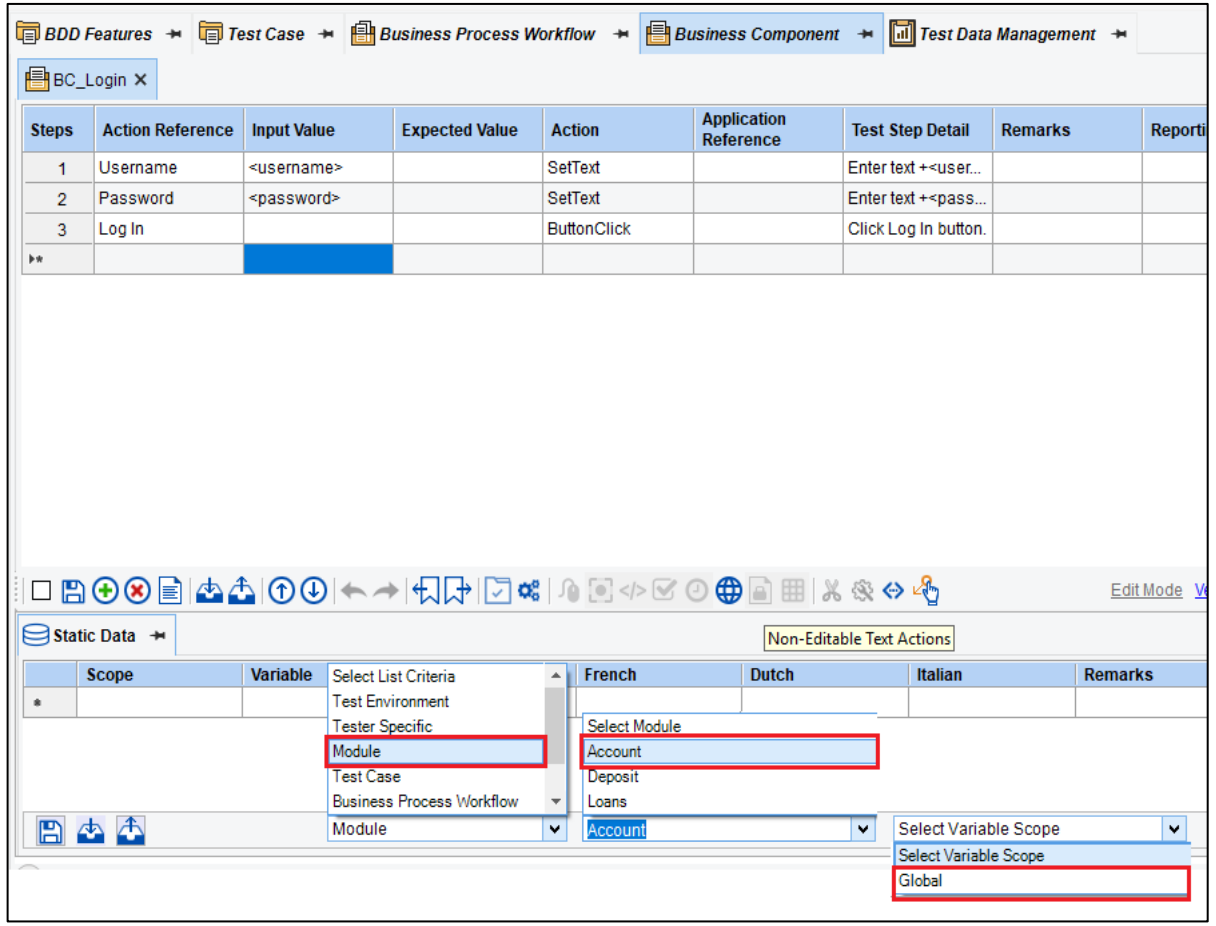
Create Static Variable - Module

Steps to create **Module** level variable:

- In the **Static Data** tab, select **Module** from the **Select List Criteria** drop-down.
- In **Select Module** list, select the module name from the list of already created modules under that project, with which you want to associate the data.
- Execute same TestCase with different module references. For each module designate different data parameters.



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Create Static Variable - Test Case

Steps to create **Test Case** level variable:

- In the **Static Data** tab, select **Test Case** from the **Select List Criteria** drop-down.

- In **Select Test Case** list, select the TestCase name with which you want to associate the data. These TestCases will be those which are present under the project.

    - Specific Test Case- Variable declared under any specific TestCase can be used only in that selected TestCase.

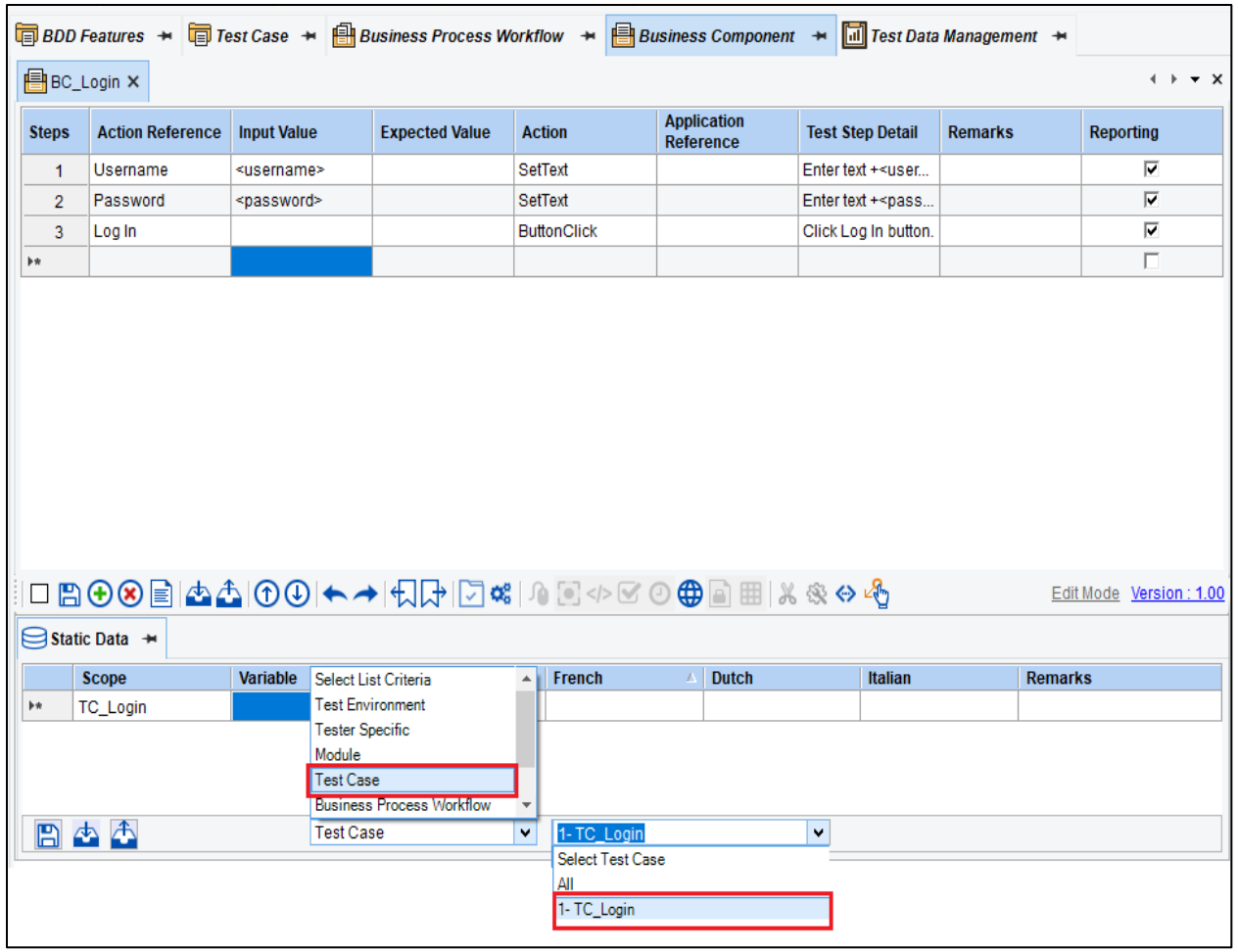
    - All option will display all the TestCase level variables with respective scope.

Example:

A static variable is defined with TestCase scope ‘TC1’ and is referred in a Business Component.

Assuming this Business Component is a part of a Business Process Workflow which in turn is associated with of two TestCases ‘TC1’ & ‘TC2’.

During Execution, the variable will be active only in ‘TC1’ and not in ‘TC2’.



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Create Static Variable - Business Process Workflow

Steps to create **Business Process Workflow** level variable:

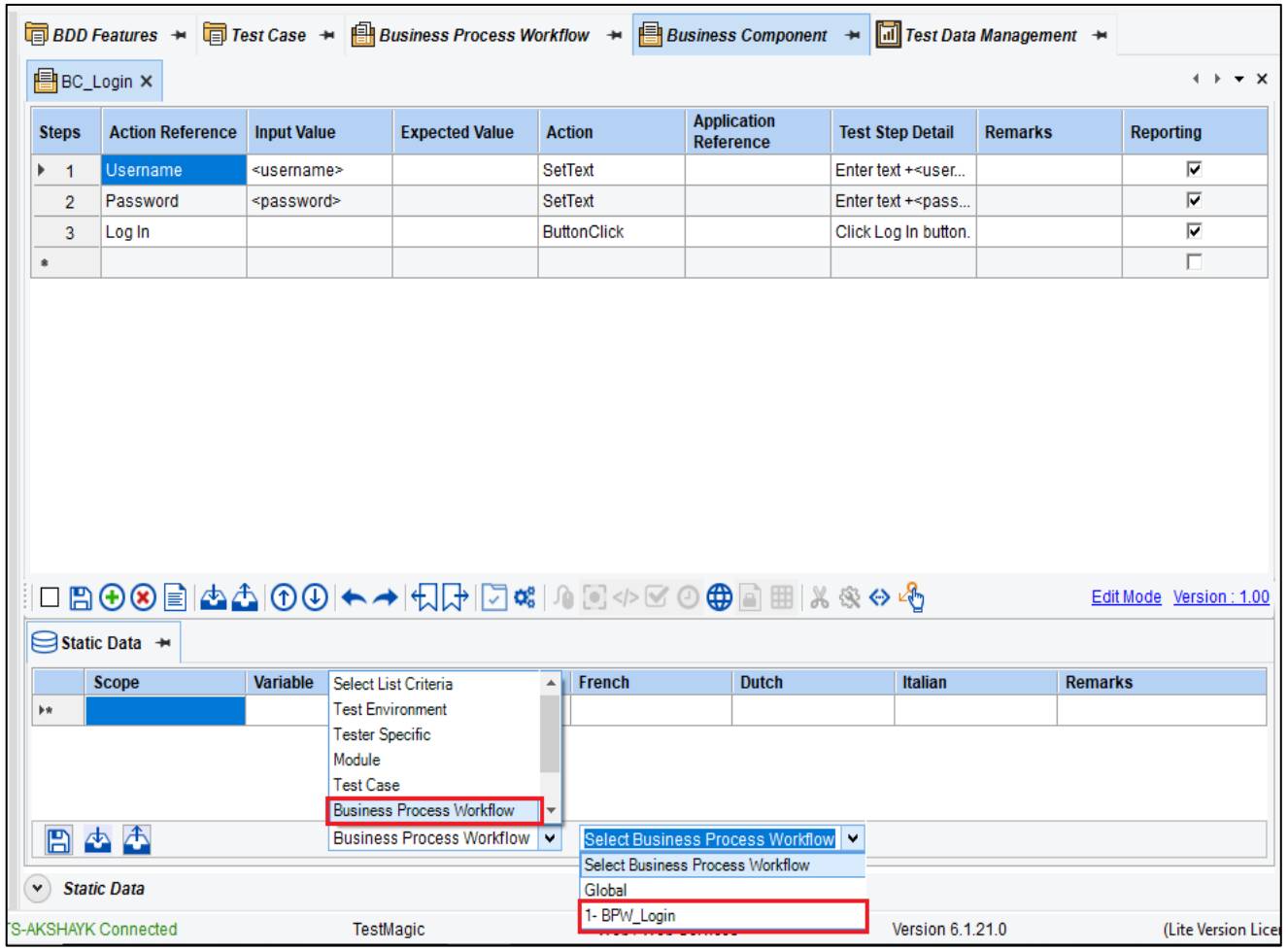
- In the **Static Data** tab, select **Business Process Workflow** from the **Select List Criteria** drop-down.
- In **Select Business Process Workflow** list, all BPWs under that project will occur, select the desired BPW.
    - Variable declared as Business Process Workflow specific can be used only in selected BPW.

Example:

A static variable is defined with Business Process Workflow scope ‘BPW1’ and is referred in a Business Component.

Assuming this Business Component is associated with two BPWs- ‘BPW1’ & ‘BPW2’

During execution, the variable will be active only in ‘BPW1’ and not in ‘BPW2’.



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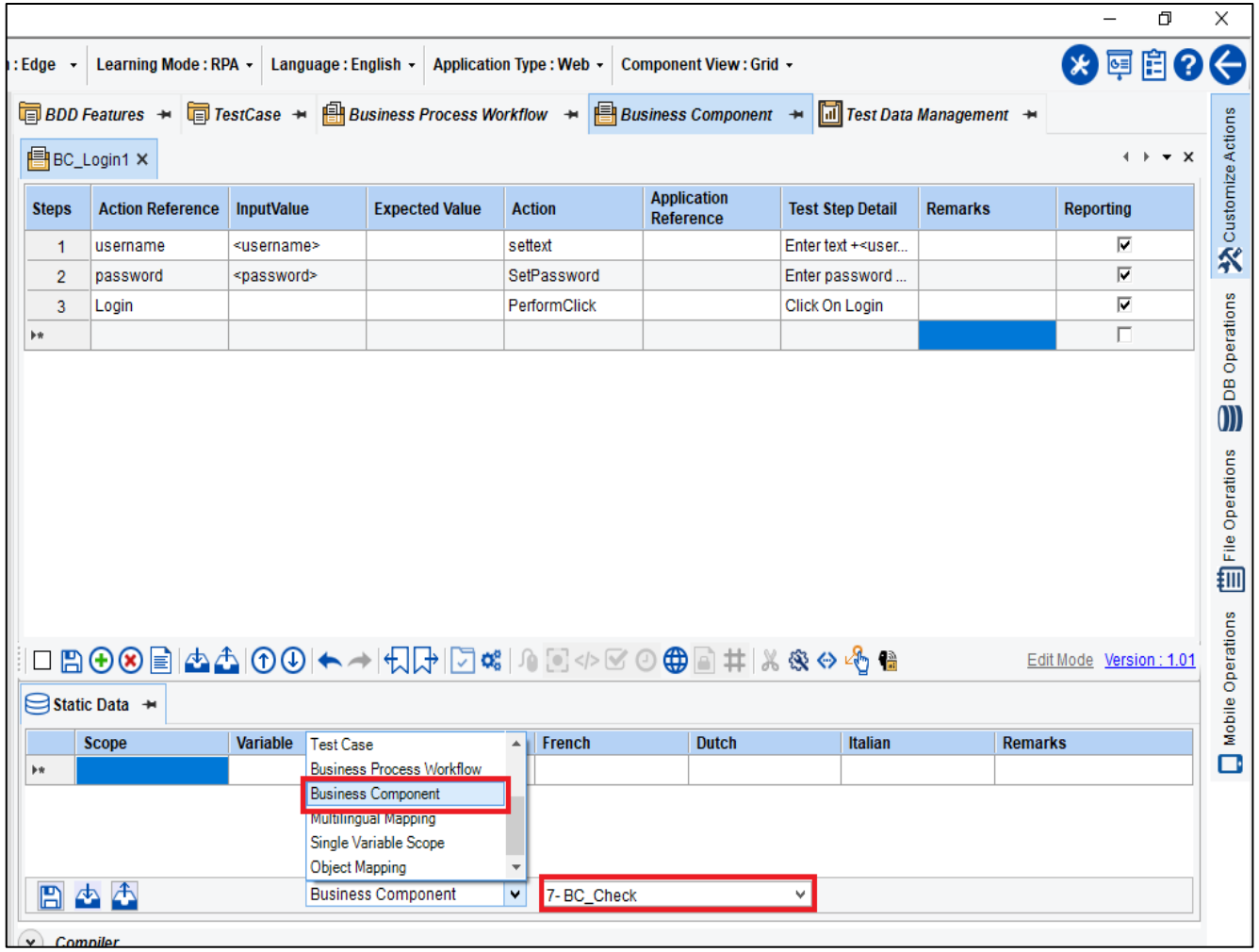
Create Static Variable - Business Component

Steps to create ‘Business Component’ level variable

- In the **Static Data** tab, select **Business Component** from the **Select List Criteria** drop-down.
- **Select Business Component** list, all BCs under that project will occur, select the desired BC.
    - Global- Variable declared as global can be used by all Business Components.
    - Specific Business Component- If any specific Business Component specific is selected, then the data can be accessed and used only through that particular BC.



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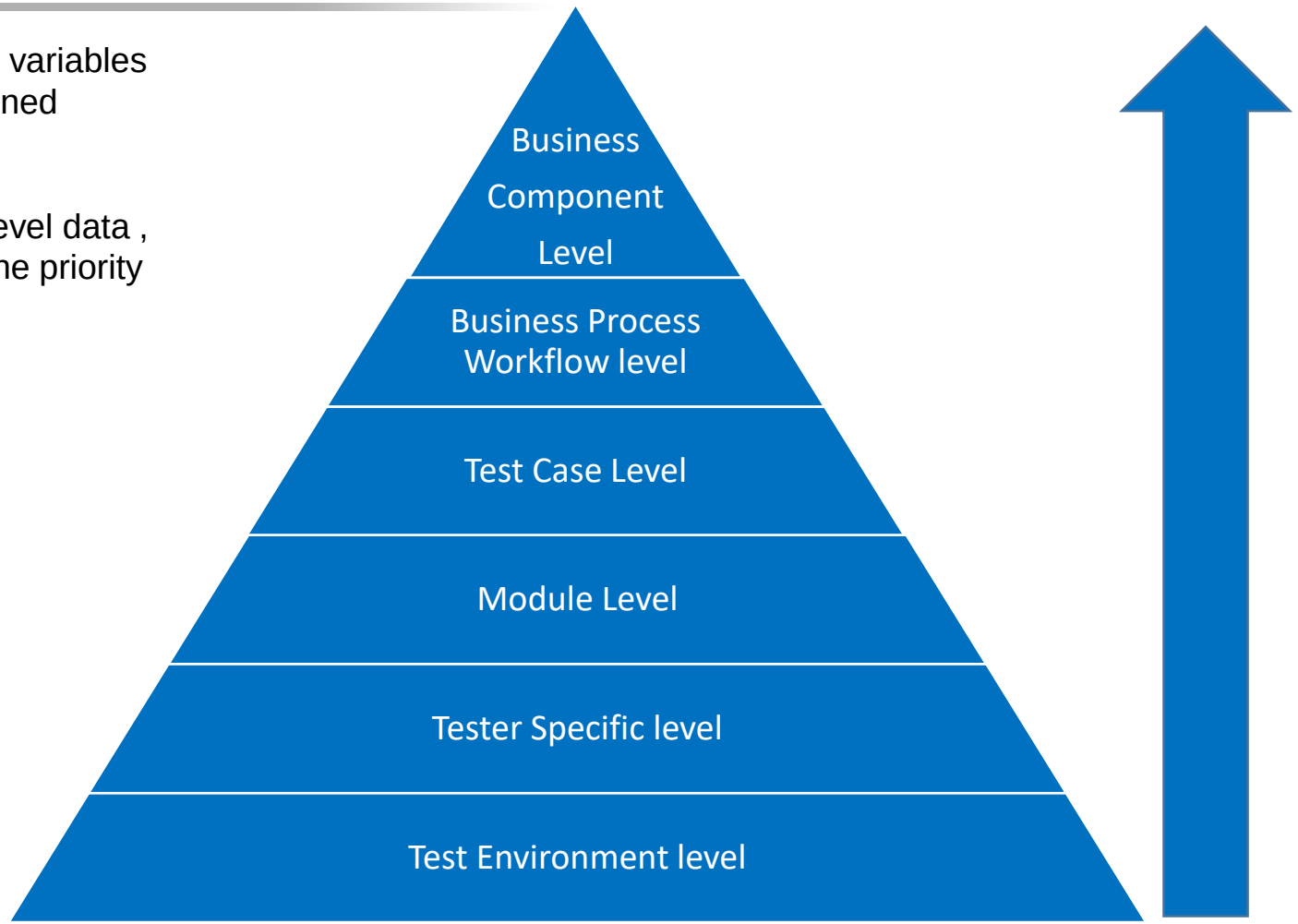
Priority of Variables

- In case same variable name is used to defined the variables at multiple parametrization levels, then the mentioned priority pyramid will be followed during execution
- Highest priority will be given to Test Environment level data , then Tester Specific Data and so on according to the priority Pyramid.



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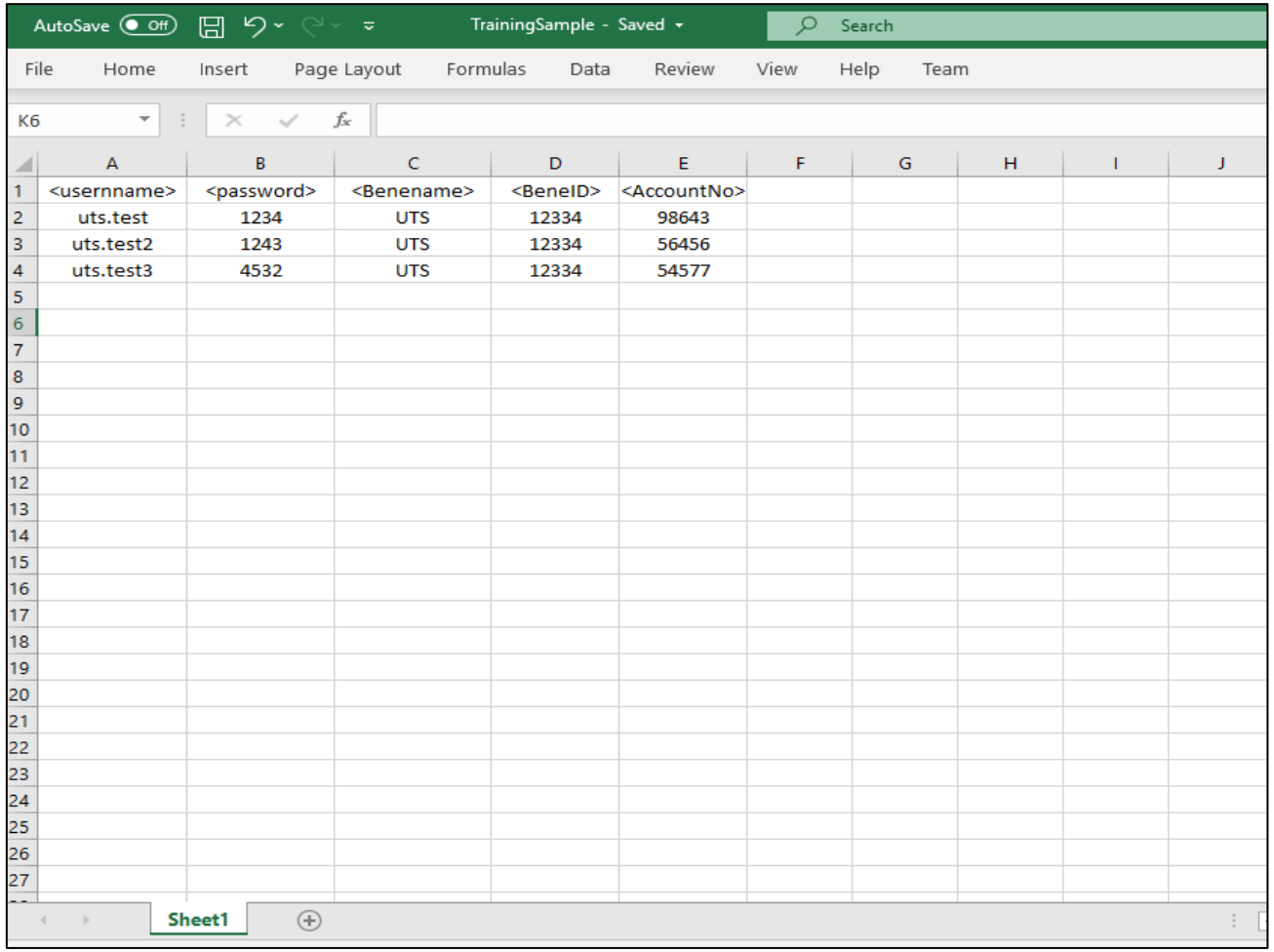
Parameterization of data using Excel

Steps to parameterize data using excel:

1. Create an Excel file on local machine.
2. Enter variables names and their values in excel.
3. Save the file.

Note: This data will only be accessible to the local machine, if this excel is saved on user's machine



	A	B	C	D	E
1	<usernname>	<password>	<Benename>	<BeneID>	<AccountNo>
2	uts.test	1234	UTS	12334	98643
3	uts.test2	1243	UTS	12334	56456
4	uts.test3	4532	UTS	12334	54577

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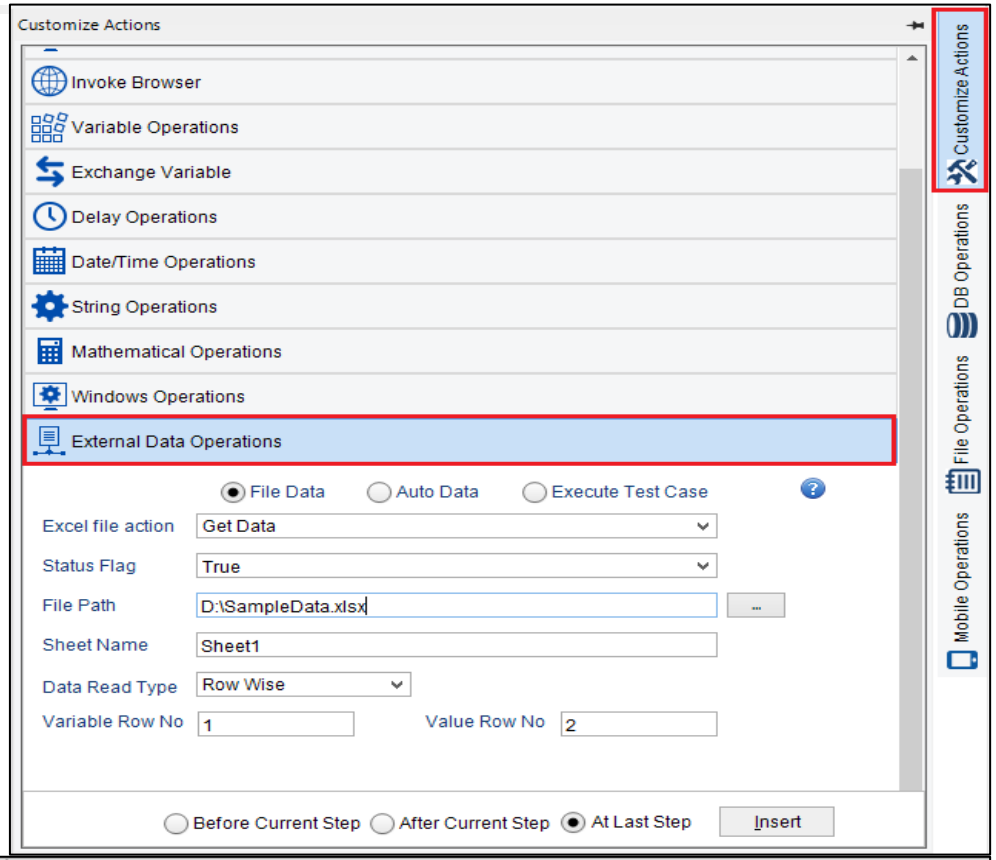
Parameterization of data using Excel

- Import the created Excel file using external file operation.
- Select **File Data** option, then select **Excel File Action** as **Get Data** to retrieve data from excel.
- Keep **Status Flag** as **True** to use the defined variables and values from Microsoft excel sheet or click **False** to use from Data Parameterization..
- Enter the path where your excel file is saved in **File Path**.
- Take the exact sheet name of the excel where the data is stored and enter in **Sheet Name** textbox.
- Select the **Data Read Type** as Row wise or Column Wise according to the data alignment in the excel.
- In **Variable Row/Column No.**, put the row/column header of which values are to be taken.
- In **Value Row/Column No.**, put the number row/column from where values are to be taken.
- At the time of execution eZAutomate will retrieve data from excel, but it will only accessible to the local machine.



Steps	Action Reference	Input Value	Expected Value	Action
1	D:\SampleData.xlsx;Sheet1;1;2;row	True		GetDataFrmFile
▶*				

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