

Business Process Workflow Creation



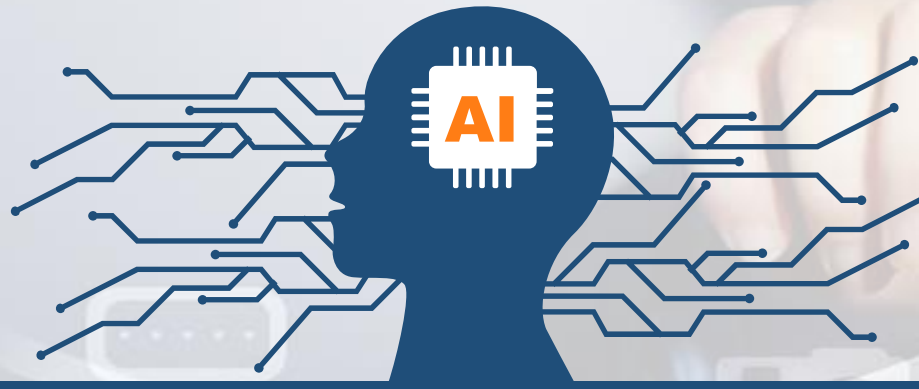
PRODUCT QUALITY



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Pre-requisites

For understanding the creation of Business Process Workflow, user must be clear with the following concepts:

1. Execution modes in eZAutomate.
2. Understanding of different Web Application controls and their attributes.
3. Basic knowledge on how to create Business Component.



What is Business Process Workflow?

Business Process Workflow (BPW) is a collection of several Business Components in a sequential order. It is a logical organization of one or more Business Components. Creation of BPWs is the ultimate function of eZAutomate. BPW can be executed using eZAutomate and TestMagic ALM. However, executing a BPW through eZAutomate has limited options as compared to executing it through TestMagic ALM.

A BPW is needed for the following purposes:

- Creating scripts to automate part(s) of a workflow of an AUT
- Conditional testing
- Getting value(s) from a file or database
- Getting runtime value(s)

Application Types in eZAutomate

Business Component (BC)s can be created with keywords and actions specific to an application.

Following are the applications type :

1. Web
2. Windows
3. SAP Netweaver (SA as a web-application)
4. SAP ECC (SAP as a Windows application)
5. Oracle E-Business Suite
6. Citrix-based application
7. Mainframe/ AS400 application
8. Mobile Application in a Browser (Web-based application in Mobile)
9. Android Package Application (APK)
10. iOS

Tasks to perform before creating BPWs

Business Process Workflow is created with a good understanding the following task. Regular practice of the following task is recommended for the effective creation of business component.

- User must be well-versed with eZAutomate screen terminology
- Browser Cache must be cleaned
- Temporary files must be deleted from the machine

Note: Upcoming slides will showcase how to create the BPWs for a Web Application.

Creation of Business Process Workflow

BPW creation in eZAutomate

- Select **Functional** testing type.



BPW creation in eZAutomate (contd.)

- Select **Web** module.



BPW creation in eZAutomate (contd.)

- Select **Business Process Workflow** tab.

The screenshot displays the eZAutomate application window titled "Automate - [Business Process Workflow]". The interface includes a top navigation bar with various settings like URL, Learning Mode, Language, and Application Type. Below this is a "List of Test Automation Artifacts" section with a tree view on the left and a tabbed view on the right. The "Business Process Workflow" tab is highlighted with a red rectangle. The main workspace shows a table with columns for BC No, Loop, Business Component, Version, # Same Data, # Different Data, Skip, Parallel Execution, and Remarks. The status bar at the bottom indicates "UTS-RITIKA Connected", "TestMagic", "Web / Web Services", "Version 6.2.12.3", and "(Lite Version License Valid for next 4 days)".

BC No	Loop	Business Component	Version	# Same Data	# Different Data	Skip	Parallel Execution	Remarks
*	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	

BPW creation in eZAutomate (contd.)

- Expand the **Business Component(s)** tree to add Business Components in the BPW.
- If a BPW is already opened, click **New** button to open a fresh blank BPW.

The screenshot displays the eZAutomate application window titled 'Automate - [Business Process Workflow]'. The top bar includes a URL field (www.uts-global.com), a play button, and various settings like 'Learn On : IE', 'Learning Mode : RPA', 'Language : English', 'Application Type : Web', and 'Component View : Grid'. Below the top bar, there's a breadcrumb navigation: 'BDD Features' > 'TestCase' > 'Business Process Workflow' > 'Business Component' > 'Test Data Management'. The left sidebar, 'List of Test Automation Artifacts', shows a tree structure with 'Business Component(s)' expanded, and a red box highlights the '+' icon next to it. The main workspace contains a table with the following columns: 'BC No', 'Loop', 'Business Component', 'Version', '# Same Data', '# Different Data', 'Skip', 'Parallel Execution', and 'Remarks'. The table has one row with a '*' in the 'BC No' column. At the bottom, a toolbar contains several icons, with a red box highlighting the 'New' button (document icon). The status bar at the bottom shows 'UTS-RITIKA Connected', 'TestMagic', 'Web / Web Services', 'Version 6.2.12.3', and '(Lite Version License Valid for next 4 days)'.

BC No	Loop	Business Component	Version	# Same Data	# Different Data	Skip	Parallel Execution	Remarks
*	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	

BPW creation in eZAutomate (contd.)

- Drag and drop BC into main pane.
- Specify the version of a Business Component by clicking on the **Version** column.

By default, it takes the latest version.

The screenshot displays the eZAutomate - [Business Process Workflow] window. The top toolbar includes options for URL, Learning Mode (RPA), Language (English), Application Type (Web), and Component View (Grid). The main workspace shows a table of Business Components (BCs) with columns: BC No, Loop, Business Component, Version, # Same Data, # Different Data, Skip, Parallel Execution, and Remarks. The 'BC_DeleteCustomer_Win' component is selected, and its version is set to '1.02'. A red box highlights the 'Version' column for this component, and a red arrow points from this box to the 'List of Test Automation Artifacts' pane on the left, which lists various BCs and their versions.

BC No	Loop	Business Component	Version	# Same Data	# Different Data	Skip	Parallel Execution	Remarks
1	<input type="checkbox"/>	BC_CloseBrowser	Latest			<input type="checkbox"/>	<input type="checkbox"/>	
2	<input checked="" type="checkbox"/>	BC_DeleteCustomer_Win	1.02			<input type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	BC_DemoRequest	Latest			<input type="checkbox"/>	<input type="checkbox"/>	
4	<input type="checkbox"/>	BC_Excel_As_Table	1.04 1.03 1.02 1.01 1.00			<input type="checkbox"/>	<input type="checkbox"/>	



BPW creation in eZAutomate (contd.)

- Enter iteration count in **Same Data** column, which is equal to the number of times to execute the flow with same data.
- Enter iteration count in **Different Data** column, which is equal to the number of times to execute the flow with different data.

(e.g., if you want to execute 5 different data sets for the BPW, then write **1-5** under **Different Data** column against the first BC.)

The screenshot displays the eZAutomate Business Process Workflow (BPW) editor. The interface includes a top toolbar with various icons and a sidebar on the right with icons for 'Customize Actions', 'DB Operations', 'File Operations', and 'Mobile Operations'. The main area shows a table of test automation artifacts. The table has the following columns: BC No, Loop, Business Component, Version, # Same Data, # Different Data, Skip, Parallel Execution, and Remarks. The first row of the table is highlighted with a red box, showing the following data: BC No: 1, Loop: ☐, Business Component: BC_CloseBrowser, Version: Latest, # Same Data: (empty), # Different Data: 1-5, Skip: ☐, Parallel Execution: ☐, and Remarks: (empty). The # Same Data and # Different Data columns are highlighted in blue. The # Different Data column contains the value '1-5', which represents the iteration count for different data sets.

BC No	Loop	Business Component	Version	# Same Data	# Different Data	Skip	Parallel Execution	Remarks
1	<input type="checkbox"/>	BC_CloseBrowser	Latest		1-5	<input type="checkbox"/>	<input type="checkbox"/>	
2	<input type="checkbox"/>	BC_DeleteCustomer_Win	1.02			<input type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	BC_DemoRequest	Latest			<input type="checkbox"/>	<input type="checkbox"/>	
4	<input type="checkbox"/>	BC_Excel_As_Table	Latest			<input type="checkbox"/>	<input type="checkbox"/>	



BPW creation in eZAutomate (contd.)

- If you want to skip any BC in the BPW, select the checkbox for **Skip** against the BC that you want to skip.

Note: This will only skip the BC during the execution of the flow (BPW/TC), but will remain saved in this BPW.

- To execute the BCs of the BPW parallelly, select the checkbox for **Parallel Execution** against those BCs.

Note: Make sure that the BCs for parallel execution are not inter-dependent, so that they can get executed parallelly.

- In **Remarks** column, you can enter any user-defined comments that you may use for future reference.

BC No	Loop	Business Component	Version	# Same Data	# Different Data	Skip	Parallel Execution	Remarks
1	<input type="checkbox"/>	BC_CloseBrowser	Latest			<input type="checkbox"/>	<input type="checkbox"/>	
2	<input type="checkbox"/>	BC_DeleteCustomer_Win	1.02			<input type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	BC_DemoRequest	Latest			<input type="checkbox"/>	<input type="checkbox"/>	
4	<input type="checkbox"/>	BC_Excel_As_Table	Latest			<input type="checkbox"/>	<input type="checkbox"/>	



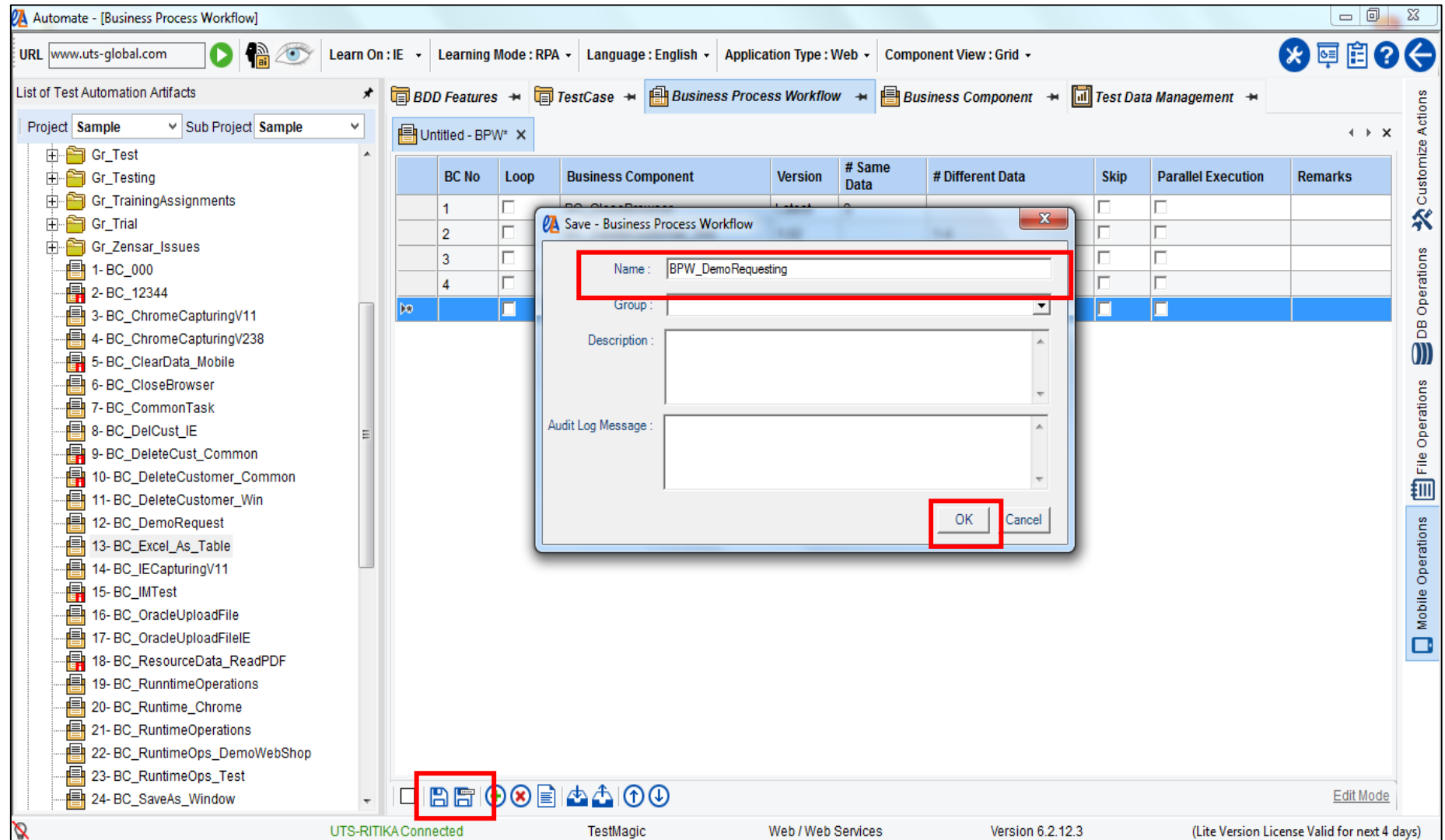
BPW creation in eZAutomate (contd.)

- Click on **Save** button.

(**Save As** is used to save the existing BPW with another name.)

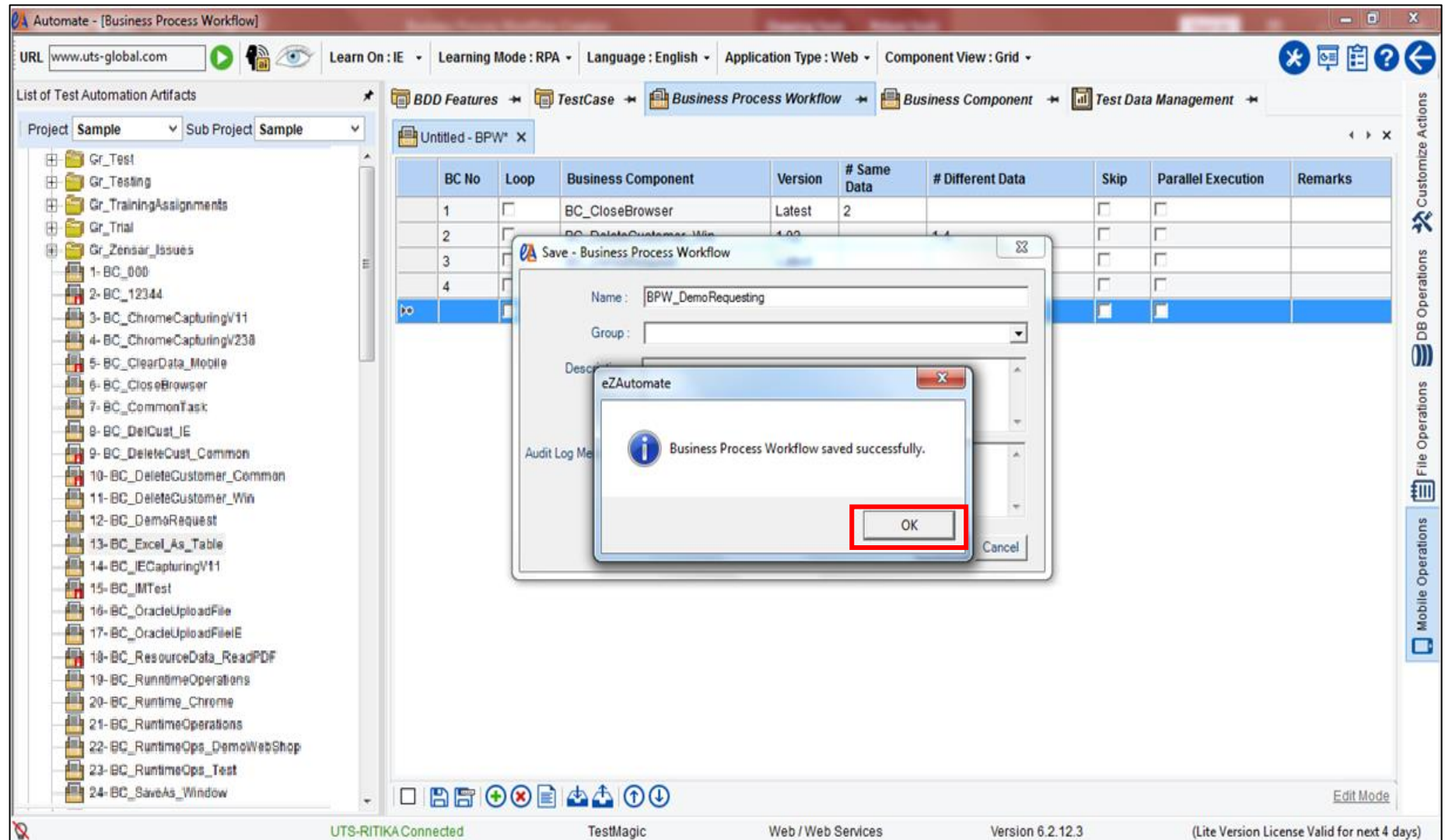
- Enter BPW Name.

- Click on **OK** button.



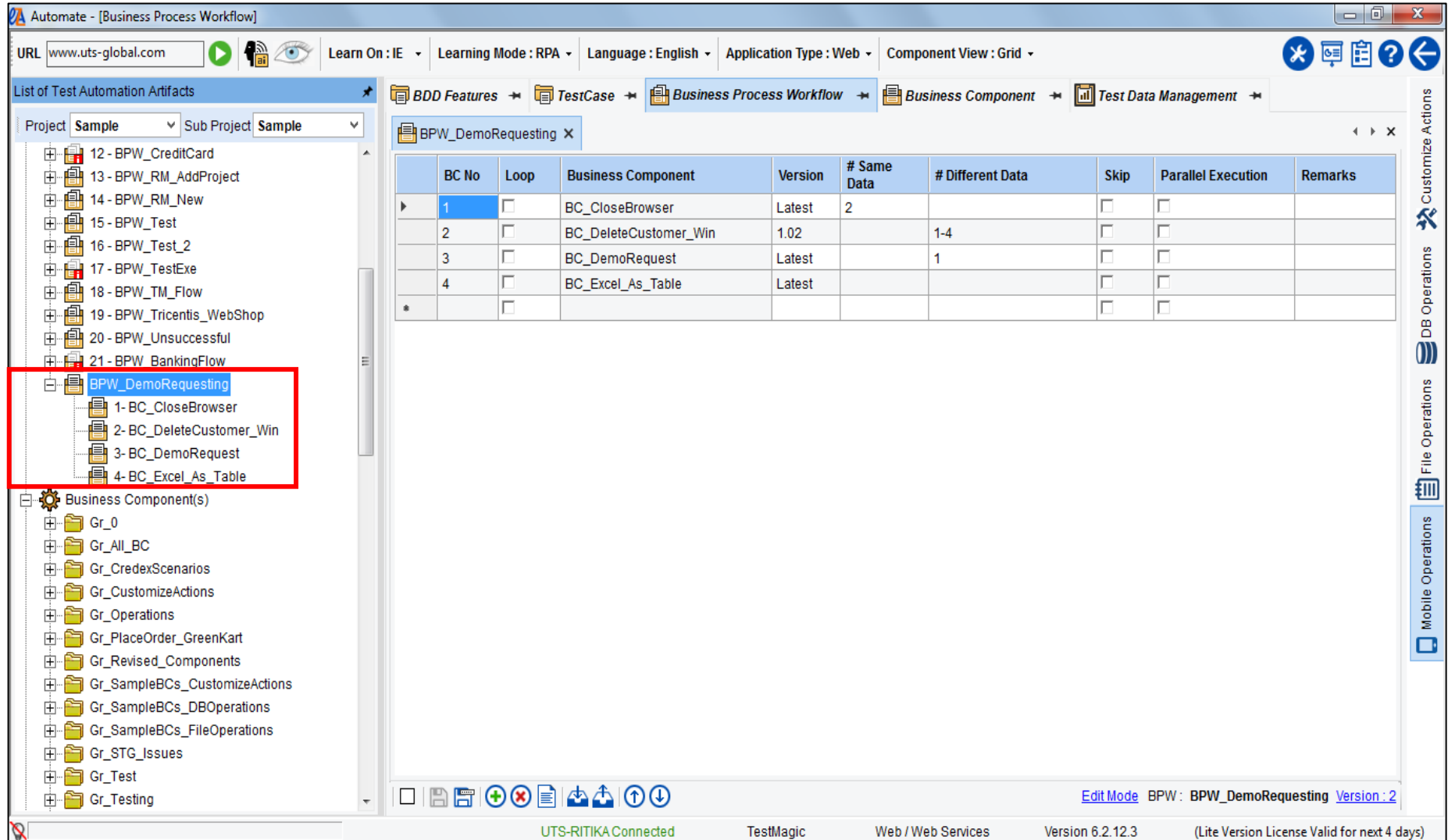
BPW creation in eZAutomate (contd.)

- Click on **OK** button on the BPW successful saving pop-up.



BPW creation in eZAutomate (contd.)

- Business Process Workflow is created including Business Components. Expand **Business Process Workflow(s)** tree view to view the added BCs.



The screenshot shows the eZAutomate interface for creating a Business Process Workflow (BPW). The left pane, titled 'List of Test Automation Artifacts', shows a tree view of the project 'Sample'. The 'BPW_DemoRequesting' folder is expanded, revealing four business components: '1- BC_CloseBrowser', '2- BC_DeleteCustomer_Win', '3- BC_DemoRequest', and '4- BC_Excel_As_Table'. The right pane displays a table of these components.

BC No	Loop	Business Component	Version	# Same Data	# Different Data	Skip	Parallel Execution	Remarks
1	<input type="checkbox"/>	BC_CloseBrowser	Latest	2		<input type="checkbox"/>	<input type="checkbox"/>	
2	<input type="checkbox"/>	BC_DeleteCustomer_Win	1.02		1-4	<input type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	BC_DemoRequest	Latest		1	<input type="checkbox"/>	<input type="checkbox"/>	
4	<input type="checkbox"/>	BC_Excel_As_Table	Latest			<input type="checkbox"/>	<input type="checkbox"/>	
*	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	

The bottom status bar indicates 'UTS-RITIKA Connected', 'TestMagic', 'Web / Web Services', 'Version 6.2.12.3', and '(Lite Version License Valid for next 4 days)'.

Thank you for your time and patience



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