Java Application Operation Scenario Creation Manual

NTT ADVANCED TECHNOLOGY CORPORATION

Contents

WinActor Java Application Operation Scenario Creation Manual

1. Introduction

This manual describes the procedure to create a scenario to operate Java applications using WinActor.

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- The descriptions in this manual assume that users understand Windows operations and functions. For information that is not described in this manual, see the documents provided by Microsoft.

1.3. Operating environment

In this document, it is assumed that Java applications meet all of the following conditions:

- A Java application to be operated works on Oracle Java SE.
- A Java application to be operated implements Java Accessibility API. (*1)
- Java Access Bridge 2.0.2 or later is installed.
  (Java Access Bridge 2.0.2 is included in Java SE Runtime Environment (JRE) Release 7 Update 6 (7u6) or later.)
- WindowsAccessBridge.dll is installed in the 32-bit Windows environment, WindowsAccessBridge-32.dll is installed in the 64-bit Windows environment, and the installation folder is set in the environment variable PATH.
  (WindowsAccessBridge.dll and WindowsAccessBridge-32.dll are included in Java Access Bridge 2.0.2.)
  (WindowsAccessBridge-32.dll is not included in Java 9 or later.)
- Java Access Bridge has been enabled. (For the procedure to enable Java Access Bridge, see "1.1.1. Enabling Java Access Bridge.")

*1 A function that enables Java applications to be visible to assistive technologies on Microsoft Windows systems, which is included in Java SE Runtime Environment (JRE) Release 7 Update 6 (7u6) or later.

1.3.1. Enabling Java Access Bridge

Follow the steps below to enable Java Access Bridge.

Note: It has been reported that some applications do not work properly when Java Access Bridge is enabled. Before using the Java-related libraries described in this manual, check with the developer or distributor to make sure that the Java application works properly even if Java Access Bridge is enabled. If the application does not work properly by enabling Java Access Bridge, perform "1.3.2 Disabling Java Access Bridge."

a) Go to "Control Panel" > "Ease of Access" > "Ease of Access Center."

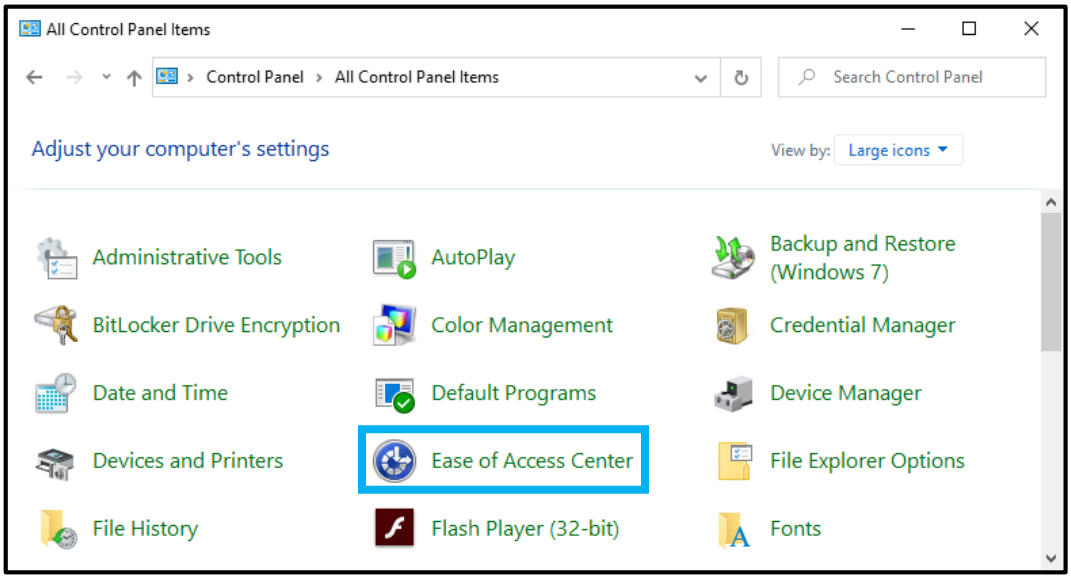

Figure 1-1. Ease of Access Center

b) Select "Use the computer without a display."

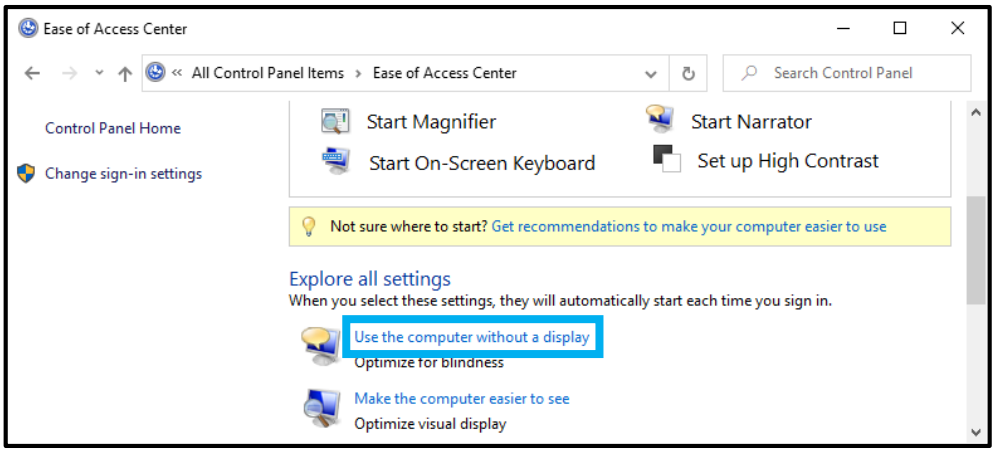

Figure 1-2. "Use the computer without a display"

c) In the "Other programs installed" section, check the box of "Enable Java Access Bridge." (You may need to scroll down.)

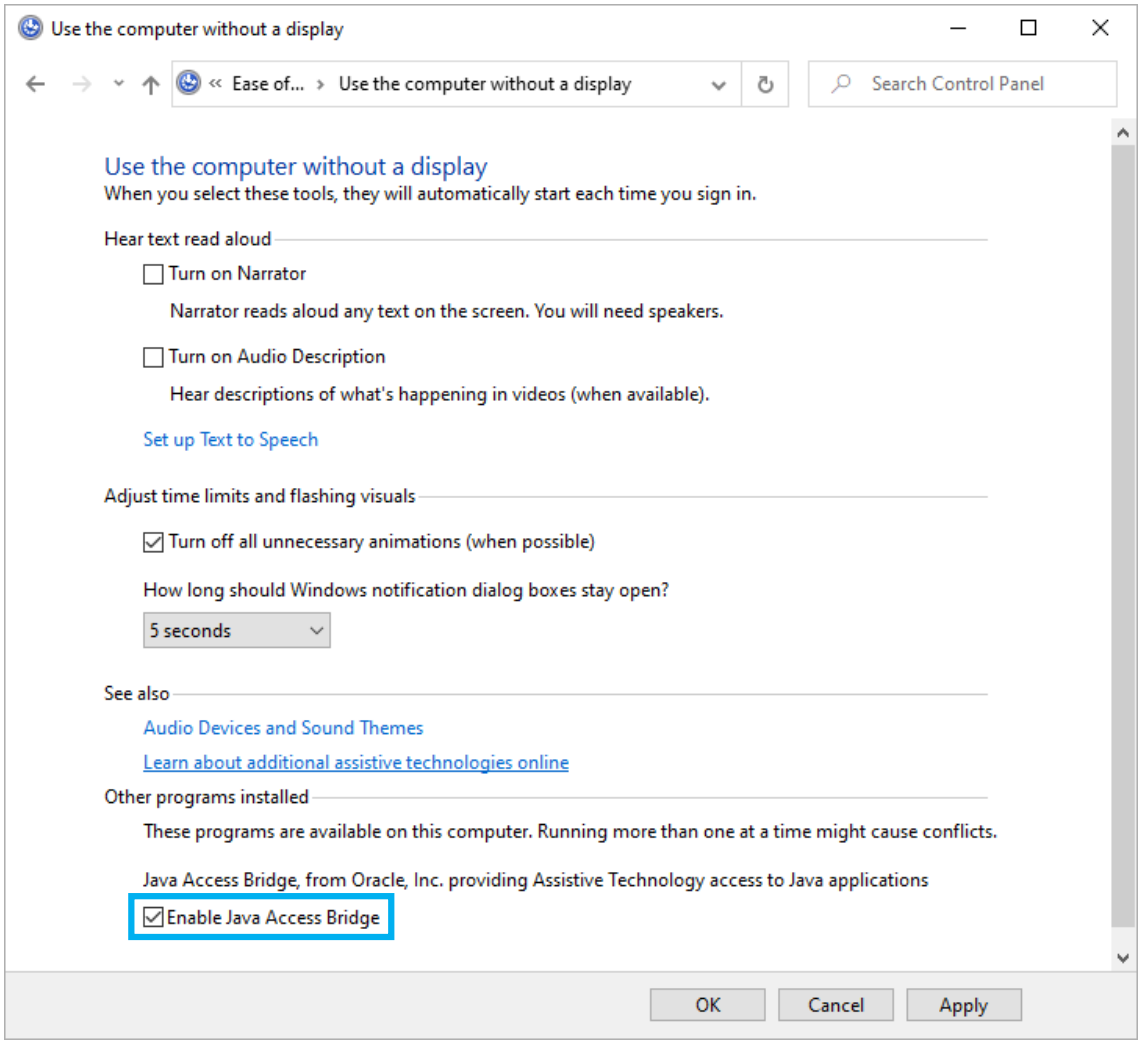

Figure 1-3. Checking "Enable Java Access Bridge"

d) If the application is already running, restart it so that WinActor can operate it.

1.3.2. Disabling Java Access Bridge

It has been reported that some applications do not work properly when Java Access Bridge is enabled. In that case, follow the steps below to disable Java Access Bridge and recover the application.

a) Go to "Control Panel" > "Ease of Access" > "Ease of Access Center."

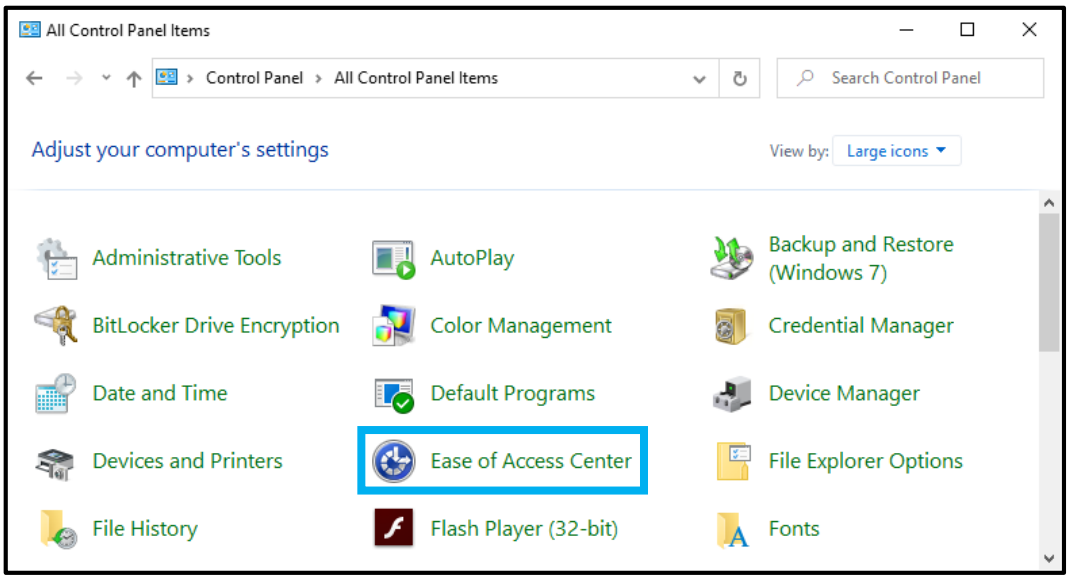

Figure 1-4. Ease of Access Center

b) Select "Use the computer without a display."

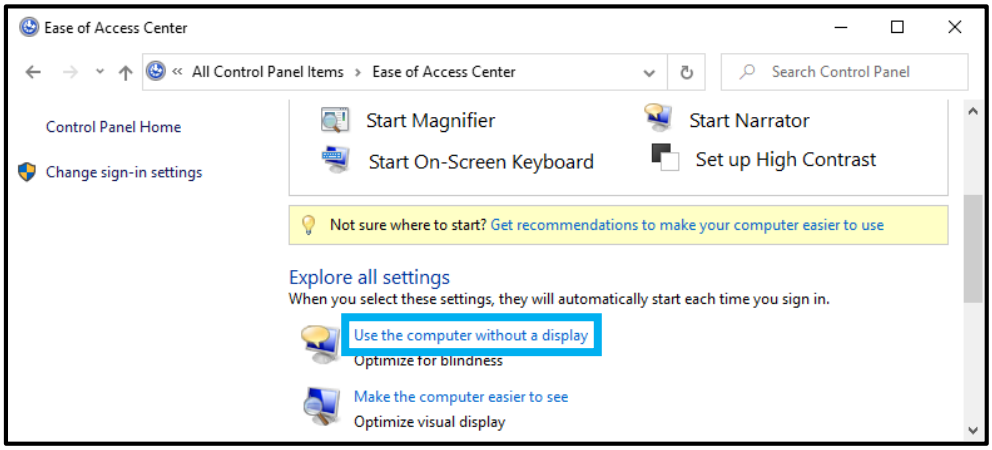

Figure 1-5. Selecting "Use the computer without a display"

c) In the "Other programs installed" section, uncheck the box of "Enable Java Access Bridge." (You may need to scroll down.)

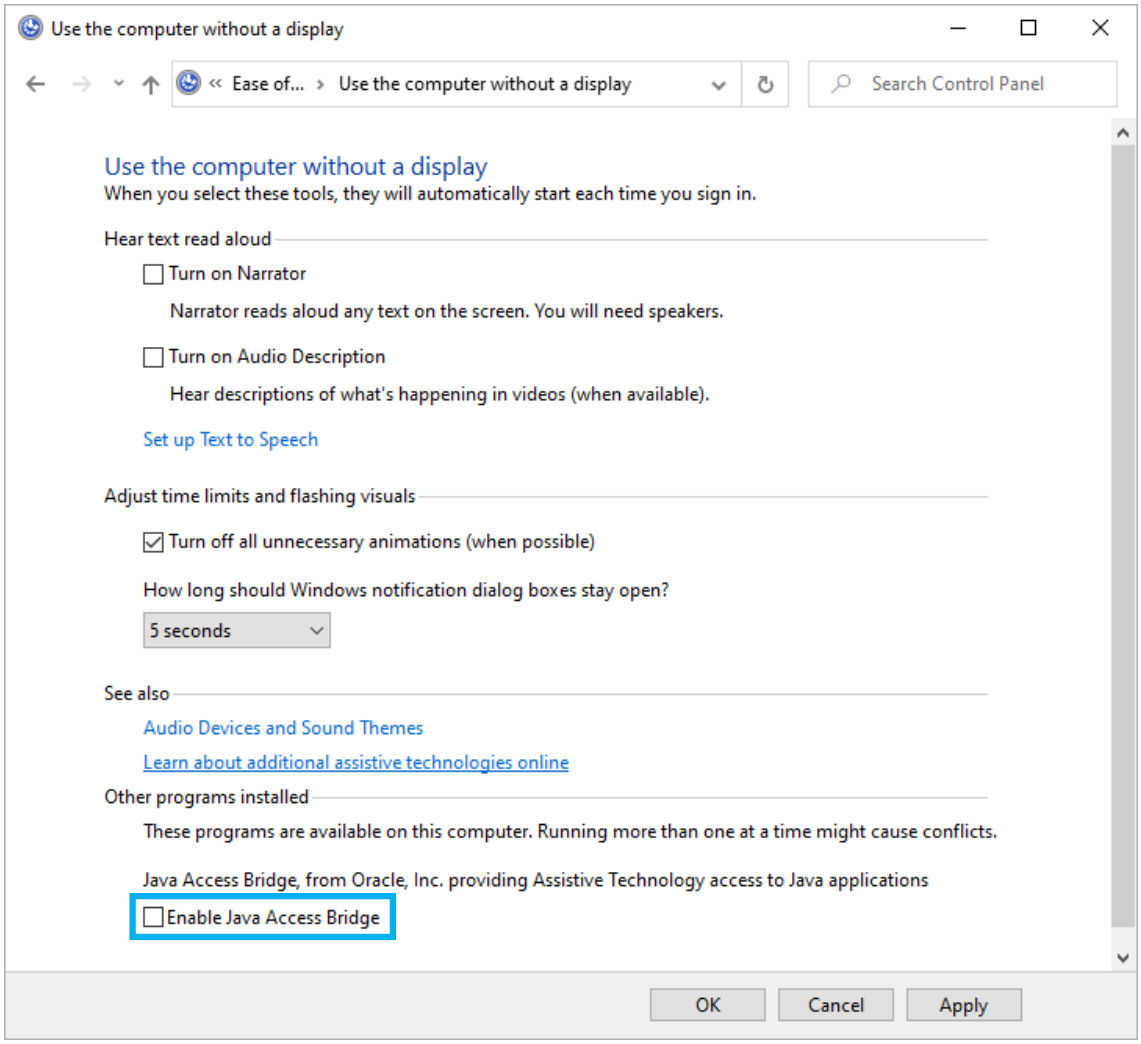

Figure 1-6. Unchecking "Enable Java Access Bridge"

d) Rename ".accessibility.properties."

Rename the file ".accessibility.properties" saved in C:\Users\[Username] to ".accessibility.properties.bak."

e) Log off Windows.

After logging on to Windows again, confirm that the application that has not worked properly by enabling Java Access Bridge now works properly.

1.3.3. Availability of Java-related libraries for Java GUI toolkit

For Java GUI toolkit (Swing/AWT) used by Java application, availability of the libraries under "24_Java" are described in Table 1-1.

Table 1-1. Availability of Java-related libraries for Java GUI toolkit

No	Library name	Availability for Java GUI toolkit	
		Swing	AWT
1	Java_GetCheckState	○	○
2	Java_IsEnabled	○	○
3	Java_GetValue	○	△ ① Available for Jpath:text ② Unavailable for Jpath:label
4	Java_GetSelectedItem	○	△ ① Jpath:list Available for type="index" Unavailable for type="text" ② Unavailable for Jpath:combo box
5	Java_SelectItem	○	△ ① Jpath:list Available for type="index" Unavailable for type="text" ② Unavailable for Jpath:combo box
6	Java_UnselectMultipleItems	○	△ Available for type="index" Unavailable for type="text"
7	Java_UnselectAllItems	○	○
8	Java_SelectMultipleItems	○	△ Available for type="index" Unavailable for type="text"
9	Java_SelectTab	○	― No tabs exist in AWT
10	Java_Click	○	○
11	Java_SetValue	○	×

12	Java_GetValueInTable	○	－ No tables exist in AWT
13	Java_GetAllItems	○	×
14	Java_Check	○	○
15	Java_Uncheck	○	○

* [Legend] ○: Available △: Available for some elements ×: Unavailable －: N/A
* Regarding the execution of Java Applet, the above table can be applied for Java GUI toolkit (Swing or AWT) used by the Applet.
* Other toolkits such as JavaFX and SWT are not supported.

1.4. Limitations

The limitations on operating Java applications are as follows.

- When running a scenario, make sure that the Java application to be operated is displayed on your desktop. If the element is outside the desktop, it may lead to a failure of clicking a button.
- Some Java applications may be forcibly terminated when starting the Get JPath tool described in 2.1. If you are editing data on the Java application, save the data before starting the Get JPath tool.
- It is necessary to use the same privileges (administrator or standard user) to run Java application as that of WinActor or Get JPath tool.

  For example, when WinActor is launched with standard user privileges, the Java application should run with standard user privileges. When WinActor is launched with administrator privileges, the Java application should run with administrator privileges.
- Control buttons (maximize button, minimize button, close button) of child windows of an MDI application cannot be operated.

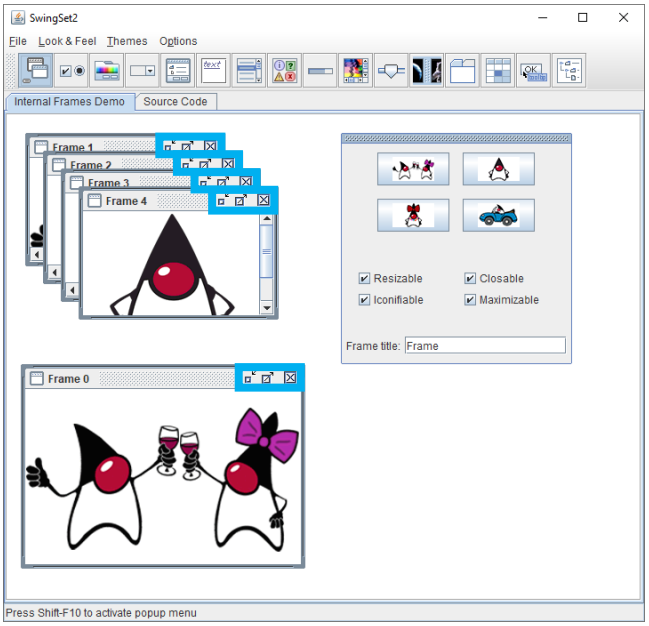

Figure 1-7. MDI application

- Some Java applications may not be operated with Java-related libraries.

2. Getting JPath

JPath is a path expression (similar to XPath) to identify a GUI element in a Java application. It starts from the highest level element and trace its child down to the target element. The element information consists of a role name, value, and index.

To operate a Java application using WinActor, the target element (such as a button and an input field) should be specified with JPath expression.

The following describes the procedure to get JPath using the Get JPath tool.

2.1. Starting the Get JPath tool

Select "Get JPath" from the "Tool" menu on the menu bar of WinActor.

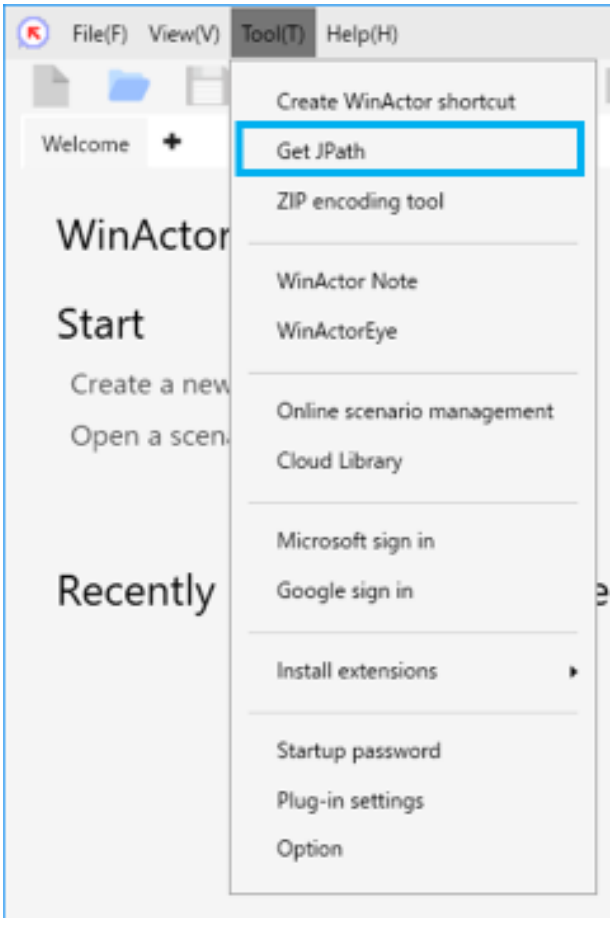

Figure 2-1. Starting the Get JPath tool

2.2. JPath Acquisition Tool window

The JPath Acquisition Tool window opens independently with WinActor.

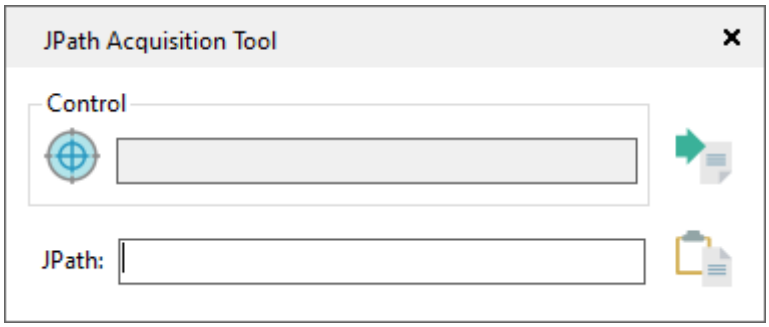

Figure 2-2. JPath Acquisition Tool window

2.3. Specifying an element to be operated

Click the "" icon at the upper left of the JPath Acquisition Tool window (① in Figure 2-3). Next, in a Java application to be operated, move the mouse pointer over an element you want to operate and click it (② in Figure 2-3).

The mouse cursor becomes "+" while you are selecting an element.

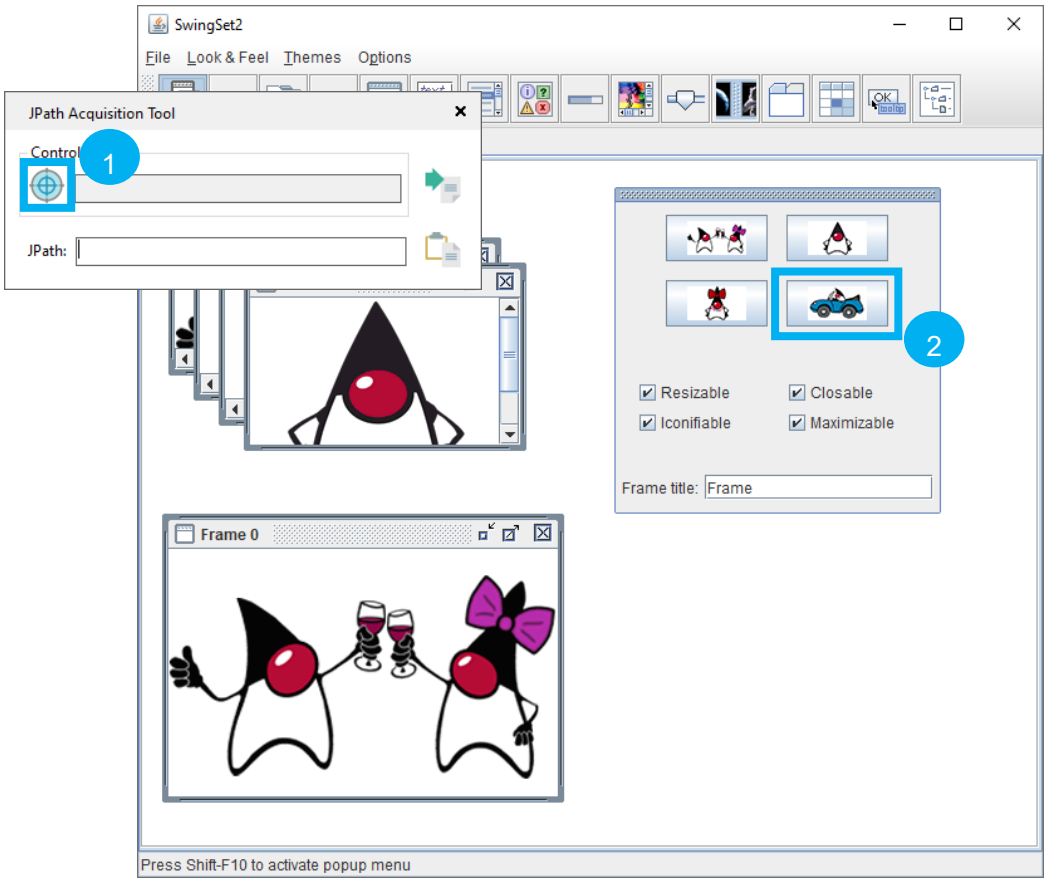

Figure 2-3. JPath Acquisition Tool window (selecting an element)

To get JPath, the Java Accessibility API must be implemented in the Java application. JPath cannot be acquired for a Java application in which the Java Accessibility API is not implemented.

The JPath of the selected element is displayed in the "JPath:" field of the JPath Acquisition Tool window.

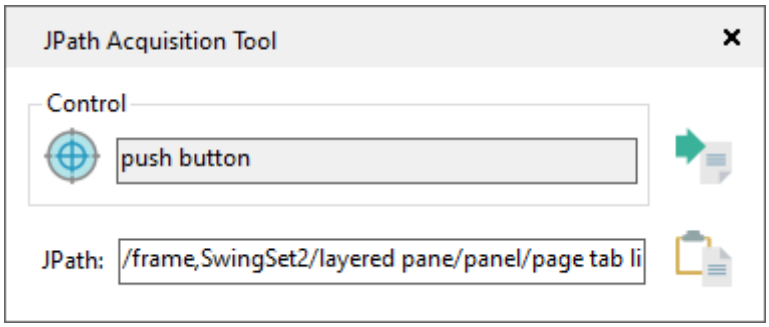

Figure 2-4. JPath Acquisition Tool window (after selecting the element)

2.4. Copying JPath

Click the "  " button at the lower right of the JPath Acquisition Tool window.

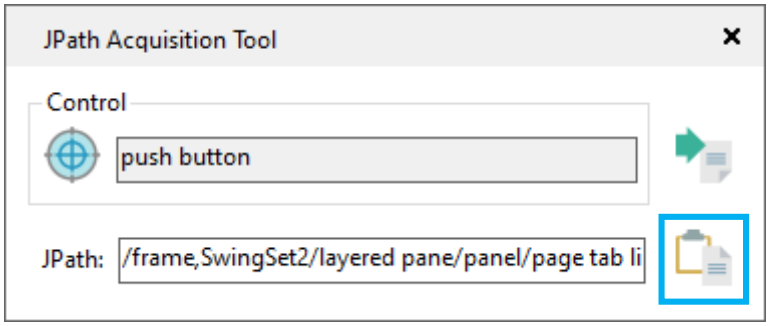

Figure 2-5. JPath Acquisition Tool window (copying JPath)

The displayed JPath is copied to the clipboard.

JPath is a string like "/frame,SwingSet2/layered pane/panel/page tab list/,Internal Frame Demo/,Internal Frame Creation/layered pane/,,0/panel,,3/push button,,2." You can paste it into Notepad to check it.

2.5. Pasting JPath

Paste the JPath into the JPath input field on the Property window of the action node with "Ctrl + V."

Click the [Update] button to set JPath.

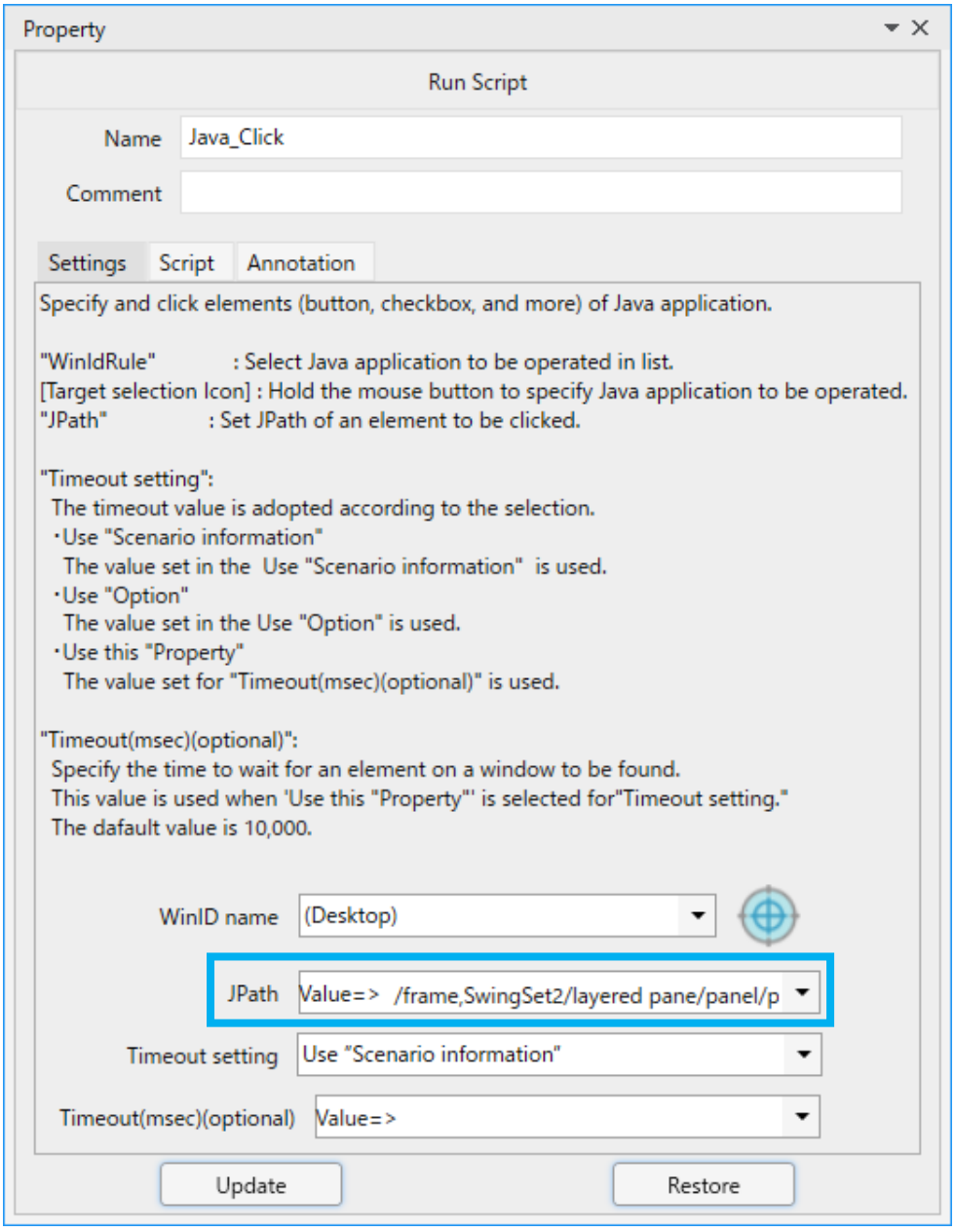

Figure 2-6. Pasting the value on the Property window of WinActor

2.6. JPath dump file output

Click the "  " button at the upper right of the JPath Acquisition Tool window.

The "Save As" window will be displayed, then save the file with an appropriate name.

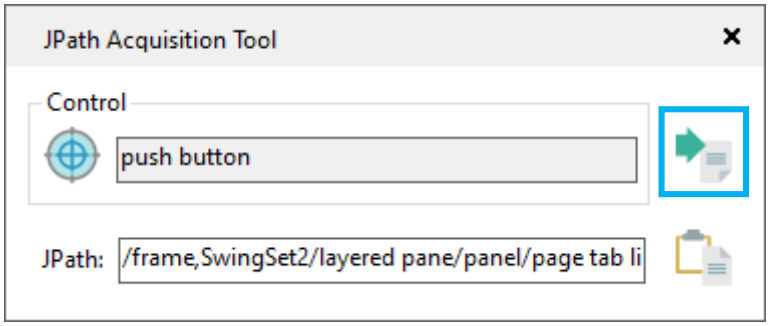

Figure 2-7. JPath Acquisition Tool window (outputting JPath dump file)

JPath for all elements in the Java application will be output to a file.

The Java application should be running when outputting a JPath dump file.

2.7. Error in getting JPath

When Java Access Bridge is not enabled or when the privileges of the Java application and those of WinActor are different, the error message "An application inoperable with Java Access Bridge was selected." will be displayed.

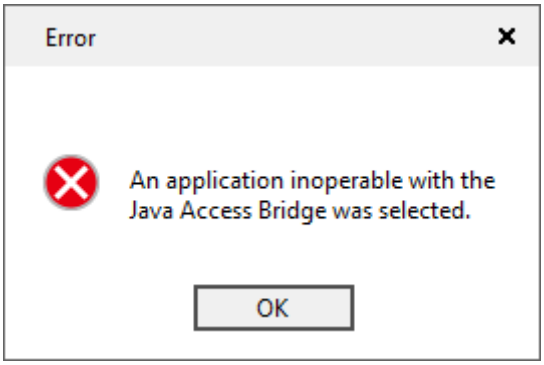

Figure 2-8. Error in getting JPath

[Cause of error]

Java Access Bridge is not enabled.

[Action to take]

Try it again after enabling Java Access Bridge. (For the procedure to enable Java Access Bridge, see 1.3.1. Enabling Java Access Bridge.)

[Cause of error]

The privileges (administrator or standard user) of the Java application and that of WinActor are different.

[Action to take]

Check how to launch the Java application, and launch WinActor in the same way.

For example, when the Java application is launched with standard user privileges, launch WinActor with standard user privileges. When the Java application is launched with administrator privileges, launch WinActor with administrator privileges.

3. Creating a scenario

Java-related libraries are used to create a scenario for operating a Java application automatically.

This chapter describes the procedure to create a scenario for operating a Java application using the "Java_SetValue" library as an example.

[Steps]

3.1. Getting JPath

3.2. Creating a scenario

a) Placing the library

b) Setting the library property items

3.1. Getting JPath

See "2. Getting JPath" and get JPath for an element for which "Java_SetValue" is performed in this example.

3.2. Creating a scenario

a) Select the Library tab in the Library pane and double-click "24_Java" to expand it.

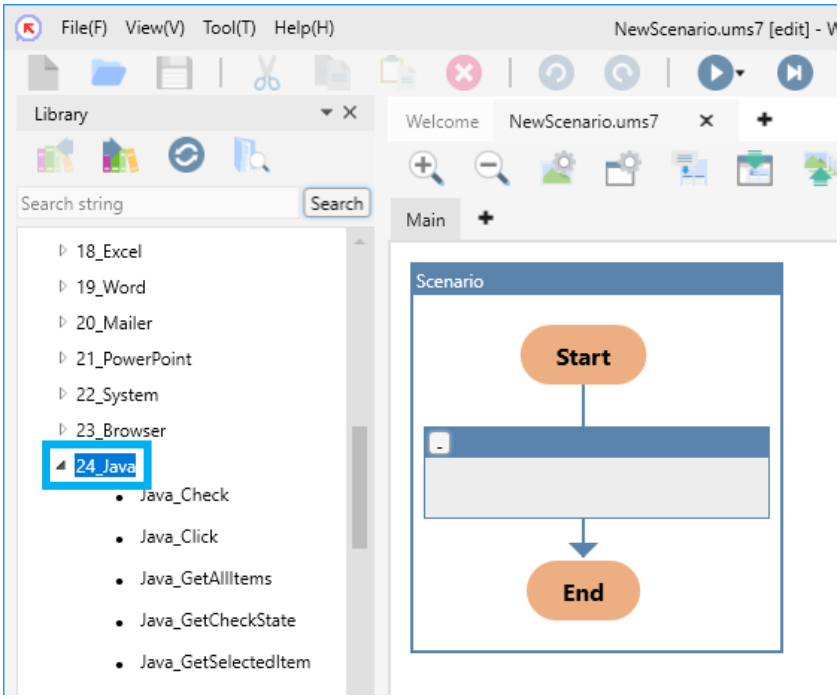

Figure 3-1. Expanding "24_Java" in the Library pane

Select a library you want to run (the "Java_SetValue" library in this example) from the Library tab, and drag and drop it into the Scenario box.

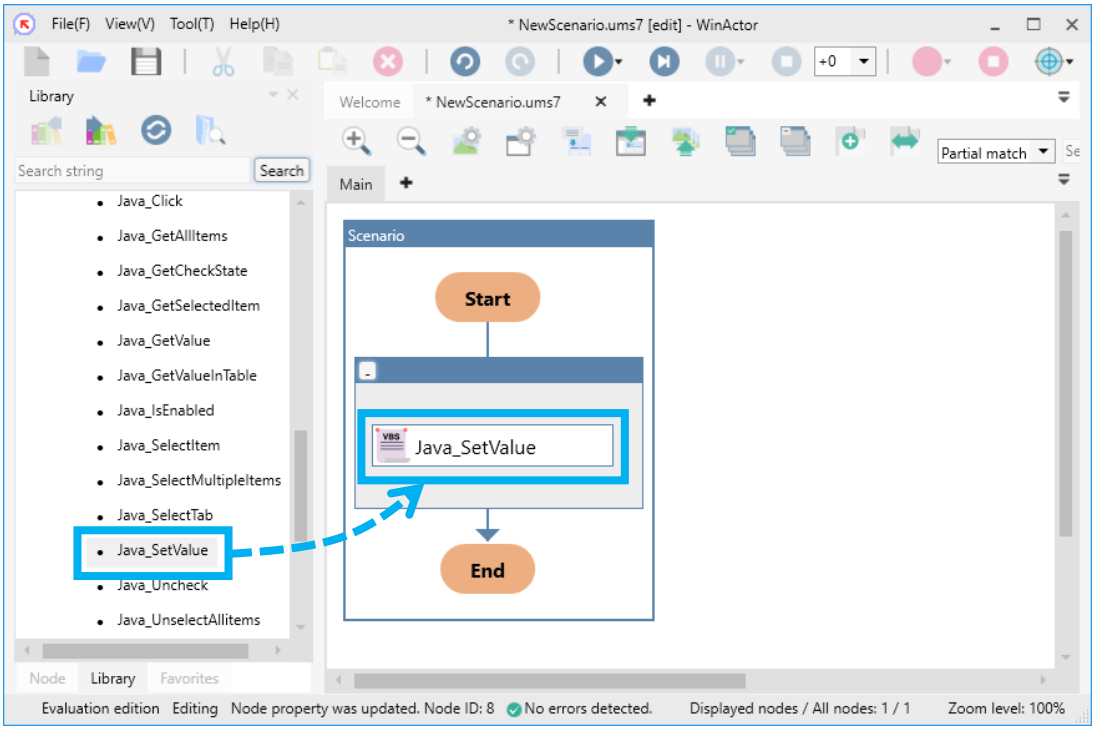

Figure 3-2. Placing "Java_SetValue" in the Scenario box

b) Double-click "Java_SetValue" placed in the Scenario box to display the Property window.

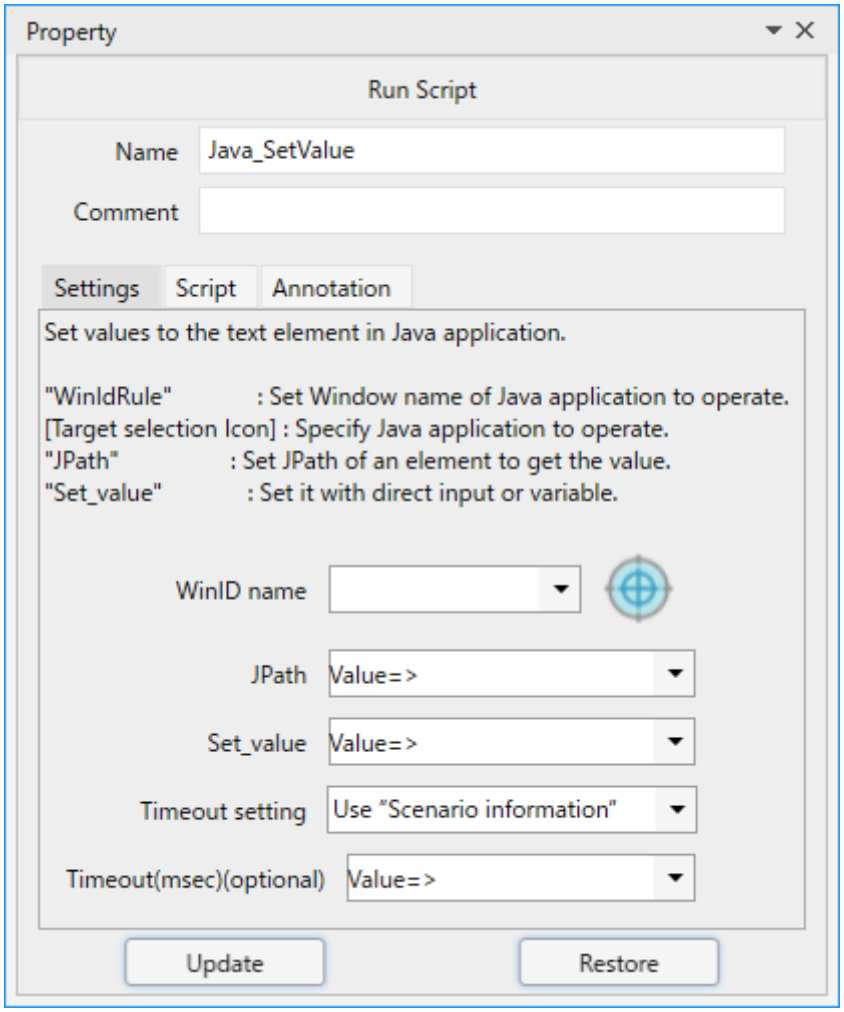

Figure 3-3. Property window of "Java_SetValue"

Set the property items and click the [Update] button. The description of each property item is shown in Table 3-1.

Table 3-1. "Java_SetValue" library property items

Library name	Property item	Description
Java_SetValue	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the element for which a value is to be set, acquired in "Getting JPath."
	Set_value	Enter directly, or set with a variable.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4. Library and property list

This chapter introduces the libraries under "24_Java" and the property items of each library.

4.1. Java_Click

This library is to click an element (button, check box, etc.) in a Java application.

Table 4-1. "Java_Click" library property items

Library name	Property item	Description
Java_Click	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the element you want to click.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.2. Java_Check

This library is to set an element (check box, etc.) state to checked in a Java application.

Open the Property windows of "Get check state" and "Java_Click" inside "Java_Check" and set the same values to their WinID name and JPath.

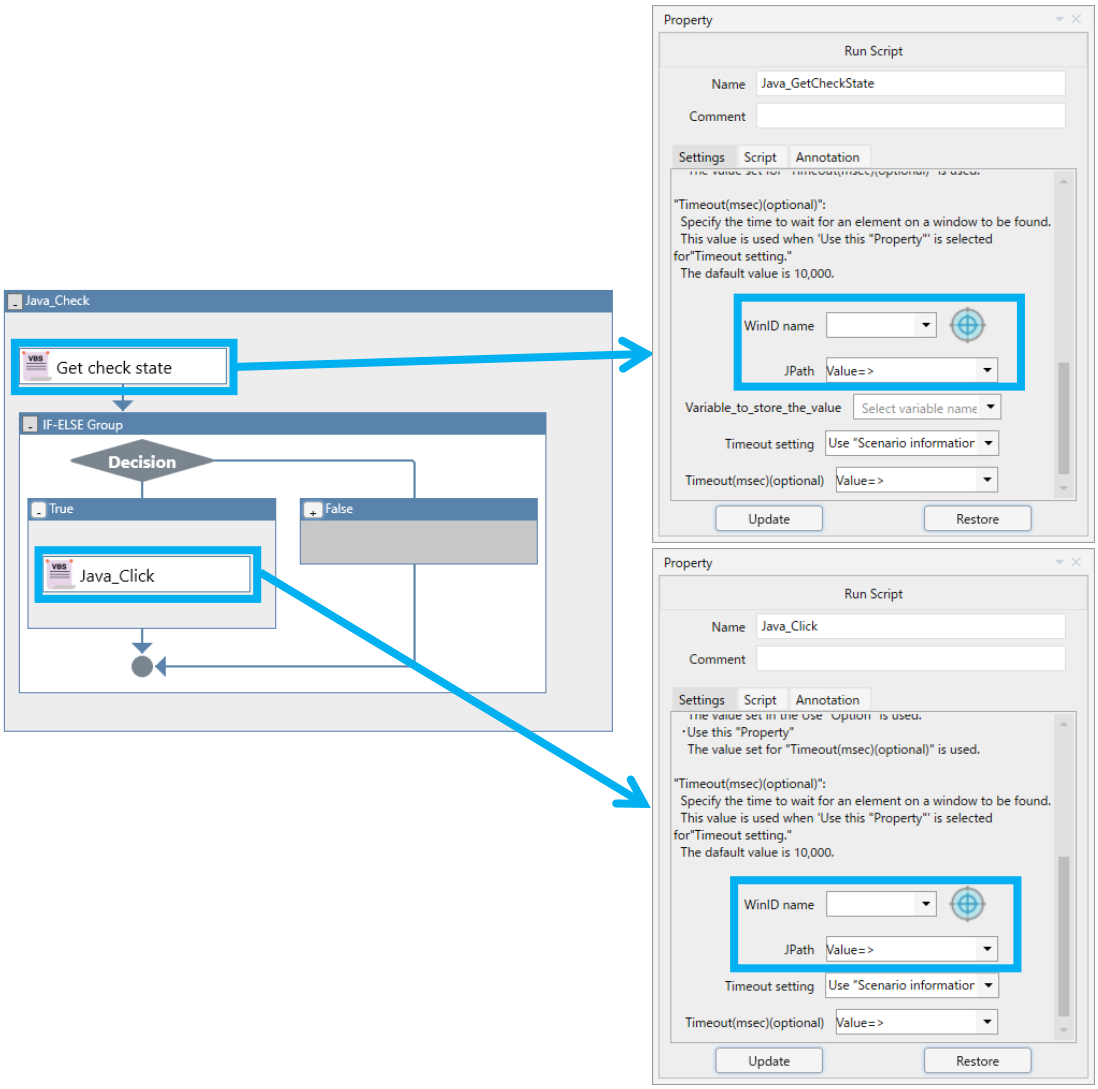

Figure 4-1. Setting the "Java_Check" property items

Table 4-2. "Get check state" library property items

Library name	Property item	Description
Get check state	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the element you want to get the check state.
	Variable_to_store_the_value	Specify a variable to store the acquired value.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

Table 4-3. "Java_Click" library property items

Library name	Property item	Description
Java_Click	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the element you want to click.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.3. Java_Uncheck

This library is to set an element (check box, etc.) state to unchecked in a Java application.

Table 4-4. "Get check state" library property items

Library name	Property item	Description
Get check state	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the element you want to get the check state.
	Variable_to_store_the_value	Specify a variable to store the acquired value.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

Table 4-5. "Java_Click" library property items

Library name	Property item	Description
Java_Click	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the element you want to click.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.4. Java_SetValue

This library is to set a value to a text element in a Java application.

Table 4-6. "Java_SetValue" library property items

Library name	Property item	Description
Java_SetValue	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the text element to which you want to set a value.
	Set_value	Enter directly, or set with a variable.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.5. Java_GetValue

This library is to get a value from a text element in a Java application.

Table 4-7. "Java_GetValue" library property items

Library name	Property item	Description
Java_GetValue	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the text element from which you want to get a value.
	Variable_to_store_the_value	Specify a variable to store the acquired value.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.6. Java_SelectItem

This library is to select an item in a list element in a Java application.

Table 4-8. "Java_SelectItem" library property items

Library name	Property item	Description
Java_SelectItem	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the list element in which you want to select an item.
	Type_of_specified_values	When selecting "index," specify an index of a list item in "Value." When selecting "text," specify a value of a list item in "Value."
	Value	What to set depends on the selection of "Type_of_specified_values."
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.7. Operations to select multiple items in a list

"Java_SelectMultipleItems" is used to select multiple items in a list as shown in the figure below. A list has two variations: a multiple selection list which multiple items can be selected, and a single selection list which only one item can be selected. This library operates a multiple selection list.

Figure 4-2. Example of a multiple selection list

When changing the selection from "Before the operation" to "After the operation" shown in the figure below, first use "Java_UnselectAllItems" to clear the selection of "German" and "French." Next, use "Java_SelectMultipleItems" to select "English" and then select "Japanese."

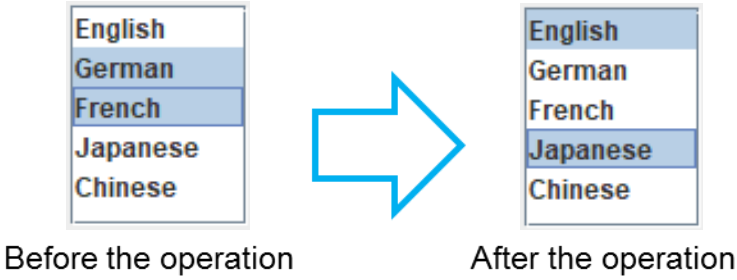

Figure 4-3. Example of selecting multiple items in the list

4.7.1. Java_SelectMultipleItems

This library is to select an item in a multiple selection list element in a Java application.

Table 4-9. "Java_SelectMultipleItems" library property items

Library name	Property item	Description
Java_SelectMultipleItems	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the list element in which you want to select an item.
	Type_of_specified_values	When selecting "index," specify an index of a list item in "Value." When selecting "text," specify a value of a list item in "Value."
	Value	What to set depends on the selection of "Type_of_specified_values."
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.7.2. Java_UnselectMultipleItems

This library is to unselect an item in a multiple selection list element in a Java application.

Table 4-10. "Java_UnselectMultipleItems" library property items

Library name	Property item	Description
Java_UnselectMultipleItems	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the list element in which you want to unselect an item.
	Type_of_specified_values	When selecting "index," specify an index of a list item in "Value." When selecting "text," specify a value of a list item in "Value."
	Value	What to set depends on the selection of "Type_of_specified_values."
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout

		setting." The default value is 10,000.milliseconds.

4.7.3. Java_UnselectAllItems

This library is to unselect all items in a multiple selection list element in a Java application.

Table 4-11. "Java_UnselectAllItems" library property items

Library name	Property item	Description
Java_UnselectAllItems	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the list element in which you want to unselect all items.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.8. Java_GetCheckState

This library is to get the check state of an element (radio button, check box, toggle button) in a Java application.

- If it is checked, the string "true" will be stored in the specified variable.
- If it is unchecked, the string "false" will be stored in the specified variable.

Table 4-12. "Java_GetCheckState" library property items

Library name	Property item	Description
Java_GetCheckState	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the element of which you want to get the check state.
	Variable_to_store_the_value	Specify a variable to store the acquired value.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.9. Java_IsEnabled

This library is to get the enabled/disabled state of an element in a Java application.

- If it is enabled (active), the string "true" will be stored in the specified variable.
- If it is disabled (inactive), the string "false" will be stored in the specified variable.

Table 4-13. "Java_IsEnabled" library property items

Library name	Property item	Description
Java_IsEnabled	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the element of which you want to get the enabled/disabled state.
	Variable_to_store_the_value	Specify a variable to store the acquired value.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.10. Java_GetSelectedItem

This library is to get a selected item in a list element in a Java application.

Table 4-14. "Java_GetSelectedItem" library property items

Library name	Property item	Description
Java_GetSelectedItem	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the list element in which you want to get a selected item.
	Type_of_specified_values	Select "index" to get an index of the selected list item. Select "text" to get a value of the selected list item.
	Variable_to_store_the_value	Specify a variable to store the acquired value.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.11. Java_GetAllItems

This library is to output values of all items in a list element in a Java application to a text file.

Table 4-15. "Java_GetAllItems" library property items

Library name	Property item	Description
Java_GetAllItems	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the list element in which you want to get all items.
	File_name	Specify a file to output the values of all list items with an absolute path or a relative path. Enter directly, or set with a variable.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.12. Java_SelectTab

This library is to select a tab in a tabbed pane element in a Java application.

Table 4-16. "Java_SelectTab" library property items

Library name	Property item	Description
Java_SelectTab	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the tabbed pane element in which you want to select a tab.
	Type_of_specified_values	When selecting "index," specify an index of a tab in "Value." When selecting "text," specify a title of a tab in "Value."
	Value	What to set depends on the selection of "Type_of_specified_values."
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout setting." The default value is 10,000 milliseconds.

4.13. Java_GetValueInTable

This library is to get a value from a cell in a table element in a Java application.

A value of a cell refers to a string displayed in a Java application.

Table 4-17. "Java_GetValueInTable" library property items

Library name	Property item	Description
Java_GetValueInTable	WinID name	Select a target Java application window from the drop-down list.
	Select target window	Click the button to select a target Java application window.
	JPath	Set JPath for the table element in which you want to get a value.
	Row_number	Set the row number of the cell you want to get a value from.
	Column_number	Set the column number of the cell you want to get a value from.
	Variable_to_store_the_value	Specify a variable to store the acquired value.
	Timeout setting	Select which timeout setting to use from among following selections. ・Use "Scenario information" The timeout value set in the "Scenario information" window is used. ・Use "Option" The timeout value set in the "Option" window is used. ・Use this "Property" The value set for "Timeout(msec)(optional)" is used.
	Timeout (msec)(optional)	Specify the waiting time to find the specified element. This value is used when 'Use this "Property"' is selected for "Timeout

		setting." The default value is 10,000 milliseconds.

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