

NTT ADVANCED TECHNOLOGY CORPORATION

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1. Introduction

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

1.1. Trademarks

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 - *2 The official name of VBScript is Microsoft Visual Basic Scripting Edition.
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1.2. Notes on this document

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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."



ne "Other programs installed" section, check the box of " u may need to scroll down.)	Enable Java Acce	ss Bridge.'
e computer without a display		
☆ ↑ ⑧ ≪ Ease of > Use the computer without a display ~ ひ	,○ Search Control P	Panel
Use the computer without a display When you select these tools, they will automatically start each time you sign in.		^
Hear text read aloud		
Turn on Narrator		
Narrator reads aloud any text on the screen. You will need speakers.		
Turn on Audio Description Hear descriptions of what's happening in videos (when available).		
Set up Text to Speech		
Adjust time limits and flashing visuals		
Turn off all unnecessary animations (when possible)		
How long should Windows notification dialog boxes stay open?		
5 seconds v		
See also		
Audio Devices and Sound Themes		
Learn about additional assistive technologies online Other programs installed		
These programs are available on this computer. Running more than one at a ti	me might cause conflicts.	
Java Access Bridge, from Oracle, Inc. providing Assistive Technology access to Enable Java Access Bridge	Java applications	
ОК	Cancel Apply	
Figure 1-3. Checking "Enable Java Acces	s Bridge"	
e application is already running, restart it so that WinAd	ctor 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."



)	In the "Other programs installed" section, uncheck the box of "Enable Ja	va A	ccess
	Bridge." (You may need to scroll down.)		
٢	Use the computer without a display —		×
<i>\</i>	→ → ↑ 🚱 « Ease of → Use the computer without a display v 👌 🔎 Search Control P	anel	
			^
	Use the computer without a display When you select these tools, they will automatically start each time you sign in.		
	Hear text read aloud		
	Turn on Narrator		
	Narrator reads aloud any text on the screen. You will need speakers.		
	Turn on Audio Description		
	Hear descriptions of what's happening in videos (when available).		
	Set up Text to Speech		
	Adjust time limits and flashing visuals		
	✓ Turn off all unnecessary animations (when possible)		
	How long should Windows notification dialog boxes stay open?		
	5 seconds		
	See also		
	Audio Devices and Sound Themes Learn about additional assistive technologies online		
	Other programs installed		
	These programs are available on this computer. Running more than one at a time might cause conflicts.		
	Java Access Bridge, from Oracle, Inc. providing Assistive Technology access to Java applications		
	Enable Java Access Bridge		
			~
	OK Cancel Apply		
	Figure 1-6. Unchecking "Enable Java Access Bridge"		
)	Rename ".accessibility.properties."		
,	Rename the file ".accessibility.properties" saved in C:\Users\[User	namı	el to
			5] [0
	".accessibility.properties.bak."		
)	Log off Windows.		
,	After logging on to Windows again, confirm that the application that has n	ot w	orkod
			UNCU
	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.

No Library name		Availability for Java GUI toolkit		
		Swing	AWT	
1	Java_GetCheckState	\bigcirc	0	
2	Java_lsEnabled	0	0	
3	Java_GetValue	0	Δ	
			① Available for Jpath:text	
			② Unavailable for Jpath:label	
4	Java_GetSelectedItem	\bigcirc	Δ	
			① Jpath:list	
			Available for type="index"	
			Unavailable for type="text"	
			② Unavailable for Jpath:combo box	
5	Java_SelectItem	\bigcirc	Δ	
			① Jpath:list	
			Available for type="index"	
			Unavailable for type="text"	
			② Unavailable for Jpath:combo box	
6	Java_UnselectMultipleItems	\bigcirc	Δ	
			Available for type="index"	
			Unavailable for type="text"	
7	Java_UnselectAllItems	\bigcirc	0	
8	Java_SelectMultipleItems	\bigcirc	Δ	
			Available for type="index"	
			Unavailable for type="text"	
9	Java_SelectTab	\bigcirc	_	
			No tabs exist in AWT	
10	Java_Click	\bigcirc	0	
11	Java_SetValue	0	×	

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

12	Java_GetValueInTable	\bigcirc	-
			No tables exist in AWT
13	Java_GetAllItems	0	×
14	Java_Check	0	0
15	Java_Uncheck	0	0

* [Legend] \bigcirc : Available \triangle : 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 standard user 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.

JPath Acquisition Tool	×
Control	•
JPath:	

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.

Γ		– – ×
!	ile Look&Feel Themes Options	
JPath Acquisition		🗱 🗣 🚺 🗂 📰 🐃 🛱
JPath Acquisition		Image: Arrow of the second
F	ress Shift-F10 to activate popup menu	

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.

JPath Acquisition Tool	×
Control push button	•
JPath: //frame,SwingSet2/layered pane/panel/page tab li	

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

WinActor	Java Application Operation Scenar	io Creation Manual
2.4. Copying	g JPath	
Click the "	button at the lower right of the JPath Acquisitio	on Tool window.
	JPath Acquisition Tool	×
	Control push button	•
	JPath: /frame,SwingSet2/layered pane/panel/page tab	

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.

	h h	:			4'
e the JPath Int V."	to the JPath	Input field on t	ne Property	window of the	e action node w
the [Update] b	outton to set	JPath.			
L-1 J					
Property					▼ X
liopeny		Run Sc	ript		
Name	Java_Click				
Comment	-				
	cript Annota	ation outton, checkbox, a	nd more) of la	va application	
"JPath" "Timeout setti The timeout •Use "Scenar The value se •Use "Option The value se •Use this "Pr The value se "Timeout(mse Specify the ti This value is	on Icon] : Hold : Set JPath ing": value is adopt rio information et in the Use " operty" et for "Timeou cc)(optional)": ime to wait for	Scenario informatio Option" is used. t(msec)(optional)" i an element on a w e this "Property"' is	to specify Java e clicked. e selection. on" is used. s used.	a application to b	e operated.
w	VinID name (Desktop)		-)
	JPath V	alue=> /frame,Swi	ingSet2/layere	d pane/panel/p	-
Time		lse "Scenario inforr			-
nmeout(ms	ec)(optional)	Value=>			
	Update			Restore	

WinActor Java Application Operation Scenario Creation Manual 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. JPath Acquisition Tool Control Image: Control Image: push button JPath: //frame,SwingSet2/layered pane/panel/page tab li



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.



WinActor Java Application Operation Scenario Creation Manual 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. ■ File(F) View(V) Tool(T) Help(H) * NewScenario.ums7 [edit] - WinActor _ 🗆 × 🐚 🗅 🔇 I 🕗 🕓 I **•** 0-0 h Library Ŧ Welcome * NewScenario.ums7 b 1 Θ ÷. 0 F9 Partial match 🔻 Se Search string Search Ŧ Main + Java_Click Java_GetAllItems Scenario Java_GetCheckState Start Java_GetSelectedItem Java_GetValue Java_GetValueInTable Java_IsEnabled Java_SetValue Java_SelectItem Java_SelectMultipleItems Java_SelectTab ↓ Java_SetValue End Java_Uncheck Java_UnselectAllitems Library Favorites Node Evaluation edition Editing Node property was updated. Node ID: 8 🥑 No errors detected. Displayed nodes / All nodes: 1 / 1 Zoom level: 100% Figure 3-2. Placing "Java_SetValue" in the Scenario box

	Property	→ ×
	Run Script	
	Name Java_SetValue	
	Comment	
	Settings Script Annotation	
	Set values to the text element in Java application.	
	[Target selection Icon] : Specify Java application to operate. "JPath" : Set JPath of an element to get the value. "Set_value" : Set it with direct input or variable.	
	WinID name	
	JPath Value=>	
	Set_value Value=>	
	Timeout setting Use "Scenario information" 🔻	
	Timeout(msec)(optional) Value=>	
	Update Restore	
L		

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

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	Specify the waiting time to find the specified
	(msec)(optional)	element.
		This value is used when 'Use this "Property"' is
		selected for "Timeout setting."
		The default value is 10,000 milliseconds.

Table 3-1. "Java_SetValue" library property items

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.

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	Specify the waiting time to find the specified
	(msec)(optional)	element.
		This value is used when 'Use this "Property"' is
		selected for "Timeout setting."
		The default value is 10,000 milliseconds.

Table 4-1. "Java_Click" library property items

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.



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	Specify the waiting time to find the specified
	(msec)(optional)	element.
		This value is used when 'Use this "Property"'
		is selected for "Timeout setting."
		The default value is 10,000 milliseconds.

Table 4-2. "Get check state" 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	Specify the waiting time to find the
	(msec)(optional)	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

4.3. Java_Uncheck

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

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_	Specify a variable to store the acquired
	value	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	Specify the waiting time to find the specified
	(msec)(optional)	element.
		This value is used when 'Use this "Property"'
		is selected for "Timeout setting."
		The default value is 10,000 milliseconds.

Table 4-4. "Get check state" 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	Specify the waiting time to find the
	(msec)(optional)	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

4.4. Java_SetValue

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

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.

Table 4-6. "Java_SetValue" library property items

4.5. Java_GetValue

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

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_	Specify a variable to store the acquired value.
	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	Specify the waiting time to find the specified
	(msec)(optional)	element.
		This value is used when 'Use this "Property"'
		is selected for "Timeout setting."
		The default value is 10,000 milliseconds.

Table 4-7. "Java_GetValue" library property items

4.6. Java_SelectItem

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

Library name	Property item	Description	
Java_SelectItem	WinID name	Select a target Java application window from the	
		drop-down list.	
	Select target	Click the button to select a target Java	
	window	application window.	
	JPath	Set JPath for the list element in which you want	
		to select an item.	
	Type_of_specified_	When selecting "index," specify an index of a list	
	values	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	Specify the waiting time to find the specified	
	(msec)(optional)	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."





4.7.1. Java_SelectMultipleItems

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

Library name	Property item	Description
Java_SelectMultipleItems	WinID name	Select a target Java application window
		from the drop-down list.
	Select target	Click the button to select a target Java
	window	application window.
	JPath	Set JPath for the list element in which
		you want to select an item.
	Type_of_specified	When selecting "index," specify an index
	_values	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	Specify the waiting time to find the
	(msec)(optional)	specified element.
		This value is used when 'Use this
		"Property"' is selected for "Timeout
		setting."
		The default value is 10,000 milliseconds.

Table 4-9. "Java_SelectMultipleItems" library property items

4.7.2. Java_UnselectMultipleItems

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

=	•	
Library name	Property item	Description
Java_UnselectMultipleItems	WinID name	Select a target Java application
		window from the drop-down list.
	Select target	Click the button to select a target Java
	window	application window.
	JPath	Set JPath for the list element in which
		you want to unselect an item.
	Type_of_specified	When selecting "index," specify an
	_values	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	Specify the waiting time to find the
	(msec)(optional)	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.

	—	
Library name	Property item	Description
Java_UnselectAllItems	WinID name	Select a target Java application window
		from the drop-down list.
	Select target	Click the button to select a target Java
	window	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	Specify the waiting time to find the
	(msec)(optional)	specified element.
		This value is used when 'Use this
		"Property" is selected for "Timeout
		setting."
		The default value is 10,000 milliseconds.
		The default value is 10,000 milliseconds.

Table 4-11. "Java_UnselectAllItems" library property items

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.

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	Specify a variable to store the acquired
	_value	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	Specify the waiting time to find the
	(msec)(optional)	specified element.
		This value is used when 'Use this
		"Property"' is selected for "Timeout
		setting."
		The default value is 10,000 milliseconds.

Table 4-12. "Java_GetCheckState" library property items

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.

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_	Specify a variable to store the acquired
	value	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	Specify the waiting time to find the specified
	(msec)(optional)	element.
		This value is used when 'Use this "Property"'
		is selected for "Timeout setting."
		The default value is 10,000 milliseconds.

Table 4-13. "Java_IsEnabled" library property items

4.10. Java_GetSelectedItem

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

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

Table 4-14. "Java_GetSelectedItem" library property items

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.

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	Specify the waiting time to find the specified
	(msec)(optional)	element.
		This value is used when 'Use this "Property"
		is selected for "Timeout setting."
		The default value is 10,000 milliseconds.

Table 4-15. "Java_GetAllItems" library property items

4.12. Java_SelectTab

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

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.

Table 4-16. "Java_SelectTab" library property items

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.

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 wan
		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_	Specify a variable to store the acquired
	value	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 i
		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	Specify the waiting time to find the
	(msec)(optional)	specified element.
		This value is used when 'Use this
		"Property" is selected for "Timeout

Table 4-17. "Java	GetValueInTable"	library pro	operty items
			porty itomo

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