



akaBot Studio – User Guide

How to Use Java Activities to Automate on Java Applications

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Java Access Bridge

For **akaBot Studio** to interact with Java Applications, Java Access Bridge needs to be enabled. Java Access Bridge can be enabled using one of two methods: Through **Windows Ease of Access Center** and through **Windows Command Prompt**. Currently, akaBot Studio supports interacting with Java Applications developed with Java AWT (Java Swing, Oracle forms ...).

Prerequisite: Java is installed.

Enabling Java Access Bridge through Control Panel

Navigate to: **Control Panel** -> **Ease of Access Center** -> **Make the computer easier to see**

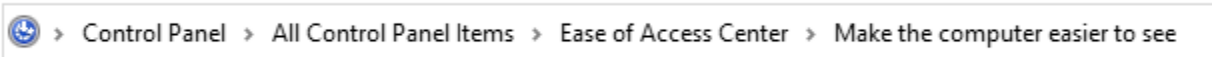


Figure 1 Control Panel - Ease of Access Center

Scroll down and select **Enable Java Access Bridge**.

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

Figure 2 Select 'Enable Java Access Bridge'

Save and close.

Note: Unchecking **Enable Java Access Bridge** does not disable Java Access Bridge.

Enabling Java Access Bridge through Command Prompt

Open Command Prompt



Figure 3 Command Prompt

Use one of following commands to enable Java Access Bridge.

Enabling Java Access Bridge from **JRE**:

```
%JRE_HOME%\bin\jabswitch -enable
```

Figure 4 Enable Java Access Bridge from JRE

```
%JAVA_HOME%\bin\jabswitch -enable
```

Figure 5 Enable Java Access Bridge from JDK

If “The system cannot find the path specified.” message is returned, user can try executing following commands:

Use:

```
"C:\Program Files\Java\jdk1.8.0_XX\bin\jabswitch" –enable
```

or

```
"C:\Program Files (x86)\Java\jdk1.8.0_XX\bin\jabswitch" –enable
```

for enabling Java Access Bridge using JDK (XX stands for two digits, navigate to "C:\Program Files\Java" or "C:\Program Files (x86)\Java" for actual value).

Use:

```
"C:\Program Files\Java\jreX\bin\jabswitch" –enable
```

or

```
"C:\Program Files (x86)\Java\jreX\bin\jabswitch" –enable
```

for enabling Java Access Bridge using JRE (X stands for a digit, navigate to "C:\Program Files\Java" or "C:\Program Files (x86)\Java" for actual value).

If the command is executed successfully, following message will appear:



```
The Java Access Bridge has been enabled.
```

Figure 6 Java Access Bridge Enabled

Activities

akaBot Studio provides the following activities:

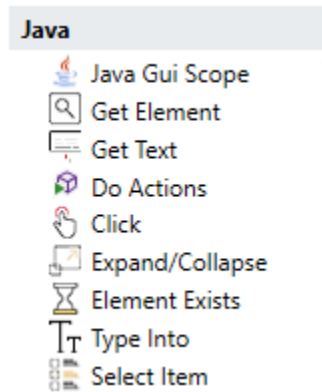


Figure 7 Java Activities

Java GUI Scope

Overview

Java GUI Scope Activity initializes a new or attaches an existing Java Application. If any Java Activity is put inside the activity container of the **Java GUI Scope** Activity, it would take the Java Application of the **Java GUI Scope** as the Scope for finding the Java Element, rather than having to search for the Java Element from every Java Instances available.

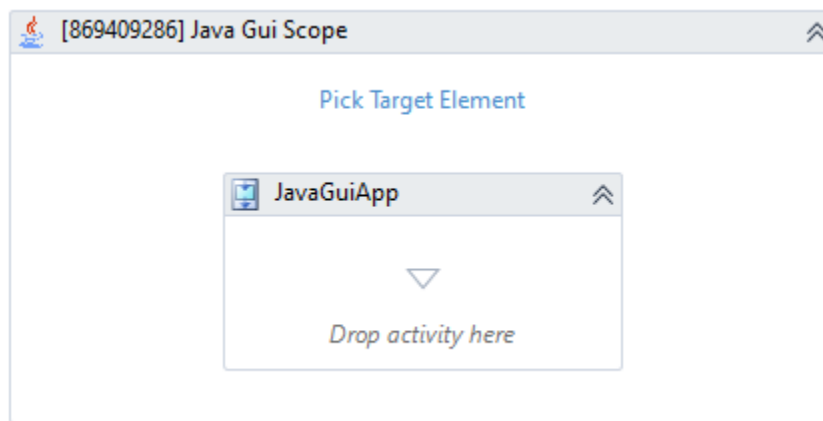


Figure 8 Java GUI Scope

Properties

<i>Input</i>	
Process Path	File path for the Java Application to be opened. A new window is always opened if this property is set. This property cannot be set at the same time with Selector property.
Selector	Selector string for the Java Application Window to be attached or opened. If an existing Java Window cannot be found by the selector, a new Window will

	attempt to open. This property cannot be set at the same time with Process Path property.
Search Size	Number of element to be cached.
<i>Misc</i>	
Public	Specifies whether the activity data is logged during process execution.
<i>Options</i>	
Dispose On Completed Or Faulted	Specifies whether the Java Application is closed when the execution is successful or faulted.
<i>Output</i>	
Java Access Bridge	Output JavaElement for the Java Application.

Get Element

Overview

Get Element Activity finds and returns a Java Element.

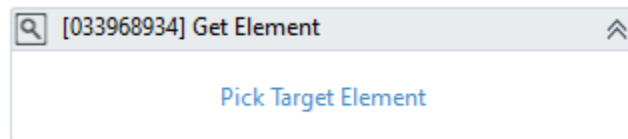


Figure 9 Get Element

Properties

<i>Common</i>	
Continue On Error	Specifies whether the activity should continue when it fails to execute.
Timeout MS	Timeout in milliseconds for the activity to try to execute the activity before throwing an exception.
<i>Input</i>	
From	Existing Java Element to define the scope for finding the Java Element.
Input Element	Existing Java Element to be used for the activity. This property cannot be set at the same time with Selector property.
Selector	Selector string which is used to search for the Java Element. This property cannot be set at the same time with Input Element property.
<i>Misc</i>	
Public	Specifies whether the activity data is logged during process execution.
<i>Output</i>	
Output Element	Output JavaElement for the activity.

Get Text

Overview

Get Text Activity finds and extracts text from a Java Element.

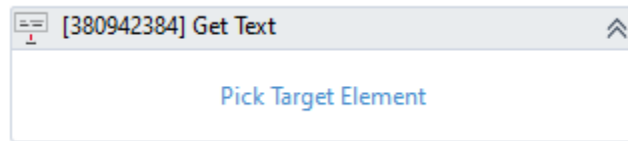


Figure 10 Get Text

Properties

<i>Common</i>	
Continue On Error	Specifies whether the activity should continue when it fails to execute.
Timeout MS	Timeout in milliseconds for the activity to try to execute the activity before throwing an exception.
<i>Input</i>	
From	Existing Java Element to define the scope for finding the Java Element.
Input Element	Existing Java Element to be used for the activity. This property cannot be set at the same time with Selector property.
Selector	Selector string which is used to search for the Java Element. This property cannot be set at the same time with Input Element property.
<i>Misc</i>	
Public	Specifies whether the activity data is logged during process execution.
<i>Output</i>	
Output Text	Result text of the activity.

Click

Overview

Click Activity perform click action on a specific Java Element.

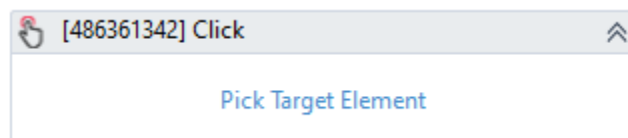


Figure 11 Click

Properties

<i>Common</i>	
Continue On Error	Specifies whether the activity should continue when it fails to execute.
Timeout MS	Timeout in milliseconds for the activity to try to execute the activity before throwing an exception.
<i>Input</i>	
Click Type	Type of Click action to be executed (Left Click, Left Double Click, Right Click, Right Double Click).
From	Existing Java Element to define the scope for finding the Java Element.

Input Element	Existing Java Element to be used for the activity. This property cannot be set at the same time with Selector property.
Selector	Selector string which is used to search for the Java Element. This property cannot be set at the same time with Input Element property.
<i>Misc</i>	
Offset X	Offset value of X axis where the click action is executed.
Offset Y	Offset value of Y axis where the click action is executed.
Public	Specifies whether the activity data is logged during process execution.
<i>Options</i>	
Animate Mouse	Specifies whether the mouse move animation is simulated.
Virtual Click	Specifies whether the invoke action of the element is executed rather than using mouse to move to the element and execute the click action.

Type Into

Overview

Type Into Activity sends keystrokes into a Java input field.

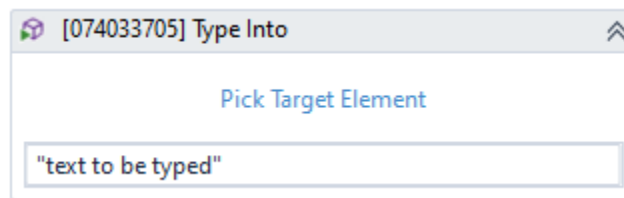


Figure 12 Type Into

Properties

<i>Before Type</i>	
Click	Specifies whether the Java Element is clicked before typing.
Empty Field	Specifies whether field value is set to empty before typing.
Set Focus	Specifies whether the Java Element is focused before typing.
<i>Common</i>	
Continue On Error	Specifies whether the activity should continue when it fails to execute.
Timeout MS	Timeout in milliseconds for the activity to try to execute the activity before throwing an exception.
<i>Input</i>	
From	Existing Java Element to define the scope for finding the Java Element.
Input Element	Existing Java Element to be used for the activity. This property cannot be set at the same time with Selector property.
Selector	Selector string which is used to search for the Java Element. This property cannot be set at the same time with Input Element property.
Text	Input text to be sent into the input field.
<i>Misc</i>	
Public	Specifies whether the activity data is logged during process execution.
<i>Options</i>	

Delay Between Keys	Delay (in milliseconds) between keystrokes. Default value is 10 and maximum value is 1000.
Virtual Type	Specifies whether the method of setting the Java Element value is used rather than using the keyboard to send keystrokes to the input field.
<i>Output</i>	
Success	Output value that specifies whether the typing action has succeeded or not.

Expand/Collapse

Overview

Expand/Collapse Activity toggles the expand/collapse state of a Java Element.

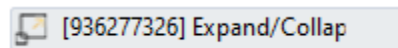


Figure 13 Expand/Collapse

Properties

<i>Common</i>	
Continue On Error	Specifies whether the activity should continue when it fails to execute.
Timeout MS	Timeout in milliseconds for the activity to try to execute the activity before throwing an exception.
<i>Input</i>	
From	Existing Java Element to define the scope for finding the Java Element.
Input Element	Existing Java Element to be used for the activity. This property cannot be set at the same time with Selector property.
Selector	Selector string which is used to search for the Java Element. This property cannot be set at the same time with Input Element property.
<i>Misc</i>	
Public	Specifies whether the activity data is logged during process execution.

Element Exists

Overview

Element Exists Activity verifies if a Java Element exists or not.

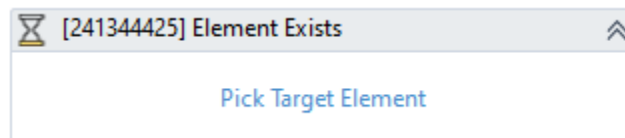


Figure 14 Element Exists

Properties

<i>Common</i>	
Continue On Error	Specifies whether the activity should continue when it fails to execute.
Timeout MS	Timeout in milliseconds for the activity to try to execute the activity before throwing an exception.

<i>Input</i>	
From	Existing Java Element to define the scope for finding the Java Element.
Input Element	Existing Java Element to be used for the activity. This property cannot be set at the same time with Selector property.
Selector	Selector string which is used to search for the Java Element. This property cannot be set at the same time with Input Element property.
<i>Misc</i>	
Public	Specifies whether the activity data is logged during process execution.
<i>Output</i>	
Exists	Output value that specifies whether that element exists or not.

Select Item

Overview

Select Item Activity selects an item from a Java Combo box or List Box.

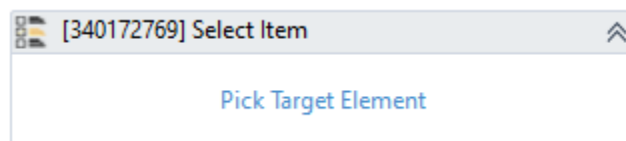


Figure 15 Select Item

Properties

<i>Common</i>	
Continue On Error	Specifies whether the activity should continue when it fails to execute.
Timeout MS	Timeout in milliseconds for the activity to try to execute the activity before throwing an exception.
<i>Input</i>	
From	Existing Java Element to define the scope for finding the Java Element.
Index	Index value of the item to be selected.
Input Element	Existing Java Element to be used for the activity. This property cannot be set at the same time with Selector property.
Selector	Selector string which is used to search for the Java Element. This property cannot be set at the same time with Input Element property.
<i>Misc</i>	
Public	Specifies whether the activity data is logged during process execution.

Do Actions

Overview

Do Actions Activity executes actions that are supported by the Java Application (using action names).

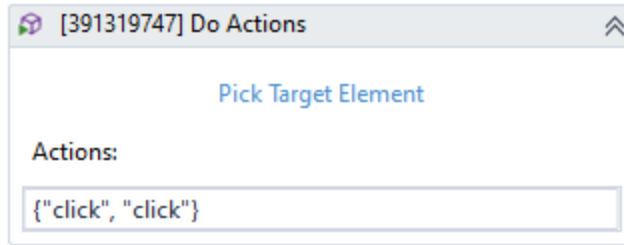


Figure 16 Do Actions

Properties

<i>Common</i>	
Continue On Error	Specifies whether the activity should continue when it fails to execute.
Timeout MS	Timeout in milliseconds for the activity to try to execute the activity before throwing an exception.
<i>Input</i>	
Actions	Collection of action names to be executed (maximum of 32 actions for each activity execution).
From	Existing Java Element to define the scope for finding the Java Element.
Input Element	Existing Java Element to be used for the activity. This property cannot be set at the same time with Selector property.
Selector	Selector string which is used to search for the Java Element. This property cannot be set at the same time with Input Element property.
<i>Misc</i>	
Public	Specifies whether the activity data is logged during process execution.
<i>Output</i>	
Output	Output value that specifies whether all of the input actions have succeeded or not.