



Release Note for Ver.7.5.0

NTT Advanced Technology Corporation

What is the WinActor Ver. 7 Series?

This is a completely new WinActor that is a remake of the WinActor Ver. 6 series. The Ver. 7 series further evolve and deepen the "field-friendly" concept, which is the most distinctive feature of the series, and pursue an RPA that is easy to use for everyone and can be adapted not only for beginners but also for advanced programmers.

Ver. 7.5.0 has the following features:

- Scenario Creating Guide
- Scenario Creating with Generative AI
- Scenario Editing Assistance
- Improved Browser Operation
- Python script execution
- Image Matching Property Improvement
- UI Automation Improvement
- Library Expansion
- Box Support
- Email Notification for Online License Registration

1 New features

This section describes the new features that have been added in Ver. 7.5.0.

This release note uses the following notation to explain the differences between licenses and functions.



When this notation appears, the function is available in the NL version.



When this notation appears, the function is available in the FL version.



When this notation appears, the function is available in the full-featured version.



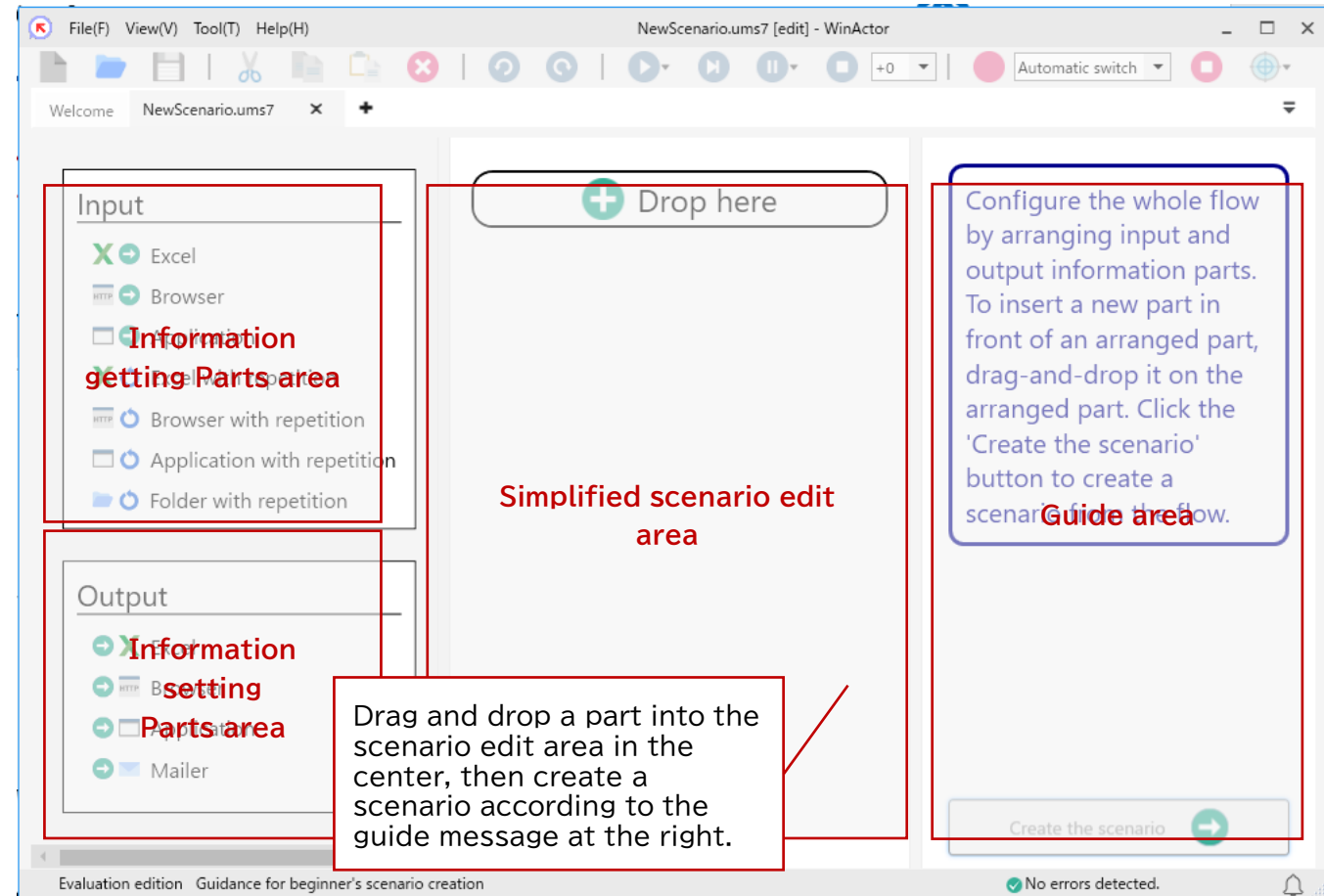
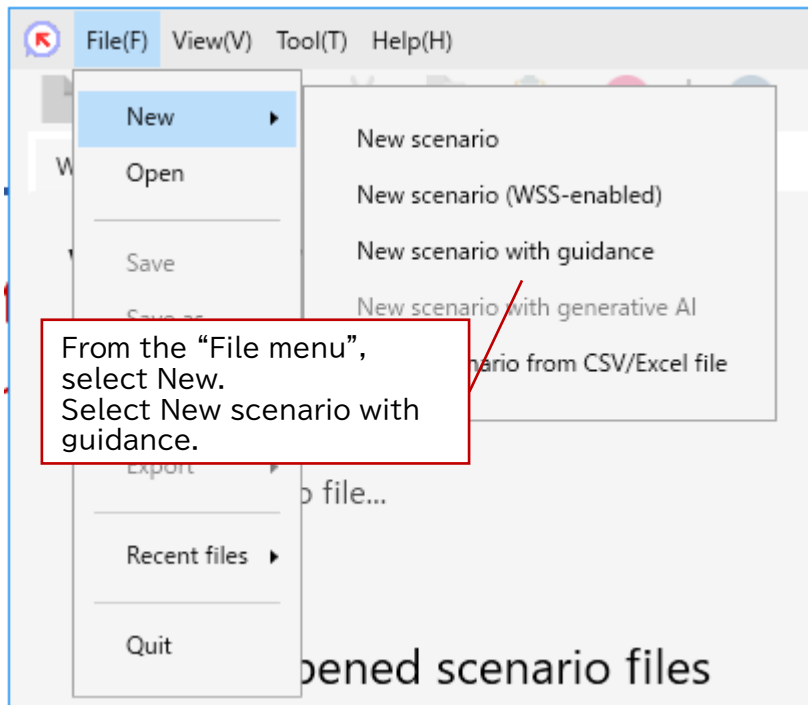
When this notation appears, the function is available in the execution version.



When this notation appears, the function is available in the management-execution version.

Scenario Creating Guide (1/3)

To make it **easier** for WinActor beginners to create scenarios, we have added a scenario creation guide that **allows you to create scenarios by simply following the guide.**



*For details, refer to the Operation Manual "1.19 Scenario creation with guidance"

Scenario Creating Guide (2/3)

Guide messages appear one step at a time for each setting item, as shown below. This helps you make the settings without getting lost.



Step 1: The 'File_name' dropdown is set to 'Value=>'. A guide message says: "Configure the dropped part. Click the 'Create the scenario' button to create a scenario from the flow." A red dashed box highlights the 'Launch' button with the message: "Drag and drop the file or specify the file name manually, and click the 'Launch' button. (*If the file name is unconfigured or the file does not exist, the 'File selection' dialog is displayed when the 'Launch' button is clicked.)"

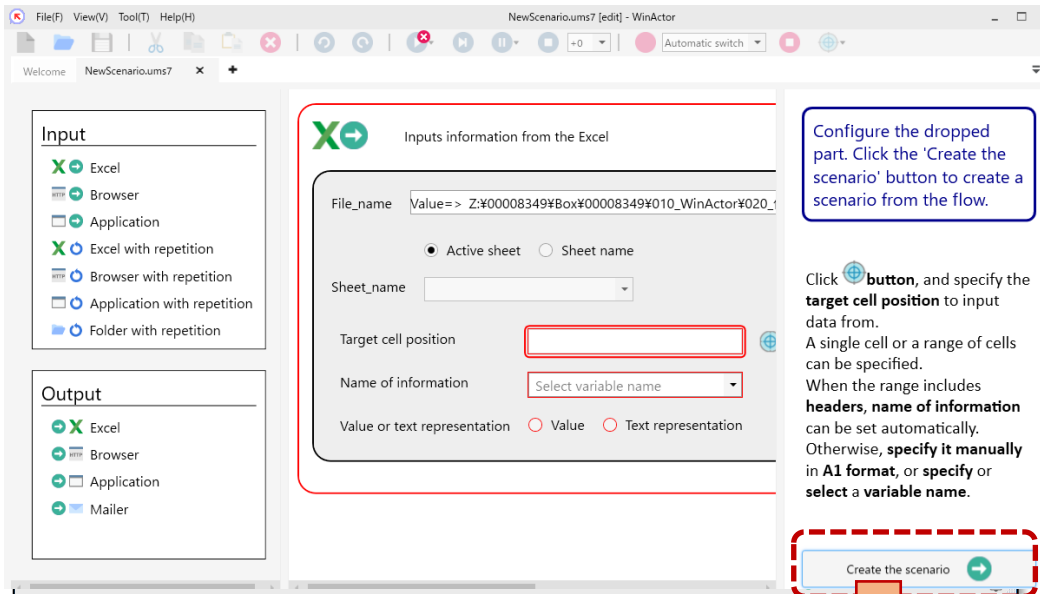
Step 2: The 'File_name' dropdown is set to 'Z:\00008349¥Box¥00008349¥010_WinActor¥'. A guide message says: "Configure the dropped part. Click the 'Create the scenario' button to create a scenario from the flow." A red dashed box highlights the 'Launch' button with the message: "Open the Excel file by clicking the 'Launch' button. (*If the file name is unconfigured or the file does not exist, the 'File selection' dialog is displayed when the 'Launch' button is clicked.)"

Step 3: The 'Active sheet' radio button is selected. A guide message says: "Configure the dropped part. Click the 'Create the scenario' button to create a scenario from the flow." A red dashed box highlights the radio buttons with the message: "Check which sheet to operate on, the active sheet or the sheet name sheet selected from the drop-down list."

Step 4: The 'Target cell position' field is set to 'A1'. A guide message says: "Configure the dropped part. Click the 'Create the scenario' button to create a scenario from the flow." A red dashed box highlights the 'Target cell position' field with the message: "Click button, and specify the target cell position to input data from. A single cell or a range of cells can be specified. When the range includes headers, name of information can be set automatically. Otherwise, specify it manually in A1 format, or specify or select a variable name."

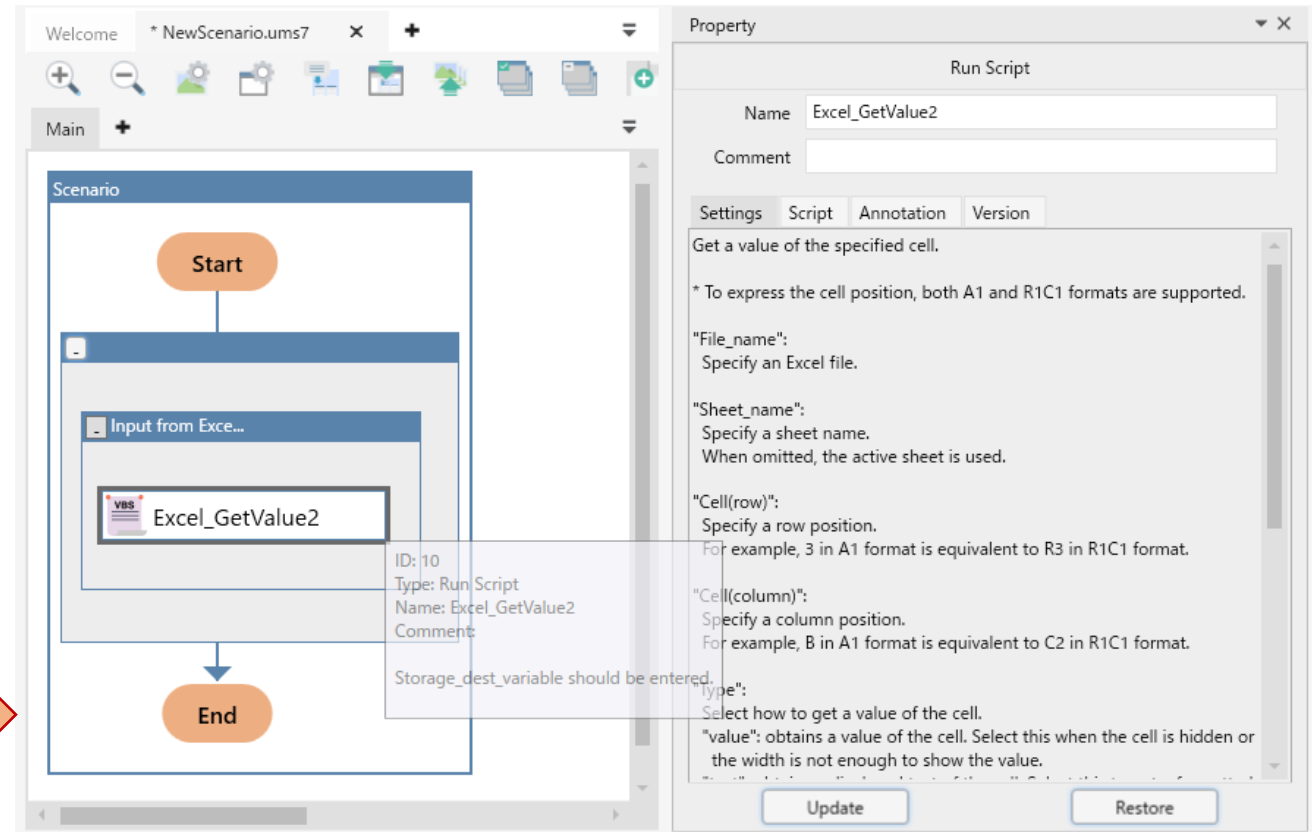
Scenario Creating Guide (3/3)

When you are finished, click the “Create the scenario” button in the lower right corner. Then, **a valid scenario will be created.**



Configure the dropped part. Click the 'Create the scenario' button to create a scenario from the flow.

Click button, and specify the **target cell position** to input data from. A single cell or a range of cells can be specified. When the range includes **headers, name of information** can be set automatically. Otherwise, **specify it manually in A1 format**, or **specify or select a variable name.**



Scenario Creating with Generative AI

In order to **create WinActor scenarios with Generative AI**, we have added a function to **create a model of scenario files using OpenAI or Azure OpenAI**.



Select [File] - [New]
Select [New scenario with generative AI]]

Set in advance from the "Generative AI" tab in the Option menu.

Enter the description of the scenario you want to create and click the OK button.

The model of the generated scenario may have some missing parts. Add or configure nodes as needed.

*To use this function, the user needs to create an account for OpenAI or Azure OpenAI.

*The input of the user and the data created by WinActor are sent to OpenAI or a server providing Azure OpenAI services.

*In a proxy environment, please set it in advance from the "Proxy server" tab of the Option menu.

*For details, refer to "1.20 Scenario creation with Generative AI" in the Operation Manual (WinActor Operation_Manual).

Scenario Editing Assistance (1/2)

In order to resolve scenario errors efficiently, **if an error occurs during scenario execution, candidates in the scenario are suggested, which would require corrections.**



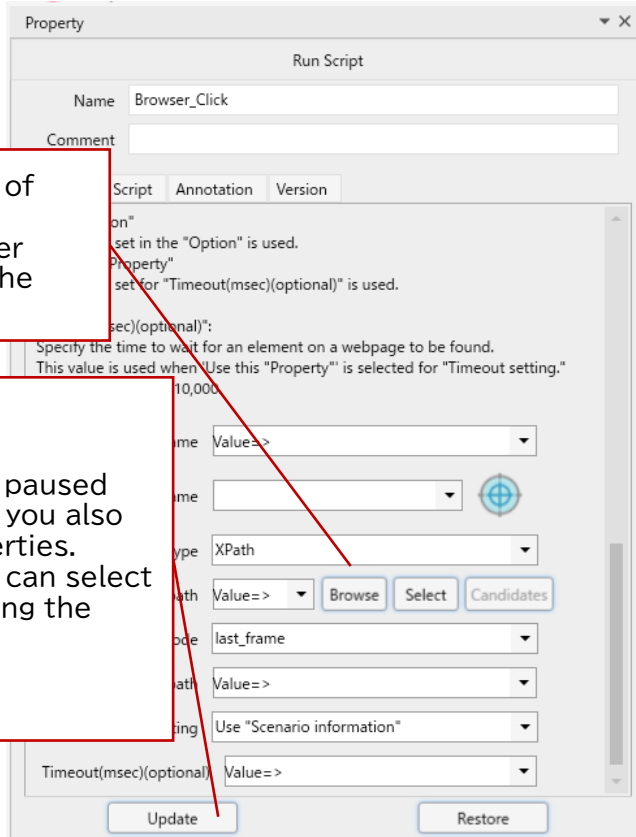
When an error occurs during scenario execution, the cause of the error may not be in the node where the scenario is running, but in the node that has been executed before.

In Ver. 7.5.0, when an error occurs during scenario execution, the location where the variable (used in the errored node) was last updated, will be output to the execution log. By referring to this information, you can quickly find the source of the error and correct the scenario.

The screenshot displays the software interface for scenario editing. On the left, a scenario flowchart shows a sequence: Start -> Input from Excel -> Excel Operation -> End. The 'Excel Operation' node is highlighted with a green 'X' icon. On the right, the 'Property' window for the 'Excel Operation' node is open, showing fields for Name, Comment, Operation (Get value), Source (Filename, Sheet name, Cell position), and Destination (Variable). At the bottom, the 'Log' window is visible, showing a list of execution events. A red dashed box highlights the last log entry: '2024-07-03 14:30:06.225+09:00 INFO Scenario file "NewScenario(2).ums7" was closed.' A red arrow points from this log entry to a text box on the right that says: 'Double-click the execution log to automatically focus on the node where the variable was last updated.'

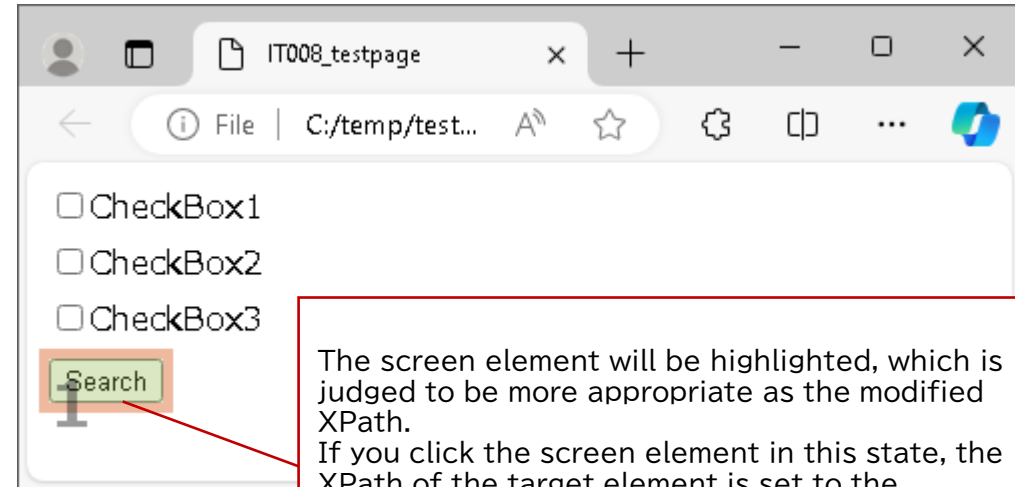
Scenario Editing Assistance (2/2)

To efficiently modify scenarios after web page design is changed, we have added a button to **suggest XPath modifications** when the web page is updated.



In the property window of the Browser Operation Library, click the Browser button, and then click the Candidate button.

Even while the scenario is paused due to an execution error, you also can edit and update properties. When an error occurs, you can select a new operation target using the Candidate button.



The screen element will be highlighted, which is judged to be more appropriate as the modified XPath. If you click the screen element in this state, the XPath of the target element is set to the property window. If there are multiple choices, a series of numbers will be assigned in the judged order.

*To use this function, a browser extension must be installed.

*The Candidate button will be activated if a proposal can be presented. For details, refer to the Operation Manual (WinActor Operation Manual) "3.8.5 Misc. tab, Table 3-56 No. 8" and the Browser Operation Scenario Creation Manual (WinActor_Browser_Operation_Scenario_Creation_Manual.pdf) "3.3. XPath 'Candidate' button."

Improved Browser Operation (1/2)

To **enable more web windows operation**, a CSS selector (Selector) has been added to the target element selection method for browser **operation**.



If the Path type is set to Selector, the target element can be specified with a CSS selector.

By using automatic recording or the Select button in the Property window to select an element,
if the element cannot be specified by using XPath, Path type is automatically set to Selector.
if the element can be specified by using XPath, Path will be acquired using XPath as before.

*To obtain the Path of a CSS selector by using automatic recording or the Select button in the Property window, a browser extension must be installed.

Improved Browser Operation (2/2)

Individual browser operation libraries can be used to manipulate target elements while selecting frames. It is no longer necessary to use individual frame selection libraries to switch frames. **Creation of scenarios involving browser operations becomes more efficient.**



Ver. 7.4 and earlier

Up to Ver. 7.4, it was necessary to perform "frame selection" every time a frame was crossed.

Ver. 7.5.0

In Ver. 7.5.0, you can select individual frame in each browser operation library.

Property Run Script

Name: Browser_Click

Comment:

Settings Script Annotation Version

Use "Option"
The value set in the "Option" is used.
Use this "Property"
The value set for "Timeout(msec)(optional)" is used.

"Timeout(msec)(optional)":
Specify the time to wait for an element on a webpage to be found.
This value is used when "Use this "Property" is selected for "Timeout setting."
The default value is 10,000.

Browser_name: Value=>

WinID name:

Path type: Selector

Element path: Value=> [Browse] [Select] [Candidates]

Frame selection mode: last_frame

Frame path: Value=>

Timeout setting: Use "Scenario information"

value=>

[Restore]

Set a combination of "Frame selection mode" and "Frame Path."
For nested frames, enter multiple Paths separated by semicolons ';',
From automatic recording or the property window, the Path of the frame will be automatically set.

*To obtain the Path of the CSS selector from automatic recording or the property window Select button, a browser extension must be installed.

Python script execution

To enable a wider variety of tasks, a new node for executing Python scripts is added.



"Python execution" has been added to the Action category of the Node Palette. You can use it by dragging and dropping like using other nodes.

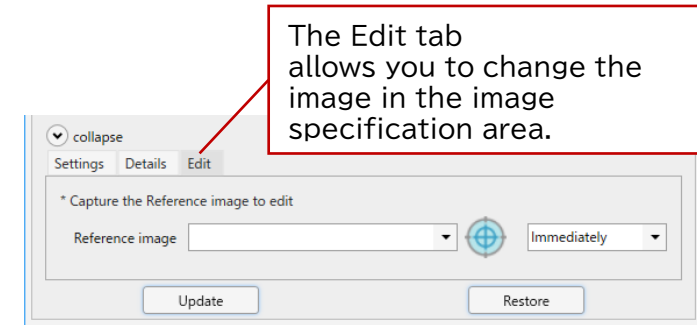
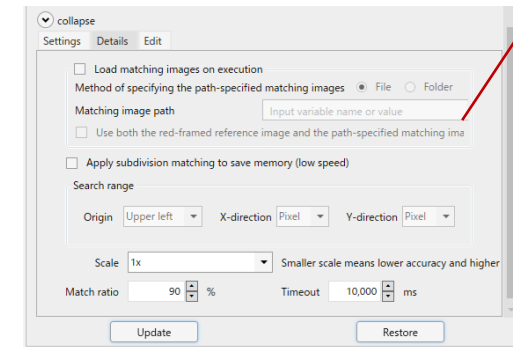
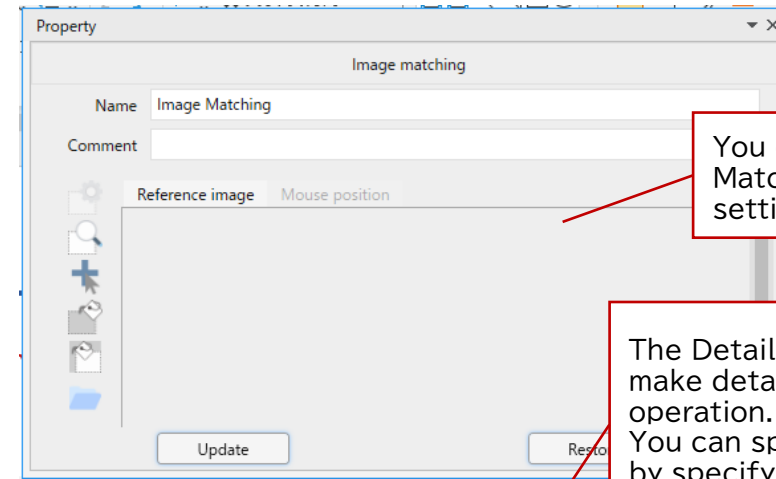
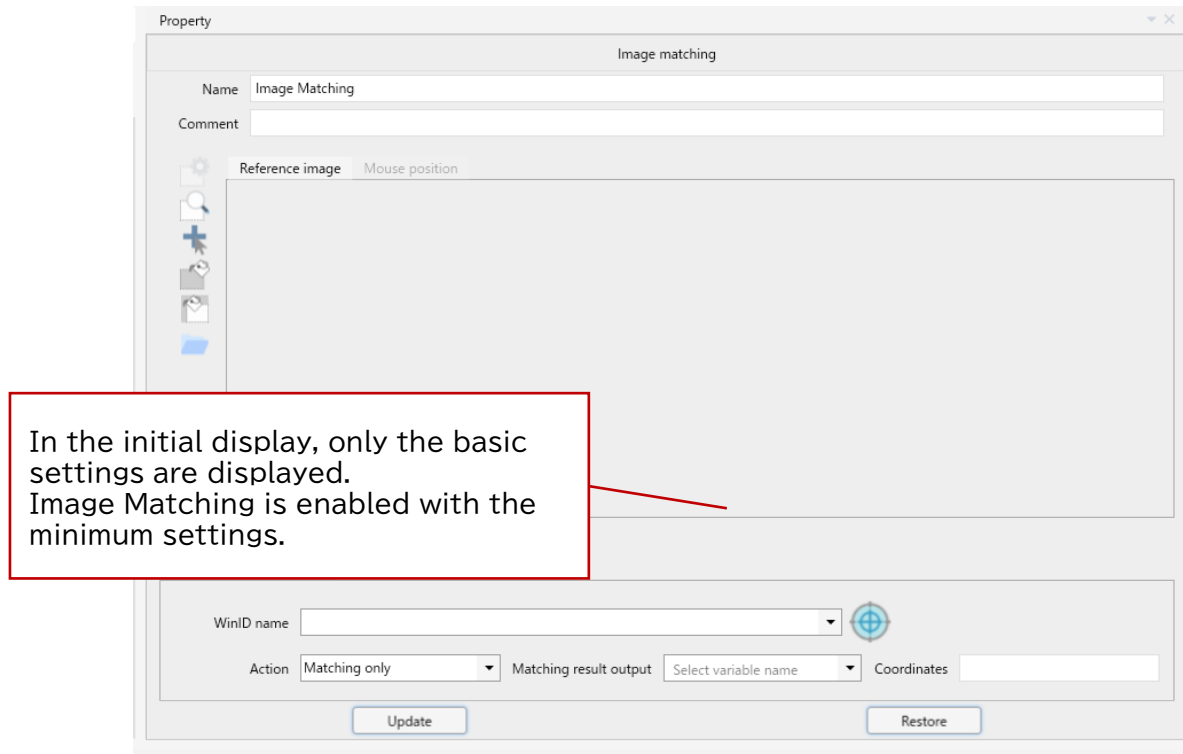
The Python execution engine is built-in in WinActor.
If you want to use other engine, change the settings from the Run tab in the Option screen.

The screenshot shows the WinActor interface. On the left, the Node Palette lists various actions, with 'Run Python' highlighted. In the center, a scenario diagram shows a 'Start' node leading to a 'Run Python' node, which then leads to an 'End' node. On the right, the 'Option' dialog for the 'Run Python' node is open, showing settings for file management, timeout (10,000 milliseconds), and Python engine selection (currently set to 'Use the built-in Python'). Below the 'Option' dialog, the 'Property' window for the 'Run Python' node is visible, showing fields for Name and Comment.

*For details, refer to "3.14 Option Dialog, Table 3-122 Run tab of the Option dialog", and "4.4.9 Run Python" in the Operation Manual (WinActor_Operation_Manual).

Image Matching Property Improvement

To make the **Image Matching node easier to use**, the structure of the Property window is revised.



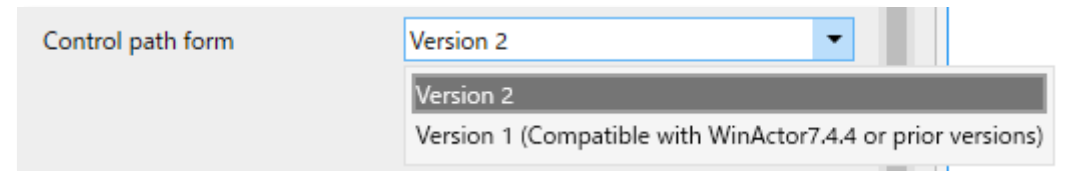
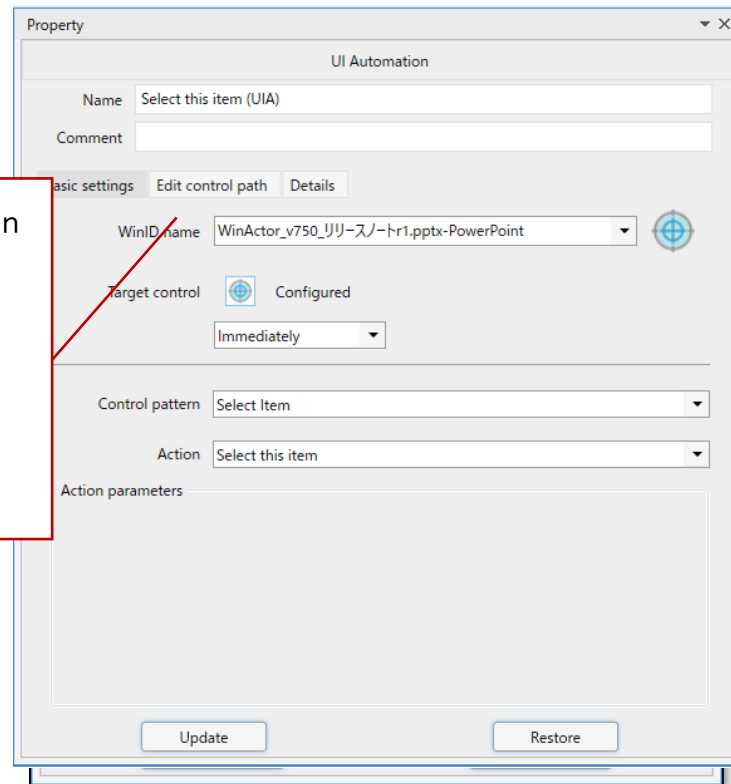
*The structures of the Property window for the Contour Matching node and the OCR Matching node have also been revised. For details, refer to "4.4.1 Image Matching," "4.4.2 Contour Matching" and "4.4.3 OCR Matching" in the Operation Manual (WinActor_Operation_Manual).

A new control path specification method has been added, to make it **easier to use automatic recording and scenario execution with UI automation.**



“Control Path Format Version” has been added to the Edit control path tab of the Property window.

In version 7.5.0, the new specification method “Version 2” is used by default, when a new UI Automaton node is created (for example, in automatic recording).



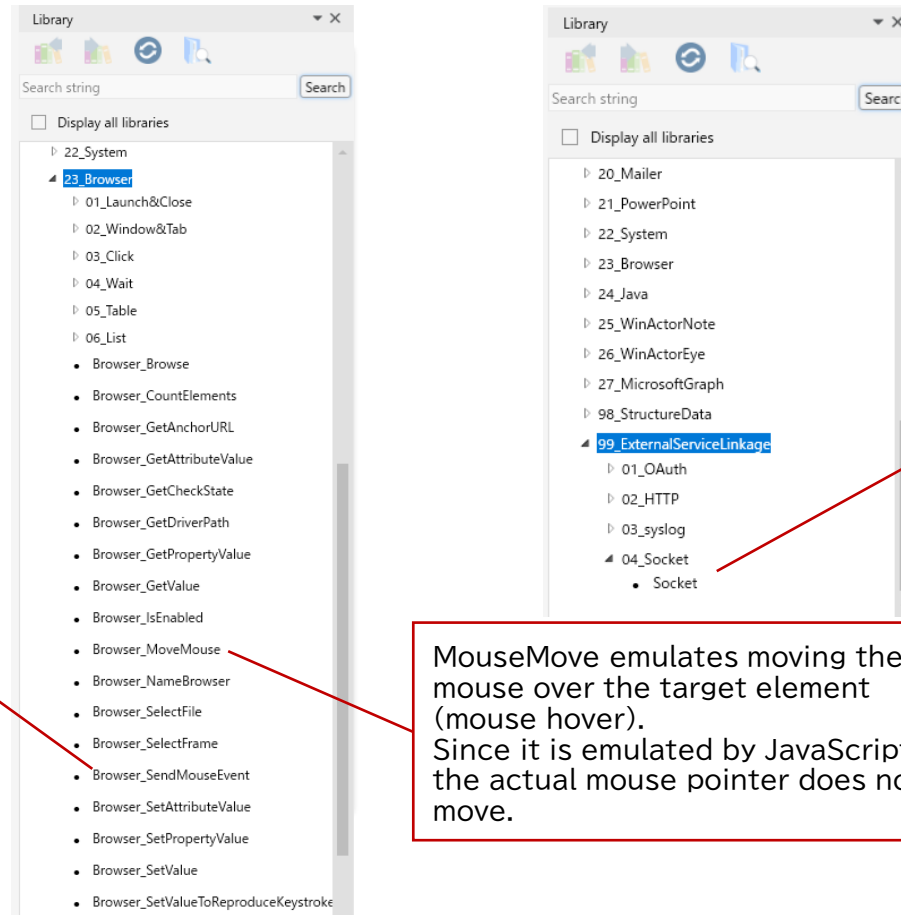
If Version 2 does not work well, please try Version 1.

Note that when you switch versions, the control path will be cleared.

*For details, refer to “4.9 ■ UI Automation property” in the Operation Manual (WinActor_Operation_Manual).

Library Expansion

To support more applications, two browser operation libraries and the general-purpose socket communication library are added.



SendMouseEvent emulates mouse operations for the target element. Since it is emulated by JavaScript, the actual mouse pointer does not move.

MouseMove emulates moving the mouse over the target element (mouse hover). Since it is emulated by JavaScript, the actual mouse pointer does not move.

Socket performs basic TCP communication using sockets.

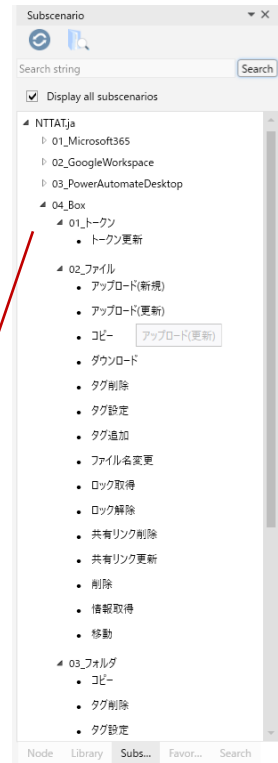
*To execute the two new browser operation libraries, a browser extension must be installed.

*For details on the browser operation library, refer to "5.7.17" and "5.7.18" in the Browser Operation Scenario Creation Manual (WinActor_Browser_Operation_Scenario_Creation_Manual). For details on the general-purpose socket communication library, see "99.4.1" in the Instruction Manual for User Library Samples (WinActor_User_Library_Sample_Manual).

To support file upload/download, searching and tag setting in Box, Sub-scenarios are provided.



You can use them from 04_Box category on the Sub Scenario palette.



The redirect URI must be set the same as the OAuth 2.0 redirect URI on Box.

In addition, the URI must be a loopback address that WinActor can receive, and a candidate URI will be presented when a dialog is displayed. Use it to set up Box.

Before using sub-scenario, sign in to Box from Tools - Box sign In.

*Set the Box app type to "Custom app" and the authentication method to "User authentication (OAuth 2.0)."

*In a proxy environment, specify settings in advance from the Proxy server tab of the Options menu.

*For details, refer to "3.2.3 Tool Menu, Box sign in" in the Operation Manual (WinActor_Operation_Manual) and "4 Box" in the Sub Scenario Sample Manual (WinActor_Subscenario_Sample_Manual).

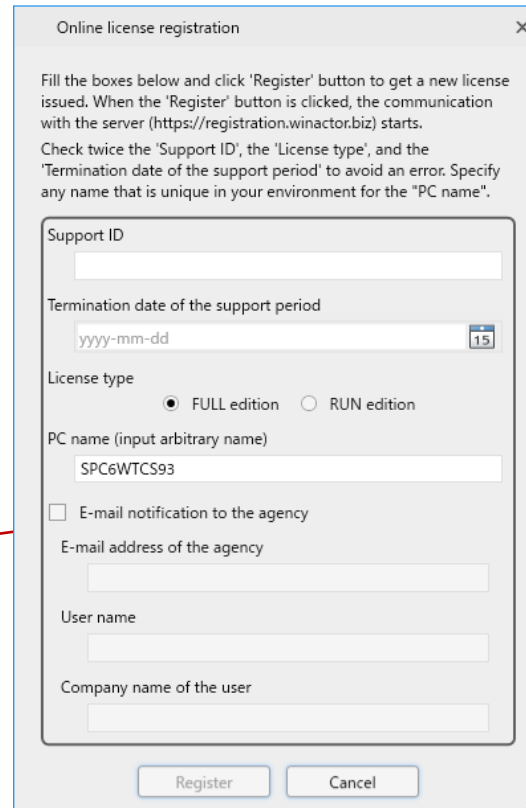
Email Notification for Online License Registration

In the same way as on the license issuing site, you can also notify license registration to the agency.

You can enter information for email notification in the online license registration window.



To send email notification of license registration to distributor, check the “E-mail notification to the agency” check box, and enter the e-mail address of the agency, user name, and company name.



Online license registration

Fill the boxes below and click 'Register' button to get a new license issued. When the 'Register' button is clicked, the communication with the server (<https://registration.winactor.biz>) starts. Check twice the 'Support ID', the 'License type', and the 'Termination date of the support period' to avoid an error. Specify any name that is unique in your environment for the "PC name".

Support ID
[Input field]

Termination date of the support period
[Input field: yyyy-mm-dd] [15]

License type
 FULL edition RUN edition

PC name (input arbitrary name)
[Input field: SPC6WTCS93]

E-mail notification to the agency

E-mail address of the agency
[Input field]

User name
[Input field]

Company name of the user
[Input field]

[Register] [Cancel]

*For details, refer to "3.13.3 Node-locked License ■ Online License Registration" in the included Operation Manual (WinActor_Operation_Manual).

2

Notes on Improvement

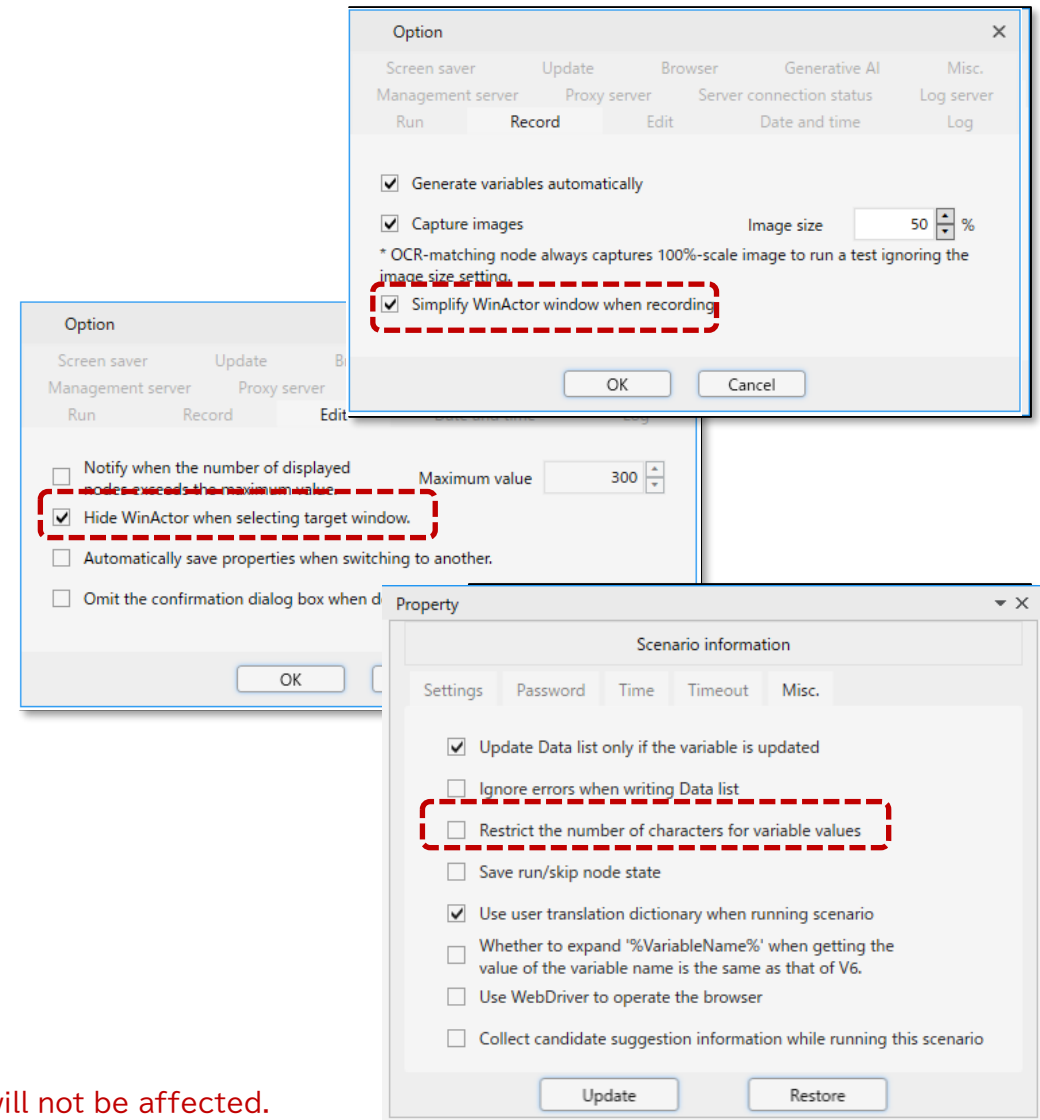
The following describes the notes on improvement in Ver. 7.5.0.

Following are notes on improvements made in Ver. 7.5.0.

- ① Expansion of clickable elements in browser auto-recording
During auto-recording using Edge/Chrome/Firefox browsers, the range of clickable elements has been improved. As a result, it is now possible to record clicks even for elements of web pages for which click operations could not be recorded, making it easier to create scenarios.
Along with this improvement, web page elements that were not automatically recorded in previous version may also be recorded. **To avoid recording unintended operations, please be careful not to perform unnecessary clicks during auto-recording.**
- ② Support for disabling operations on hidden/inactive items by browser extensions
When using browser extensions to perform browser operations, we fixed operations to be disabled on hidden/inactive items. **If you used the following library in browser extensions to create a scenario for manipulating hidden/inactive items, you need to modify the scenario.**
23_ browser-related ¥03_ click ¥click, 23_ browser-related ¥property value acquisition,
23_ Browser-related ¥Set property value, 23_ Browser-related ¥Get attribute value,
23_ Browser-related ¥Set attribute value, 23_ Browser-related ¥Get value, 23_ Browser-related ¥Set value

Notes on Improvement (2/2)

- ③ Initial value change of Option menu (*)
For smooth scenario editing, some of the initial values of the option screen have been revised, when WinActor is started for the first time.
 - Record tab
“Simplify WinActor window whe recording”
Initial value Check OFF → Check ON
 - Edit tab
“Hide WinActor when selecting target window”
Initial value Check OFF → Check ON
- ④ Change the initial value of the scenario information
Some of the initial values in the Scenario Information have been revised, when a new scenario.
 - Misc. tab
Restrict the number of characters for variables values
Initial value Check ON → Check OFF



*In an environment where WinActor is already used, the settings will be inherited and will not be affected.

3

List of Improvements and Requests

This section describes the list of improvements and requests made in Ver. 7.5.

List of improvements and requests

The list of improvements (36 requests) made in Ver. 7.5.0 is described in "WinActor_v750_List of improvements .pdf". (*)

The list of requests (2 requests) that were handled in Ver. 7.5.0 is described in "WinActor_v750_List of requests .pdf". (*)

In addition, apart from the above list, the messages displayed in WinActor, WinActor Storyboard and the manual have been revised to make them easier to understand.

(*) Note: the pdf is provided only in Japanese version.

 **WinActor[®] Ver. 7.5.0 Release Note**

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