



## Scenario Template File

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## About this document

This "WinActor Scenario Template File" (hereinafter referred to as "this manual") is a manual for the description specifications of a scenario template file read by the function of WinActor to generate a scenario template.

## Notes on this manual

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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.
- This manual assumes that users are using Windows 10.

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# 1. Scenario template file

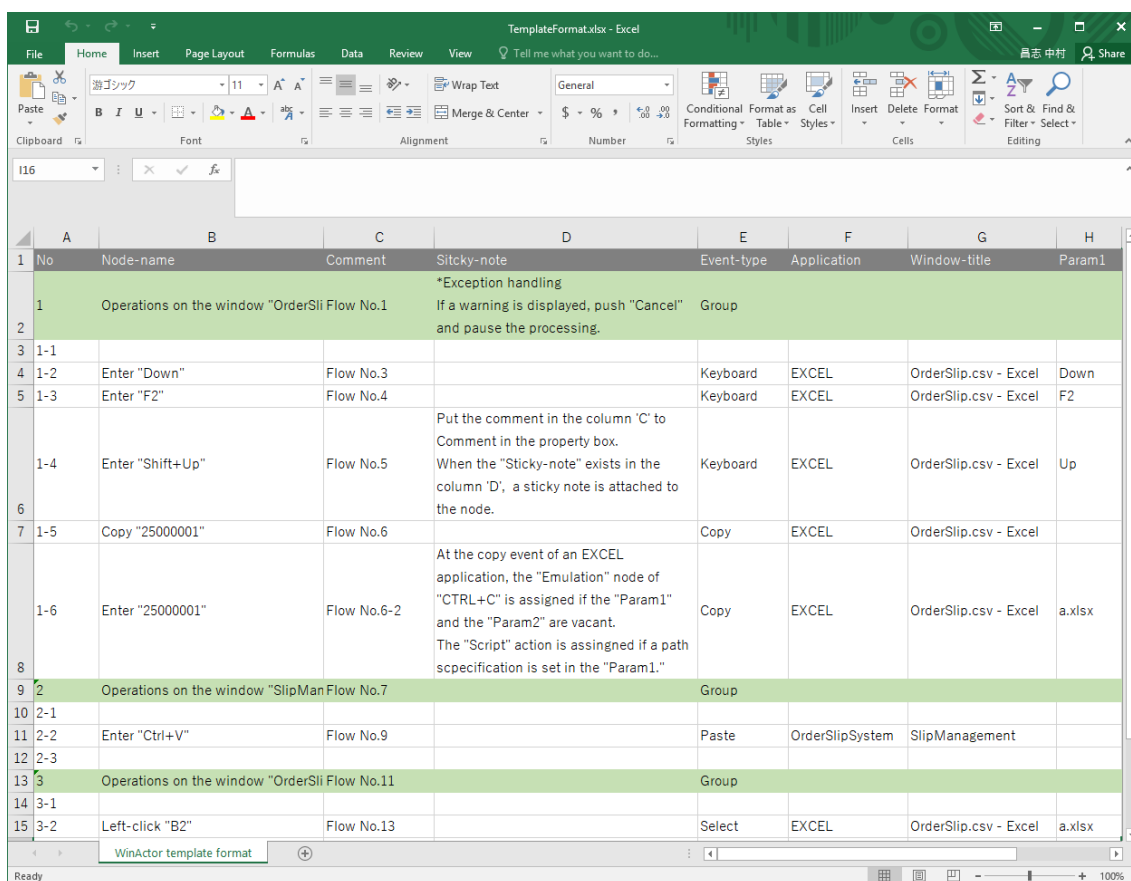
This manual describes the description specifications of a scenario template file read by the function of WinActor to generate a scenario template.

For how to use the function of WinActor to generate a scenario template, see "WinActor Operation Manual."

The scenario template file is in Excel file format (.xlsx) or CSV file format (.csv).

For the CSV file, prepare it in UTF-8 or MS932 format (Japanese) encoding.

The first row of the scenario template file is the header information (column names). The second and subsequent rows are data.



| No  | Node-name                                     | Comment     | Sticky-note   | Event-type | Application     | Window-title          | Param1 |
|-----|---|-------------|---|------------|-----------------|-----------------------|--------|
| 1   | Operations on the window "OrderSli Flow No.1  |             | *Exception handling<br>If a warning is displayed, push "Cancel" and pause the processing.   | Group      |                 |                       |        |
| 1-1 |   |             |   |            |                 |                       |        |
| 1-2 | Enter "Down"                                  | Flow No.3   |   | Keyboard   | EXCEL           | OrderSlip.csv - Excel | Down   |
| 1-3 | Enter "F2"                                    | Flow No.4   |   | Keyboard   | EXCEL           | OrderSlip.csv - Excel | F2     |
| 1-4 | Enter "Shift+Up"                              | Flow No.5   | Put the comment in the column "C" to Comment in the property box.<br>When the "Sticky-note" exists in the column 'D', a sticky note is attached to the node.  | Keyboard   | EXCEL           | OrderSlip.csv - Excel | Up     |
| 1-5 | Copy "25000001"                               | Flow No.6   |   | Copy       | EXCEL           | OrderSlip.csv - Excel |        |
| 1-6 | Enter "25000001"                              | Flow No.6-2 | At the copy event of an EXCEL application, the "Emulation" node of "CTRL+C" is assigned if the "Param1" and the "Param2" are vacant.<br>The "Script" action is assigned if a path specification is set in the "Param1." | Copy       | EXCEL           | OrderSlip.csv - Excel | a.xlsx |
| 2   | Operations on the window "SlipMan Flow No.7   |             |   | Group      |                 |                       |        |
| 2-1 |   |             |   |            |                 |                       |        |
| 2-2 | Enter "Ctrl+V"                                | Flow No.9   |   | Paste      | OrderSlipSystem | SlipManagement        |        |
| 2-3 |   |             |   |            |                 |                       |        |
| 3   | Operations on the window "OrderSli Flow No.11 |             |   | Group      |                 |                       |        |
| 3-1 |   |             |   |            |                 |                       |        |
| 3-2 | Left-click "B2"                               | Flow No.13  |   | Select     | EXCEL           | OrderSlip.csv - Excel | a.xlsx |

Figure 1-1. Scenario template file (image)



- In the scenario template file, a blank row is judged to be the last row. The blank row and subsequent rows will not be read.
- Reading a scenario template file more than 1,000 lines may take several minutes or more.

## 2. Column names

Enter the column names on the first row of the scenario template file.

Table 2-1. List of column names

| No | Column name  | Description   | Required |
|----|--------------|---|----------|
| 1  | No           | Represents the processing order and the parent-child relationship of a node or group. | ○        |
| 2  | Node-name    | Represents a name given to a node or group.   | ○        |
| 3  | Comment      | Represents a comment given to a node or group.  | -        |
| 4  | Sticky-note  | Represents contents of the sticky note attached to a node or group.                   | -        |
| 5  | Event-type   | Represents an action (type of automatic operation).                                   | -        |
| 6  | Application  | Represents a target application of the action (automatic operation).                  | -        |
| 7  | Window-title | Represents a window title of the target application.                                  | -        |
| 8  | Param1       | Represents a parameter of the action (automatic operation).                           | -        |
| 9  | Param2       | Represents a parameter of the action (automatic operation).                           | -        |
| 10 | Param3       | Represents a parameter of the action (automatic operation).                           | -        |
| 11 | Param4       | Represents a parameter of the action (automatic operation).                           | -        |
| 12 | Param5       | Represents a parameter of the action (automatic operation).                           | -        |
| 13 | Param6       | Represents a parameter of the action (automatic operation).                           | -        |
| 14 | Param7       | Represents a parameter of the action (automatic operation).                           | -        |
| 15 | Param8       | Represents a parameter of the action (automatic operation).                           | -        |
| 16 | Param9       | Represents a parameter of the action (automatic operation).                           | -        |
| 17 | Param10      | Represents a parameter of the action (automatic operation).                           | -        |



- Column names are taken in from the left most column of the first row toward the right columns. When a vacant column name is found, taking in column names is finished and the rest of columns are not read.
  - An error will occur if multiple same column names exist.
  - You can use other names for the column names.
    - For other column names, see "2.5.1 Notations for the column names."
  - Columns of invalid column names are skipped.
-

## 2.1 No

In the "No" column, enter numbers that represent the processing order of a scenario.

You can specify the parent-child relationship of groups or nodes by adding numbers with "-" hyphen symbols.

When the numbers "1," "1-1," and "1-2" are entered in the "No" column, "1" is the parent group and "1-1" and "1-2" are the child nodes in that group. In this case, "Event-type" of No "1" should be defined as "Group."

You can also express a group structure with three or more layers, such as "1-2-1."

Table 2-2. Example of the group with a hierarchical structure

| No    | Node-name          | Event-type         | (Other columns are omitted) |
|-------|--------------------|--------------------|-----------------------------|
| 1     | [1] Parent group   | Group              | ...                         |
| 1-1   | [1-1] Child node   | (other than group) | ...                         |
| 1-2   | [1-2] Child group  | Group              | ...                         |
| 1-2-1 | [1-2-1] Child node | (other than group) | ...                         |
| 1-3   | [1-3] Child node   | (other than group) | ...                         |

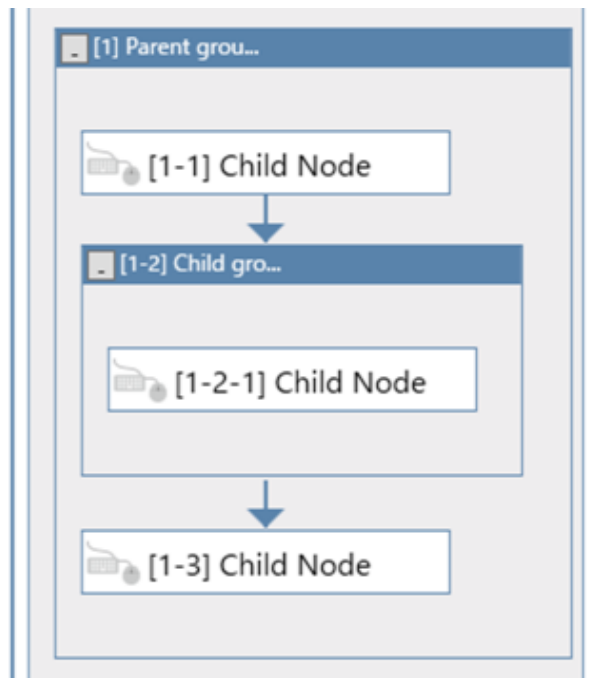


Figure 2-1. Parent-child relationship between nodes (image)



## 2.2 Node-name and Comment

The contents of the "Node-name" column will be embedded in "Name" in the property of each node.

The contents of the "Comment" column will be embedded in "Comment" in the property of each node.

Table 2-3. Example of Node-name and Comment

| No | Node-name    | Comment                       | (Other columns are omitted) |
|----|--------------|-------------------------------|-----------------------------|
| 1  | Enter "Down" | Deselect the range in Notepad | ...                         |

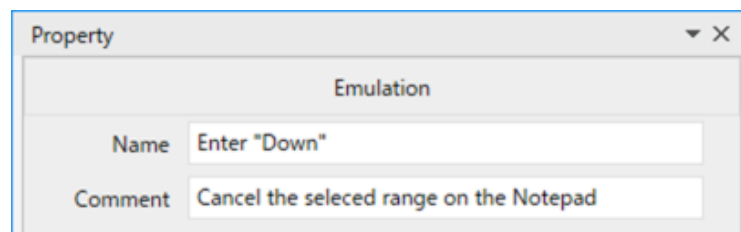


Figure 2-2. WinActor property (Name and Comment)

## 2.3 Sticky-note

Fill in the "Sticky-note" column to create sticky notes attached to each corresponding node.

If the "Sticky-note" column is empty, no sticky note will be created.

Table 2-4. Example of Sticky-note

| No | Node-name        | Sticky-note   | (Other columns are omitted) |
|----|------------------|---|-----------------------------|
| 1  | Enter "Shift+Up" | Put the comment in Column C to Comment in the property... | ...                         |
| 2  | Copy "25000001"  |   | ...                         |



Figure 2-3. WinActor scenario (sticky note)

## 2.4 Event-type

Fill in the "Event-type" column and detailed information ("Application," "Window-title," and "Param" columns) to create action nodes that perform application operations such as application execution, keyboard operations, and clipboard operations.

Set the "Event-type" column to blank or "Group" to create Group nodes. An Event-type that is not defined in this chapter can also be set to create Group nodes.

### 2.4.1 Operations related to application execution

#### ■ Execute

Specify "Execute" in the "Event-type" column to create a Run Script node that executes an application.

The exe file specified in the "Param1" column will be executed.

Up to nine execution arguments can be specified using Param 2 to 10.

Param 2 to 10 can be omitted.

Table 2-5. Example of Event-type "Execute"

| Event-type | Param1         | Param2                | (Other columns are omitted) |
|------------|----------------|-----------------------|-----------------------------|
| Execute    | (exe filename) | (execution argument1) | ...                         |



Figure 2-4. Created "Execute" node

## 2.4.2 Operations related to file operations

### ■ Open

Specify "Open" in the "Event-type" column to create a Run Script node that opens a file.

The file specified in the " Param1" column will be opened in the application associated with the file.

Table 2-6. Example of Event-type "Open"

| Event-type | Param1     | (Other columns are omitted) |
|------------|------------|-----------------------------|
| Open       | (filename) | ...                         |



Figure 2-5. Created "Open" node

## ■ Close

Specify "Close" in the "Event-type" column to create a Run Script node that closes the Excel file specified in the "Param2" column and to append a variable name on the variable list to store the result.

Specify "EXCEL" in the "Application" column.

Specify "Save as," "Save," or "Without saving" in the Param1" column.

Specify the Excel filename in the "Param2" column.

Specify a variable name to store the result. If omitted, a variable to store the result will be generated automatically.

Specify the filename to save the Excel file as when "Save as" is specified in the "Param1" column.

Table 2-7. Example of Event-type "Close"

| Event-type | Application | Param1         | Param2     | Param3          | Param4          | (Other columns are omitted) |
|------------|-------------|----------------|------------|-----------------|-----------------|-----------------------------|
| Close      | EXCEL       | Save as        | (filename) | (filename)      | (variable name) | ...                         |
| Close      | EXCEL       | Save           | (filename) | (variable name) |                 | ...                         |
| Close      | EXCEL       | Without saving | (filename) | (variable name) |                 | ...                         |

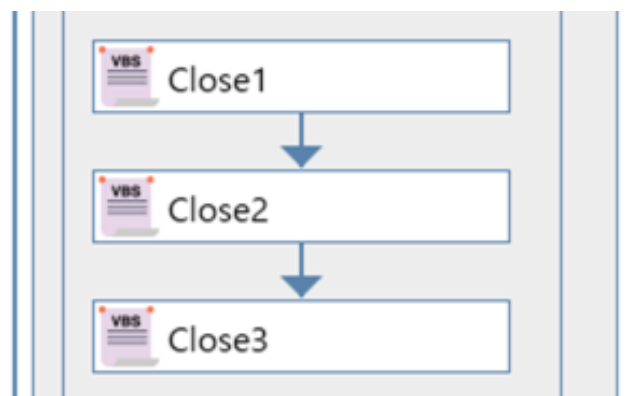


Figure 2-6. Created "Close" node

## 2.4.3 Operations related to the clipboard

### ■ Clipboard

Specify "Clipboard" in the "Event-type" column to create a Clipboard node that copies values to the clipboard.

The values specified in the " Param1" column will be copied to the clipboard.

Table 2-8. Example of Event-type "Clipboard"

| Event-type | Param1   | (Other columns are omitted) |
|------------|----------|-----------------------------|
| Clipboard  | (string) | ...                         |



Figure 2-7. Created "Clipboard" node

## ■ Copy

Specify "Copy" in the "Event-type" column to create a node that copies values from an application to the clipboard.

If you specify "EXCEL" in the "Application" column and a filename in the "Param1" column, a Run Script node will be created.

If you specify the "Window-title" column, an Emulation node and WinID management will be created.

Table 2-9. Example of Event-type "Copy"

| Event-type | Application | Window-title   | Param1     | Param2       | Param3      | (Other columns are omitted) |
|------------|-------------|----------------|------------|--------------|-------------|-----------------------------|
| Copy       | EXCEL       |                | (filename) | (sheet name) | (cell name) | ...                         |
| Copy       |             | (window title) |            |              |             |                             |

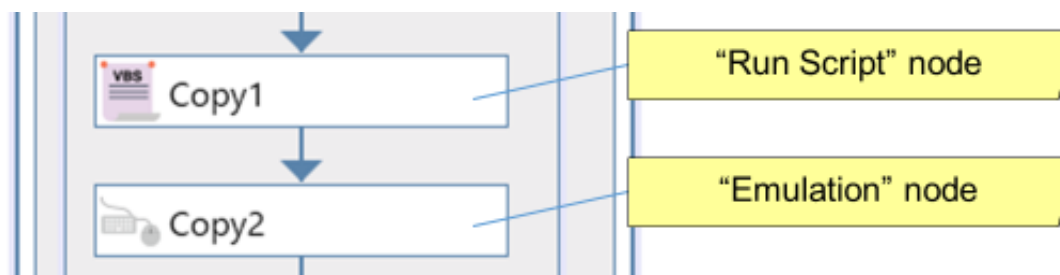


Figure 2-8. Created "Copy" nodes

## ■ Paste

Specify "Paste" in the "Event-type" column to create a node that pastes values from the clipboard to an application.

If you specify "EXCEL" in the "Application" column and a filename in the "Param1" column, a Run Script node will be created.

If you specify the "Window-title" column, an Emulation node and WinID management will be created.

Table 2-10. Example of Event-type "Paste"

| Event-type | Application | Window-title   | Param1     | Param2       | Param3      | (Other columns are omitted) |
|------------|-------------|----------------|------------|--------------|-------------|-----------------------------|
| Paste      | EXCEL       |                | (filename) | (sheet name) | (cell name) | ...                         |
| Paste      |             | (window title) |            |              |             | ...                         |

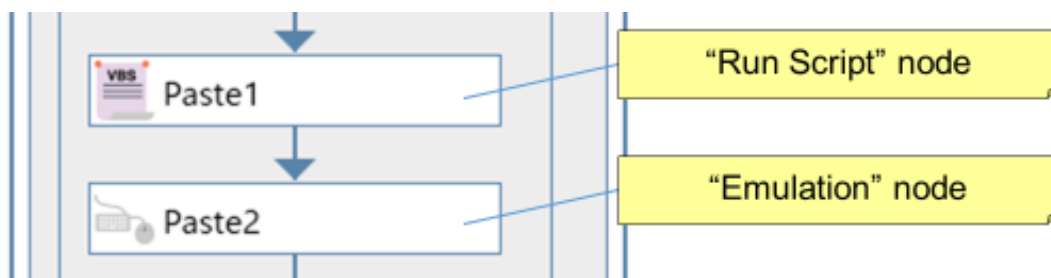


Figure 2-9. Created "Paste" nodes

## 2.4.4 Operations related to the keyboard

### ■ Keyboard

Specify "Keyboard" in the "Event-type" column to create an Emulation node and WinID management, or a Send Text node and WinID management that perform the keyboard operation.

If the "Window-title" column is empty, the screen will be targeted and no WinID management will be created.

Keys to be operated can be specified using the columns of Param 1 to 10.

For the keyboard operation with a single key, specify the Param 1 column only.

For the keyboard operation with multiple keys, use the Param 2 and 10 columns.

When all the keys specified for the Param 1 to 10 are printable characters, which do not include function keys such as Shift, a Send Text node is created.

Table 2-11. Example of Event-type "Keyboard"

| Event-type | Window-title   | Param1 | Param2 | Param3 | (Other columns are omitted) |
|------------|----------------|--------|--------|--------|-----------------------------|
| Keyboard   | (window title) | Enter  |        |        | ...                         |
| Keyboard   | (window title) | Ctrl   | C      |        | ...                         |
| Keyboard   | (window title) | Ctrl   | Shift  | F4     | ...                         |
| Keyboard   | (window title) | a      | b      | c      | ...                         |

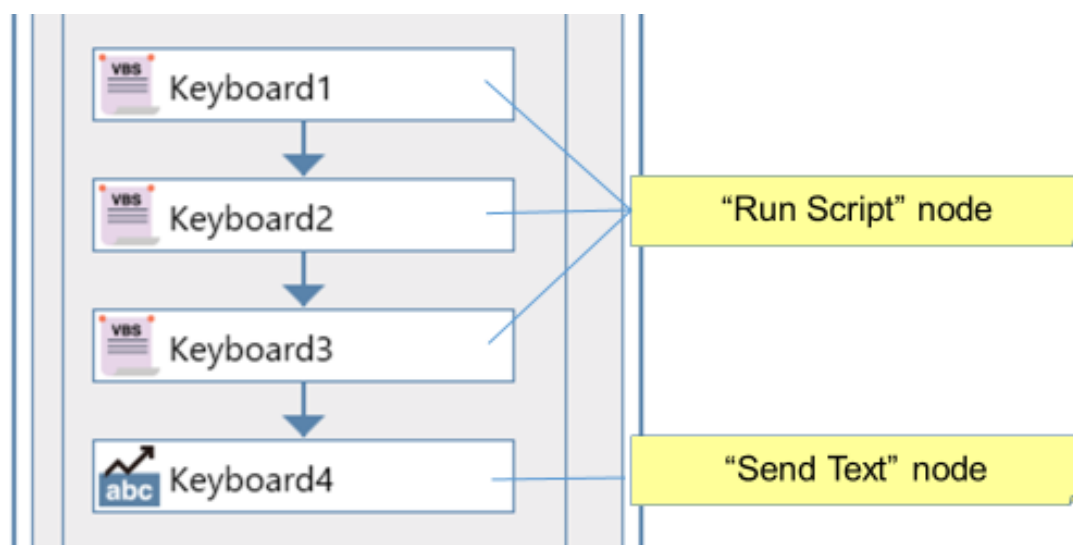


Figure 2-10. Created "Keyboard" nodes



The table below shows the keys that can be specified in the " Param" columns.  
The keys are case-insensitive.

Table 2-12. Keys that can be specified with "Keyboard"

| Param 1 to 3 |           |              |
|--------------|-----------|--------------|
| A～Z          | Shift     | Esc          |
| 0～9          | Ctrl      | F1 to F12    |
| -            | Windows   | PrintScreen  |
| ^            | Alt       | Up           |
| ¥            | 無変換       | Left         |
| @            | Space     | Down         |
| [            | 変換        | Right        |
| ;            | ローマ字      | NumLock      |
| :            | BackSpace | NUM0 to NUM9 |
| ]            | Enter     | NUM/         |
| ,            | Insert    | NUM*         |
| .            | Delete    | NUM-         |
| /            | Home      | NUM+         |
| \            | End       | NUM.         |
| 半角/全角        | PageUp    |              |
| Tab          | PageDown  |              |

## ■ Input-text

Specify "Input-text" in the "Event-type" column to create an Text Input node and WinID management that send text to a window.

The character string specified in the Param 1 column is send to the window.

Table 2-13. Example of Event-type "Input-text"

| Event-type | Window-title   | Param1             | (Other columns are omitted) |
|------------|----------------|--------------------|-----------------------------|
| Input-text | (window title) | (Character string) | ...                         |



Figure 2-11. Created "Input-text" node

## 2.4.5 Other

### ■ Select

Specify "Select" in the "Event-type" column to create a Run Script node that performs the selection operation.

Table 2-14. Example of Event-type "Select"

| Event-type | Application | Param1     | Param2       | Param3      | (Other columns are omitted) |
|------------|-------------|------------|--------------|-------------|-----------------------------|
| Select     | EXCEL       | (filename) | (sheet name) | (cell name) | ...                         |



Figure 2-12. Created "Select" node

### ■ Group

Specify "Group" in the "Event-type" column to create a Group node.

Specifying an undefined Event-type string or a blank in the "Event-type" column will also create a Group node.

Table 2-15. Example of Event-type "Group"

| Event-type | (Other columns are omitted) |
|------------|-----------------------------|
| Group      | ...                         |
| (blank)    | ...                         |

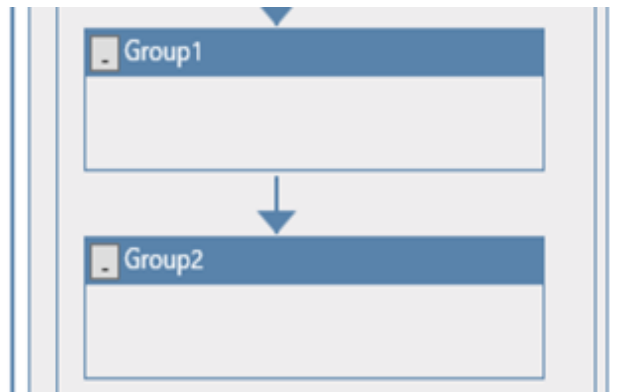


Figure 2-13. Created "Group" nodes

## ■ Close-window

Specify "Close-window" in the "Event-type" column to create a Emulation node and WinID management that close a window.

If the "Window-title" column is empty, the screen will be targeted and no WinID management will be created.

Table 2-16. Example of Event-type "Close-window"

| Event-type   | Window-title   | (Other columns are omitted) |
|--------------|----------------|-----------------------------|
| Close-window | (window title) | ...                         |

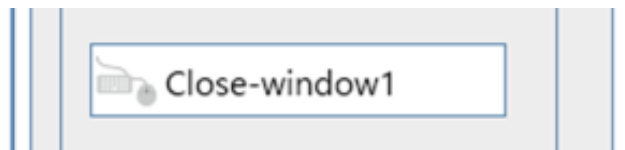


Figure 2-14. Created "Close-window" node

## 2.4.6 Unifying consecutive Emulation nodes

If consecutive Emulation nodes have the same values for the “Node-name” column and for the “Window-title” column, the Emulation nodes are unified into one node. The contents of the “Comment” and the “Sticky-note” column, and the operations are concatenated.

Table 2-17. Example of unifying consecutive Emulation nodes

| Node-name          | Comment   | Sticky-note         | Event-type | Window-title   | Param1 | Param2 |
|--------------------|-----------|---------------------|------------|----------------|--------|--------|
| Emulation-node     |           |                     | Group      |                |        |        |
| Keyboard-operation | (comment) | Select all (Ctrl+A) | Keyboard   | (window title) | Ctrl   | A      |
| Keyboard-operation | (comment) | Copy (Ctrl+C)       | Keyboard   | (window title) | Ctrl   | C      |
| Keyboard-operation | (comment) | Paste (Ctrl+V)      | Keyboard   | (window title) | Ctrl   | V      |

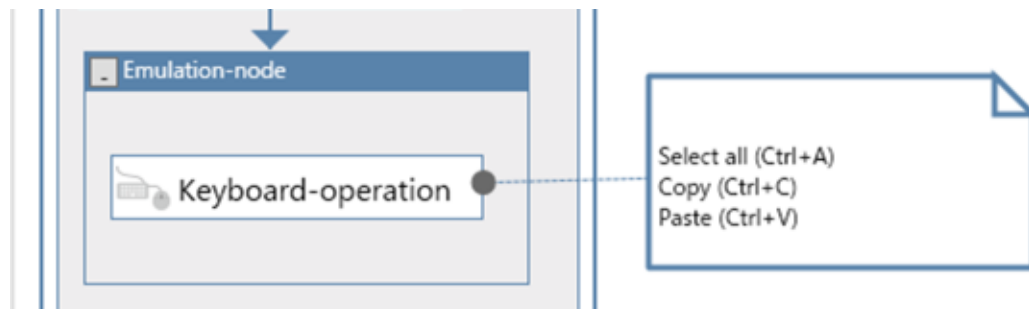


Figure 2-15. Created "Emulation" node

## 2.5 Notations for the element names

### 2.5.1 Notations for the column names

For the column names, alternative names shown in the table below can be used.

For example, "Node-name" can be entered as "Name" or as "ノード名" in Japanese.

The column names are case-insensitive.

Table 2-18. Column names

| No | Column name  | Other column names |        |            |           |          |          |
|----|--------------|--------------------|--------|------------|-----------|----------|----------|
| 1  | No           |                    |        |            |           |          |          |
| 2  | Node-name    | Name               | ノード名   | 名前         |           |          |          |
| 3  | Comment      | コメント               |        |            |           |          |          |
| 4  | Sticky-note  | Note               | Memo   | Annotation | 付箋        | 注記       |          |
| 5  | Event-type   | Event              | Action | イベント種別     | 操作種別      | イベント     | アクション    |
| 6  | Application  | アプリケーション           |        |            |           |          |          |
| 7  | Window-title | Window-spec-name   | WinID  | WinID-name | ウィンドウタイトル | ウィンドウ識別名 | ウィンドウ識別名 |
| 8  | Param1       | 付加情報 1             | 引数 1   |            |           |          |          |
| 9  | Param2       | 付加情報 2             | 引数 2   |            |           |          |          |
| 10 | Param3       | 付加情報 3             | 引数 3   |            |           |          |          |
| 11 | Param4       | 付加情報 4             | 引数 4   |            |           |          |          |
| 12 | Param5       | 付加情報 5             | 引数 5   |            |           |          |          |
| 13 | Param6       | 付加情報 6             | 引数 6   |            |           |          |          |
| 14 | Param7       | 付加情報 7             | 引数 7   |            |           |          |          |
| 15 | Param8       | 付加情報 8             | 引数 8   |            |           |          |          |
| 16 | Param9       | 付加情報 9             | 引数 9   |            |           |          |          |
| 17 | Param10      | 付加情報 10            | 引数 10  |            |           |          |          |

## 2.5.2 Notations for the Event-type action names in Japanese

The table below shows the notations for the action names in Event-type.

The event type names are not case sensitive.

Table 2-19. Event-type action names

| English      | Japanese               |
|--------------|------------------------|
| Execute      | 起動<br>アプリケーション起動       |
| Open         | 開く                     |
| Close        | 閉じる                    |
| Clipboard    | クリップボード                |
| Copy         | コピー                    |
| Paste        | 貼り付け                   |
| Keyboard     | キー入力                   |
| Input-text   | 文字入力                   |
| Select       | 選択                     |
| Group        | グループ                   |
| Close-window | ウィンドウを閉じる<br>ウインドウを閉じる |



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