MacroWin
User Manual

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Introduction

About MacroWin

MacroWin (Macros for Windows) automates tasks by executing user-defined actions after triggers were fired and conditions met.

Setting up MacroWin

1. Run MacroWinSetup.exe
2. If Windows SmartScreen appears (Windows protected your PC), click on [More info] and then [Run (anyway)]
3. Click yes on the user account control prompt if prompted (Elevation is required to install to the program files directory).
4. Press Install.
5. Once the setup was successful, click Finish and wait for MacroWin to open.
6. [Optional] Navigate through the Getting Started slides to better understand how MacroWin works.
7. Login with the username and password sent to your email.
8. Enter the verification code sent to your email.

You are now ready to create macros!

What is a Macro?

A macro consists out of three core components:

1. **Triggers:** Events that causes a macro to start
2. **Conditions:** A set of requirements before the actions can be executed
3. **Actions:** Steps to take once all conditions are met

Creating a Macro

A macro can be created by:

- Pressing the ⊕ button in the bottom right-hand corner
- Right clicking and selecting 'Add Macro'.
- Navigating to File → Add Macro

The 'Add Macro' form will now appear.

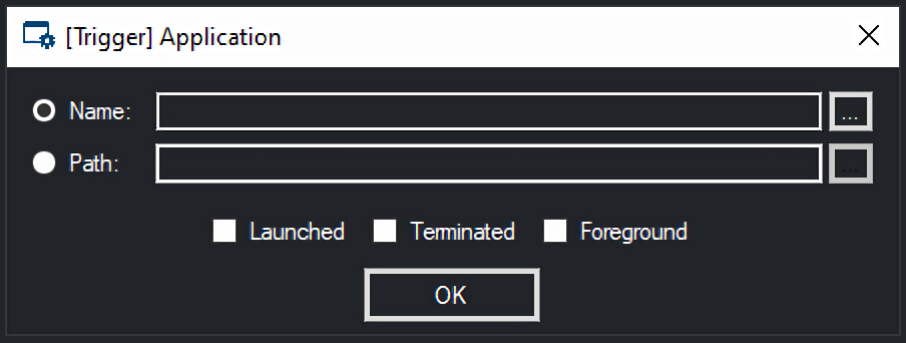
You can now enter the macro's name and (optionally) its description and associated application.

Below these three textboxes, you will find Triggers, Conditions and Actions

Triggers

- Application
- Battery
- Clipboard
- Custom Trigger
- Date/Time
- Day/Time
- Directory Watcher
- Empty
- File Watcher
- Global Variable
- Idle
- Interval
- Keyboard
- Macro
- MacroWin
- Media
- Mouse
- Mouse Gesture
- Notification
- Performance
- Profile
- Programming/Scripting
- Screen
- Session
- TCP/UDP
- USB Drive
- Voice Command
- WiFi
- Windows Context Menu
- Windows Event

Application

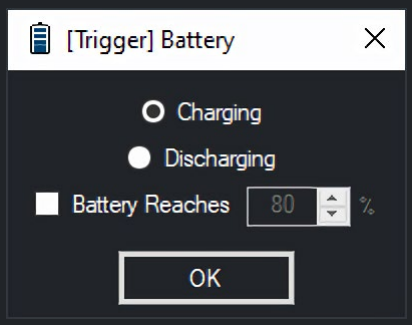


Select either of the following:

- Name – The name of the application
- Path – The full path of the application

The user can also choose whether the trigger should fire when the application was launched, terminated and/or moved to the foreground.

Battery

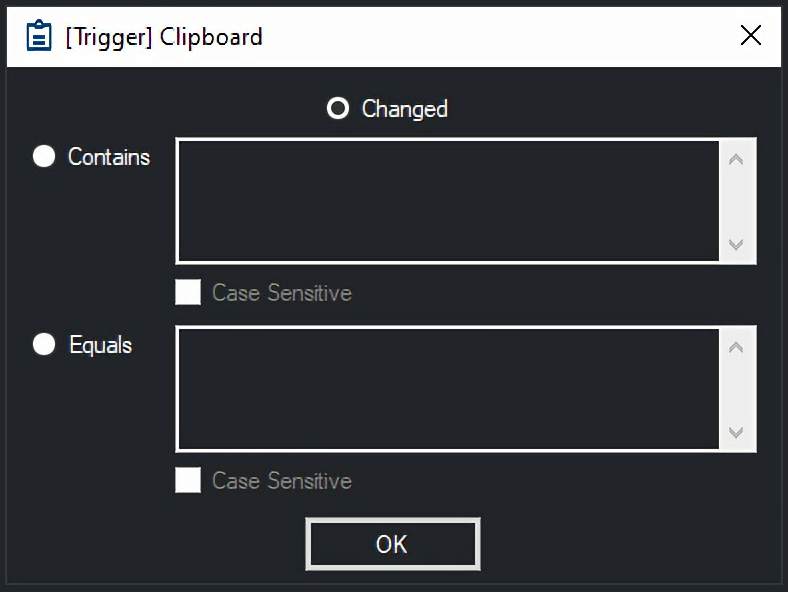


Charging – A power source was connected to the device

Discharging – A power source was removed from the device

Battery Reaches – Used in conjunction with Charging/Discharging. Example: User selects discharging and enable the 'Battery Reaches' checkbox with a value of 20%. The trigger will fire when the battery reaches 20% while no power source is connected.

Clipboard

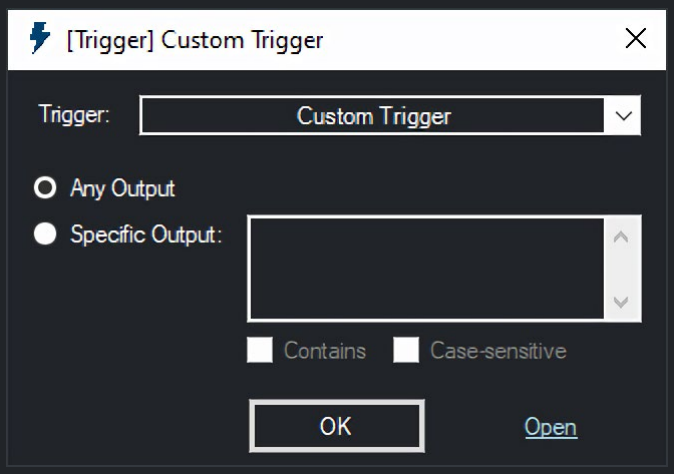


Changed – Any change in the clipboard will fire the trigger

Contains – Clipboard contains the specified text after the contents of the clipboard changed

Equals – Clipboard is exactly equal to the specified text after the contents of the clipboard changed

Custom Trigger

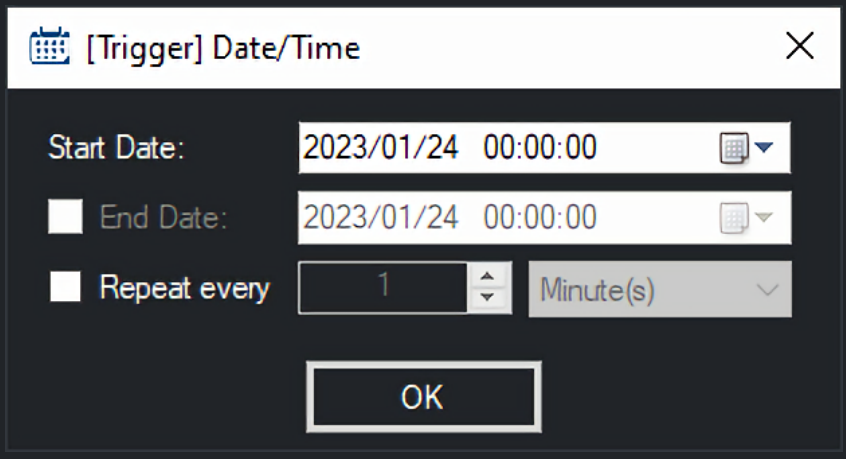


Trigger – Name of the executable located in “<InstallDirectory>\Custom Triggers\”

Any Output – Any console output was received from the specified application

Specific Output – Specific console output was received from the specified application

Date/Time

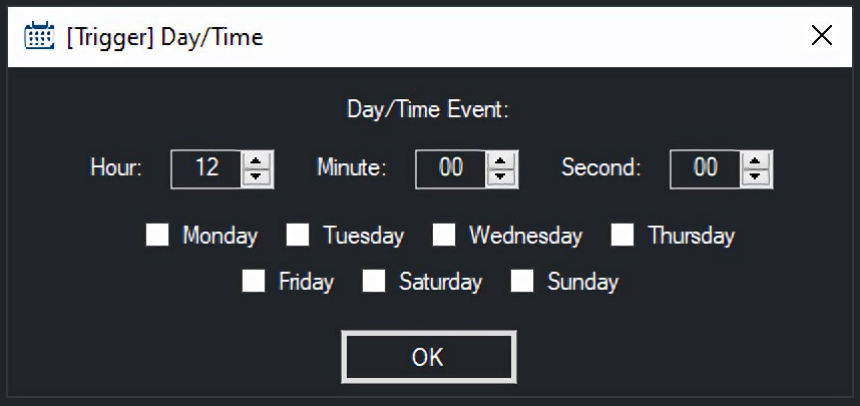


Start Date – The start date and time to activate the trigger

End Date – [Optionally] Specify the end date the trigger

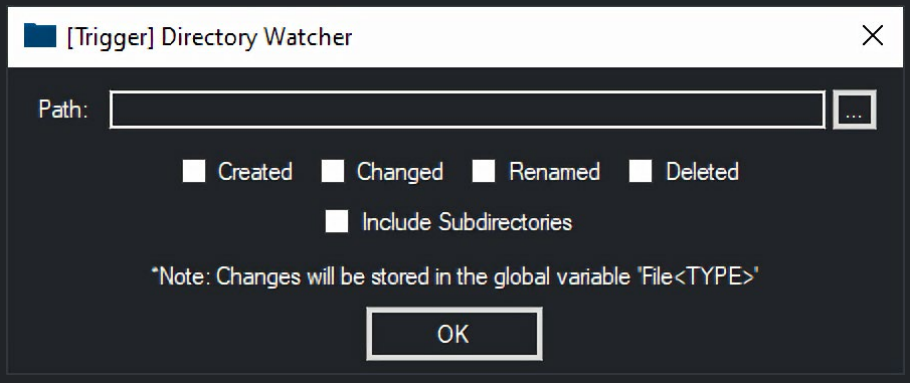
Repeat – Repeat the trigger by referencing the start date

Day/Time



Select the day(s) and time of day that the trigger should fire.

Directory Watcher



Path – Location of the directory to watch

Created – Fires when a file in the specified directory was created

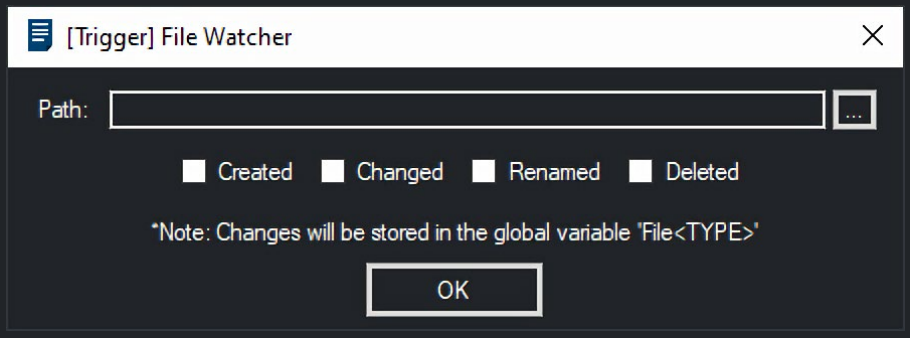
Changed – Fires when a file's contents in the specified directory were changed

Renamed – Fires when a file in the specified directory was renamed

Deleted – Fires when a file in the specified directory was deleted

Include Subdirectories – Watch the files in specified directory and the subdirectories of the specified directory

File Watcher



Path – Location of the file to watch

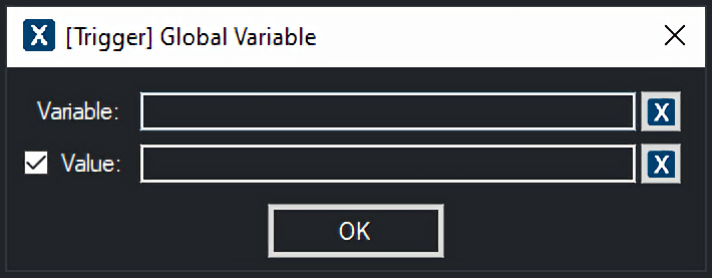
Created – Fires when the specified file was created

Changed – Fires when the contents of the specified file were changed

Renamed – Fires when the specified file was renamed

Deleted – Fires when the specified file was deleted

Global Variable

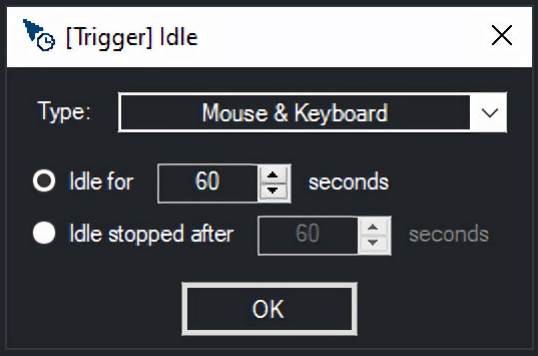


If a global variable was updated and the variable and value fields match the global variable, the trigger is fired.

Variable – The name of the variable

Value – The value of the variable

Idle

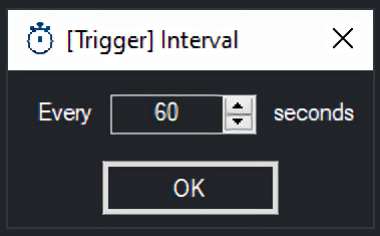


Type – Choose between Mouse, Keyboard or Both

Idle for – No activity was detected from the mouse/keyboard for the specified amount of time

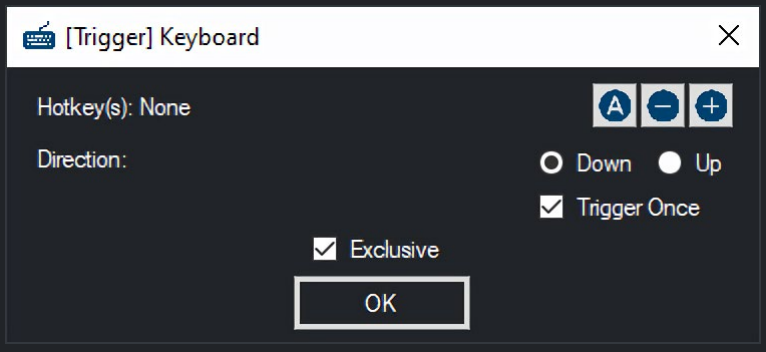
Idle stopped after – Activity was detected after the device was idle for the specified amount of time

Interval



The trigger will fire every [x] seconds.

Keyboard



Press the ⊕ button to start listening for a hotkey. Press any button on your keyboard to register the hotkey. Modifiers (Control/Shift/Windows/Alt) can also be registered alongside a hotkey.

Press the ⊖ button to remove all registered modifiers and hotkeys.

Press the Ⓐ button to specify that any key can be pressed.

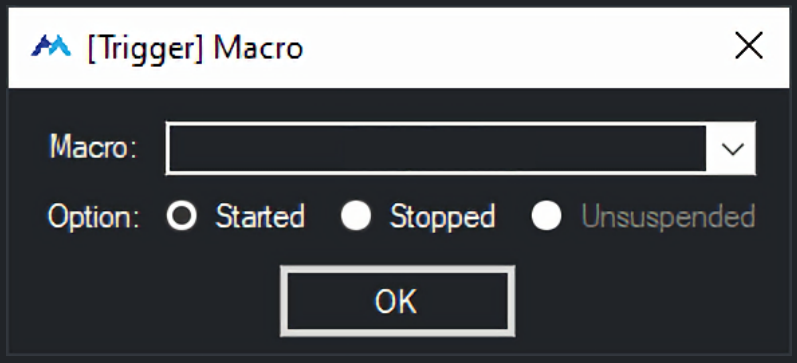
Down – Fire the trigger when the specified hotkey was pressed down

Trigger Once – Prevent the trigger from firing multiple times when holding down a hotkey

Up – Fire the trigger when the specified hotkey was released

Exclusive – Prevent the trigger from firing if any additional keys were pressed down

Macro

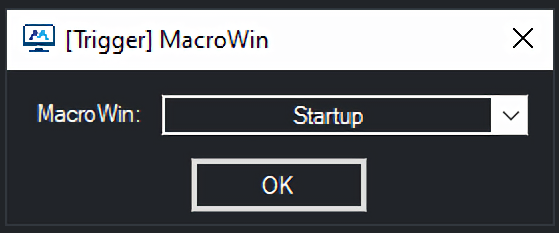


Macro – Name of the macro

Option:

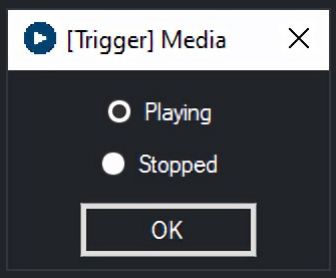
- Started – The specified macro has started execution
- Stopped – The specified macro has finished execution
- Unsuspended – All macros have been unsuspended

MacroWin



Choose whether the trigger should fire when MacroWin was started/closed.

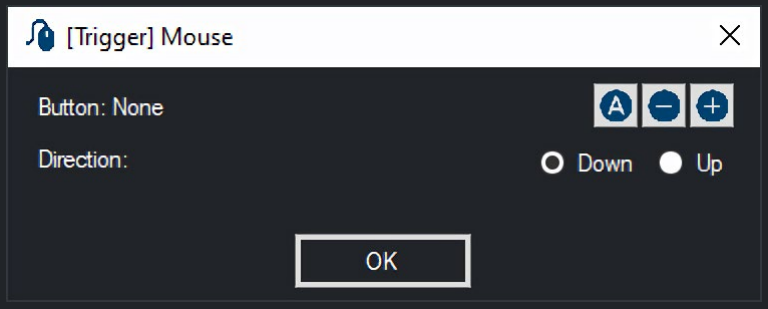
Media



Playing – When media starts playing on the device

Stopped – When media stops playing on the device

Mouse



Press the ⊕ button to start listening for a button. Press any button on your mouse to register the hotkey.

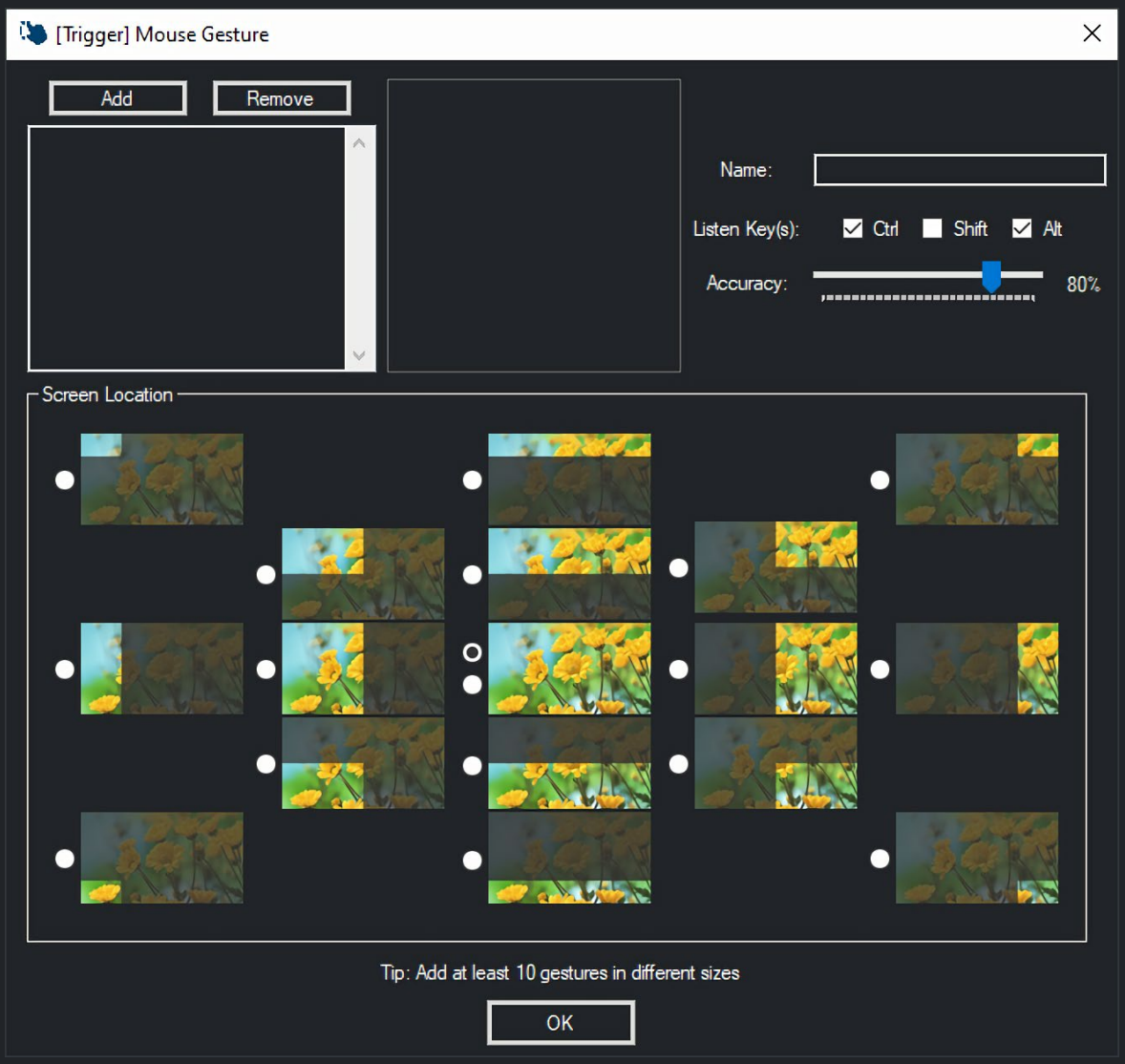
Press the ⊖ button to remove all registered buttons.

Press the Ⓐ button to specify that any button can be pressed.

Down – Fire the trigger when the specified button was pressed down

Up – Fire the trigger when the specified button was released

Mouse Gesture



Add/Remove – Add or remove recorded mouse gestures

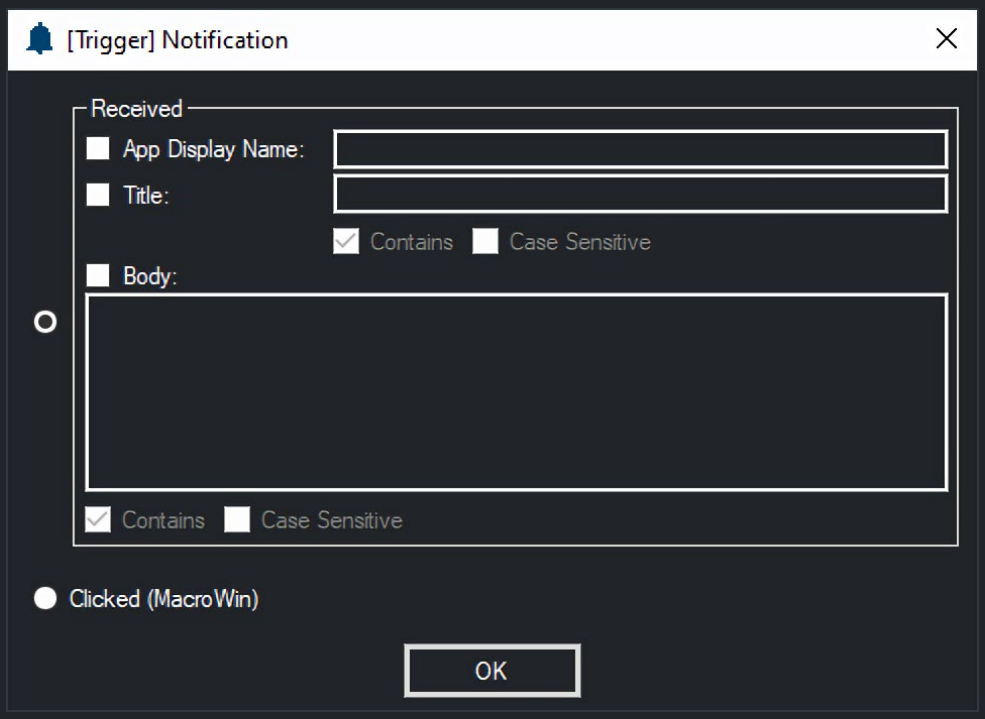
Name – Name of the mouse gesture

Listen Key(s) – Key(s) to hold down while performing the mouse gesture

Accuracy – Gesture precision required before firing the trigger

Screen Location – Area on the screen where the gesture needs to be performed

Notification



(Windows 10 [v6.2.9200.0] or above required)

Received – When an app sends a (toast) notification

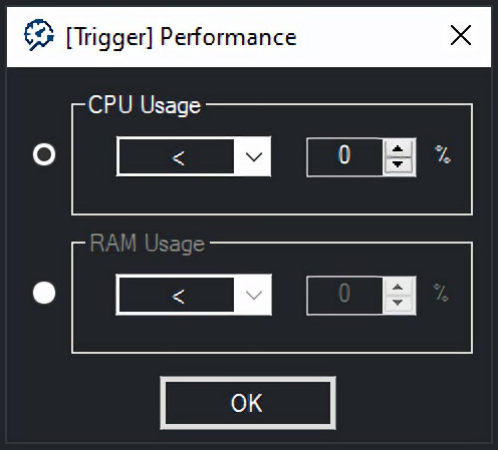
App Display Name – Display name of the application

Title – Title of the notification

Body – Body of the notification

Clicked – When a toast notification (from MacroWin) was clicked

Performance



(Note: Performance measurement may take a few seconds to start)

< – Usage is less than the specified value

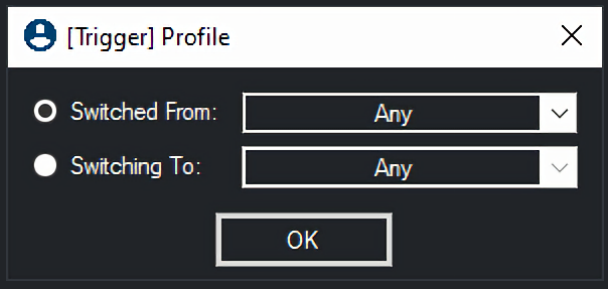
<= – Usage is less than or equal to the specified value

= – Usage is equal to the specified value

>= – Usage is more than or equal to the specified value

> – Usage is more than specified value

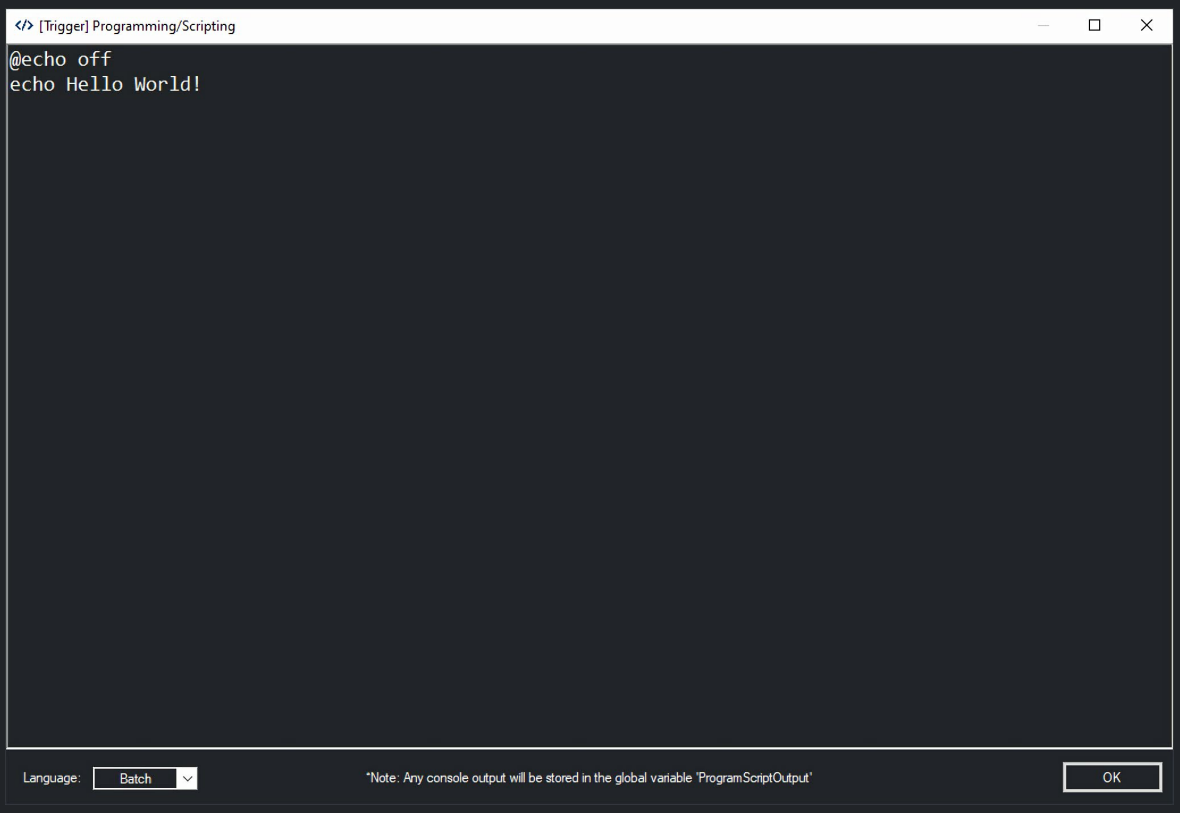
Profile



Switched From – When the profile was switched from the specified profile to the current profile

Switching To – When the profile is switching from the current profile to the specified profile

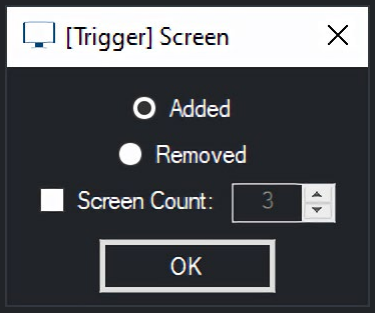
Programming/Scripting



Text Field – Code to execute

Language – Choose between Batch, PowerShell, C, C++, C#, Python and VBS

Screen

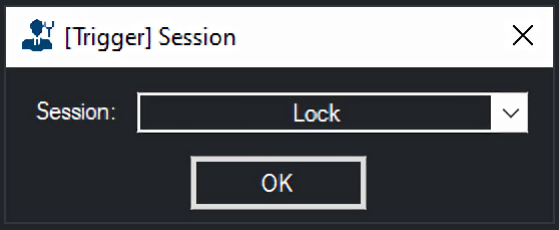


Added – A screen was added

Removed – A screen was removed

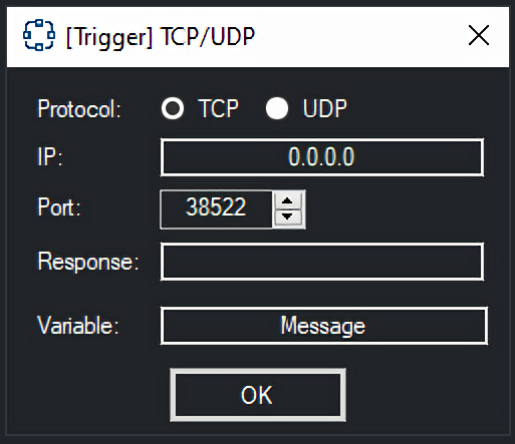
Screen Count – When a screen was added/removed and the screen count matches the specified screen count, the trigger will fire.

Session



Session – When the system enters the specific state

TCP/UDP



TCP – Transmission Control Protocol

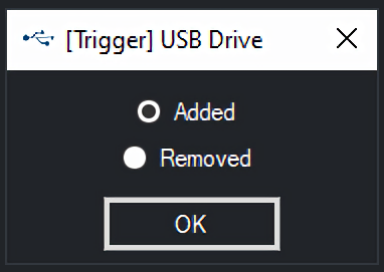
UDP – User Datagram Protocol

IP – Specify which IP to accept (0.0.0.0 - Any IP Address)

Port – The port on which to listen for incoming connection attempts

Message – Variable to store the incoming message

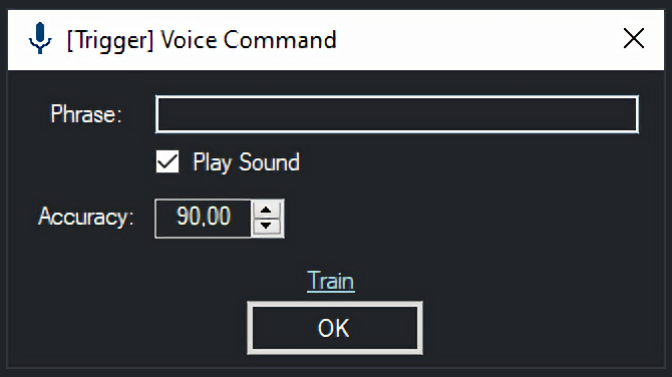
USB Drive



Added – A USB drive was added

Removed – A USB drive was removed

Voice Command



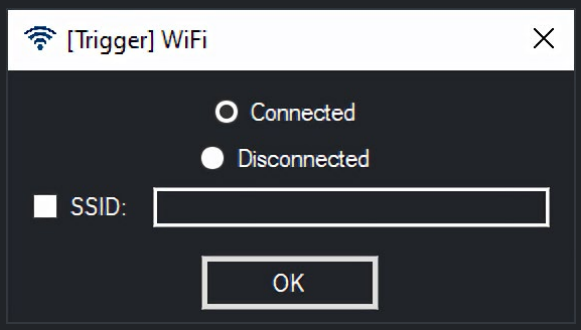
Phrase – Spoken phrase to fire the trigger

Play Sound – Play a sound when the specified phrase was recognized

Accuracy – Minimum accuracy required before firing the trigger

Train – Opens Microsoft Speech Recognition

WiFi

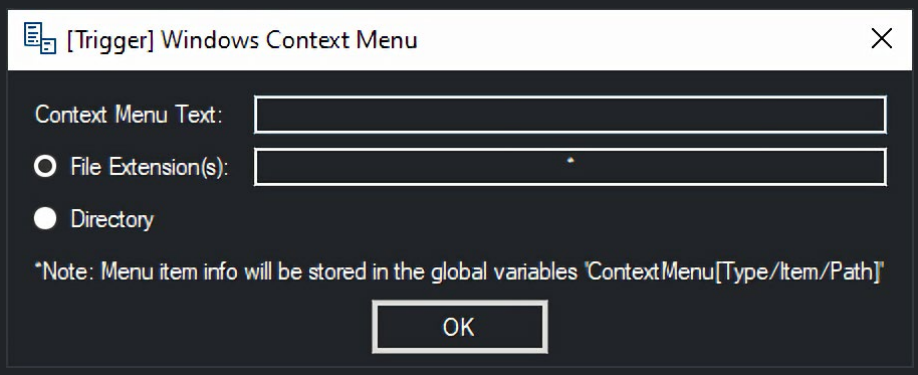


Connected – After the device connected to any WiFi network

Disconnected – After the device disconnected from any WiFi network

SSID – Adds a constraint to connected/disconnected where the device must be connected to/disconnected from a network with the specified SSID.

Windows Context Menu

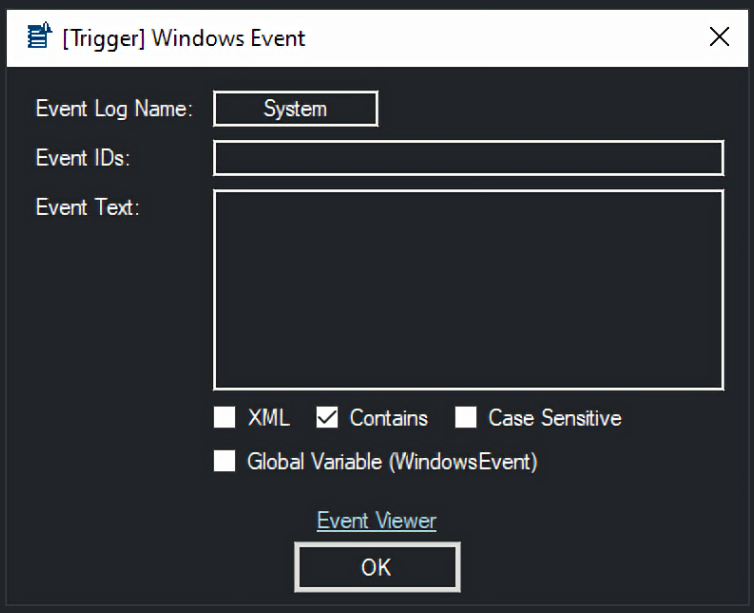


Context Menu Text – Text to appear on the context menu

File Extensions – File types (e.g. jpg, png, bmp) to associate the context menu item with

Directory – Associate the context menu item with directories

Windows Event



Event Log Name – Choose between Application/Security (requires admin)/Setup/System

Event IDs – ID(s) of the event

Event Text – Text of the event

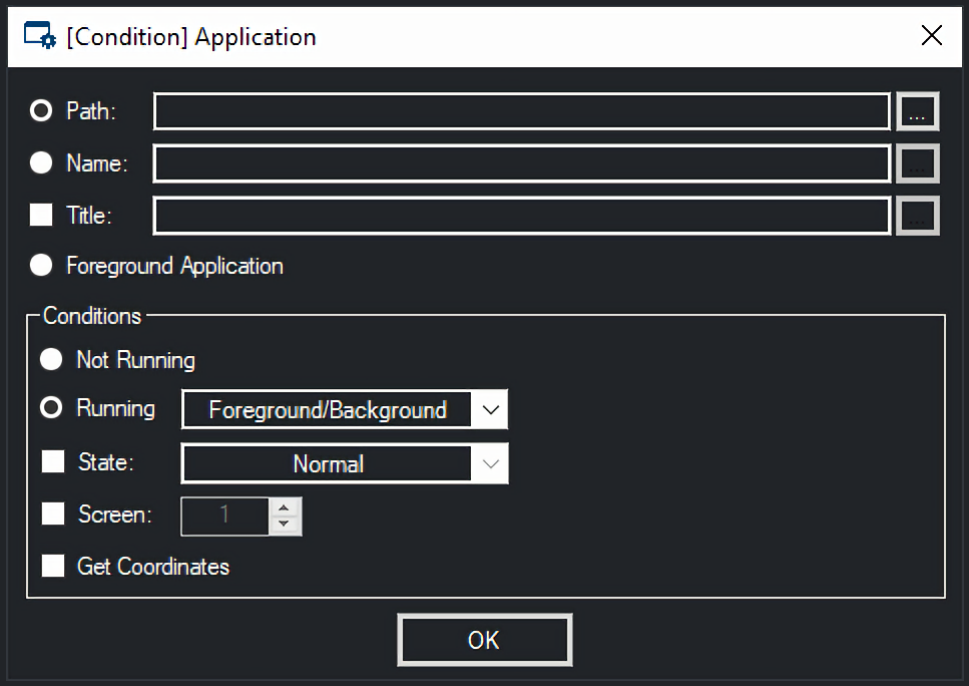
XML – Toggle between event description/XML

Global Variable (WindowsEvent) – The description/XML of the event will be stored in the 'WindowsEvent' global variable

Conditions

- Application
- Audio
- Battery
- Button Grid
- Clipboard
- Day/Time
- Dialog
- Directory
- Drive
- Drop Down Dialog
- File
- File Picker
- Folder Picker
- Global Variable
- Idle
- Image Detection
- Input
- Keyboard
- Macro
- Media
- Mouse
- Notification
- OCR
- Performance
- Pixel Search
- Programming/Script
- Public Holiday
- Screen
- Session
- Task Scheduler
- Toggle Keys
- UI Automation
- Wait
- WiFi
- Windows Event

Application



Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.

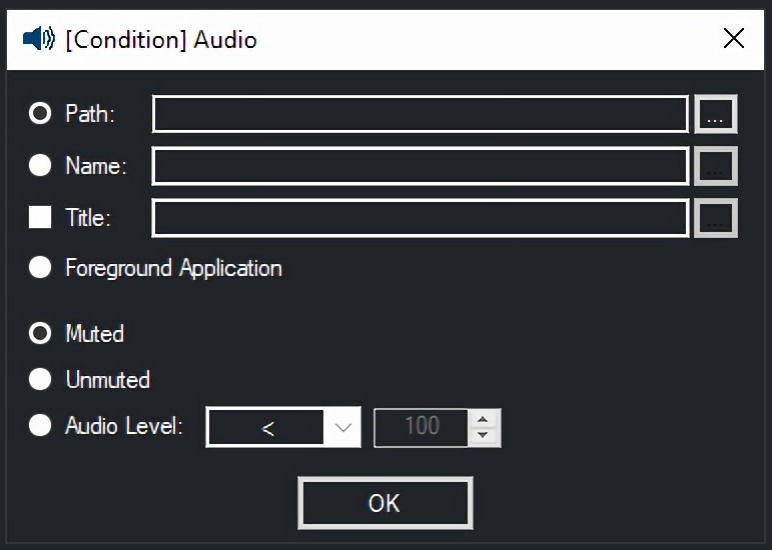
Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.

Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

Conditions:

- Running:
  - Foreground/Background – The application is running in the foreground or background
  - Foreground – The application is running and is the focused window
  - Background – The application is running and is **not** the focused window
- Not Running – The application is not running on the system
- State – The application is in the specified state
- Screen – The application is on the specified screen
- Get Coordinates – Get the coordinates (with and without shadows)

Audio



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Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.

Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

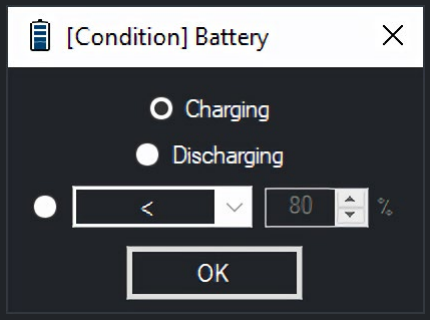
Foreground Application – The current active/focused application

Muted – The specified application is muted

Unmuted – The specified application is not muted

Audio Level – Compare the application's audio level with the specified value

Battery

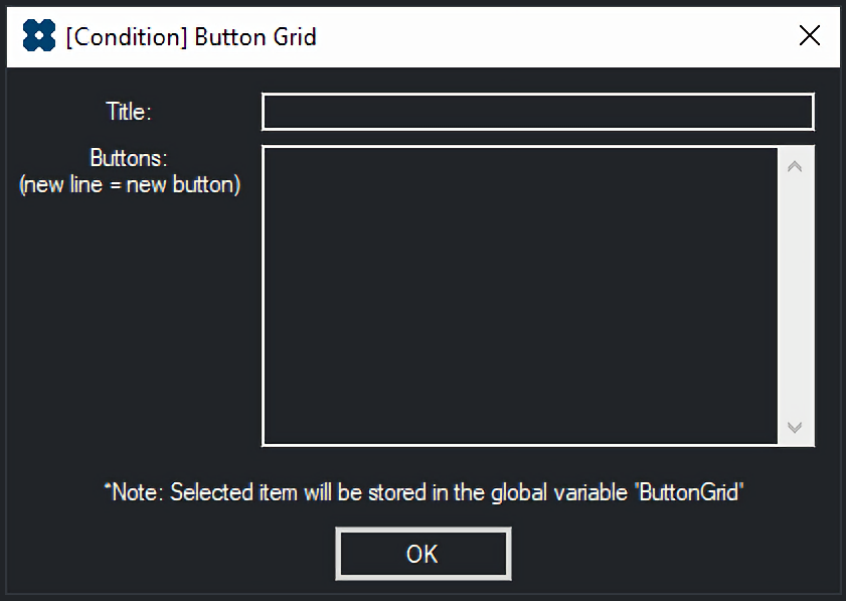


Charging – A power source is connected to the device

Discharging – A power source is not connected to the device

Compare – Compare the current battery level with the specified value

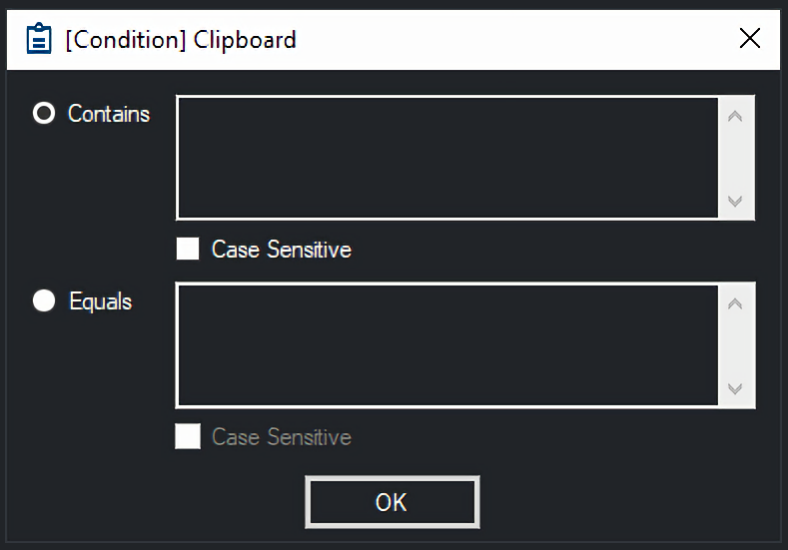
Button Grid



Title – Title of the button grid form

Buttons – Text of the buttons on the button grid form, separated by new lines

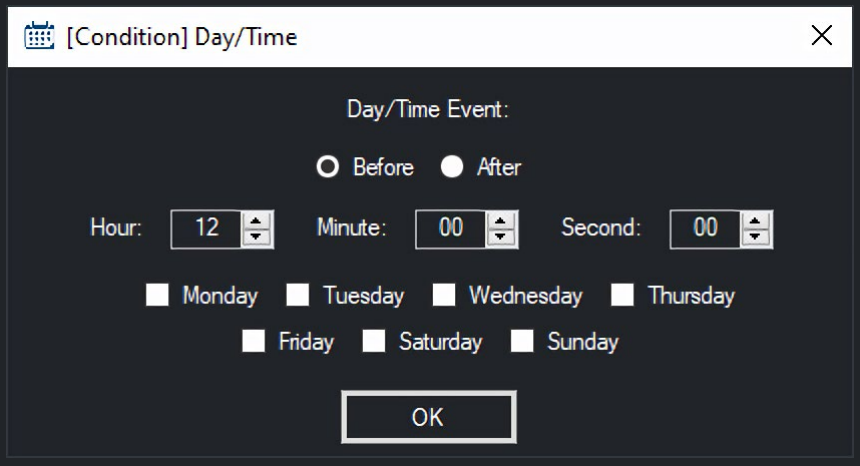
Clipboard



Contains – The clipboard contains the specified text

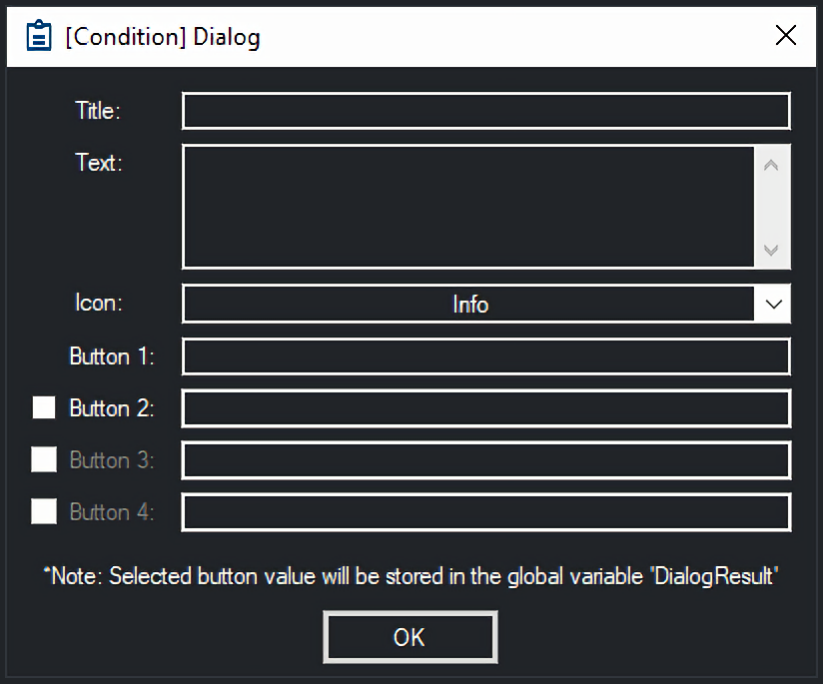
Equals – The clipboard is exactly equal to the specified text

Day/Time



Select the required (local) day(s) and time of day of the device.

Dialog



The selected button's text will be stored in the 'DialogResult' global variable.

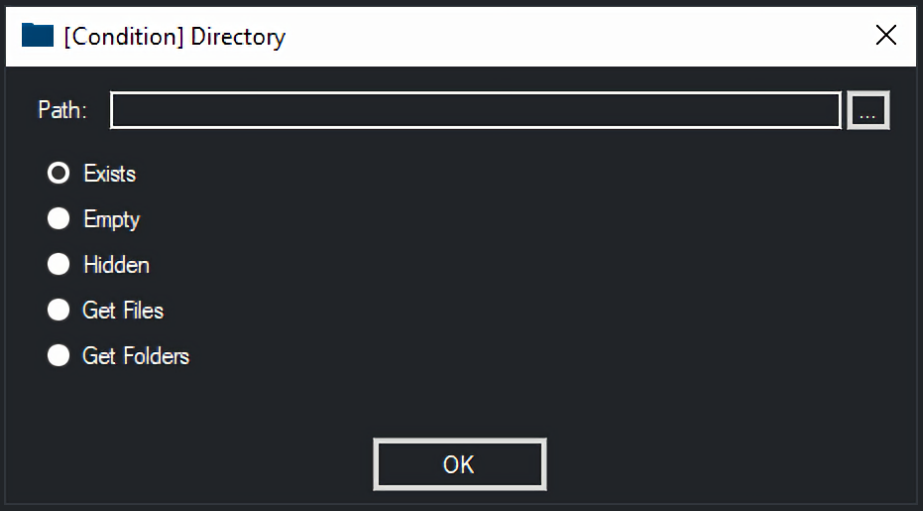
Title – Title of the dialog form

Text – Text on the dialog form

Icon – Icon on the dialog form

Buttons – Buttons on the dialog form

Directory



Path – Location of the directory

Exists – If the specified directory exists

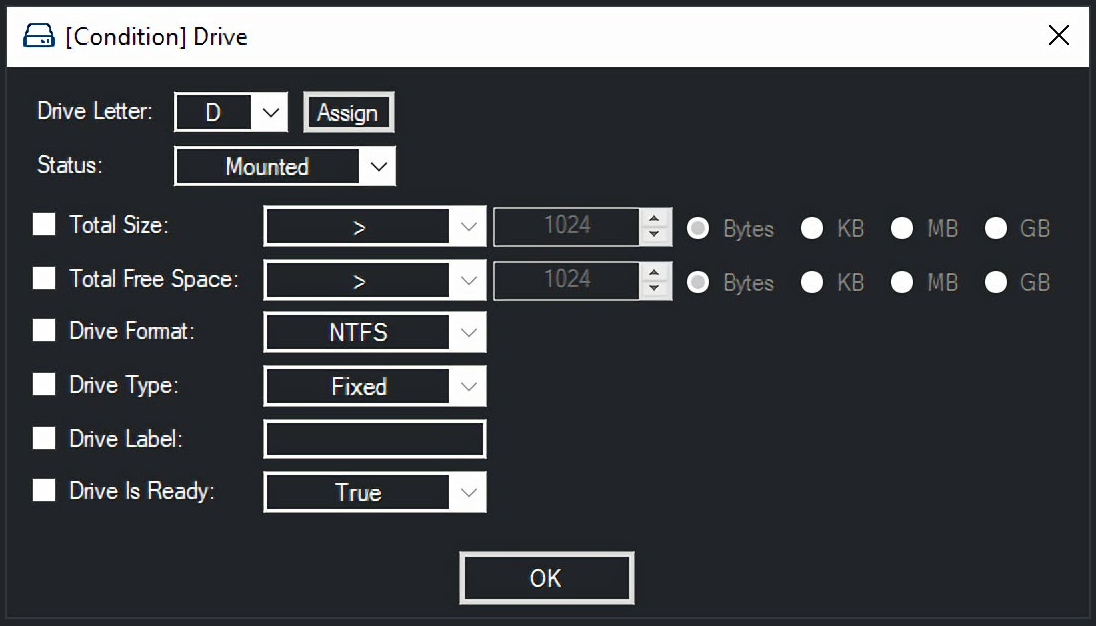
Empty – If the specified directory is empty

Hidden – If the specified directory is hidden

Get Files – Get all files in the specified directory and store them in the global variable ‘DirectoryFiles’

Get Folders – Get all folders in the specified directory and store them in the global variable ‘DirectoryFolders’

Drive



Drive Letter – Letter of the drive

Status – Status of the drive

Total Size – Comparison of the total size of the specified drive

Total Free Space – Comparison of the total free space of the specified drive

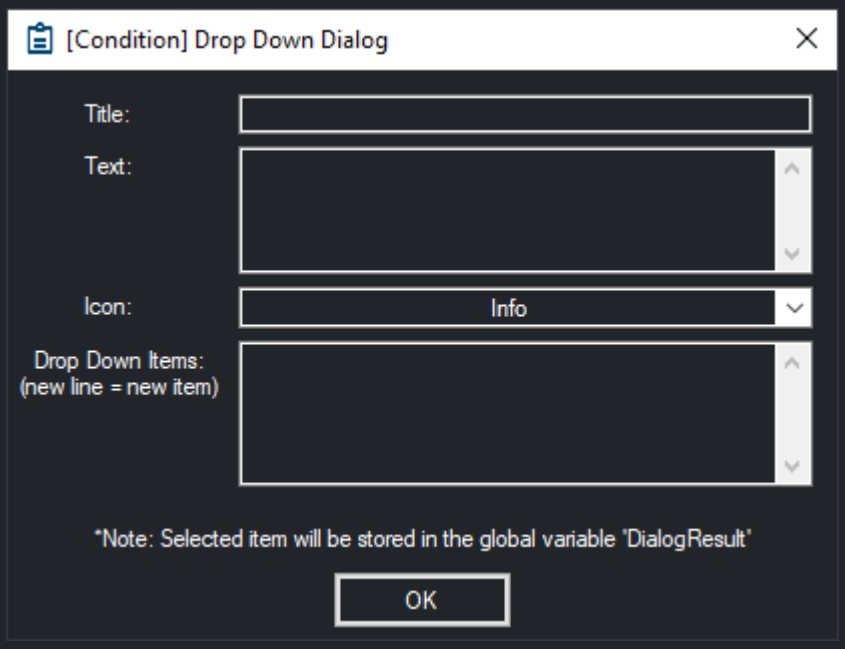
Drive Format – The required format of the specified drive

Drive Type – The required type of the specified drive

Drive Label – The required drive label of the specified drive

Drive Is Ready – The required ready status of the specified drive

Drop Down Dialog



The selected drop-down item's text will be stored in the 'DialogResult' global variable.

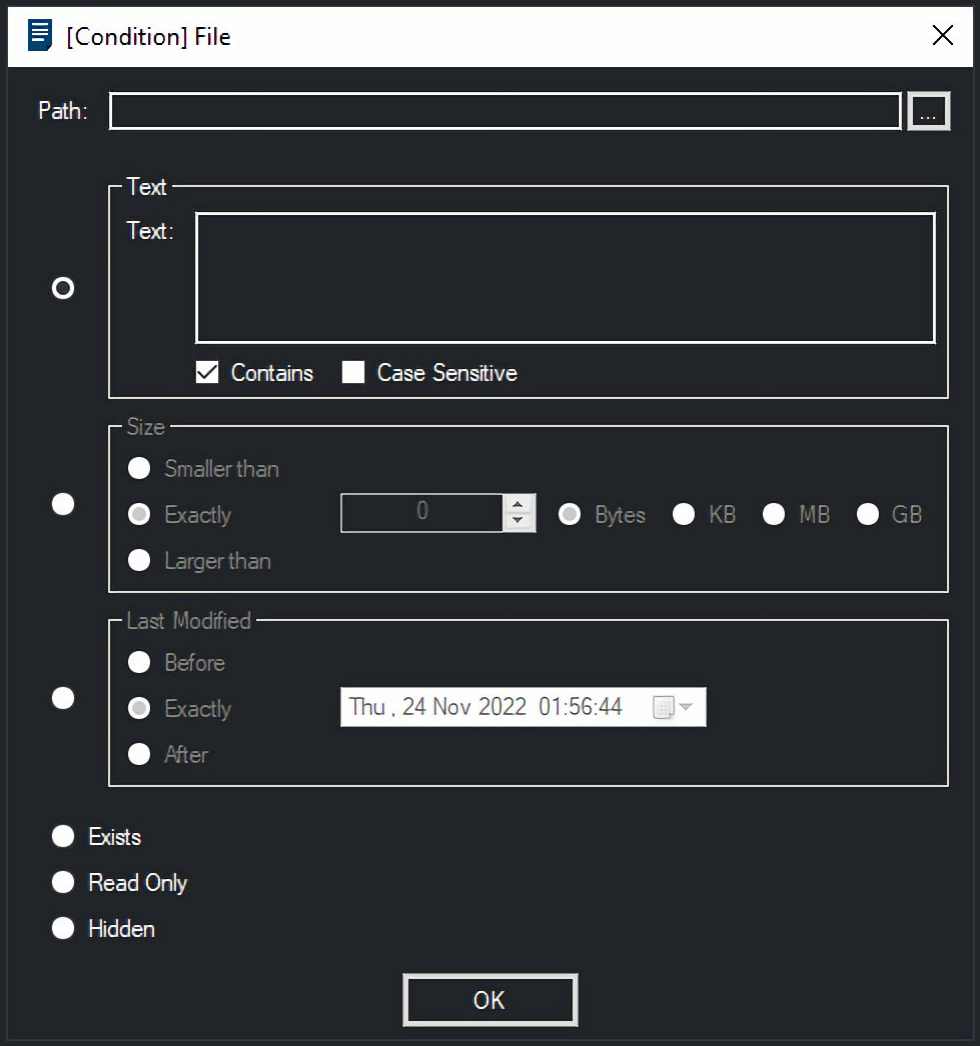
Title – Title of the dialog form

Text – Text on the dialog form

Icon – Icon on the dialog form

Drop Down Items – The items that should appear in the drop-down list, separated by new lines

File



Path – Location of the file

Text – Comparison of the text inside the specified file. Supported document types include Word, Excel, PDF, and Text files

Size – Comparison of the size of the specified file

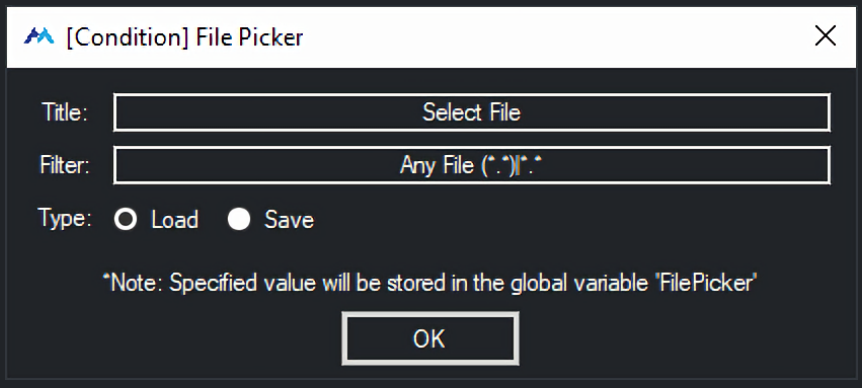
Last Modified – Comparison of the last modified property of the specified file

Exists – If the specified file exists

Read Only – If the specified file's read only property is set to true

Hidden – If the specified file's hidden property is set to true

File Picker

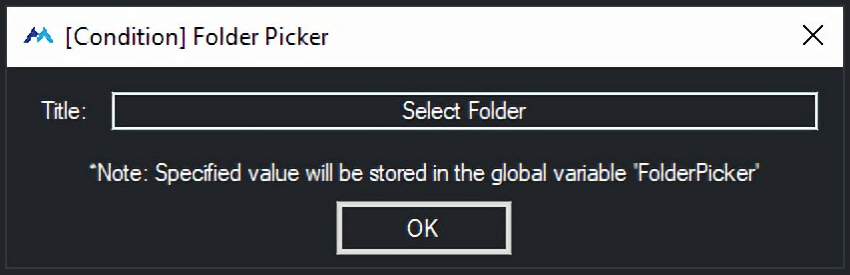


Title – Title of the file picker window

Filter – Filter of the file picker

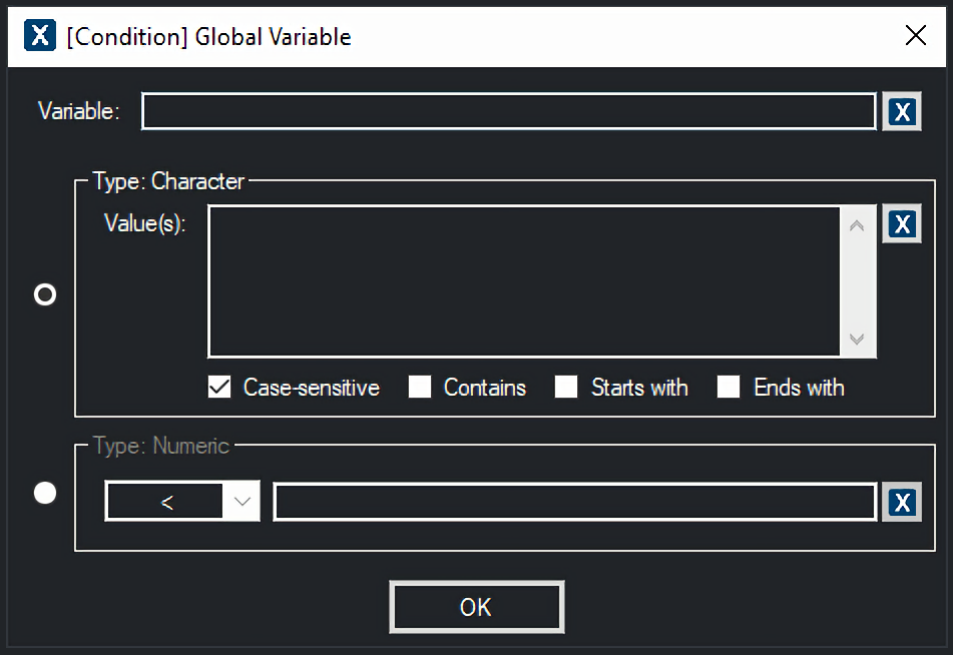
Type – Type of file picker dialog to show

Folder Picker



Title – Title of the Folder Picker window

Global Variable



Variable – The name of the variable

Value(s) – The value(s) of the variable, each separated by a new line

Case-sensitive – The comparison should be case-sensitive

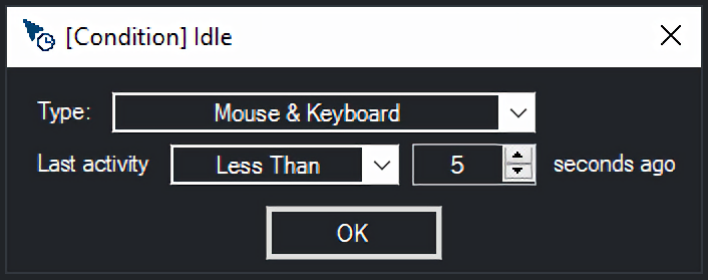
Contains – The variable should contain the specified text

Starts with – The variable should start with the specified text

Ends with – The variable should end with the specified text

Numeric – Convert the specified variable to a double and compare against the specified value

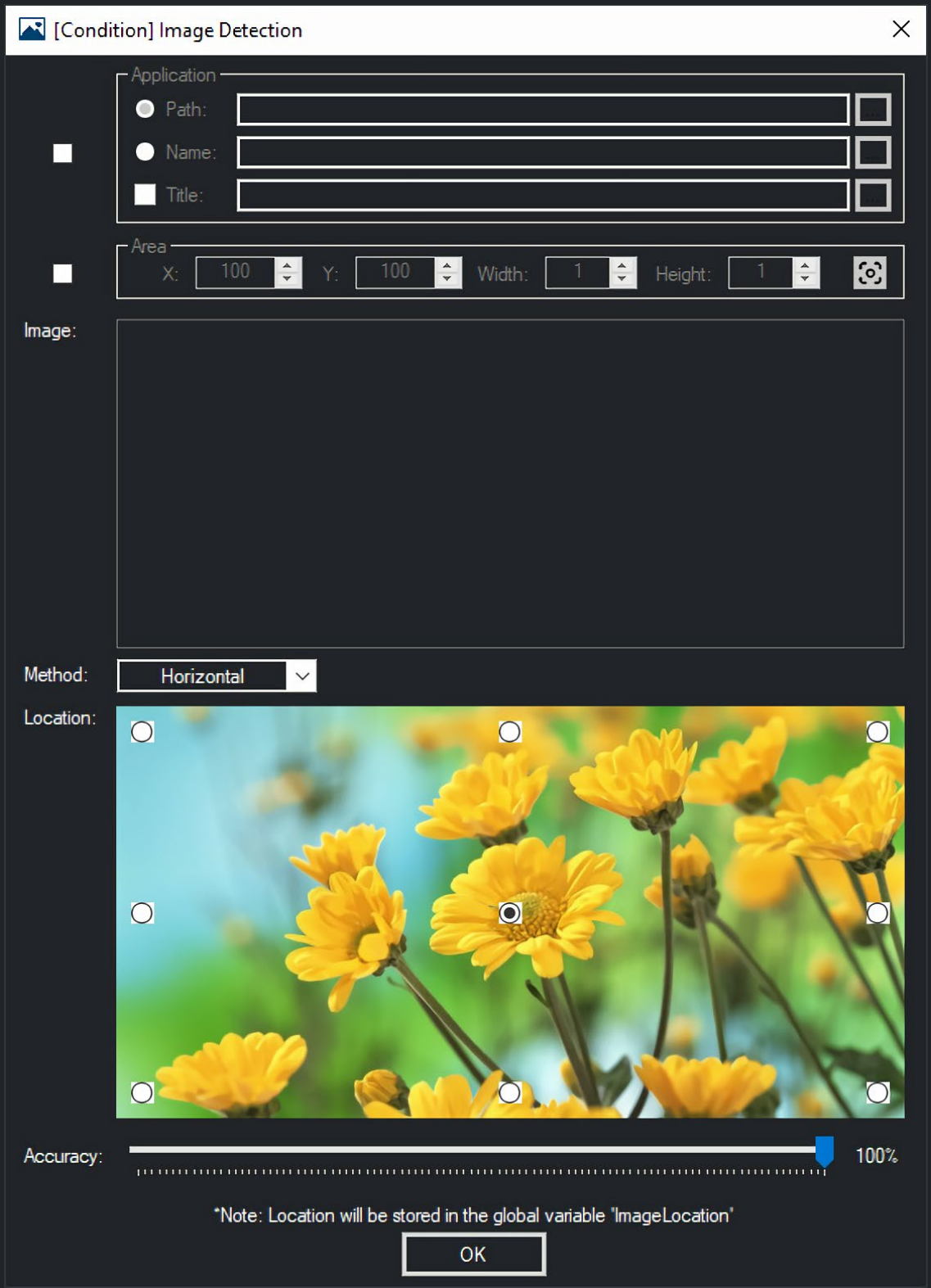
Idle



Type – Choose between Mouse, Keyboard or Both

Last activity – If the Mouse, Keyboard or Both (depending on the selected type) was activated less/more than the specified number of seconds ago.

Image Detection



Application – Search for the specified image inside the bounds of an application

Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.

Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.

Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

Area – Search for the specified image inside the specified area

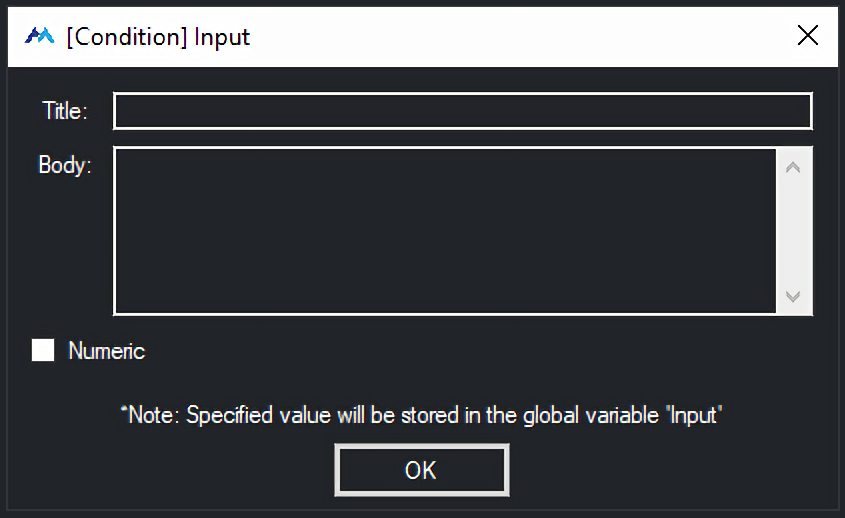
Image – The image to find on the screen/application window

Method – The method used to find the image (Vertical/Horizontal/Center)

Location – The coordinates of the image to store if found (e.g. Center/Top Left Corner)

Accuracy – The image color accuracy required for the trigger to fire

Input



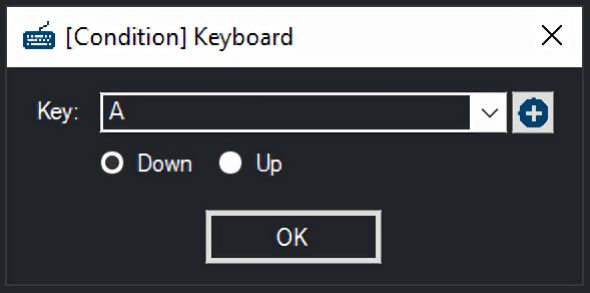
The value will be stored in the ‘Input’ global variable.

Title – Title of the dialog form

Body – Text on the dialog form

Numeric – Change input type to numeric

Keyboard

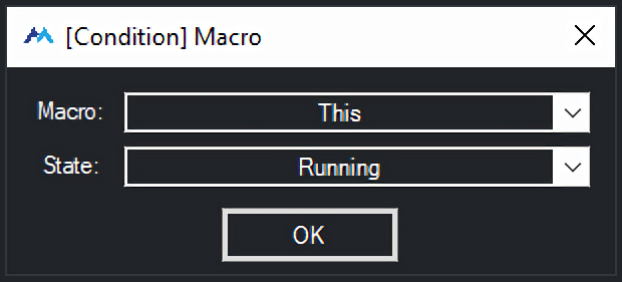


Button – Specify a key by pressing any key on the keyboard

Down – If the specified key is currently pressed down

Up – If the specified key is not currently pressed down

Macro



Macro – The macro's state to check (Note: The macro "This" refers to any other instance of the current macro)

State – Whether the macro is running or not

Media

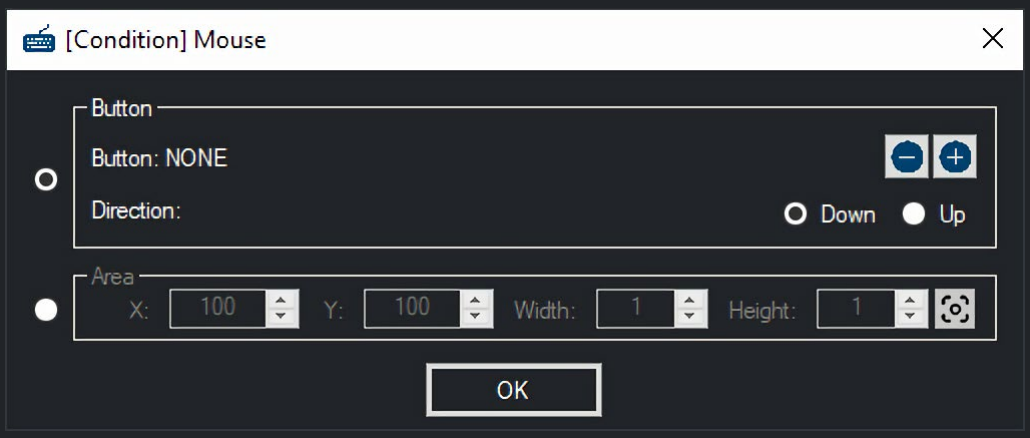
Playing – The volume of the current output device is more than 0%

Not Playing – The volume of the current output device is 0%

More Than – The volume of the current output device is larger than the specified value

Less Than – The volume of the current output device is less than the specified value

Mouse



Press the ⊕ button to start listening for a button. Press any button on your mouse to register the hotkey.

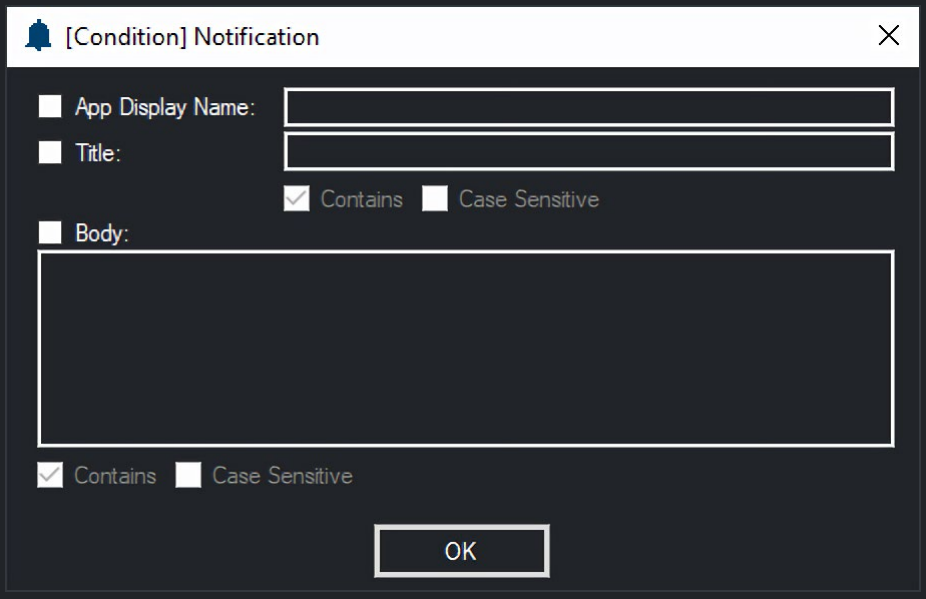
Press the ⊖ button to remove all registered buttons.

Down – If the specified button is currently pressed down

Up – If the specified button is not currently pressed down

Area – If the cursor's position is located inside the specified area

Notification



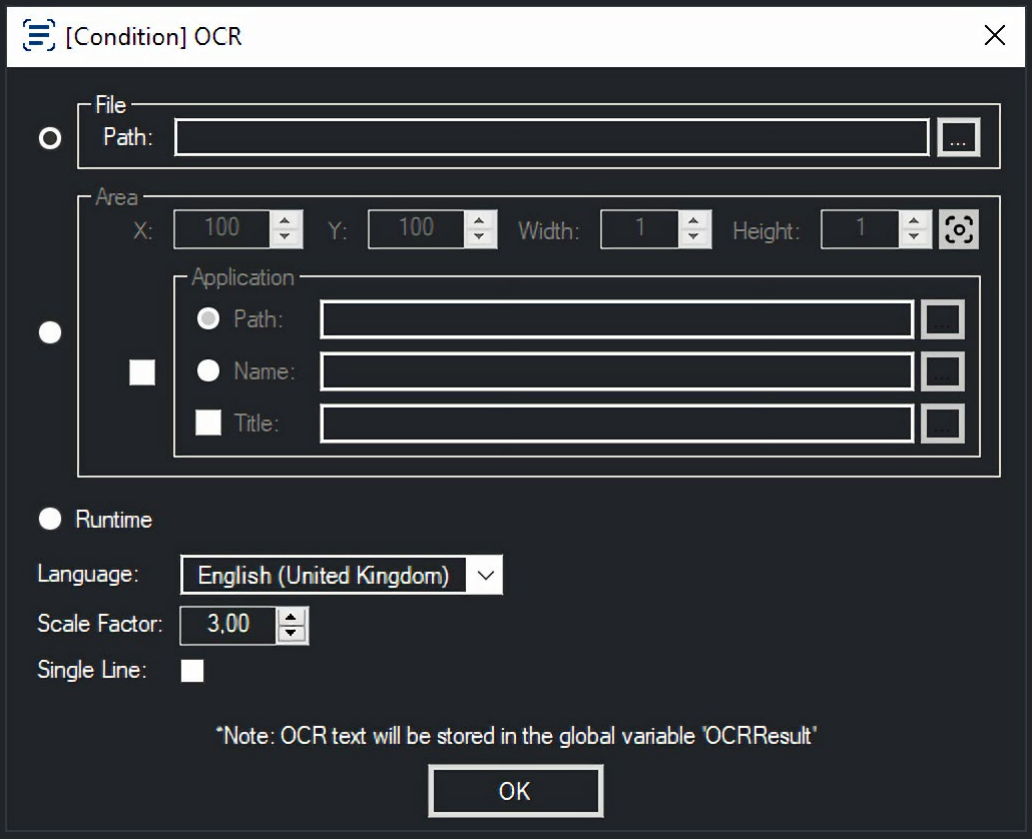
(Windows 10 [v6.2.9200.0] or above required)

App Display Name – Display name of the application

Title – Title of the notification

Body – Body of the notification

OCR



(Windows 10 [v6.2.9200.0] or above required)

Optical Character Recognition (OCR) converts pictures into text.

(File) Path – Location of the file

Area – Area on the screen

Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.

Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.

Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

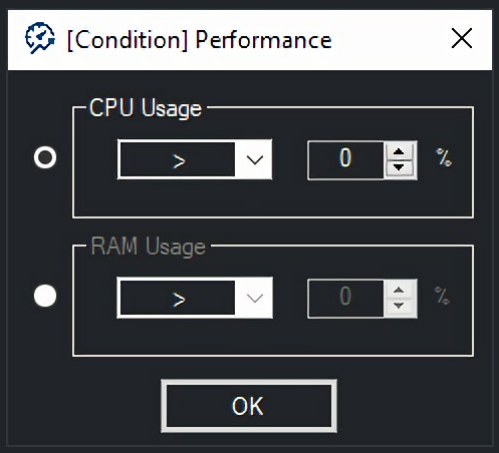
Runtime – Select an area when the condition is being checked

Language – The language of the text (different languages should still work with English)

Scale Factor – Resize (Upscale) the image if the OCR results are missing/inaccurate

Single Line – Remove all line breaks from the OCR result

Performance



(Note: Performance measurement may take a few seconds to start)

< – Usage is less than the specified value

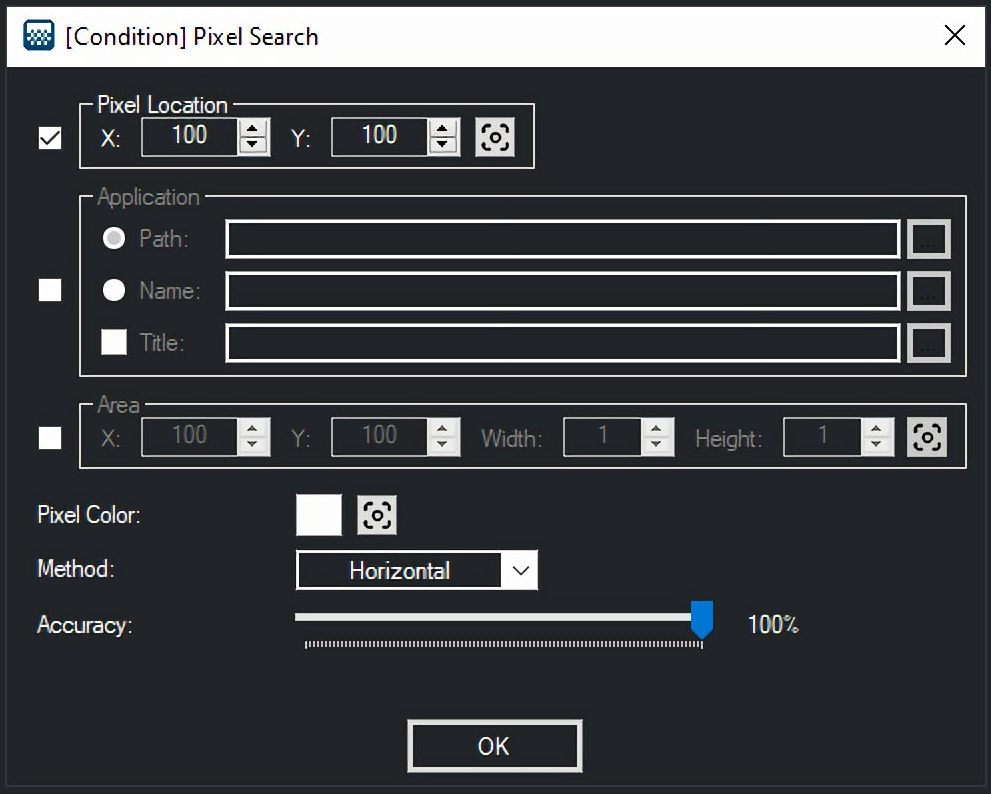
<= – Usage is less than or equal to the specified value

= – Usage is equal to the specified value

>= – Usage is more than or equal to the specified value

> – Usage is more than specified value

Pixel Search



Pixel Location – The X and Y coordinates of the pixel to compare

Application – Search for the specified pixel inside the bounds of an application

Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.

Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.

Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

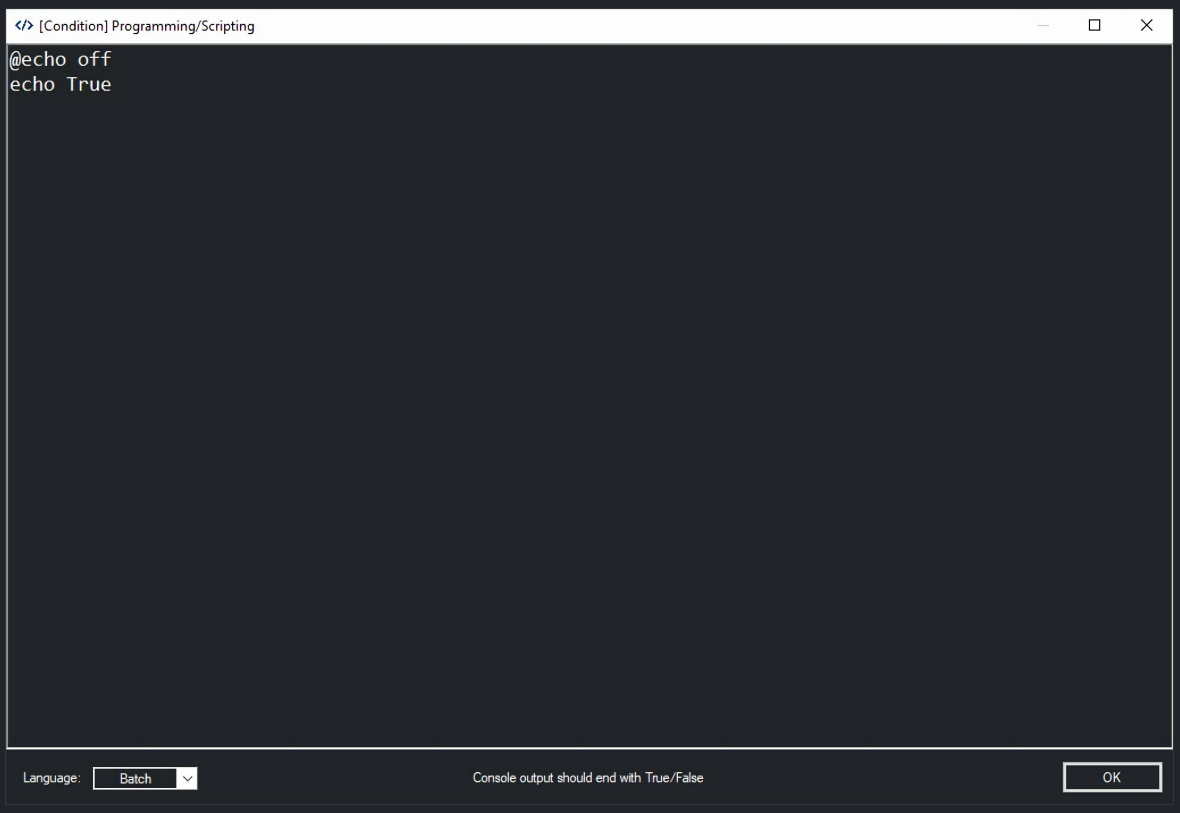
Area – Search for the specified pixel inside the specified area

Pixel Color – The pixel color to find on the screen/application window

Method – The method used to find the image (Vertical/Horizontal/Center)

Accuracy – The pixel color accuracy required for the trigger to fire

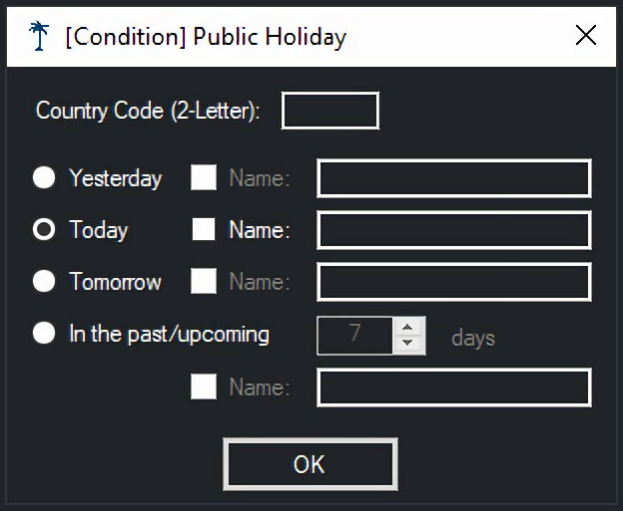
Programming/Scripting



Text Field – Code to execute

Language – Choose between Batch, PowerShell, C, C++, C#, JavaScript, Python and VBS

Public Holiday

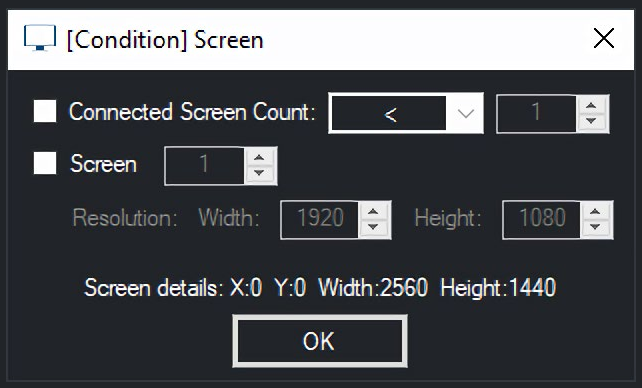


Country Code – 2-Letter code of the country to check

Yesterday – In the past/upcoming – Day(s) to check for the public holiday

Name – Name of the holiday

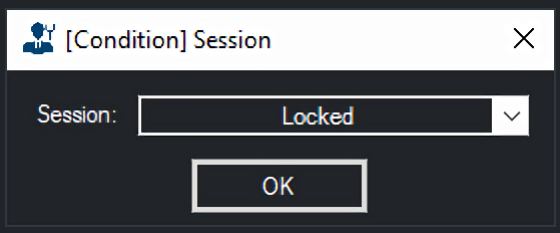
Screen



Connected Screen Count – The amount of connected screens

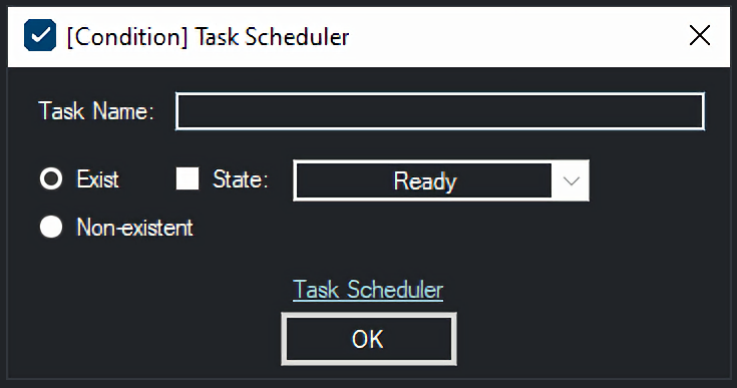
Screen – Comparison of the selected screen's resolution

Session



Session – If the system is in a specific state

Task Scheduler



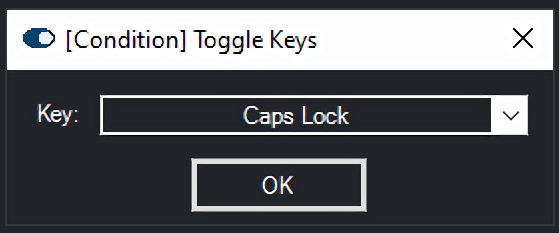
Task Name – The name of the task to check

Exists – If the task exists

- State – The current state of the task

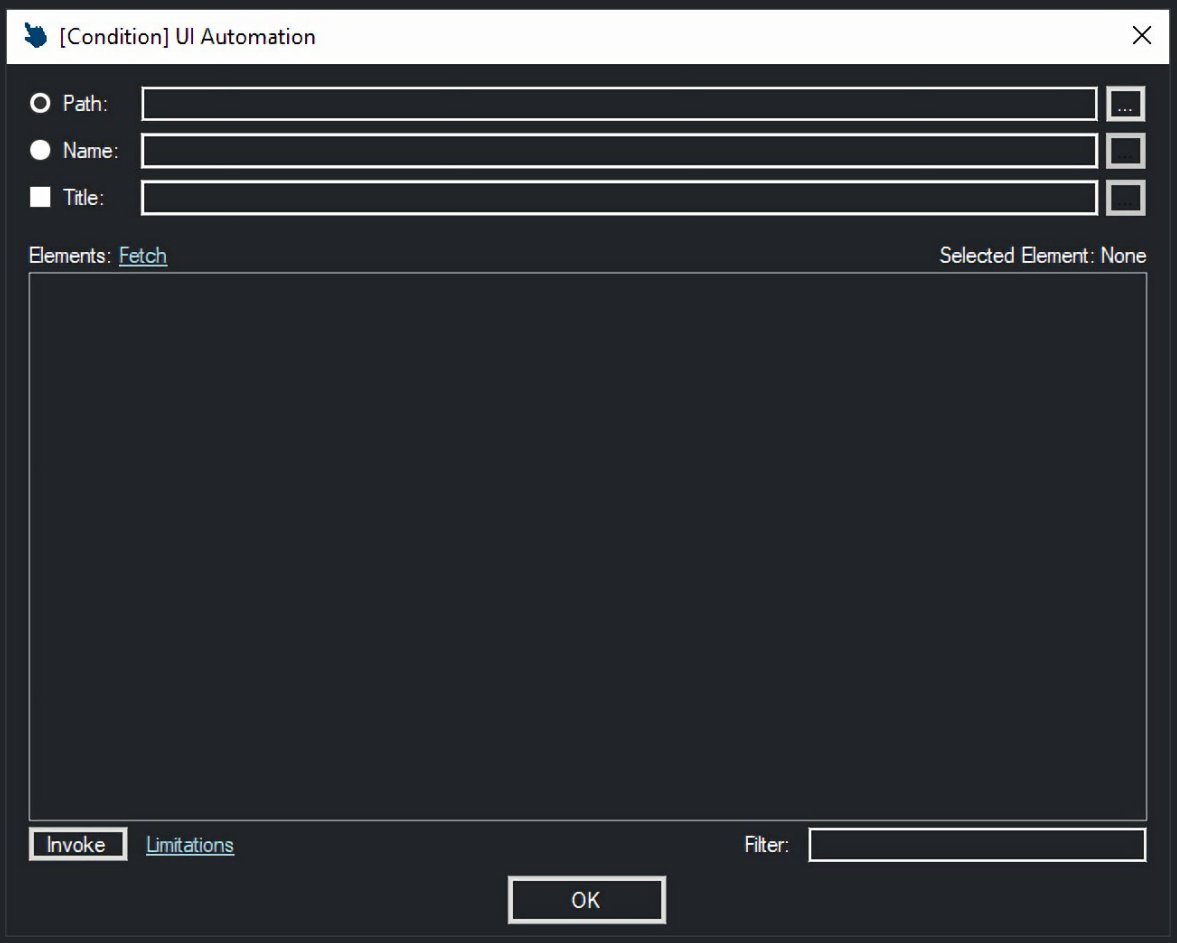
Non-existent – If the task does not exist

Toggle Keys



Key – The toggle key to check

UI Automation



Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.

Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.

Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

Fetch – Fetch the elements of the specified application and display them in a tree view

Invoke – Invoke the selected item

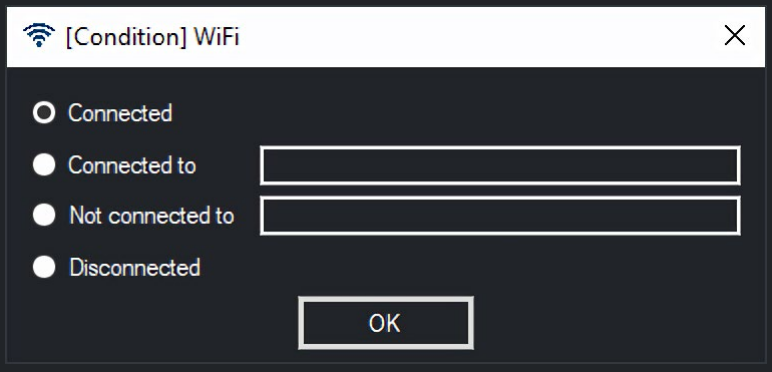
Filter – Filter the elements of the specified application

Wait

Milliseconds – Time to wait before checking next condition

Random – Enables a second numeric field for a randomized wait time

WiFi



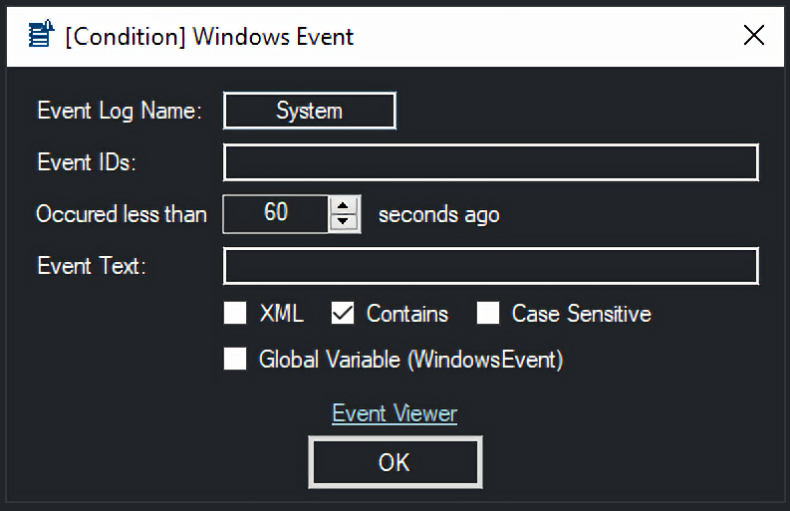
Connected – The device is connected to any WiFi network

Connected to – The device is connected to a WiFi network with the specified SSID

Not connected to – The device is not connected to a WiFi network with the specified SSID

Disconnected – The device is not connected to any WiFi network

Windows Event



Event Log Name – Choose between Application/Security (requires admin)/Setup/System

Event IDs – ID(s) of the event

Occurred less than – Filter only the latest events

Event Text – Text of the event

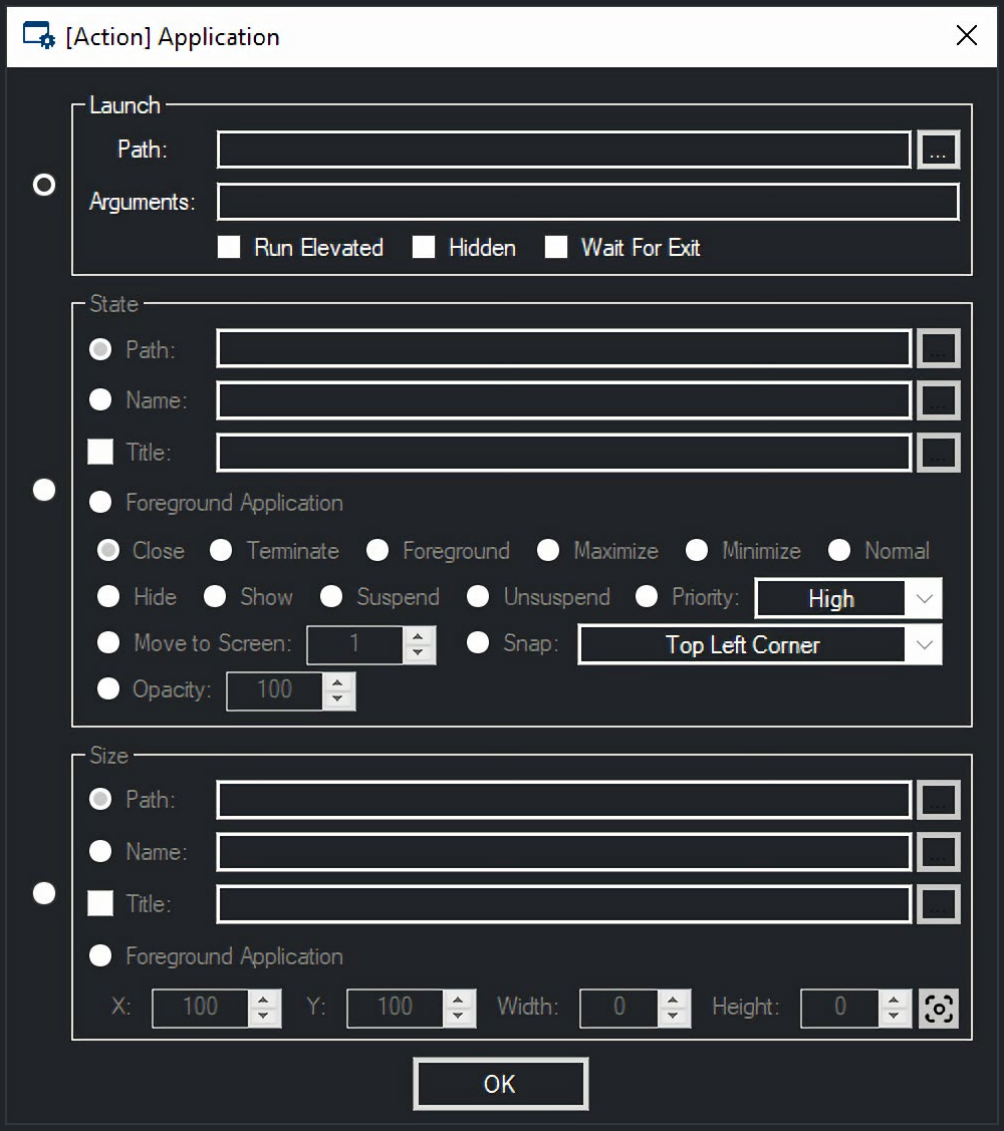
XML – Toggle between event description/XML

Global Variable (WindowsEvent) – The description/XML of the event will be stored in the 'WindowsEvent' global variable

Actions

- Application
- Audio
- AutoHotkey
- Brightness
- Clipboard
- Command
- Condition
- Directory
- Discord
- Email
- Encrypt/Decrypt
- End
- File
- For
- Global Variable
- Keyboard
- Keyboard Combination
- Macro
- Media
- Microsoft Office
- Mouse
- Notification
- Overlay
- Power
- Profile
- Programming/Script
- Projection
- Recorded Macro
- Repeat
- Screen Saver
- Screenshot
- Sound
- System
- Task Scheduler
- TCP/UDP
- Text
- Text to Speech
- Voice Command
- Wait
- Web
- Web Automation
- While
- WiFi
- Windows Event
- Windows Settings
- Windows Shortcut

Application



Launch:

- Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.
- Arguments – Parameters passed to the program when launched
- Run Elevated – Run the specified application with administrator privileges
- Hidden – Run application hidden (no window)
- Wait For Exit – Wait until the application closes before executing the next action

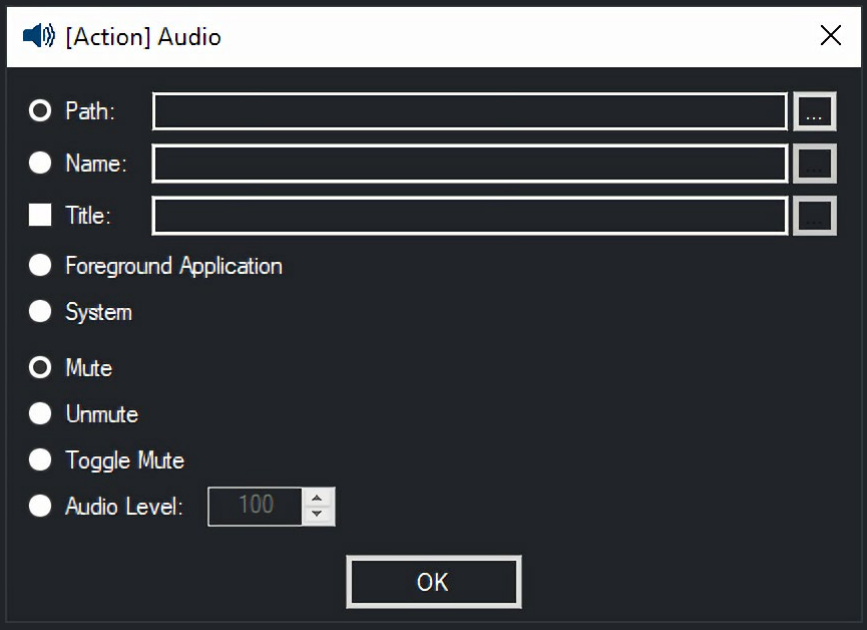
State:

- Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.
- Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.
- Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.
- Foreground Application – The current active/focused application
- State Options:
    - Close – Close the application
    - Terminate – Kill the application
    - Foreground – Bring the application's window to the foreground
    - Maximize – Maximize the application's window
    - Minimize – Minimize the application's window
    - Normal – Set the Window State back to normal for the specified application
    - Hide – Hide the application window
    - Show – Show the application window
    - Suspend – Suspend the application's process
    - Unsuspend – Unsuspend the application's process
    - Priority – Set the priority of the application
    - Move to Screen – Move the application window to the specified screen
    - Snap – Snap the application window to a side/corner of the current screen
    - Opacity – Set the opacity of the application window

Size:

- Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.
- Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.
- Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.
- Foreground Application – The current active/focused application
- X – X coordinate on screen
- Y – Y coordinate on screen
- Width – Width of the application window (0 = No Change)
- Height – Height of the application window (0 = No Change)
- Capture Button – Allows the user to capture the application's location and size

Audio



Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.

Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.

Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

Foreground Application – The current active/focused application

System – The system running MacroWin

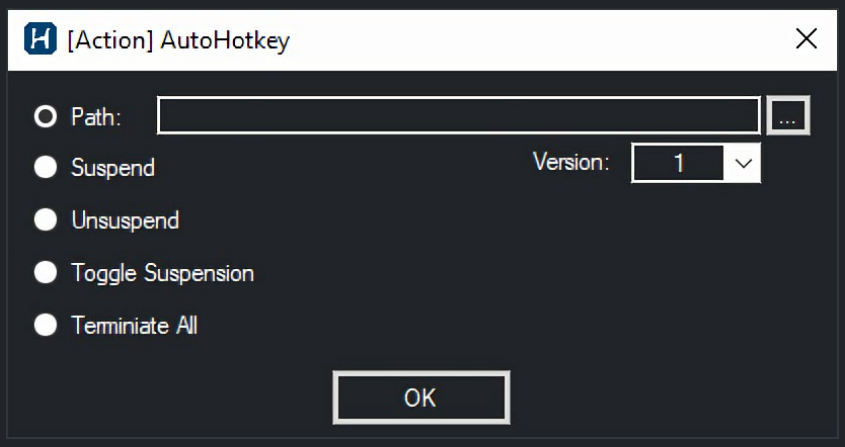
Mute – Mute the specified application

Unmute – Unmute the specified application

Toggle Mute – Toggle the mute state of the specified application

Audio Level – Set the audio level of the specified application

AutoHotkey



Path – AutoHotkey Script Path

- Version – AutoHotkey Version [1 / 2]

Suspend – Suspend the running AutoHotkey scripts

Unsuspend – Unsuspend the suspended AutoHotkey scripts

Toggle Suspension – Toggle the suspended state of the running AutoHotkey scripts

Terminate All – Terminate all running AutoHotkey scripts

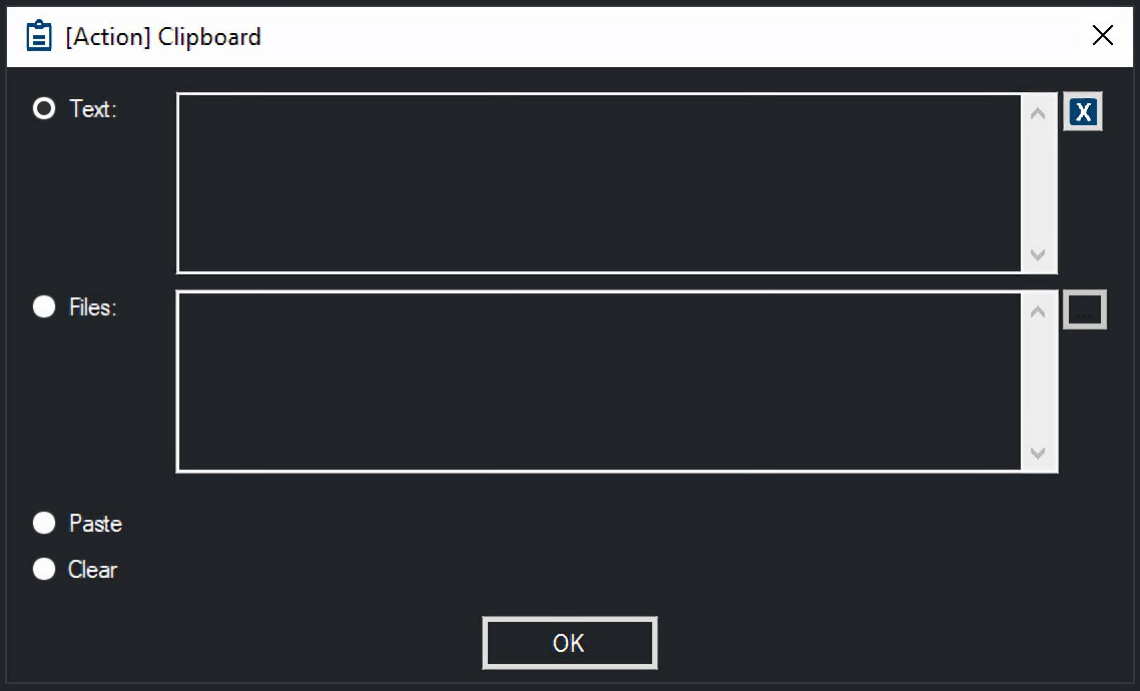
Brightness

Brightness – Set the brightness level of the selected monitor(s)

Type – Selection between laptop/external monitor(s)

Monitor – Specify the index of the monitor when multiple monitors are connected

Clipboard



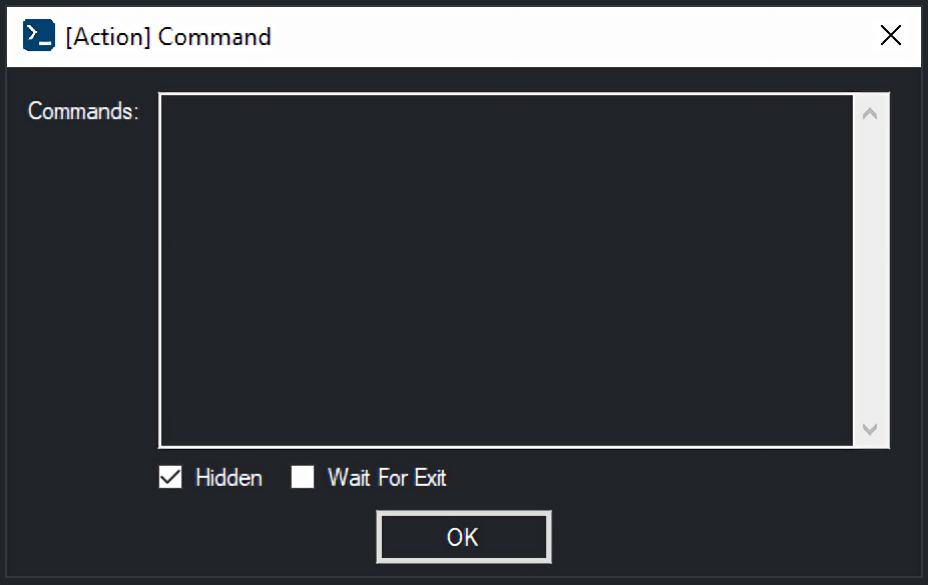
Text – Fill the clipboard with the specified text

Files – Fill the clipboard with the specified file(s)

Paste – Paste the contents of the clipboard

Clear – Clear the clipboard

Command

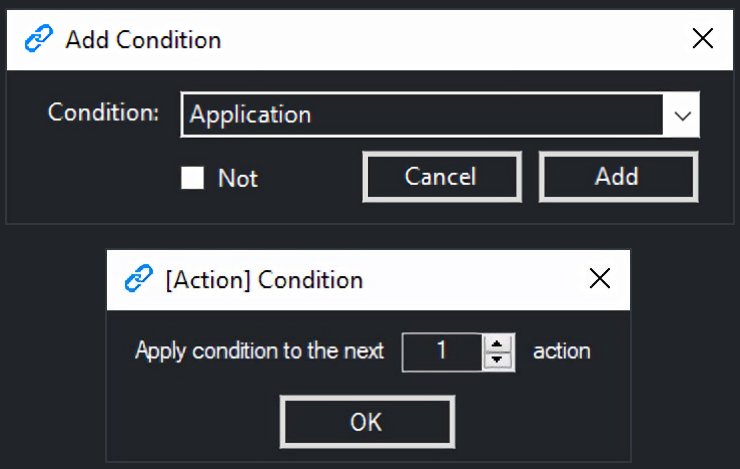


Commands – Command prompt commands to execute

Hidden – Hide the command line window

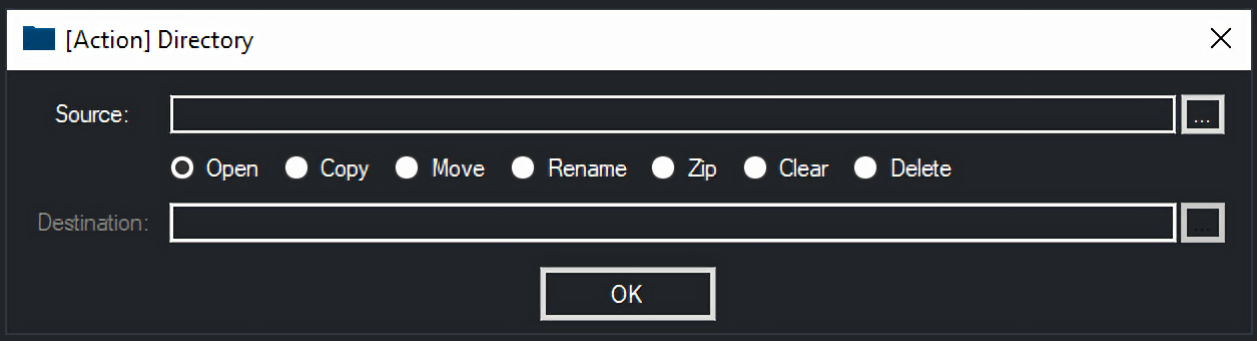
Wait For Exit – Wait for the command window to close before executing the next action

Condition



Select a condition and specify the number of actions it should apply to (if true).

Directory



Source – Source directory

Destination – Destination directory

Open – Open the source directory

Copy – Copy the entire directory from the source path into the destination directory

Move – Move the entire directory from the source path into the destination directory

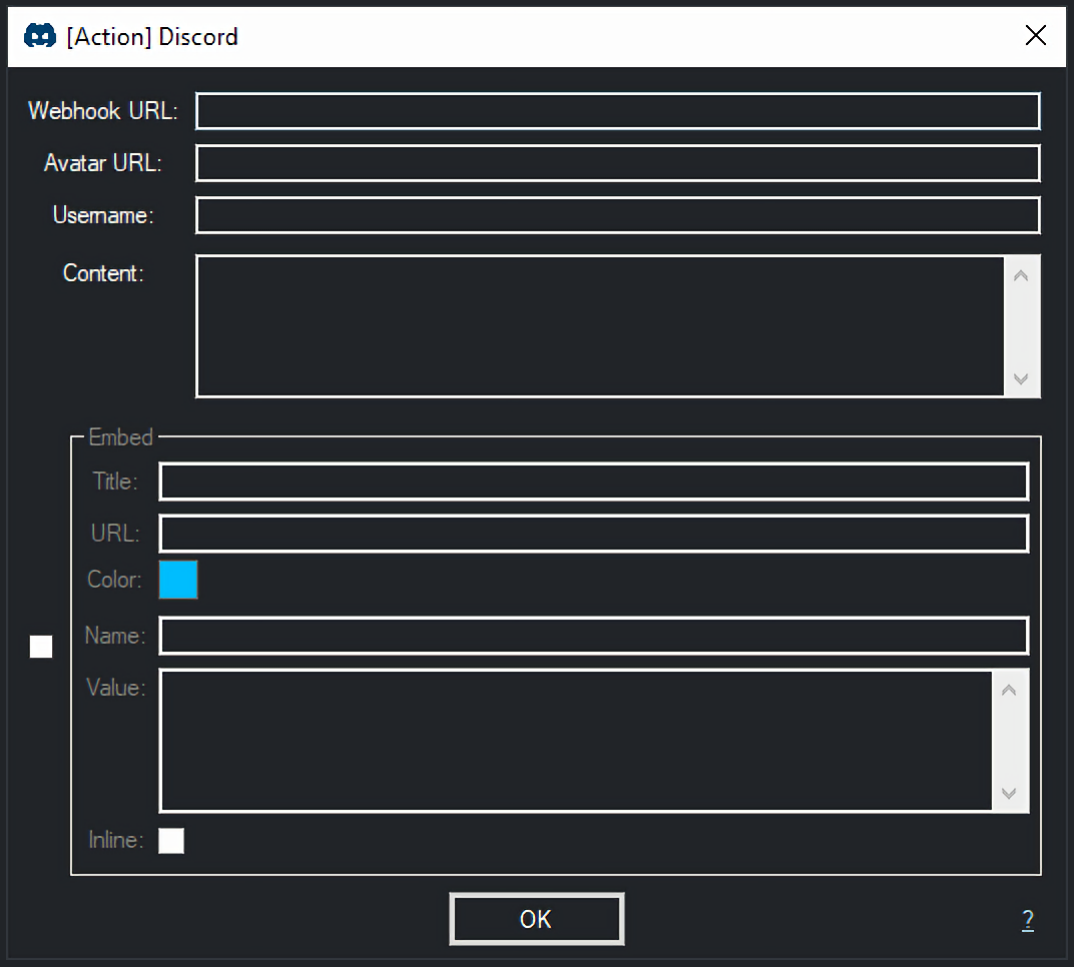
Rename – Rename the source directory

Zip – Zip the source directory

Clear – Clear the contents of the source directory

Delete – Delete the entire source directory

Discord



Webhook URL – URL of the Discord Channel Webhook

Avatar URL – URL of the image to use as the avatar for the Webhook

Username – Username of the Webhook

Content – Message content

Embed – Add an embedded message

Title – Title of the embedded message

URL – URL of the title to follow when clicked on

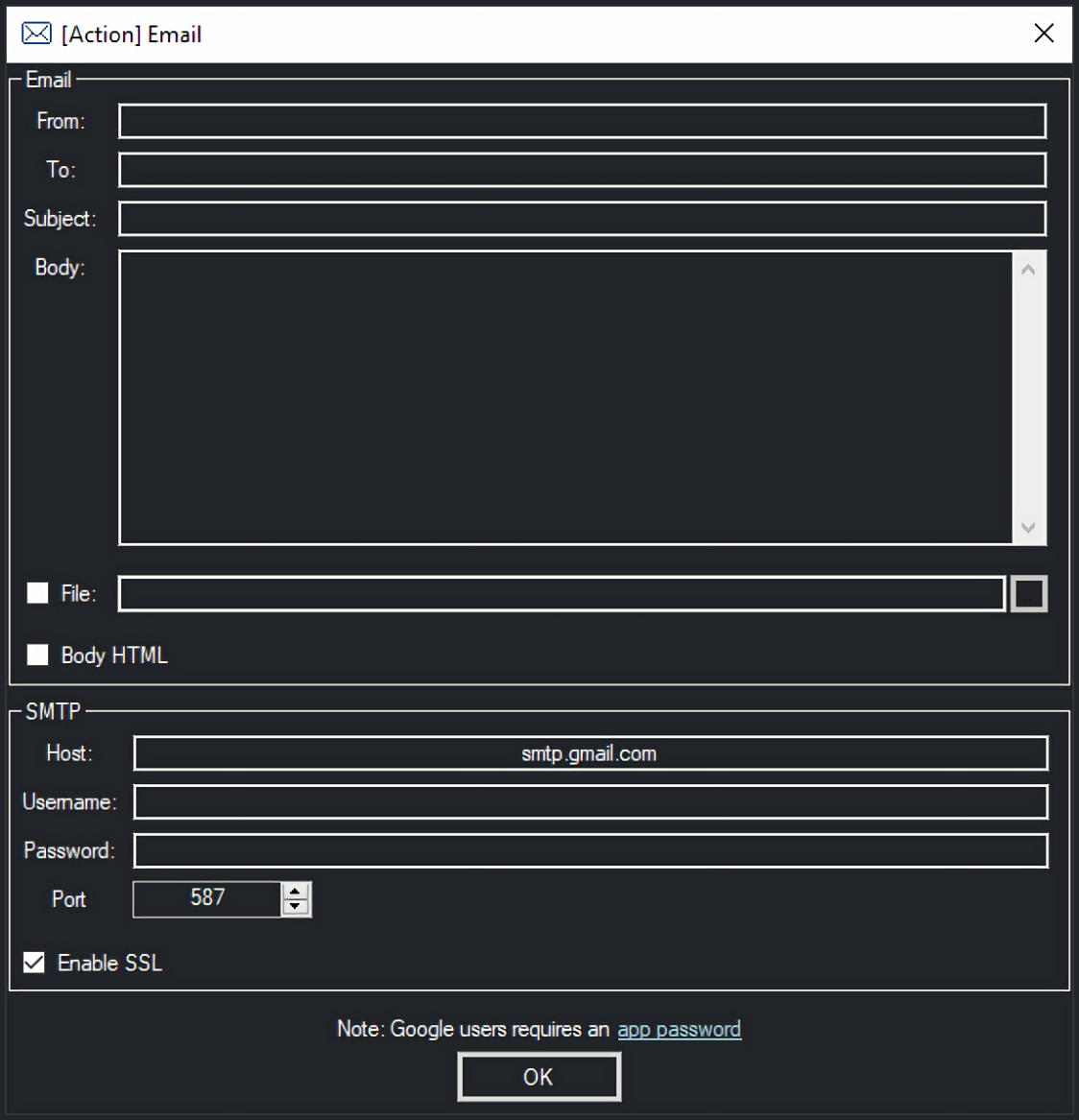
Color – Color of the line of the embedded message

Name – Subheading of the message content

Value – Message content

Inline – Inline the Name and Value fields of the embedded message

Email



From – Sender's email address

To – Recipient's email address

Subject – Subject of the email

Body – Body of the email

File – Include an attachment in the email

Body HTML – Specify whether the mail message body is in Html or not

Host – The name or IP address of the host computer used for SMTP transactions

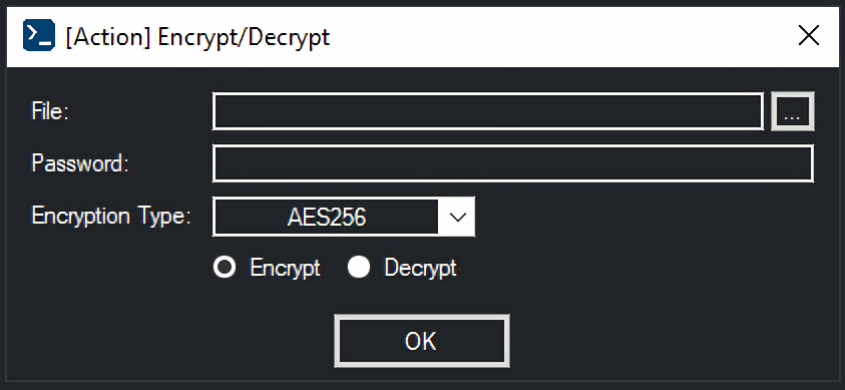
Username – The username used for the SMTP server

Password – The password used for the SMTP server

Port – The port used for SMTP transactions

Enable SSL – Specify whether the SMTP Client uses SSL to encrypt the connection

Encrypt/Decrypt



File – File to encrypt/decrypt

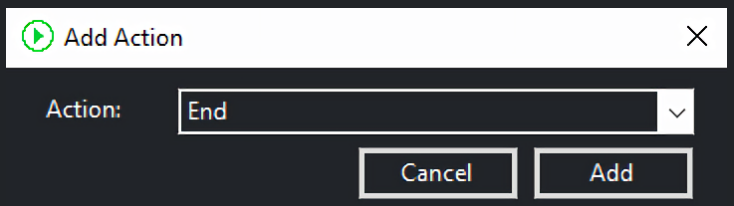
Password – Secret key used to encrypt/decrypt the specified file

Encryption Type – Type of encryption used to encrypt/decrypt the specified file

Encrypt – Encrypt the specified file

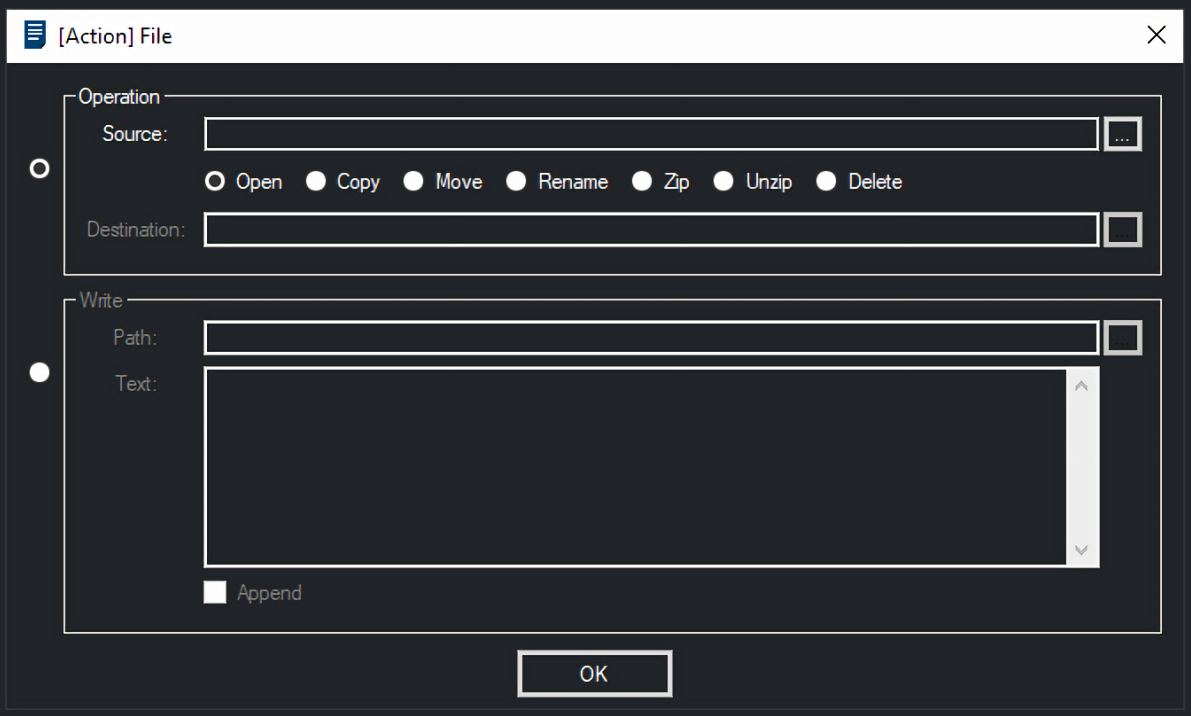
Decrypt – Decrypt the specified file

End



Stops the current macro from further execution

File



Source – Source file

Destination – Destination file

Open – Open the source file

Copy – Copy the source file to the destination path

Move – Move the source file to the destination path

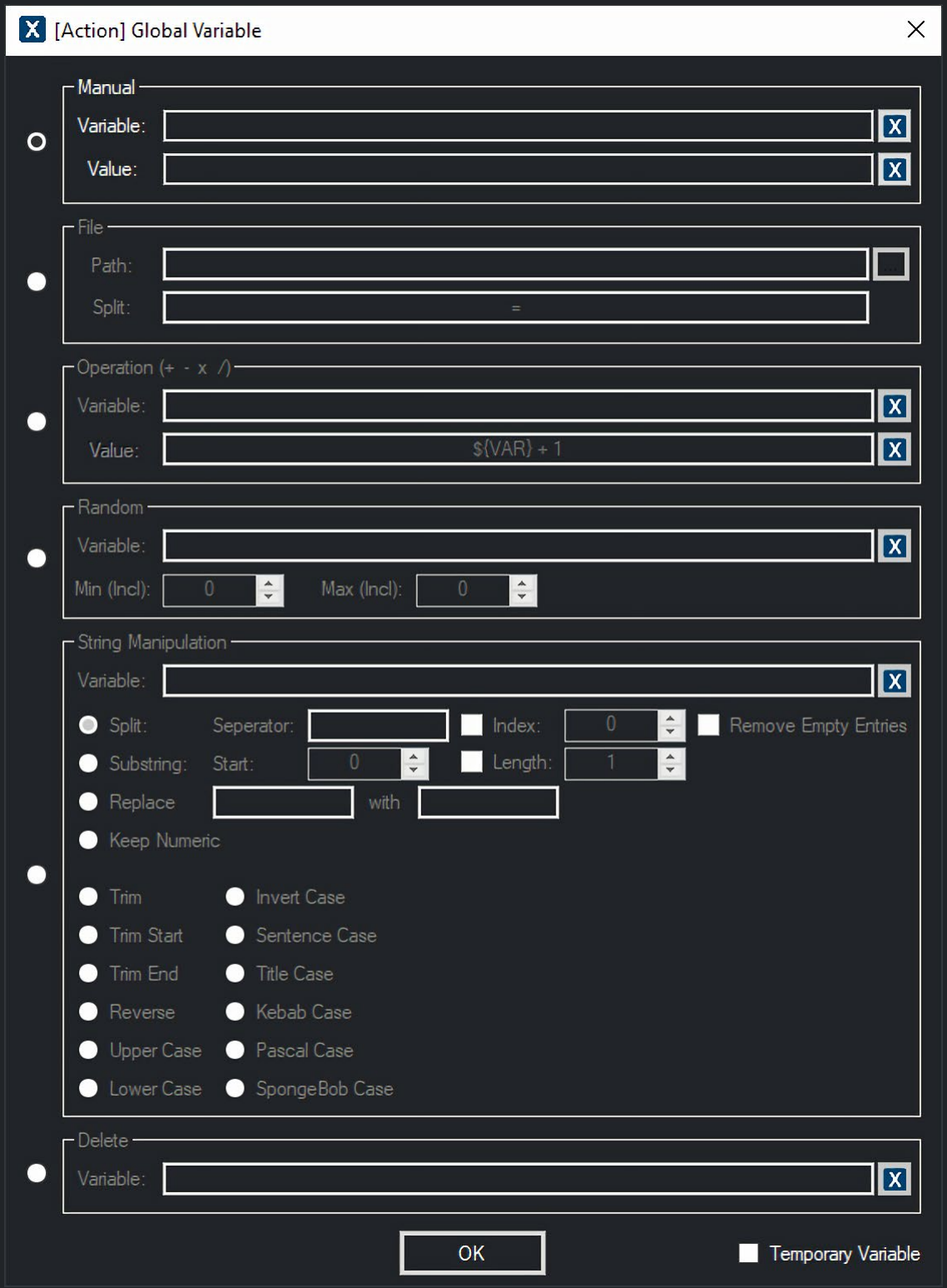
Rename – Rename the source file

Zip – Zip the source file

Unzip – Unzip the source file

Delete – Delete the source file

Global Variable



Temporary Variable – Temporary variables only exist for the duration of the executing macro

Manual:

- Variable – Name of the variable
- Value – New value of the variable

File:

- Path – Path of the text file to read the global variables from
- Split – Split string to separate variables and values

Operation:

- Variable – Name of the variable
- Value – Convert the specified variable(s), if any, to a numeric value and performs any of these supported operations:
    - Addition [+]
    - Subtraction [-]
    - Multiplication [*]
    - Division [/]
    - Order of operations [( )]

Random:

- Variable – Name of the variable
- Min (Incl) – Minimum value (Inclusive)
- Max (Incl) – Maximum value (Inclusive)

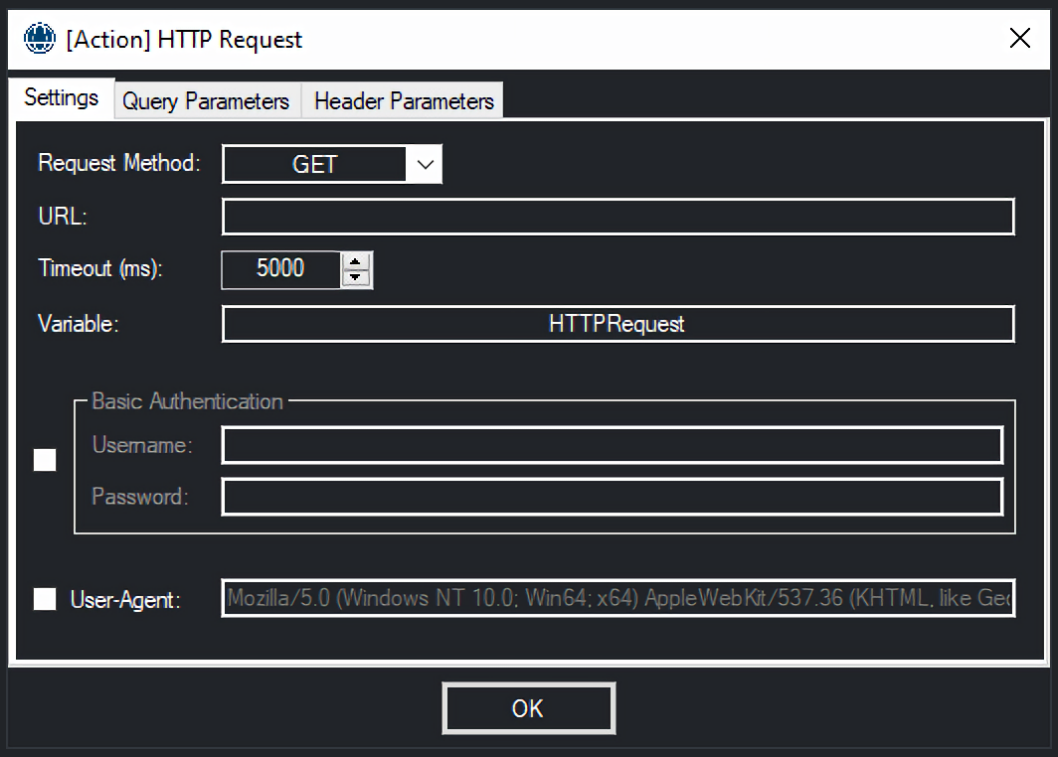
String Manipulation:

- Variable – Name of the variable to manipulate
- Split – Split the value of the variable
    - Separator – Split the variable's value on the specified text
    - Index – Only keep the specified index (starting at 0)
    - Remove empty entries – After splitting, get rid of empty entries
- Substring – Only keep a certain part of the variable's value
    - Start – Start index (starting at 0)
    - Length – Length of the characters to keep
- Replace – Replace the specified text in the variable's value
- Keep Numeric – Only keep the numeric parts of the variable's value
- Trim – Trim leading and trailing spaces
- Trim Start – Only trim the leading spaces
- Trim End – Only trim the trailing spaces
- Reverse – Reverse the variable's value
- Upper Case – Convert to upper case
- Lower Case – Convert to lower case
- Invert Case – iNVERT THE CAPITILZATION
- Sentence Case – Convert to a sentence case
- Title Case – Convert To A Title Case
- Kebab Case – Convert-to-kebab-case
- Pascal Case - ConvertToPascalCase
- SpongeBob Case – CoNvErT tO sPoNgEbOb CaSe

Delete:

- Variable – Name of the variable to delete

HTTP Request



Request Method – HTTP Method

URL – Address of the target destination

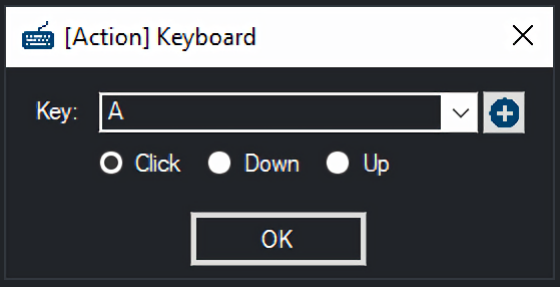
Timeout – Request timeout (in milliseconds)

Variable – Store the request response in the specified global variable

Basic Authentication – Transmit credentials as user ID/password pairs, encoded using base64

User-Agent – Characteristic string that lets servers and network peers identify the application, operating system, vendor, and/or version of the requesting user agent.

Keyboard



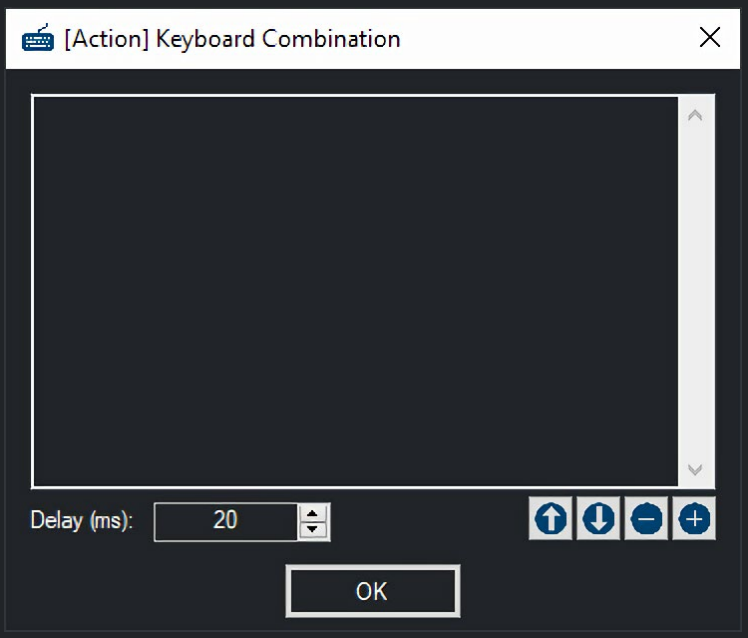
Button – Specify a key by pressing any key on the keyboard

Click – Click the specified key

Down – Hold the specified key down

Up – Release the specified key

Keyboard Combination



Button – Add a key by pressing any key on the keyboard

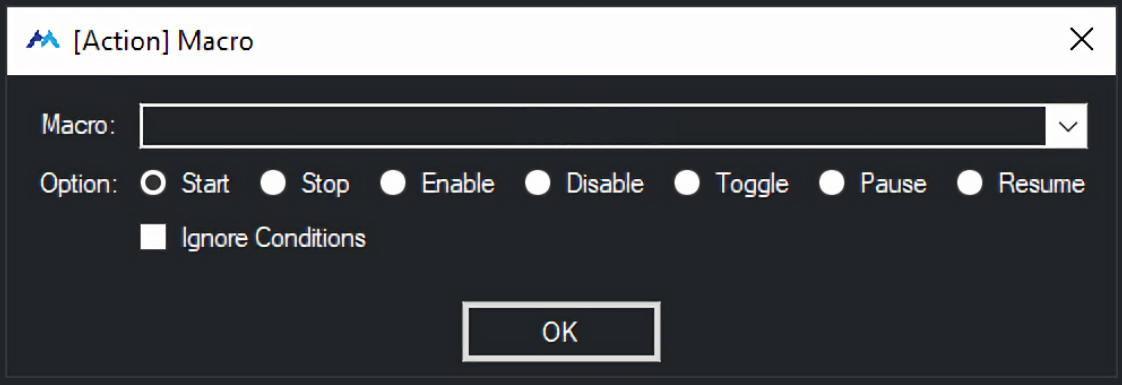
Button – Remove the selected key

Button – Move the selected key down

Button – Move the selected key up

Delay – Delay between key presses in milliseconds

Macro



Macro – Name of the macro

Start – Start the specified macro

Stop – Stop the specified macro

Enable – Enable the specified macro

Disable – Disable the specified macro

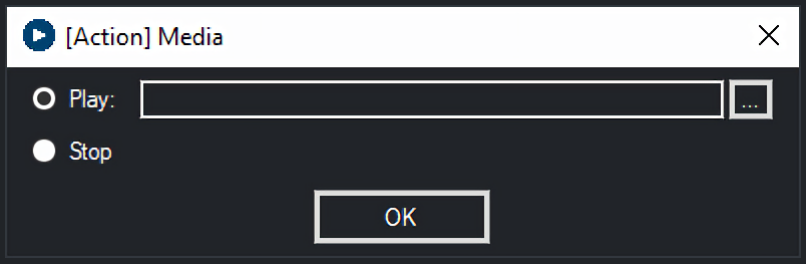
Toggle – Toggle the enabled state of the specified macro

Pause – Pause the specified macro for a specific amount of time

Resume – Resume the specified macro

Ignore Conditions – Ignore conditions when starting the specified macro

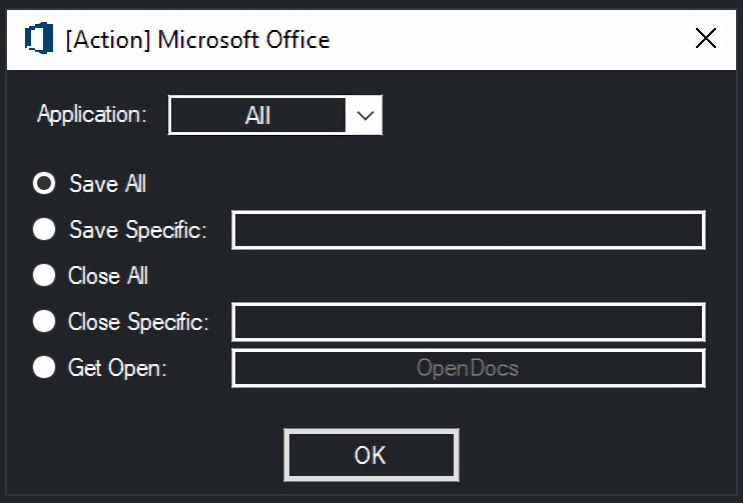
Media



Play – Play the specified audio file

Stop – Stop all playback (from MacroWin)

Microsoft Office



Application – Office application to affect

Save All – Save all documents of the relevant application type

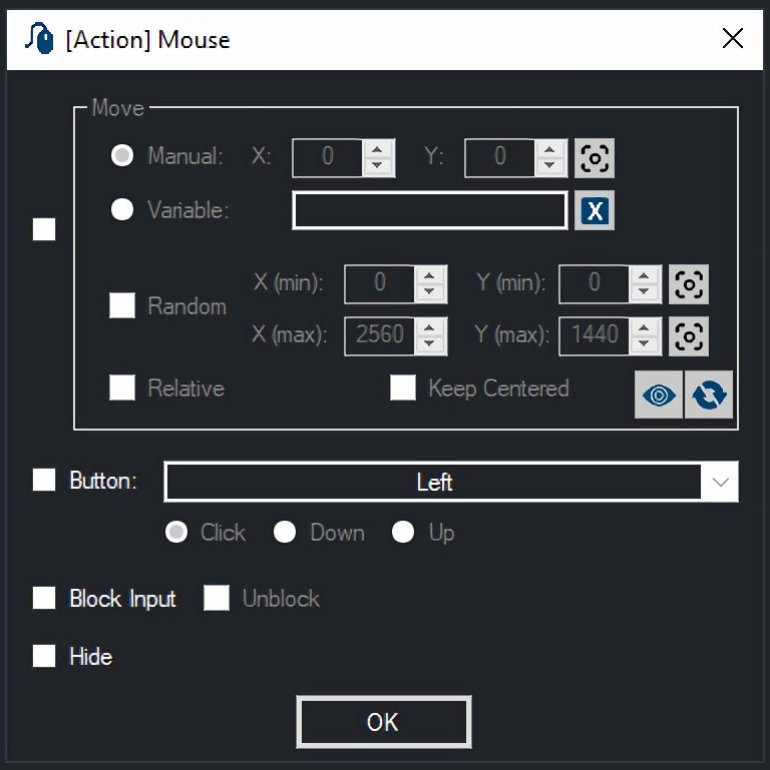
Save Specific – Save the specific document (of the relevant application type) by specifying its name

Close All – Close all documents of the relevant application type

Close Specific – Close the specific document (of the relevant application type) by specifying its name

Get Open – Save all the open documents' file paths to a global variable

Mouse



Move:

- X – X coordinate on screen
- Y – Y coordinate on screen
- Variable – Use the X and Y coordinates from a variable (e.g. '100,200')
- Random – Random location on screen:
    - X (min) – Minimum X coordinate on screen
    - X (max) – Maximum X coordinate on screen
    - Y (min) – Minimum Y coordinate on screen
    - Y (max) – Maximum Y coordinate on screen
    - Keep Centered – Keeps the cursor in the center of the screen
- Relative – Move the cursor [X] pixels up/down/right/left

Button:

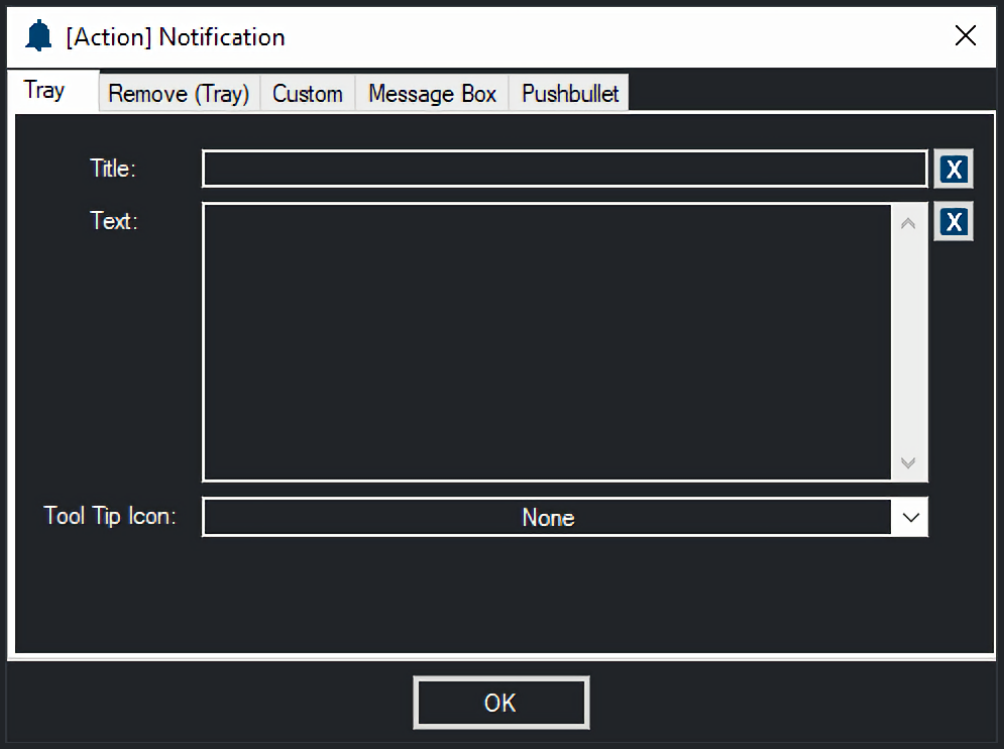
- Click – Click the specified button
- Down – Hold the specified button down
- Up – Release the specified button

Block Input – Block input from the mouse (can be forcibly unblocked with Control + Alt + Delete)

Unblock – Unblock input from the mouse

Hide – Hide the cursor on the screen

Notification



(Windows 10 [v6.2.9200.0] or above required for 'Remove (Tray)' only)

Title – Title of the notification

Text – Text of the notification

Icon – Icon of the notification

Removal – Choose between remove all/specific notification(s)

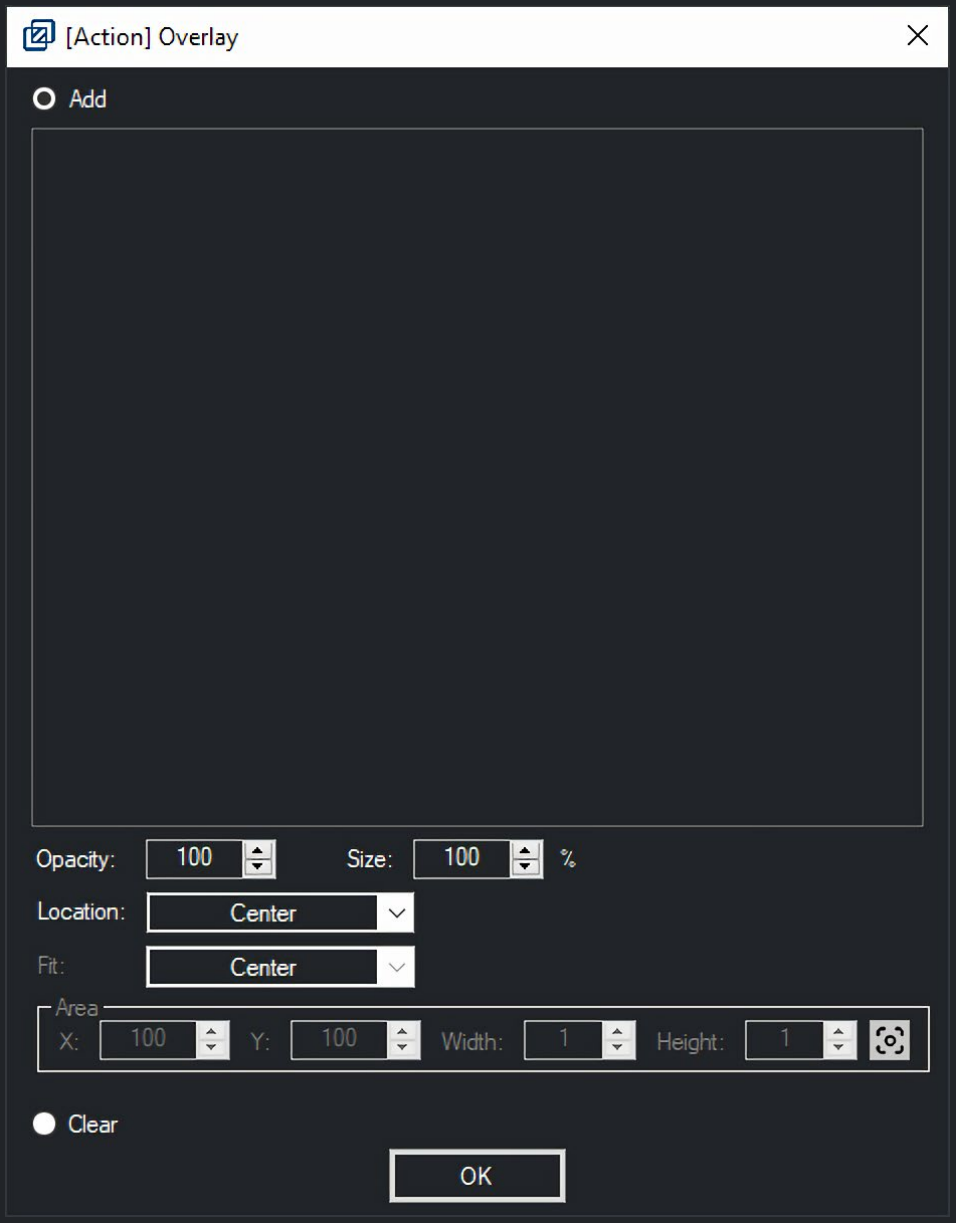
Message Type – Type of custom message to show

Timeout – Time until notification disappears

No Sound – Don't play a sound when showing the message box

Token – Pushbullet Token

Overlay



Add – Add a new overlay

Opacity – Opacity of the overlay

Size – Size (in percentage) of the overlay

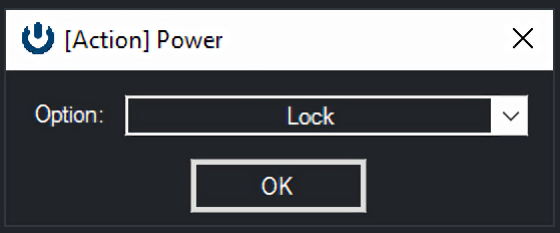
Location – Location of the overlay

Fit – Overlay fit type inside the area

Area – Area of the overlay

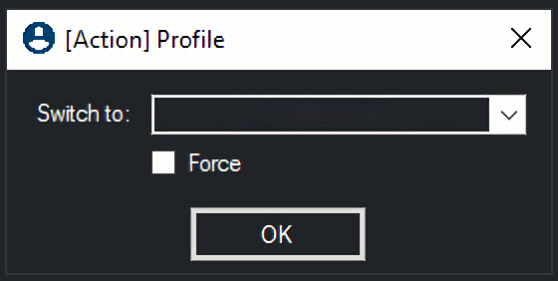
Clear – Clear all active overlays

Power



Option – Choose a power option

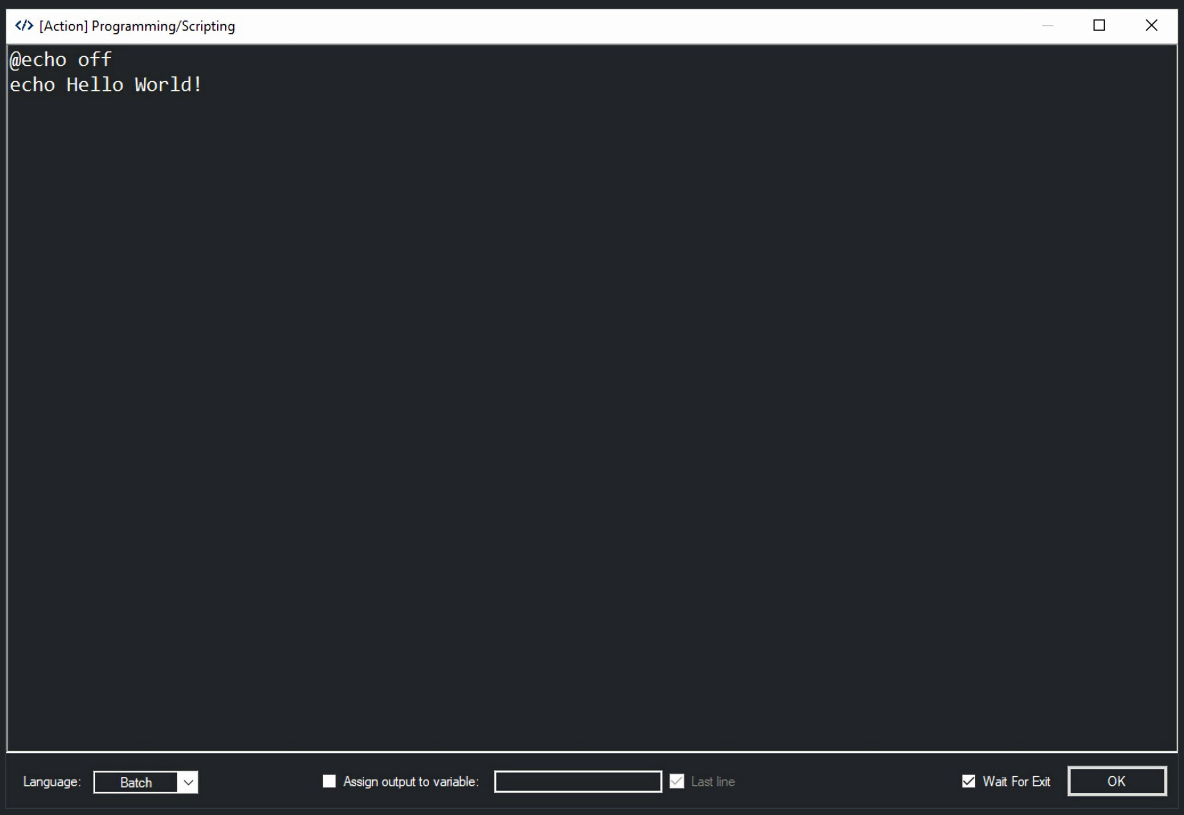
Profile



Change to – Change the current active profile

Force – Override the locked state of the active profile

Programming/Scripting



Text Field – Code to execute

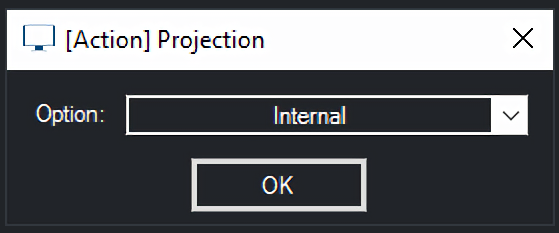
Language – Choose between AutoHotkey, Batch, PowerShell, C, C++, C#, JavaScript, Python and VBS

Assign output to variable – Assign the console window output to the specified global variable

Last line – Assign only the last line from the console window output to the specified global variable

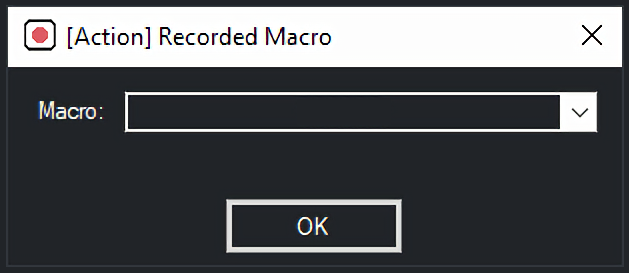
Wait For Exit – Wait until code execution has completed before executing the next action

Projection



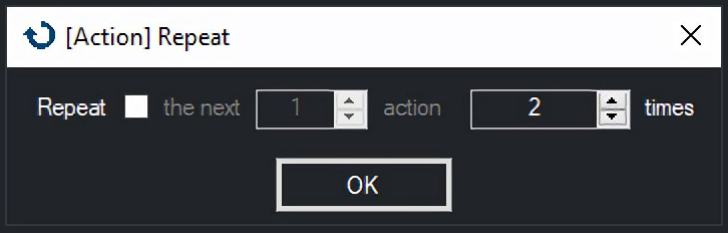
Option – Choose a projection type

Recorded Macro



Macro – Recorded macro to play

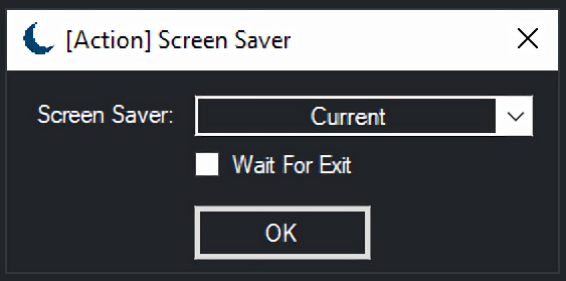
Repeat



The next – Specify the number of actions that should be repeated

Times – The number of times the actions should be repeated. 0 = Infinite

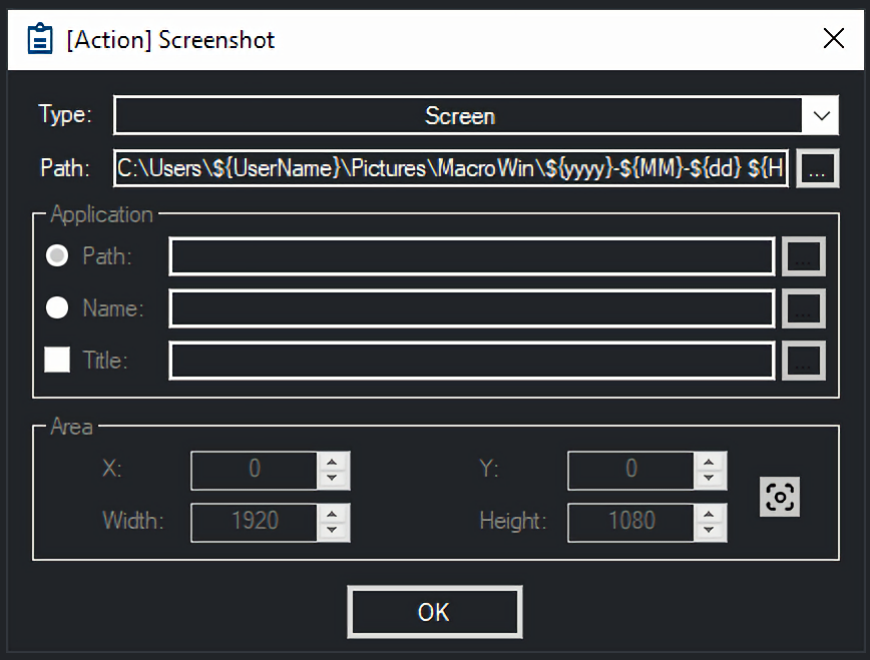
Screen Saver



Screen Saver – Which screen saver should be played

Wait For Exit – Wait until the screen saver stops before executing the next action

Screenshot



Type – Type of screenshot to take

Path – Location for saving the screenshot

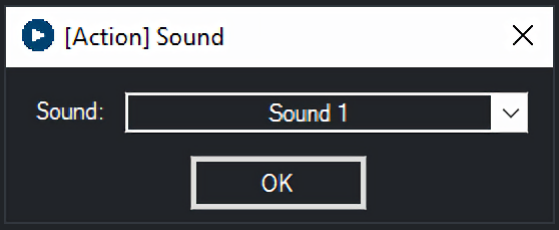
Application:

- Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.
- Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.
- Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

Area:

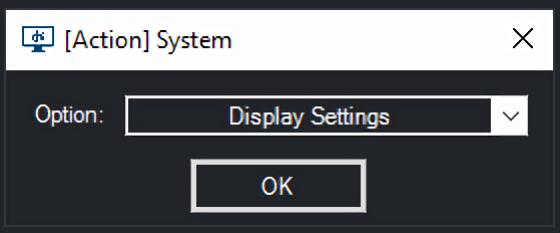
- X – X Coordinate (Horizontal starting point of the screenshot)
- Y – Y Coordinate (Vertical starting point of the screenshot)
- Width – Width of the screenshot
- Height – Height of the screenshot

Sound



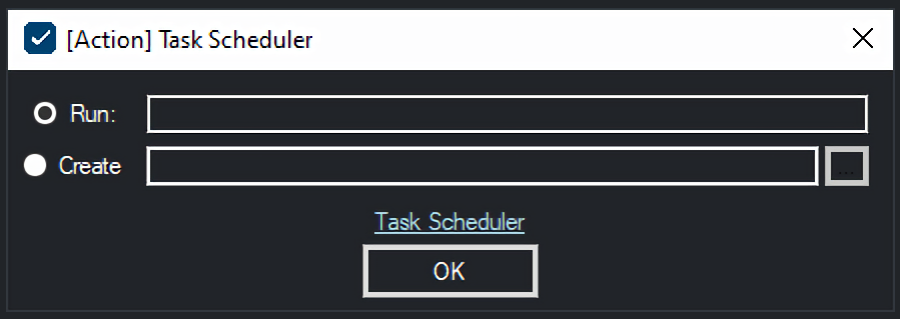
Sound – Choose sound to play

System



Option – Choose a system option

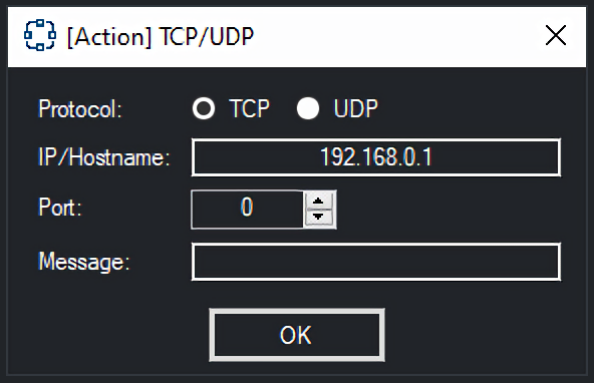
Task Scheduler



Run – Run the specified task

Create – Create a task from an XML file

TCP/UDP



TCP – Transmission Control Protocol

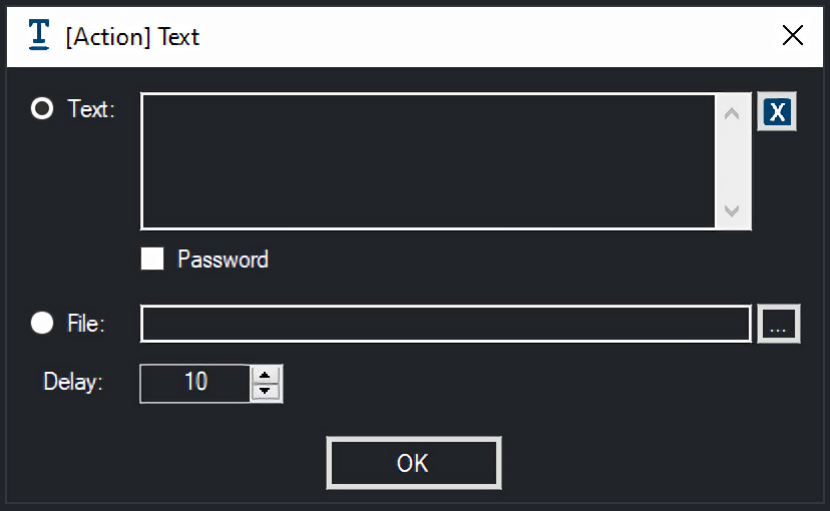
UDP – User Datagram Protocol

IP/Hostname – The target IP address/hostname

Port – The port of the target

Message – Message to send to the target

Text



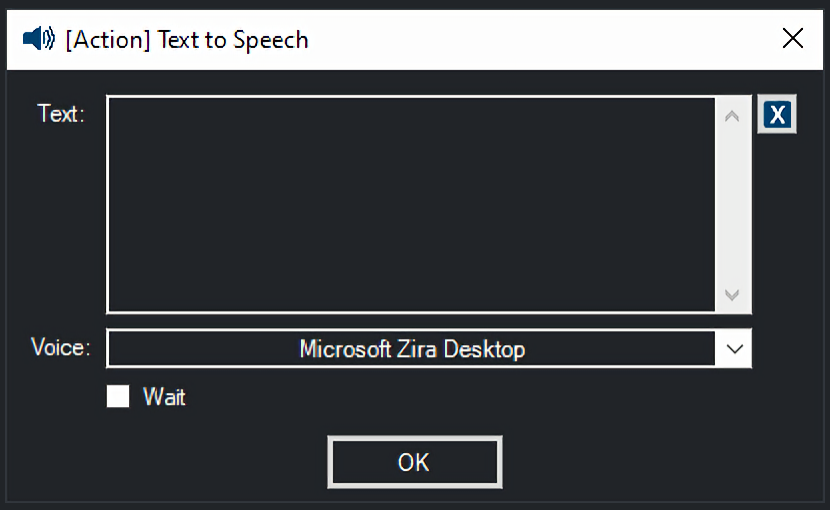
Text – Writes the text from the textbox

Password – Prevents any user from reading the text field

File – Writes the text from the contents of the specified text file

Delay – Time between each keystroke

Text to Speech

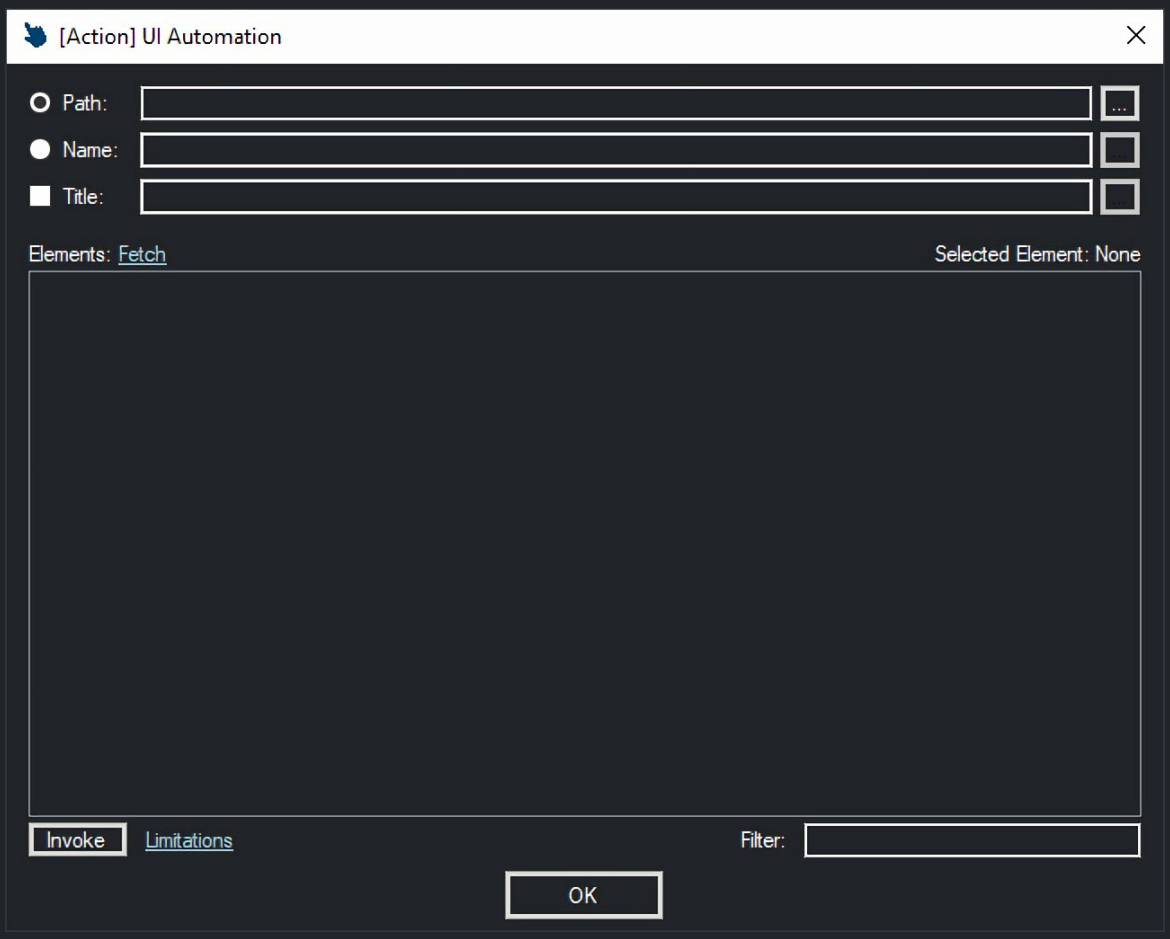


Text – Text to speak aloud

Voice – Voice of the speaker

Wait – Wait until Text to Speech is done before executing the next action

UI Automation



Path – Location of the executable. Perform a left click on the button to browse for the executable. Perform a right click to show the current running processes and select a process from the list.

Name – Name of the executable (e.g. notepad). Perform a left click to show the current running processes and select a process from the list.

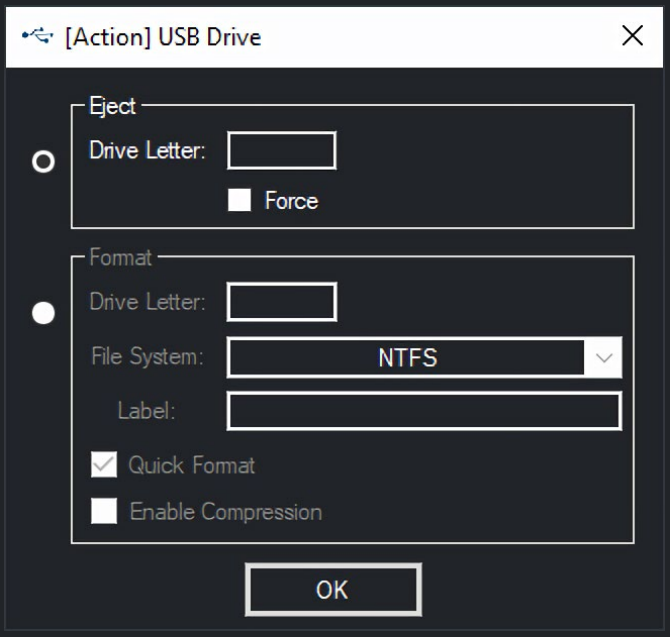
Title – Title of the executable's main Window (e.g. Untitled - Notepad). Perform a left click to show the current running processes and select a process from the list. Path/Name field not required when specifying the title of the application.

Fetch – Fetch the elements of the specified application and display them in a tree view

Invoke – Invoke the selected item

Filter – Filter the elements of the specified application

USB Drive



Drive Letter – Drive to eject/format

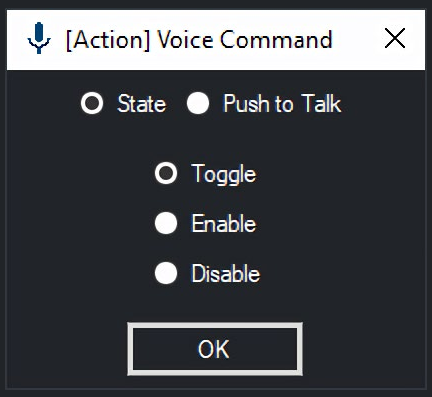
File System – New file system for the specified drive

Label – New label for the specified drive

Quick Format – Perform a quick format

Enable Compression – Allow compression on the specified drive

Voice Command



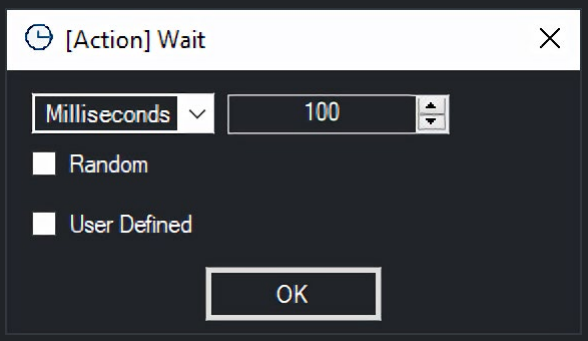
Choose between toggling the enabled state or push to talk state of voice commands

Toggle – Toggle voice commands/push to talk

Enable – Enable voice commands/push to talk

Disable – Disable voice commands/push to talk

Wait

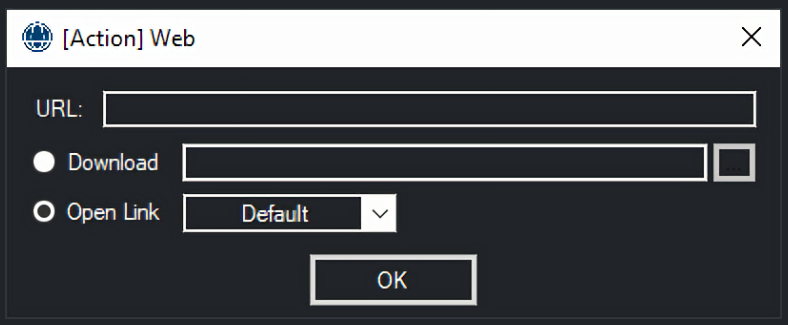


Select a time unit (milliseconds, seconds, or minutes) and a time to wait

Random – Enables a second numeric field for a randomized wait time

User Defined – Allow the user to choose a time to wait before executing the next action

Web

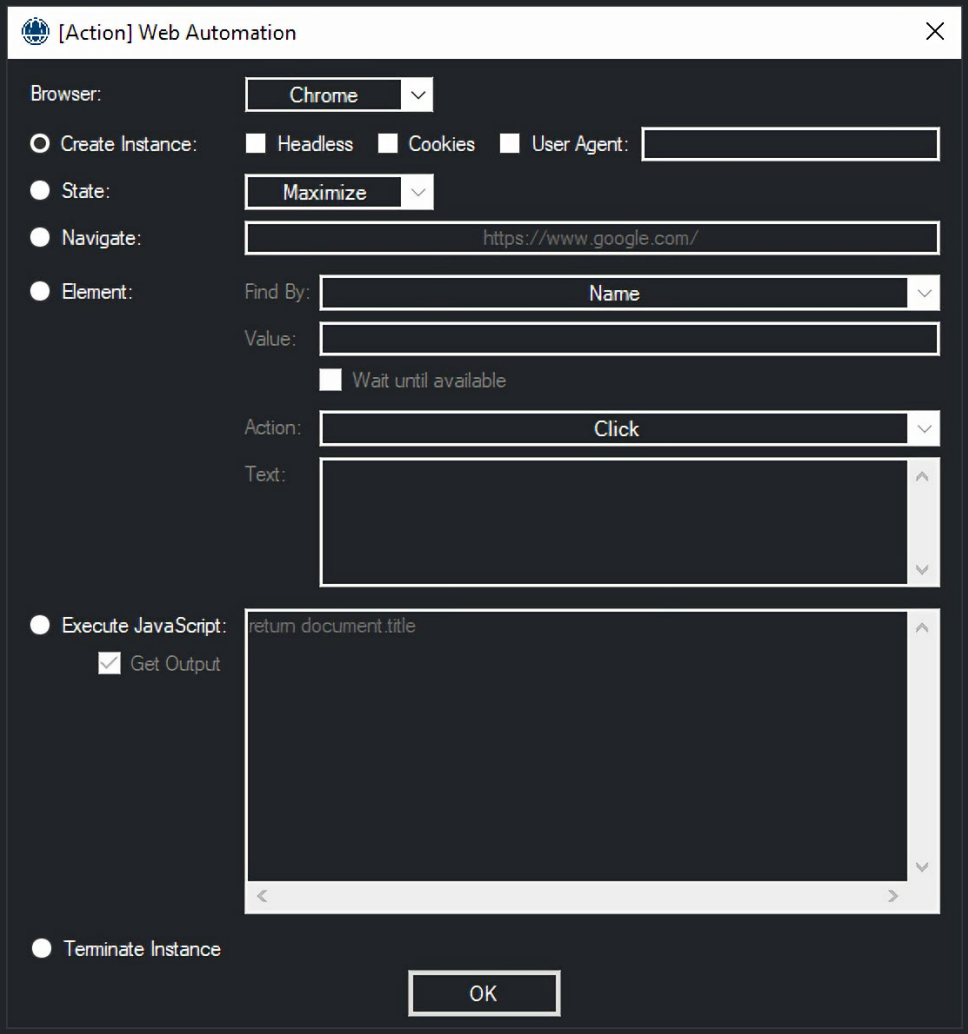


URL – Address of the target destination

Download – Download the file from the URL to the specified location (e.g. picture/video)

Open Link – Open the web address in the user's default/specified browser

Web Automation



Browser – Browser to use for automation [Chrome/Edge/Firefox]

- Headless – Hide the browser window
- Cookies – Save/Load session cookies by enabling the use of a profile
- User Agent – Specify a custom user agent to be used by the browser

State – Change the window state of the browser

Navigate – Navigate to the specified URL

Element – Search and perform an action on an element

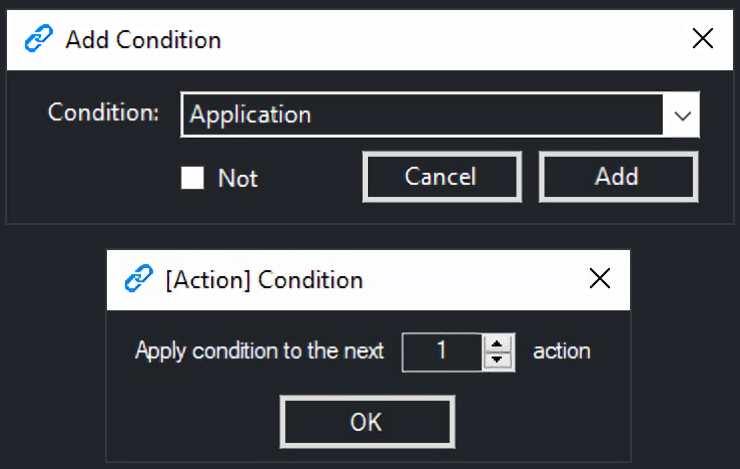
- Find By – Element property to search
- Value – Element property value
  - Wait until available – Wait until the element is available
- Action – Action to perform with the element
- Text – Text to send to the element

Execute JavaScript – Execute JavaScript code in the browser instance

- Get Output – Store JavaScript output in the global variable 'WebJSOutput'

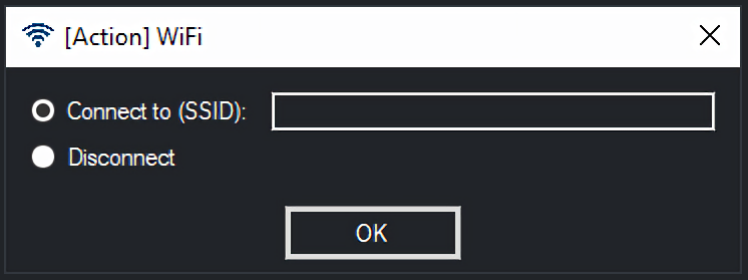
Terminate Instance – Terminate the browser instance

While



Select a condition and specify the number of actions it should apply to (if true).

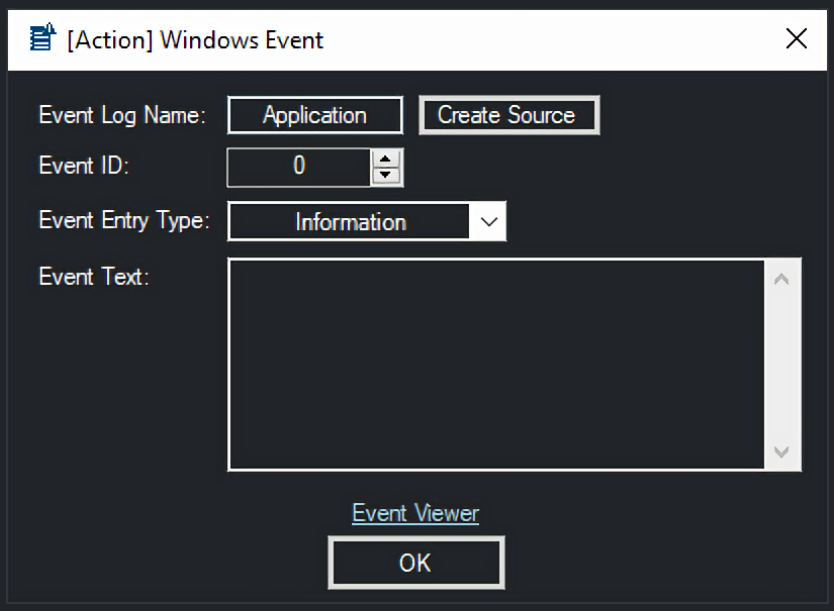
WiFi



Connect to (SSID): Connect to the specified WiFi network

Disconnect – Disconnect from any connected WiFi network

Windows Event



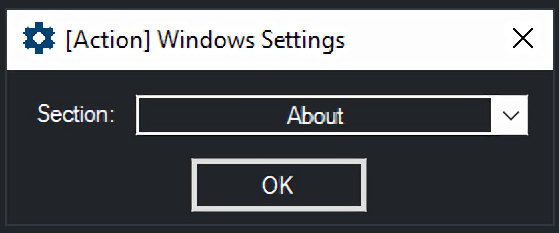
Event Log Name – Choose between Application/Security (requires admin)/Setup/System

Event ID – ID of the event

Event Entry Type – Entry type of the event to add

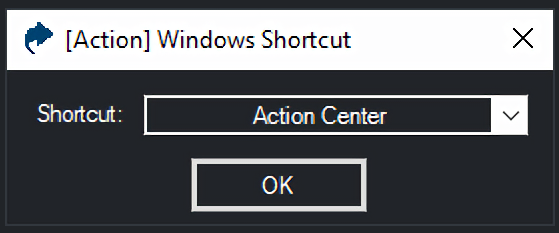
Event Text – Text of the event

Windows Settings



Section – Choose a Windows Settings section

Windows Shortcut



Shortcut – Choose a Windows Shortcut

Additional Features

Community Center

A place for users to share macros with others. IMPORTANT: All macros in the community center were created by other individuals. Please examine a macro carefully before adding it to your library. If you are unsure whether a macro is safe or not, DO NOT download it! Users with malicious intent may upload malicious macros (please report such macros) to cause permanent damage to your system/important files. These users will be dealt with accordingly.

Templates

Saveable template macros can be opened, edited, and saved. Template macros are designed to

1. Give the user quick access to macros that could be used more than once
2. Help the user obtain a better understanding of how macros work

Start with Windows

MacroWin can be started with Windows, with or without administrator privileges.

App Lock

MacroWin/Sensitive macros can be secured with a password to prevent unauthorized access.

Log

The log contains useful information about macro execution. This is especially helpful with macro debugging.

Profiles

Profiles can be created and associated with certain applications to keep macros organized and resource effective. A profile can be locked by middle/left clicking the 'Profile:' label on the main form. This will keep MacroWin from changing the profile until the profile was unlocked.

Profile Inheritance

A profile can inherit macros from another profile when specified. When creating a macro with the same name as a macro from the inherited profile, the new macro will override the macro from the inherited profile. A profile can also recursively inherit the inherited profiles from another profile.

Export Profile

Profiles can be exported locally and shared with a friend.

Import Profile

Profiles can be imported from a local (.mwprofile) file. All macros on an imported profile will be disabled by default (for security reasons).

Global Variables

Global variables are immensely powerful and is an important part of MacroWin. With global variables, you can create advanced and powerful macros. Temporary variables can also be used which will only exist for the duration of the executing macro. These variables are only accessible to the macros that created them.

Auto Variables

Auto variables assign specific events to the relevant global variables (e.g. Every time a trigger gets fired, the global variable 'Trigger' will contain details about the trigger)

Pause Macro

A macro can be paused for a set amount of time. During this period, its triggers will not fire.

Toggle Macro

A macro can be toggled on or off. When a macro is toggled off, its triggers will not fire.

Upload Macro

When uploading a macro to the community center, other users can download, upvote or report that macro.

Export Macro

Macros can be exported locally and shared with a friend.

Import Macro

Macros can be imported from a local (.mwmacro) file.

Test Conditions

Conditions can be tested in the 'Add Macro' form by pressing the icon or by using the context menu.

Test Actions

Actions can be tested in the 'Add Macro' form by pressing the icon or by using the context menu.

Create Desktop Shortcut

Macros can be executed from a desktop shortcut. The user can also specify to ignore the conditions of the macro (if it contains any). Whether the macro is paused or disabled, it will still be executed when launched from the desktop shortcut.

Update Rate

The update rate specifies how often MacroWin should query performance/wmi data.

Voice Commands

Select a language and a sound effect for voice commands. Voice commands can be set to use continuous voice activation or push to talk.

Theme

The user can choose between a light or dark theme, based on personal preference.

Profile Hotkeys

View all the hotkeys set up for the selected profile (and the profiles it inherits from)

Macro Recorder

Macro Recorder is a tool of MacroWin. It allows you to record a sequence of mouse and keyboard actions and then play them back. This can be used to automate repetitive tasks, such as opening and closing programs, copying, and pasting text, or navigating websites.

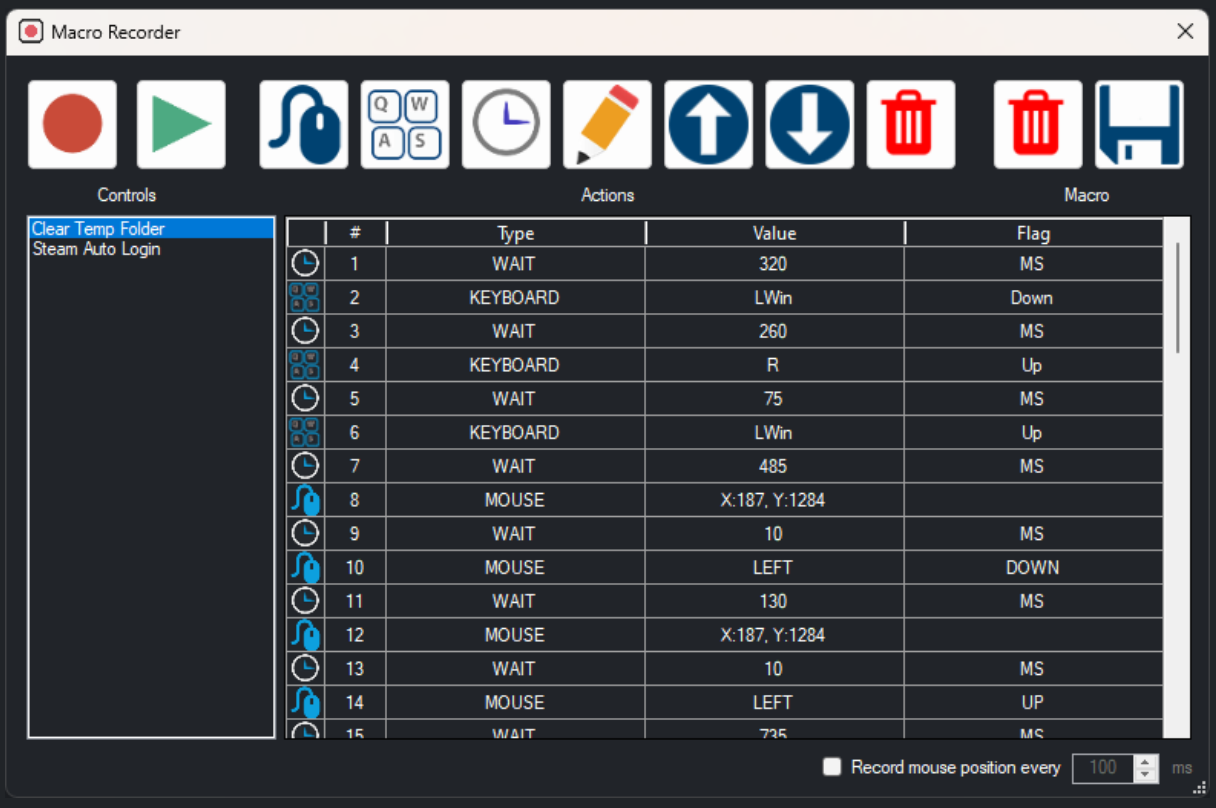
To use macro recorder, you first need to record the sequence of actions you want to automate. This is done by clicking on the "Record" button in macro recorder's toolbar. Once you have finished recording, press F8 and save the sequence of actions as a macro.

To play back a macro, you simply need to select a macro and click on the "Play" button in macro recorder's toolbar. Macro recorder will then execute the sequence of actions that was recorded.

To edit the actions of a recorded macro, simply double click the row you would like to edit and modify the values. Actions can also be added by clicking the mouse, keyboard, or time buttons in macro recorder's toolbar.

To remove an action from a macro, simply press delete when the action is highlighted, or press the remove button in macro recorder’s toolbar.

Macro recorder can be a very useful tool for automating repetitive tasks. It can save you time and effort, and it can help you to be more productive.



Keyboard Shortcuts

The following keyboard shortcuts makes it easier to operate MacroWin:

Shortcut	Action
Control + A	Select All Macros/Triggers/Conditions/Actions
Control + C	Copy Macro/Trigger/Condition/Action
Control + D	Duplicate Macro/Trigger/Condition/Action
Control + (Shift +) E	Execute Macro(s)
Control + F	Find Macro(s)
Control + G	Show Global Variables
Control + K	Show Keyboard Shortcuts
Control + L	Show Log
Control + M	Move Macro
Control + N	New Macro
Control + P	Pause Macro(s)
Control + T	Toggle Macro(s)
Control + U	Upload Macro
Control + V	Paste Trigger/Condition/Action
Control + X	Cut Trigger/Condition/Action or View Activity
Control + Y	Redo Change for Trigger/Condition/Action
Control + Z	Undo Change for Trigger/Condition/Action
F1	Display Information for Trigger/Condition/Action
(Shift +) F5	Execute Macro(s) or Test Macro's Selected Conditions/Actions
Delete	Delete Macro/Trigger/Condition/Action
Escape	Deselect Item
(Numpad) Plus	Increment Action Property
(Numpad) Minus	Decrement Action Property
(Numpad) Multiply	Toggle Condition
Numpad 4	Toggle Action Condition Type (If/While)
Numpad 6	Toggle Action Condition Type (If/While)
(Control +) Numpad 8	Move Trigger/Condition/Action Up
(Control +) Numpad 2	Move Trigger/Condition/Action Down

Command Line Arguments

MacroWin can be launched with any of these parameters:

Argument	Description
-disable	Start MacroWin will all macros disabled
-h	Start MacroWin minimized to tray
-logon	Used to indicate that the user logged in (should only be used in Task Scheduler)
-suspend	Start MacroWin with all macros suspended

FAQ

Q: What are the system requirements for MacroWin?

A:

Type	Minimum	Recommended
OS	Windows 7 (x64)	Windows 10 (x64)
CPU	Intel Core 2 Duo / AMD Athlon X2	Intel i5 2400 / AMD Ryzen 5 3600
Memory	1GB	4GB
Storage	100MB	>100MB
Resolution	1280x720	1920x1080
Internet	1Mbps	10Mbps

Q: Where can I learn more about MacroWin?

A: You can visit MacroWin's YouTube channel for tutorials on how to use MacroWin.

Q: Which features are only available for Windows 10 and above?

A: Notification (Trigger/Condition/*Action) and OCR (Condition) are only available on Windows 10 v6.2.9200.0 and higher.

Q: Can I try MacroWin before I buy it?

A: Yes, navigate to this page. Install MacroWin and create a free trial account within the software.

Q: Can I use MacroWin without an internet connection?

A: Yes, however, MacroWin will need to communicate with the server at least once every 14 days.

Q: My voice commands are not working properly. What can I do?

A: Set up your computer with Microsoft's speech recognition and train the model.

Q: Does MacroWin inject anything into any of my games/applications?

A: No, everything MacroWin does is externally. That includes mouse clicks and keyboard presses.

Q: Should I run MacroWin with administrative privileges?

A: It is recommended to run MacroWin without administrative privileges, however, if you are an experienced user, it might be beneficial for you to run MacroWin with administrative privileges. MacroWin could require administrative privileges to read keystrokes from an application that is running with administrative rights.