

ARGOS RPA Release Notes

Release notes for the official ARGOS LABS releases. Each release note will tell you what's new in each version, and will also describe any backwards-incompatible changes made in that version. These release notes summarize the new features, resolved and known issues, and compatibility. Need help? Contact to tech@argos-labs.com

- 'Scenario Studio'(a.k.a 'STU') is a build tool for a RPA bot.
- 'Process Automation Module(a.k.a 'PAM') is a software agent to run a bot.

Latest Version

- **Download STU**



- **Download PAM**



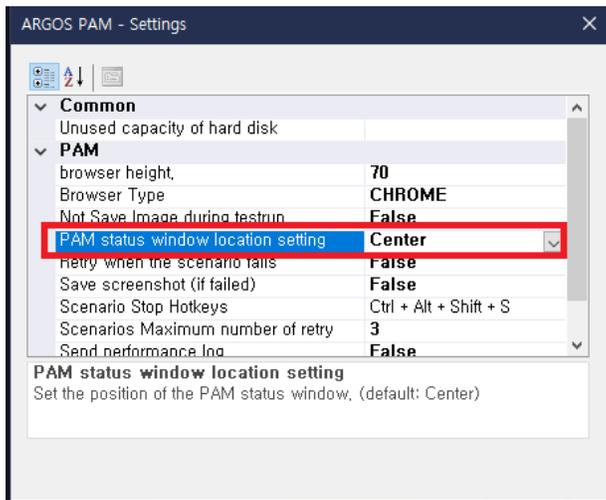
Release Notes

New Features

- **NEW** "View Variables" for inspection of the operation values
- **NEW** "Indentation" of Properties
- **NEW** Added "Memo" tab to keep track of information that makes the bot easier to understand.

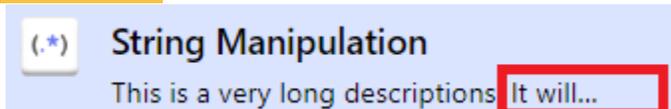


- **NEW** Added `getText`, `getAttributeValue` to JS event of **HTMLAction**
- **NEW** PAM shows the progress icon when a bot is running. The location of the progress windows at PAM Tray settings.



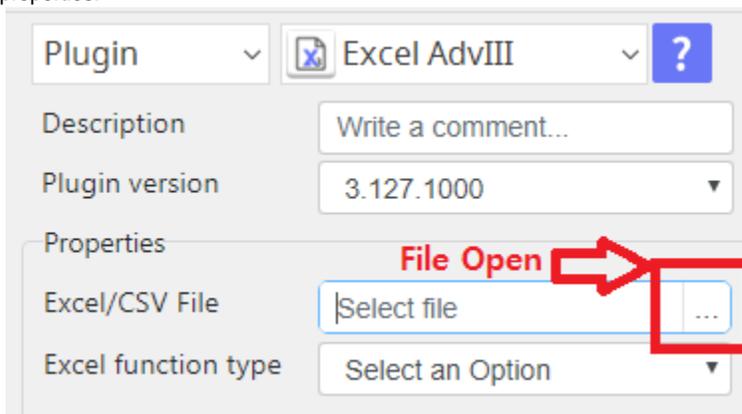
Changes

- CHANGED If the operation "Description" in the **Timeline** is too long, it will be displayed as "...."

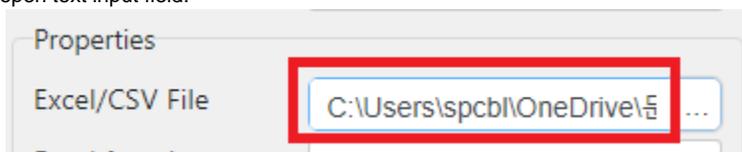


Fixed

- FIXED Fixed the problem that My Documents path was selected every time when opening a file of plugin properties.



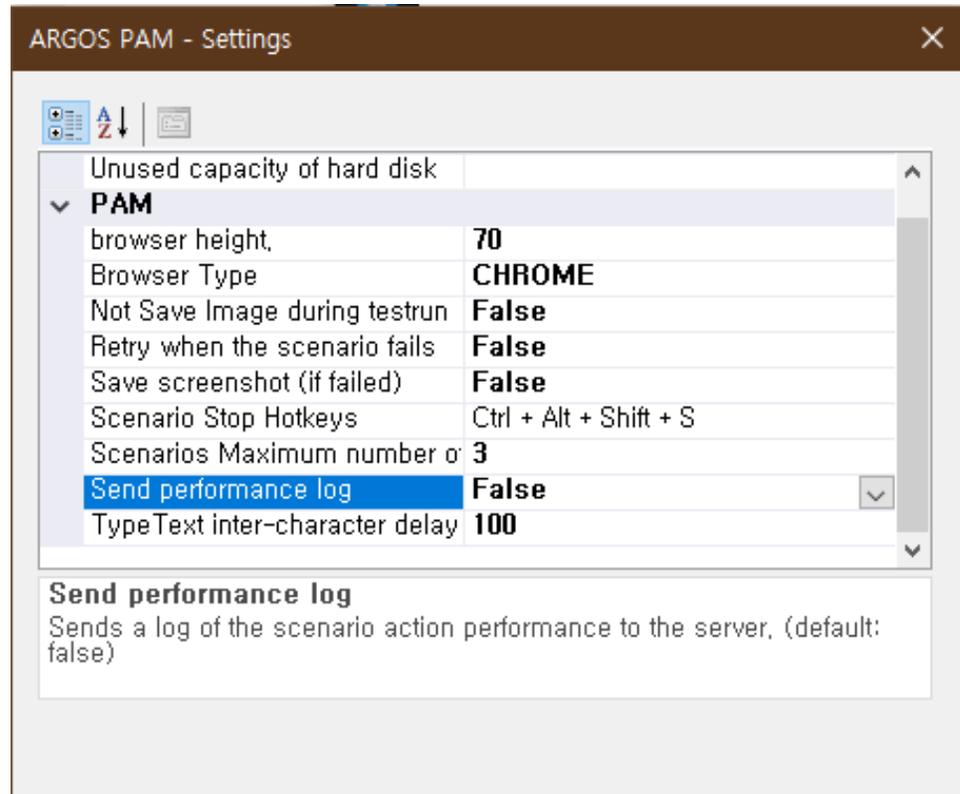
- FIXED Fixed a problem where the cursor moved to the end when the mouse was clicked to edit text in the file open text input field.



Release Notes (Previous Versions)

New Features

- **NEW** "Send performance log" of STU/PAM to analyze the starting speed. You can turn on/off at *ARGOS RPA Service Tray > Settings > Send performance log..*



New Features

- **NEW** Auto fill of the 'Operation name'
- **NEW** Added vertical scrollbar to multiline textbox and allow 'Enter' key
 - 'Test Run' UI improvements
 - **Orange** (Failure) – Bot failure for any reason except verification.
 - **Red** (Error) –the result of any Verification Operation is "Abort As Error".
 - **Blue** (Success) – No error
 - Operation selection speed improvements in STU

Changes

- **CHANGED** Display 'Failure' and 'Error' differently in 'Test Run' UI
 - **Orange** (Failure) – Bot failure for any reason except verification.
 - **Red** (Error) –the result of any Verification Operation is “Abort As Error”.
 - **Blue** (Success) – No error
- **CHANGED** Operation selection speed improvements in STU
- **CHANGED** The account used for PAM registration is not case sensitive.
- **CHANGED** Changed to display the current PAM version in the log regardless of whether the **PAM Service Tray** is running.
- **CHANGED** Changes to the latest Web driver for Chrome & Edge (*included in the 2nd patch on Dec 22*)

3rd patch on Jan 7, 2021 (PAM R20.1126.60)

- **CHANGED** Bot start time improvements. Unless the bot is changed, in the case of a bot that has already been executed, the bot can be saved in the local PC and executed without downloading from the server.
- **CHANGED** Bot start time improvements. Reuse the last vENV path for each bot.
- **CHANGED** When selecting a file as a plugin result handler, the file is saved without a variable setting.

4th patch on Jan 14, 2021 (STU R20.1126.80)

- **CHANGED** Term : **New (Manual Recording)** **New (Manual Development)** in STU
- **CHANGED** Changed so that images are not copied while making a operation history
- **CHANGED** Added a time data, and changes the sort to time descending order in **History**
- **CHANGED** Added timestamp acquisition function to analyze STU start time.(optional)

5th patch on Jan 20, 2021 (PAM R20.1126.80)

- **CHANGED** Unstoppable PAM
 - Even if PAM is not connected to the SV, PAM can run your bot using a locally stored bot on your usual schedule.. (Max 7 days).

Fixed

- **FIXED** Fixed a problem that the Help icon is not displayed when the plugin version is changed
- **FIXED** Fixed an issue that occurred when 'var' was included in the **JavaScript** input.
- **FIXED** Fixed an issue where '&' is not displayed in **Dialog**
- **FIXED** Waiting for PAM to stop pop up never goes away (*included in the 1st patch on Dec 10*)

- **FIXED** When duplicate the "Text Match" and change it to "Locate Image", the click point does not appear. (included in the 1st patch on Dec 10)
- **FIXED** Fixed an issue where the PAM Manager terminated the RPA Bot process if the time changes while the scenario is running.(included in the 2nd patch on Dec 22)
- **FIXED** Fixed a problem in which the scheduled bot that queued in Task Queue late works first. (included in the 2nd patch on Dec 22)

4th patch on Jan 14, 2021 (STU R20.1126.80)

- **FIXED** Fixed a problem that slows down after repeated 'Minimize Restore Minimize (repeat)' of STU window.
- **FIXED** Fixed an issue where the plugin was displayed as the latest version when opening a bot containing a lower version of the plugin

New Features

- **NEW** Added a version selection into Private Plugin
- **NEW** Added a result code handler into 'Properties' of plugin.
Now you can do conditional jumps based on the result of the plugin.

From PAM R20.1105.30

- **NEW** Added new Logs
 - Actual rp.index value
 - Adds information about which Windows object maintains focus when the Operation is executed.
 - Target Op: **TextInput, SelectWindow, LocateImage, MouseClick**, (it will be added '**Shortcut Keys**', too)
 - Output information: title, class name, process name

Changed

- **CHANGED** Changed the color of progress bar on the right side of the status bar in STU
- **CHANGED** Changed the name of the save menu in STU's File

Before	After
save as	save to file
save to Server	save to Supervisor
save as... to Server	save to Supervisor as New bot

- **CHANGED** Changed the default delay of holding the key due to a problem that sometimes does not work when using the paste option in Textinput
- **CHANGED** Changed to run 'Test Run' even when PAM Manager service status is 'Suspend'

From PAM R20.1105.30

- **CHANGED** Change the log output format in password format to "*****"
 - Plugin input box: When selecting the password input format or using a variable
 - When using a variable in the password field of **sendEmail**

Fixed

- **FIXED** Fixed an issue where the bottom of some characters is cut off in Japanese / English.
- **FIXED** Fixed a problem that the result of 'Function' operation could not be displayed on the 'Test Run' result screen
- **FIXED** Fixed a problem where screenshots could not be uploaded when the bot is ran with Windows Task Scheduler. (Retry when upload fails)

From PAM R20.1105.30

- **FIXED** For Edge Browser. Even if the status of the running browser is in a suspend state before OpenBrowser , a new browser is opened and the bot can be executed.
- **FIXED** Fixed a problem in which the browser used by OpenBrowser was forcibly changed to chrome during the PAM registration process.

New Features

- **NEW** Added "**Function**". You can define a bunch of operations as "**Function**" and you can call by using '**Call Function**' operation. That process jumps to a specific function, and when the function's operation is complete, it returns to the next operation of the 'Call Function'. Also, 'Call Function' could be used as a nested architecture.
- **NEW** Added a new option "**ClearVariables**" to "**Set Variables**".
- **NEW** You can use your **UserVariable** as **Index** value in '**Repeat**'.
- **NEW** Added a new option '**SendKeys**' to **HTMLAction**
- **NEW** Added **Edge** browser to browsers that can be used w/ Open Browser. You can select a browser in **PAM Service Service > Settings. (added PAM R20.1015.10)**

Changed

- **CHANGED** The process by which PAM uploads the resulting image to the server is split into standalone programs. *(added PAM R20.1015.10)*

Fixed

- **FIXED** In Set Variables, when a variable with a different group name and the variable selected in the variable selection window is directly entered, the variable is not set.
- **FIXED** Fixed a problem that Bot operation fails when the first operation of the first step is changed to **Disable** state
- **FIXED** Fixed a problem in which one character was removed at the end when there was no value in the option to remove the text before and after the text as a result of OCR

Changes

- **CHANGED** STU starting performance is improved. Changed to import plugin list after executing STU
- **CHANGED** Select a plugin version (The plugin version previously used to build the bot doesn't change automatically.)
- **CHANGED** Fixed the location of the operation search box.
- **CHANGED** Add 'Language Hint' to "**Google OCR**"
- **CHANGED** Plug-in operation completion notification function (displayed as a tray message when a plug-in operation is done)
- **CHANGED** Added a new Input method option to **ShortcutKeys** (RDPSupport, SendInput)
- **CHANGED** Added an option to save image during '**Test Run**'
- **CHANGED** Changed an icon image size of PAM Tray. (128 x 128 64 x 64)

Fixed

- **FIXED** Fixed the problem of sorting icons alphabetically
- **FIXED** Fixed the problem that the initial value of dialog properties was incorrectly entered
- **FIXED** Fixed an issue of not getting a focus when using **Open Browser**

Changed

- **CHANGED** Added "**Close browser automatically**" option to Open Browser.
After the Open Browser operation ends, it is possible for the Browser to remain open.

URL

Change browser size : x

Remove automation message

Close browser automatically

 For stable operation, close other browsers that are already running.

- **CHANGED** Result Handler name changes

Before	After
MoveOn	Proceed
TreatAsError	AbortAsError
AbortScenarioButNoError	AbortButNoError
JumpToOperation	JumpToOperation
JumpToStep	JumpToStep

- **CHANGED** Added link to "[Create Support Request](mailto:plugin@argos-labs.com)" & "[Learn about Return value](#)" to Official Plugin

Plugin ?

Operation name

Plugin version 2.316.1013

Properties

Region

Date

Date Op

Days for Add/Sub

▶ Advanced

[Learn about Return value](#)

Return value

Result type

[Contact author of this plugin](#)

- **CHANGED** When selecting or moving an operation in the **Timeline** (Operation List), to prevent it from going into an infinite waiting state, the list is not clicked until an STU response is received.
- **CHANGED** Delete temporary picture files 2 days after the end of STU
- **CHANGED** Improvement of XPath search function of Windows Object

Fixed

- **FIXED** When saving a bot, a notification message is displayed if there is nothing to save.

New Features

- **ADDED** Added an On/Off option that "*Chrome is being controlled by automatic test software*" message that appears or not when "**OpenBrowser**" starts

Changed

- **CHANGED** Improved "**Kill Process**" - Getting the process ID automatically by mouse Drag&Drop gesture.
- **CHANGED** The speed when bots are saved is improved.
- **CHANGED** Removed the step asking STU to run at the end of the STU installation process. Eliminates administrative rights issues for STU installer

Fixed

- **FIXED** Fixed the 'Recovery page' pop-up not to be displayed when '**OpenBrowser**' starts
- **FIXED** Fixed an issue where '**Repeat**' operation were duplicated in loop if other operations were selected above and below of '**Repeat**' and do '**Duplicate**' in repeat loop.
- **FIXED** Fixed an issue where '*moving to*' or '*copying to*' another step with the auto-selected state after duplicate an operation
- **FIXED** Fixed an issue that popped up when clicking the screenshot area when there was no screenshot
- **FIXED** Fixed an issue requesting PAM registration again when network information changed.
- **FIXED** Fixed to disable developer extension mode pop-up when Chrome is opened with **OpenBrowser**

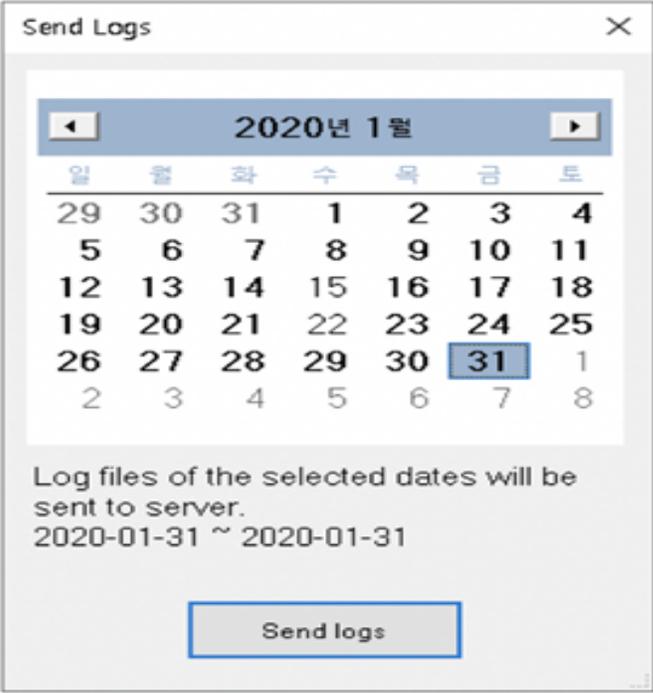
New Features

- **ADDED** 'Click Text' option to 'OCR' Op
A function that recognizes a character in a range specified by OCR and clicks when the corresponding character exists
- **ADDED** an option that save return value of 'JavaScript' Op

Changes

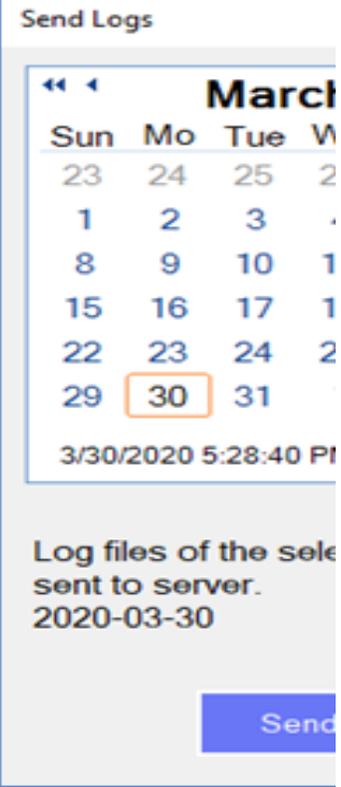
- **CHANGED** 'Send Log' UI (Calendar UI)

Before



Send Logs

After



Notation	
◀ / ▶	1 month
◀◀ / ▶▶	3 months
Clear	Clear calendar
Today	Go to today
Bold style date	Date with bold style Ex) 19

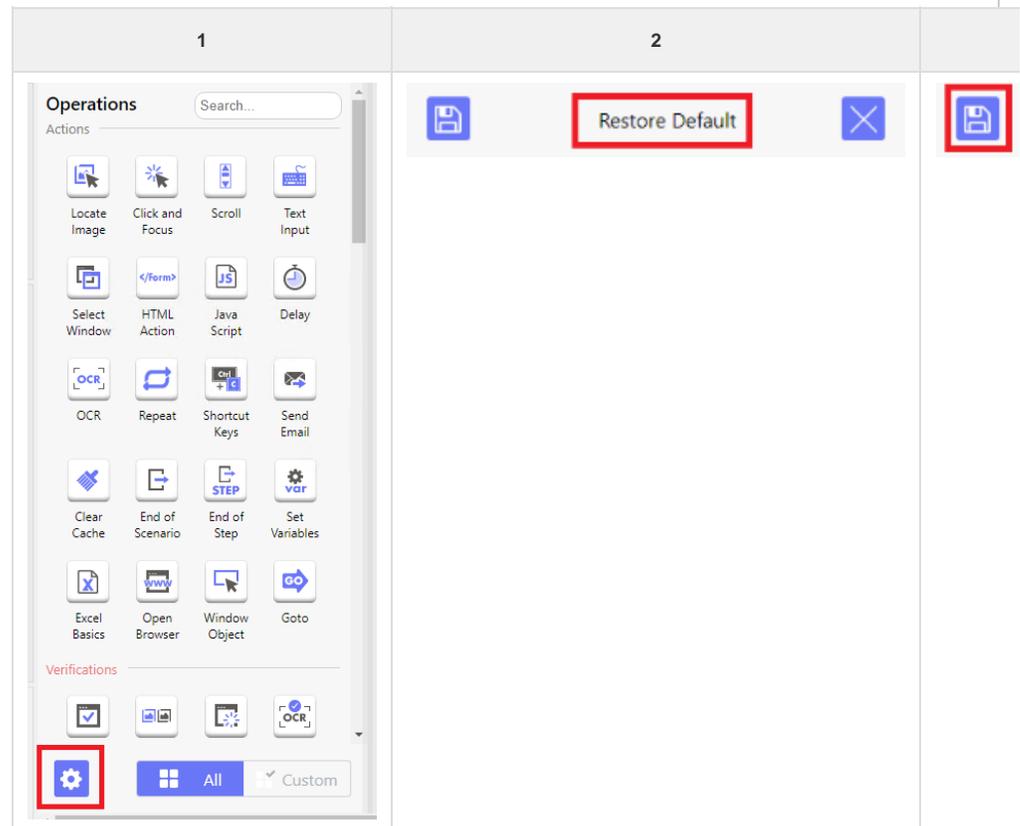
- **CHANGED** plugin name to display only 2 lines (Tooltip support on mouse over)
- **CHANGED** The default plugin display order is **alphabetical order**.

However, the plugin arrangement of the user who was using STU is not changed automatically because

the saved view is already used.

He/She can change it to 'alphabetical order' like this.

1. Click a cog icon at the bottom of the "Operations" panel.
2. Click "Restore Default" to return to alphabetical order
3. Click a disk (=save) icon
4. The icon order has now been changed to alphabetical order.



Fixed

- **FIXED** an issue that caused bots to stop running in 'RunProgram'.
Moved to the next operation whether the results status of 'RunProgram'

New Features

- **ADDED** Added the function to select a specific image using sequential index when there is the same OCR target image

Changes

- **CHANGED** PPM (20200227-1200)
- **CHANGED** STU Launcher
 - Run STU automatically when you log in.
 - Logout automatically when the STU ends.
 - Remove the Mobile/PC button
- **CHANGED** Improved running performance of Plug-in Management Module (PPM)
- **CHANGED** Run STU and PAM without 'Administrative Authority' (no need 'Administrator rights')
- **CHANGED** Improved UI:
 - STU Info
 - '**Group by**' of Operation list
 - Remove 'Mobile/PC' button in STU Launcher
- **CHANGED** Stop the scenario during "Delay" operation

Fixed

- **FIXED** Fixed an issue where PAM was not updated when the PAM tray service was on
- **FIXED** Fixed an issue where plugin is disabled when changing the icon settings (Internal feature)
- **FIXED** Fixed an issue that scenario saving and operation list does not work when '**Beep**' is moved to other step
- **FIXED** Clicking the "**Refresh**" icon in the STU will restart the internal web service (the blank screen issue)

Changes

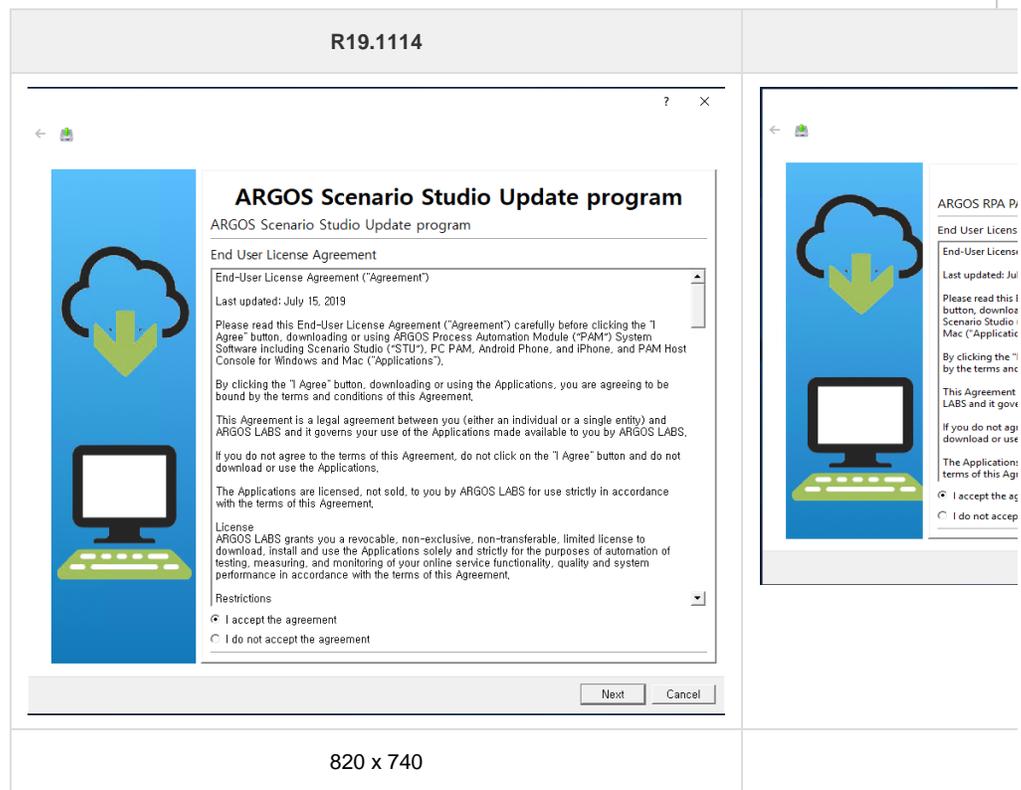
- **CHANGED** '**Drag&Drop**' to '**Context Menu**' when copying / moving operations
When :
 - Copy / move operation to another step
 - Make a duplication(copy) of operation
- **CHANGED** Variable setting UI
- **CHANGED** Results window UI of 'Test run'
- **CHANGED** The arrow for displaying 'Loop' is displayed only when the relevant operation is selected.
- **CHANGED** If a plug-in execution result fails, the plug-in error message is displayed on the result screen of 'Test Run'.

Fixes

- **FIXED** Fixes a problem where an error occurs when importing a step with no step selected
- **FIXED** Fixes an issue with the 'PAM Manager' where the PAM process terminates unexpectedly or the next bot is not running.
- **FIXED** Fixes a problem where a bot created on a screen whose 'Scale' is not 100% does not work properly
- **FIXED** Fixed images to be saved only once in 'Repeat' loop
- **FIXED** Fixes the problem of PAM version synchronization with PAM version displayed by Supervisor

Changes

- **CHANGED** Reduced bot start time for "On-Demand" by Supervisor.
- **CHANGED** Change scenario status to 'Failure' when plug-in fails
- **CHANGED** Reduced the launcher screen size to make it easier to see on small screen resolutions



- **CHANGED** Delete the function of saving and uploading screenshots by step (reduced the free disk space required for PAM)
- **CHANGED** Write image file count on a log before uploading verification image

Fixes

- **FIXED** Fixes a problem where an error occurs when test run without setting a value in the

plug-in.

(Scenario does not work and an empty result screen is displayed immediately.)

- **FIXED** Fixed an issue where a 'Test Run' or On-Demand task would be killed before completion when running the PAM manager service.
- **FIXED** Fixed a problem where SelectWindow is used as 'Web' type when using http: // or https: // for App Name.
- **FIXED** Fixed a problem where PAM agent being killed by PAM Manager during plugin installation
- **FIXED** Fixed an issue where an error occurred when Pam Tray was not connected to the server.

new "**Can't connect to server**" message pop-up appears.

New Features

- **ADDED** Mouse Triple click (Select entire sentence) to 'Windows Object'



Changes

- **CHANGED** Changed to the latest version of plugin management module (aka '**PPM**')
- **CHANGED** '**ARGOS RPA Service Tray**' (aka '**PAM**') registered as '**Auto started application**' and always running for '**On-Demand by CHIEF**'
- **CHANGED** Remove '**Watcher service**' from PAM tray menu
- **CHANGED** In 'Excel Advance', 'Variable for file' changed to 'Filepath variable (required)'

Plugin ▼ (P)Excel Advan... ▼
 Operation name
 Plugin version 1.1113.1107

Properties

Excel/CSV File ...

Read-fr sheet
 Read-fr range

▶ Advanced

Return value

Result type ▼
 File name ...
(File needs not exist)

Filepath variable ▼ ?
(required)

Fixes

- FIXED In "**File / Folder OP**", an error that occurred when only '**Source File / Fol ...**' was specified in the '**remove**' option and '**Target File / Folder**' was not specified.
- FIXED an error caused by incorrectly using 'UserParams' message name as a variable name
- FIXED an error that the input value will be unusable when the '**Value**' of '**TextInput**' or '**Parameter**' of '**HtmlAction**' is encrypted

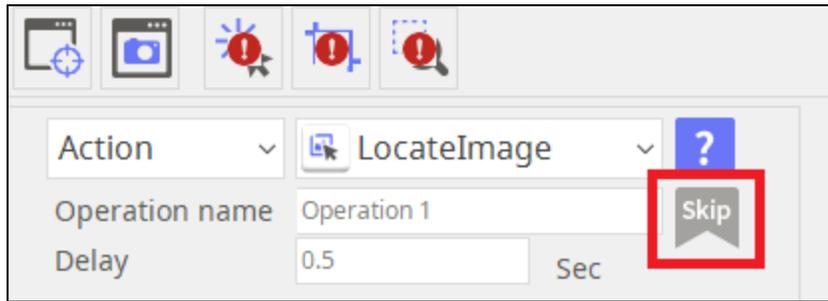
New Features

- ADDED Mouse Triple click (Select entire sentence)

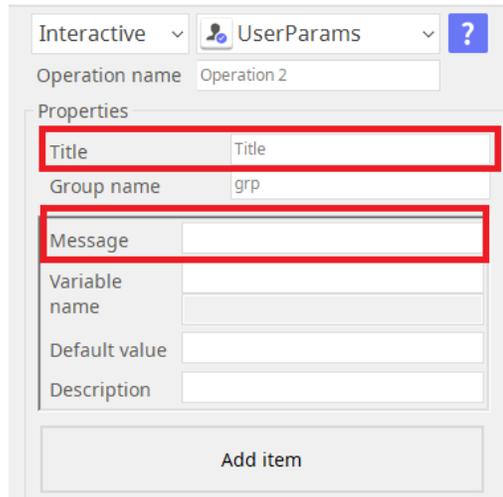


Changes

- CHANGED '**Skip**' icon moved under '?' .



- **CHANGED** New UI of 'User Params' (added 'Title' & 'Message' input box)



- **CHANGED** Editing a variable in 'Set Variables'
- **CHANGED** New Pop-up windows - After the STU terminates unexpectedly due to a crash,
- **CHANGED** restarting the STU will display a popup asking if the old bot should be loaded.
(If you have a temporary bot file)

Fixes

- **FIXED** Bug fixed: Disappearing image clip & search area box in 'Locate Image'
- **FIXED** **SelectWindow** issue where only the taskbar area flickers without focusing when measuring schedule.

New Features

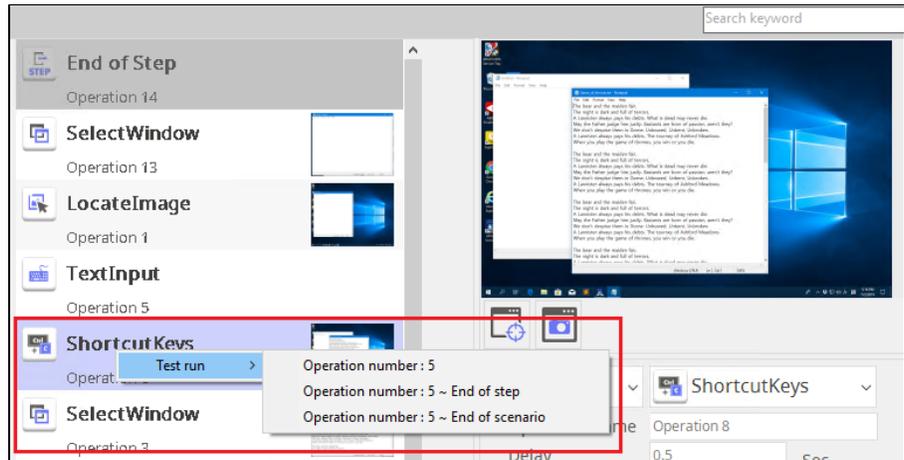
- **ADDED** **POT** (Python-to-Operation Tools on the Cloud), Newer plugin management feature in ARGOS RPA+.

RPA Plugins are managed on the Cloud repository. User can select plugins which they want to use their Bot. Under the new system, user can build their own Plugin and share on RPA marketplace or manage it in their private POT repository more freely. You can find all available and new plugins in 'Plugins' menu of **CHIEF**.

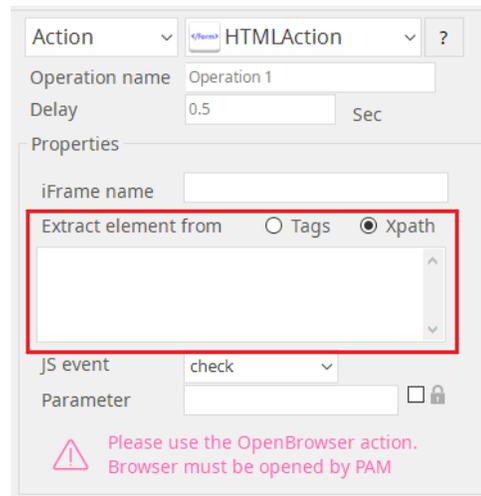
- **ADDED** Test run by Operation (Right click on a mouse at the Operation list).

There are 3 options:

- Operation Number: <Op No.> : 'Test run' runs <Op No.> only.
- Operation Number: <Op No.> ~ End of Step : 'Test run' runs from <Op No.> to the end of step
- Operation Number: <Op No.> ~ End of Scenario : 'Test run' runs from <Op No.> to the end of scenario



- **ADDED** 'XPath' to 'HTML Action'.



- **ADDED** OCR image enlargement function added
- **ADDED** 'First row contains column header' option to all plugin when using 'CSV' as a result type

The first row of CSV result type is a header line by default. But, sometimes it has to be removed to use as an input data of the next operation.

Now, user can select to use/remove the header line from the CSV results.

- **ADDED** 'Send Logs' menu to 'ARGOS RPA Service Tray' menu

Changes

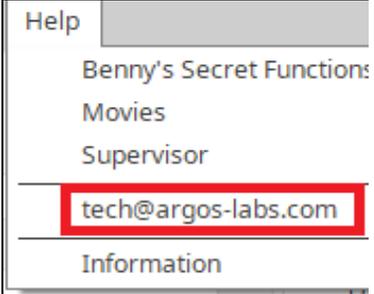
- **CHANGED** Default location for saving scenario files to '**Documents**' (previously `%appdata%`)
- **CHANGED** Variable selection combo box to remain unselected
- **CHANGED** Whenever the plugin result processing type is changed, the variable selection is initialized.
- **CHANGED** The default extension **JSON** has been changed to **BOT** when saving bots to local disk. BOT is an all-in-one file containing scenario files and screenshot images.

Fixed

- **FIXED** A problem that sometimes the item list can not be updated when moving the step
- **FIXED** Terminate all child processes of PAM when 'Test Run' ends

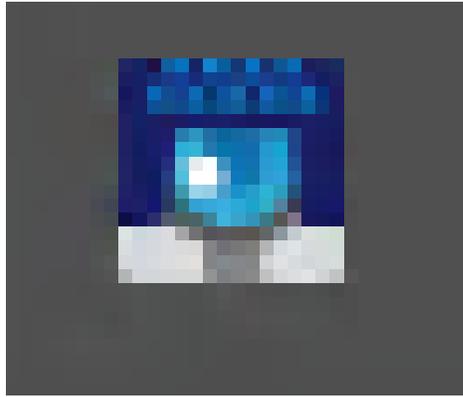
New Features

- **ADDED** Sending a STU log to Tech Support via E-Mail or from the launcher menu.

Method	How to Send	Descri
via E-Mail	<i>"Help > tech@argos-labs.com" in Top menu</i>	User must have an e-mail client that ser e-mail message editor window appears 

From Launcher

1) Click the right button of mouse on the Launcher icon,



- 2) Choose '**Send Logs**'
- 3) Select a date you want to send
(A date where the log file exists is displayed as **Bo**
Id)
- 4) Click '**Send logs**'.

The log file will be sent to the log collect to Tech Support for further analysis.

How to send a STU log f

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Changes

- **CHANGED** Removed the default 0.5 sec pre-operation delay in **Delay** action.
- **CHANGED** Reduced the file size 30% and above when saving bots.
- **CHANGED** '**Movie**' menu moved under '**Help**' and links to new movie library.
- **CHANGED** "Open RPA supervisor page" to "**Supervisor**" in '**Help**'

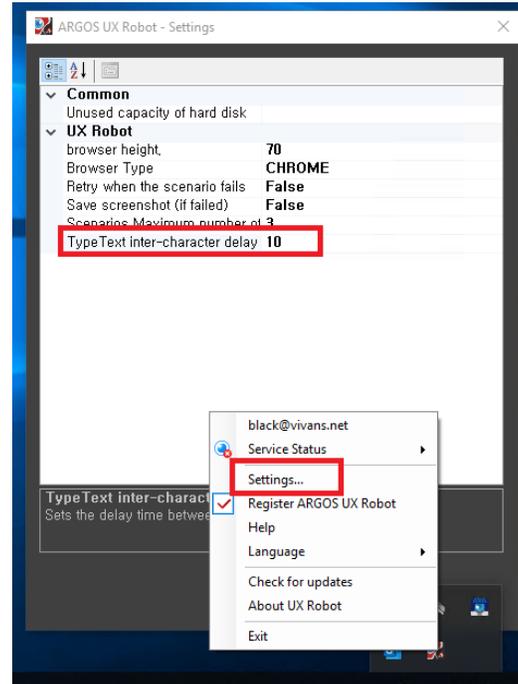


Fixed

- **FIXED** User can control the inter-character delay by using '**TypeText inter-character delay**' value of PAM in '**Text Input**' action. If the default value (100 ms) of '**Text Input**' is not fit in your bot, you can

control the text typing speed by using increase or decrease the delay.

- **FIXED** Even if the STU Launcher is terminated, child processes still remain.
- **FIXED** **SelectWindow** could not move a focus on 'CMD (prompt window)'.



New Features

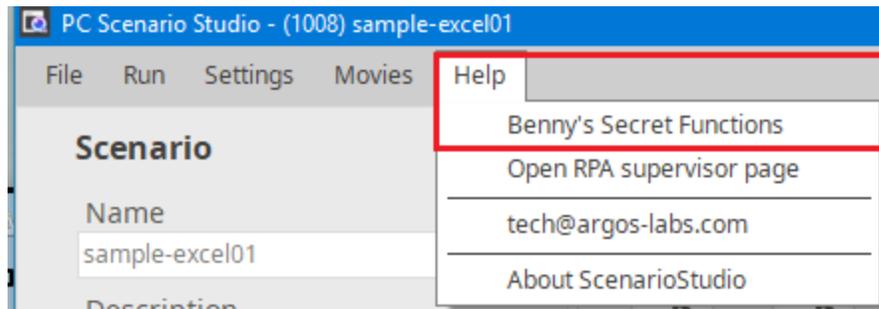
- **ADDED** **Mobile CHIEF** (Android App) released. You can download from **Google Play** store. iOS version is also coming soon.
- To download, click here, '**ARGOS CHIEF**



ARGOS CHIEF provides:

- Real-time monitoring – Provides Active and Completed Bots(Live Status)
- Bot analytics – For higher Bot utilization & efficiency
- Cloud or Premises
- Bot Schedule management
- Log activity management
- Alarms management

- **ADDED** '**Search keyword**' in Top menu bar. You can search a keyword related documents from Wiki.
- **ADDED** '**Benny's Secret Function (aka BSF)**' added under '**Help**'. It explains a variable system of ARGOS RPA+.



Changes

- **CHANGED** Renew the code signing certificated. If you install from the scratch, please, read this, 'What is 'Windows Protected your PC' message?'.
"What is 'Windows Protected your PC' message?".
- **CHANGED** the progress popup UI when starting STU. Also, the starting message has been further refined to 'Initializing' and 'Downloading Plugin'.

Fixed

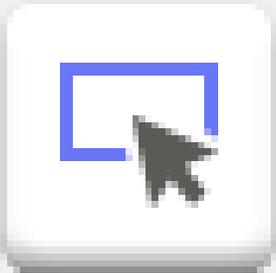
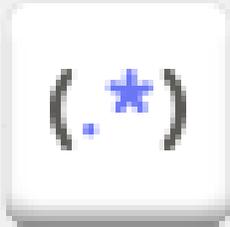
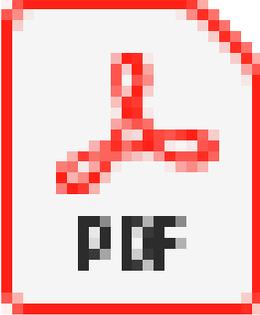
STU

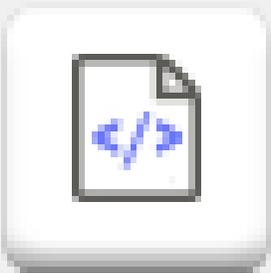
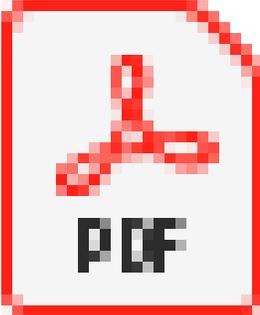
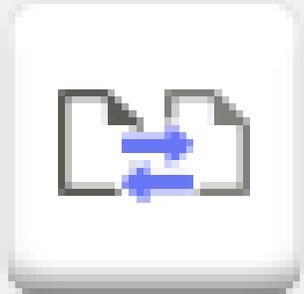
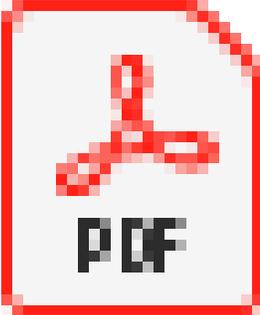
- **FIXED** an invisible problem when private plugin property values were saved and loaded
- **FIXED** 'Object...' related error when saving without 'STEP' selection

New Features

- **ADDED** New actions by Plug-in

Action Name	ICON	Guide	Descriptions
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<p>Window Object</p>	 <p>Window Object</p>		<ul style="list-style-type: none"> • find a specific windows object and do 'click' on that object. Its operation is very similar to 'SelectWindow', but this is more useful when images or object location to be compared often change.
<p>GoTo</p>	 <p>Goto</p>		<ul style="list-style-type: none"> • Unconditional Go To • Jump to the specific Step and Operation
<p>String Manipulation</p>	 <p>String Manipula...</p>		<ul style="list-style-type: none"> • Find/Relace/Split a word in a string or a text file with 'Regular Expression' • Support operations: Find, Replace, and Split

Web Extract	 <p data-bbox="581 449 820 611">Web Extract</p>		<ul data-bbox="1304 149 1446 254" style="list-style-type: none"> • scrap(extract) the web contents.
Data Conv	 <p data-bbox="607 1037 803 1213">Data Conv</p>		<ul data-bbox="1304 688 1474 1808" style="list-style-type: none"> • convert a file format among JSON, XML, CSV. • Supports CSV-to-TSV, CSV-to-_SV, JSON-to-XML, XML-to-JSON • csv2tsv: converts CSV to TSV (Tab-separated values) format • csv2_sv: converts CSV to a character separated values which you specify as 'Target separator' • json2xml / xml2json: converts JSON to XML format or vice versa

IMPORTANT NOTE

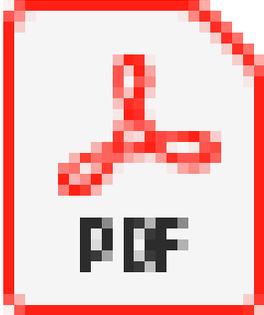
If you are updating from a version earlier than R19.0513, please do not use STU immediately after the update and restart STU completely and update to PAM as follows.

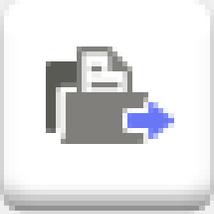
1. Close the sign-in window to end STU execution
2. Terminate 'STU Launcher' from Tray menu
3. Restart STU
4. Update a PAM if you see the update pop-up
5. Enjoy RPA life with new STU & PAM !

Thanks

New Features

- **ADDED** New actions by Plug-in - *TTS, File Monitor, File/Folder Op, SSH Command*

Action Name	ICON	Guide	Descriptions
Text to Speech	 Text to Speech		<ul style="list-style-type: none">• Text-To-Speech Support using Google TTS engine

<p>File Monitor</p>	 <p>File Monitor</p>		<ul style="list-style-type: none"> • Monitor the status changes of folder by file operations such like create/delete/move. This is used to create a workflow that is triggered by file creation. • Get a file list and iterate process each file. This is used to create a list of files, and use 'Repeat' to iterate through the files in the list.
<p>File/Folder Op</p>	 <p>File/ Folder Op</p>		<ul style="list-style-type: none"> • Operation target: file or folder • Available operations: copy / move / remove • All operations include subfolders by default. • Advanced options: <ul style="list-style-type: none"> • Preserve: This will preserve the timestamp of source file/folder while copying / moving. • Symlink: • Update: This will overwrite when the timestamp of source file/folder is newer than destination

SSH Command			<ul style="list-style-type: none"> • Connect to a *nix server using SSH • Run a simple CLI command and get the results • The returned results can be saved as an Array variable, and used in next operations.
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ARGOS STU

- **ADDED** PAM update check right after STU update
- **ADDED** New stop hot-key (**CTRL+ALT+C**) for the “Auto Recording”
- **ADDED** Default bot file name when saving bot.
- **ADDED** New ‘Import Step’ under ‘File’ menu. This is used to copy a bot from another one.
- **ADDED** New ‘SKIP’ operation.

Replacement for the **DISABLED** stamp / new icon & color, multiple operation selection support.

ARGOS CHIEF

- **ADDED** ‘search keyword filter’ to ‘Schedule’, ‘Scenario-PAM status’, and ‘Job History’ in dashboard.

Changes

- **CHANGED** In ‘Scenario’ menu, ‘Update date’ is the default order.

New Features

- **ADDED** ‘CompareValues’ action (*if-then-else*)
 - compare to return values or user variables and jump to another Operation or Step.
- **ADDED** ‘Paste’ option in ‘TextInput’ action
 - Mark on ‘Check box’ to use ‘Paste’ action.

- **ADDED** Improved 'Excel Advanced' action
 - Added 'n x n' selection & can use an excel formula

You can run in background mode without real MS Excel installation.

'Excel' action runs on OS X, Linux, also.

(ex) n x n data range selection, n x n data reverse, read/write from/to CSV format.

MS Excel is still needed when a user wants to use 'Excel formula'.

To support 'Excel formula', we need more time. For now, we have a half solution.

New Options

- sheet: Name of the sheet to read (Default: the last saved-active-sheet is selected)
- range: the range to read
- reverse: redirect (convert vertical data to landscape)

- big: All data in the selected sheet (not available with reverse option at the same time)
- write: the file path to write to
- write_sheet: the name of the sheet to write (Default: Sheet1)
- write_cell: cell start position to write (Default: A1)

- **ADDED** Japanese language pack renewal
- **ADDED** 'Rossum' API Support

ARGOS STU

- **CHANGED** 'Excel' to 'Excel Basics'
- **DROPPED** The 'User Module' obsoleted by the plugin system

ARGOS PAM

- **CHANGED** Re-fixed duplicate line feed when pasting using 'TextInput'.
- **CHANGED** Improved 'JSON Select' to select a data

New Features

- **ADDED** SQL support: MySQL, MSSQL, Oracle

- **ADDED** 'REST API' action for RESTful API support.
User can integrate their bot with various external REST API servers.
- **ADDED** 'JumpToStep' to 'Verifications' group and 'Dialogue' action.
With the ability to jump between steps, users can design workflow more freely.
- **ADDED** 'JSON Select' for JSON data format support of SQL, REST API actions

ARGOS PAM

- **FIXED** Removed the duplicate Line Feed when pasting sentences using 'TextInput'
- **FIXED** An issue where the value of 'UserVariable' could not be edited in TextInput.
User can add(edit) an index to the array variable.
ex) Original value '{{Global.second}}' could be re-written like '{{Global.second.index}}' to specify the index of array variable.

ARGOS STU

- **CHANGED** Version mismatch alert type between PAM and STU from a countdown pop-up to a simple information popup.
User can close the window more faster.

ARGOS PAM

- **FIXED** : RunProgram fails to execute if the file path contains more than one space.
- **FIXED** : Run OpenBrowser chrome with actual chrome's language settings.
(Bug fixed - The language in the field when accessing the site is displayed in a different language from the scenario.)
- **FIXED** : Fixed to save a file with .xlsx extension in 'My Document'
when specifying only filename instead of writing full path to file name when do 'write' operation in Excel.
(ex) filename.xlsx
- **CHANGED** : Improved 'Excel' action performance
When read / write, the method of opening and processing the Excel file for each item in the Excel operation is opened and processed once.
- **CHANGED** : When you run Excel Read, the cell reads as the formatted value.
If formatting is applied to the cell at the time of Excel Read, it is corrected to read the formatted value.
(ex) Displayed cell value: 100 (format: %) => 'Read' as '100%'

'R19.0226' is the public release name.

Previous being used 'R19.0218' is the alpha version for internal testing.

ARGOS STU

- Package name: R19.0226.10
- **CHANGED** the links of 'Movie' menu
- **CHANGED** 'Sign-In' screen from IE to Chrome
- **CHANGED** 'Main menu'

Details...

Menu	Status	Desc
Scenario	Removed	<ul style="list-style-type: none">• Changed 'User variables setting' to 'User variables in Scenario' and moved it to 'Settings' menu
Tools	Removed	<ul style="list-style-type: none">• Moved the Recorded related sub-menus to 'RUN' menu• Moved 'Options / SMTP' to 'Settings' menu
Help	New	<ul style="list-style-type: none">• Added 'About ScenarioStudio' to check out the current version easily

- **CHANGED** 'Test run' to run in user-specific folder
- **ADDED** License checking logic in the closed network environment (On-Prem Only)

ARGOS PAM

- Package name: R19.0218
- **CHANGED** Dropped 'Administration' permission for running PAM
- **CHANGED** a schedule time based on UTC
- **CHANGED** 'Test run' results file location to user-specific folder
- **CHANGED** 'TextMatch' to use a variable at 'text' parameter
- **CHANGED** SendEmail, If you specify a folder in the attachment, the file in the folder will be attached. (not included a sub folder)
- **CHANGED** a mouse button action when LEFT-RIGHT button setup is swapped
- **FIXED** a schedule time calculation logic
- **FIXED** 'SelectWindow' title would fail when it contained a regular expression symbol (ex. +).
- **FIXED** a bug where SendEmail contained a blank address if there was a semicolon (;) at the end

of the email recipient.

Common

- Changed the specific version name format: **R18.<release date>**

ARGOS STU

Changes

- Click action integrated with SelectWindow
- Changed the default delay to 500ms between actions.

Fixed

- Fixed a bug of TypeKeys (interval time issue)
- Fixed a bug where Repeat action behavior would run once when the time exceeded 32768 seconds.
- Fixed the problem that the item is specified incorrectly when using goto in Dialogue event (jump, backjump not yet developed)"
- Fixed theme related UI issues

ARGOS STU

Fixed

- Crash due to 'Shortcut Key' event hooking
- Fixed an error when adding an new Action to an older scenario with no Item name

Common

changes

- Add **TextMatch** verification function
- Index can be used in **LocateImage** - image index
- Index can be used in **LocateImage** - Loop matching image

ARGOS STU

New Features

- Enhanced Excel Action
- Ability to use Scenario Studio as license file without login (for on-Prem or closed network)

ARGOS Chief

Changes

- Modify license purchase / authentication / activation function

How to update STU & PAM

How to update of STU & PAM

1. Run STU

If your STU (Scenario Studio) is running, please, stop it including 'Scenario Studio Launcher' in tray menu.

2. Do update of STU when shows up a popup

About STU updating, it will takes about **2-3 min** to create a runtime environment in your PC at first run.

3. Do update of STU when shows up a popup.

If the sign-up windows of STU appears, please, close it first and terminate STU launcher at tray menu.

4. Check out the version of STU and PAM

Location of version information

STU: You can find a version in '**Help > About Scenario Studio**' menu.

Or, Select '**Windows Key > Settings > App & Features**' and input 'ARGOS' in the search box.