

# NAVIGATE YOUR NEXT



## UiPath 2019.4 Updates

## **The UiPath 2019.4 updates**

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4. The UiPath 2019.4 Robot presents the new Robot features and how they work.

## **The UiPath 2019.4 Studio updates**

### **GIT Integration:**

The integration between Studio and GIT allows developers to work collaboratively by being able to track changes in the automation projects during development. It can also track changes to sets of files like json files or workflows as well as to navigate through the history of the GIT repository.

### **Workflow Diff:**

The Workflow Diff feature allows developers to preview a detailed side-by-side comparison between two files, workflows or json project files by highlighting any added or removed activities, packages, variables or arguments. Comparing workflow versions is a great way of keeping track of any changes performed in the project especially in complex projects.

### **SOAP and Swagger libraries:**

Studio can now generate activities from SOAP and Swagger based REST services through the New Service wizard available for libraries. The service is added to the library's dependency tree and from there on, you can add activities to your library from the Activities panel. You can incorporate this new, simple and extremely useful addition of Services to the Library projects, which can be integrated seamlessly.

### **Edit Settings:**

To enhance your automation experience, we've added Global settings and Default Locations for projects. On top of that, we've also incorporated Project settings for renaming a project and changing its description. Last but not least, Library properties bring the option to add a tooltip and a help link to the new activity.

### **Go! Marketplace Studio Integration:**

The purpose of the UiPath Go! Marketplace is to share knowledge and increase reusability of components to accelerate the implementation of RPA. The Go! public feed lets you enjoy all that Go! has to offer directly in UiPath Studio. It contains all the custom activities published there by our ever

growing community of partners, freelancers and UiPath RPA developers. Please note that whether or not a package is built and officially supported by UiPath is specifically stated in the Manage Packages window, Package Information tab.

## Package Management Bundle:

The Package Management Bundle includes the following features:

Ability to enable libraries and activities per tenant.

Project dependency mass upgrade tool.

Semantic versioning.

Full dependency tree.

The option to recommend local and Orchestrator feeds in Enterprise when connected to an Enterprise instance of Orchestrator.

Studio package signing.

Package license agreement.

The option to keep activities favorites always visible (pin favorites).

## Studio Agility Pack:

This new usability improvement provides the ability to copy activities from one workflow to another, rename arguments, restructure code, as well as create new arguments and variables. Basically, it allows you to create or modify workflows faster and more accurately.

## Debugging in 2019.4:

The process of spotting malfunctions within workflows has now been made easier with the “Slow Step” feature, which allows you to execute a workflow at a slower speed that can be tracked by the human eye. Another useful feature is the Global Handler, which can be set to show you the exact activity and message of an error during workflow execution. Depending on the error you can set certain set of actions. When working with multiple workflows within complex projects, the Focus feature jumps to and highlights the erroneous activity. Improvements have been added to the Breakpoint functionality that allows you to pause the execution of a workflow and check its status at any given time. Now, it can managed from its dedicated menu.

## The UiPath 2019.4 Orchestrator updates

### Real Time Monitoring:

The Real Time Monitoring feature will enable you to monitor the state of your deployment by looking at jobs, queues or robots, as they execute jobs and as queue items are being processed

## Libraries and Activities per Tenant:

The Libraries and Activities Per Tenant feature enables you to upload a reusable component (a library) and use it on a single tenant only, isolated from the others.

The implementation of the Libraries and Activities Per Tenant feature allows for:

data segregation for business purposes

data segregation for security purposes

## Encryption Key per Tenant:

Previously (Orchestrator v2018.4), a single encryption key, stored in Web.config, was used to protect/unprotect various data (robot passwords, e-mail passwords, NuGet passwords, etc.). The new Encryption Key per Tenant feature offers the following improvements over the situation above:

the Orchestrator Admin will be able to choose to have one single encryption key (current behavior) or different keys per tenant.

These keys will be stored in an Azure Key Vault (AKV) provided by the customer.

When creating a new tenant, Orchestrator will generate and save a new key into AKV.

When using a tenant, Orchestrator will get the key from the AKV and will not persist it locally.

A migration tool will be offered for users who have existing tenants encrypted with a single key, and want to switch to the AKV-multiple keys setup. (postponed for 2nd release).

## UiPath Recording:

The UiPath Recording feature enables Orchestrator to store streams of execution snapshots across an automation. This means if an unattended automation fails, a developer can play back the recording from the moments immediately before failure to better understand the cause of failure. This capability allows configuration of recording settings such as duration, quality etc. as an integrated part of configuring a new job for an Unattended Robot.

## The UiPath 2019.4 Activities updates

### AI Computer Vision:

Computer Vision is a feature that allows our Robots to “see” the screen and visually identify all the elements, rather than relying on selectors or images. It is an algorithm that enables human-like

recognition of user interfaces, using a mix of AI, OCR, text fuzzy-matching, and an anchoring system to tie it all together.

### Regex Builder:

Regular Expression, or Regex, is a specific search pattern that can perform the replace, match and find activities in automation projects.

### Queue Functionalities:

A collection of items added from a specified DataTable to a specified queue in Orchestrator. This feature allows developers and or process controllers to easily upload queue items in bulk using a CSV/Excel file type to specific queues in Orchestrator instead of uploading them one by one.

### PDF New Activities:

When dealing with PDF documents in your automation projects, the newly introduced activities allow you to perform actions such as joining an array of PDF files into one single output, extracting pages from an existing PDF file into a new one, exporting a page from a PDF file as an image, extracting all image assets inside a PDF file and remove, add or replace passwords on password protected PDFs.

### Support for variables in Selectors:

This features allows users error-free and accurate data manipulation when working with variables. When using variables inside of selectors you are being guided so, in this case you can only select the variable that you wish to modify. The Selector Editor window enables you to see the automatically-generated selector and edit it and its attributes.

### Intelligent OCR - Document Processing Framework:

The IntelligentOCR Activities Pack contains the infrastructure that enables document processing flows, with the goal of achieving full digitization, classification and data extraction capabilities.

## The UiPath 2019.4 Robot Updates

### Robot Tray:

The UiPath Robot Tray enables you to:

- View all the available automation processes.

- Start and stop a process.

- View and download processes that have a newer version available, or that need to be downloaded and unpacked locally, and view the installation status.

- View the status connection to Orchestrator.

- Search for a