UiPath 2020.10 LTS Release Partner Technical Mastermind APAC + INDIA region

Session 6 of 6:
UiPath Desktop Platform 20.10

12th Nov 2020

UiPath™

20.10 Partner Enablement Plan

In order to enable partner for the 20.10 release earlier than in previous release we are planning to conduct the following types of Sales and Technical enablement:

Sales Enablement	Technical Enablement
Partner Mastermind Webinar **14th Oct 2020 -APAC** **20th Oct 2020 -India** ✓	**Technical Live Session** 1.5-2 Hour Sessions for Each Product Family 27th Oct – 12th Nov 2020
Partner Sales QRTs **5th Nov 2020**	**Technical Self Learning** in Partner Academy
Global Partner Webinar **12th Nov 2020**	**Technical Documentation** in Partner Portal

2020.10 Launch Partner Tech Mastermind Sessions

Phase	Webinar Topics	Date
Testing	**Explore the enhancements to RPA Testing, Application Testing and Test Manager.** • Support for custom fields and attachments • Microsoft Azure Devops connector • Xray connector for Jira • SAP Fiori support • Synthetic Test Data Generator Activity and more…	Register now 27th October 2020 at 10:00 am IST/12:30 pm SGT
AI/ML	**Manage and Scale with AI.** • **AIFabric** (multi-node support with MS Azure AKS, Docker EE, Integration with Data Manager and more) • **Document Understanding** (UiPath Document OCR enhanced, automatic model retrain and more)	Register now 28th October 2020 at 10:00 am IST/12:30 pm SGT
Cloud Services	**Start Instantly and Scale Faster with new and improved Automation Cloud, Insights and Orchestrator** • SOC 2 type 1 certification • Cloud Robots on Azure and AWS • Customer Table Monitoring and Management • Enhanced modern folder and more	Register now 2nd November 2020 at 10:00 am IST/12:30 pm SGT
Process Understanding	**Accelerate automation journey with Process Discovery with enhanced feature** • More deployment option (MSI) • Action Centre and Robot Integration • SAP Connectors and more	Register now 3rd November 2020 at 10:00 am IST/12:30 pm SGT
Apps	**Get introduced to the low code application builder** • App Studio • App Runtime user experience • Single click deployment and more	Register now 9th November 2020 at 10:00 am IST/12:30 pm SGT
Desktop Products	**Improve Productivity with smarter Robots for each persona. Deep dive into the enhanced feature of Studio Family and UiPath Assistance** • Modern Ui Automation • Unified Recorder • Enhanced governance • Customised input arguments and more	Register now 12th November 2020 at 10:00 am IST/12:30 pm SGT

Speakers and Panelists

Silviu Predan
RPA DEVELOPER

Teodora Baciu
RPA DEVELOPER

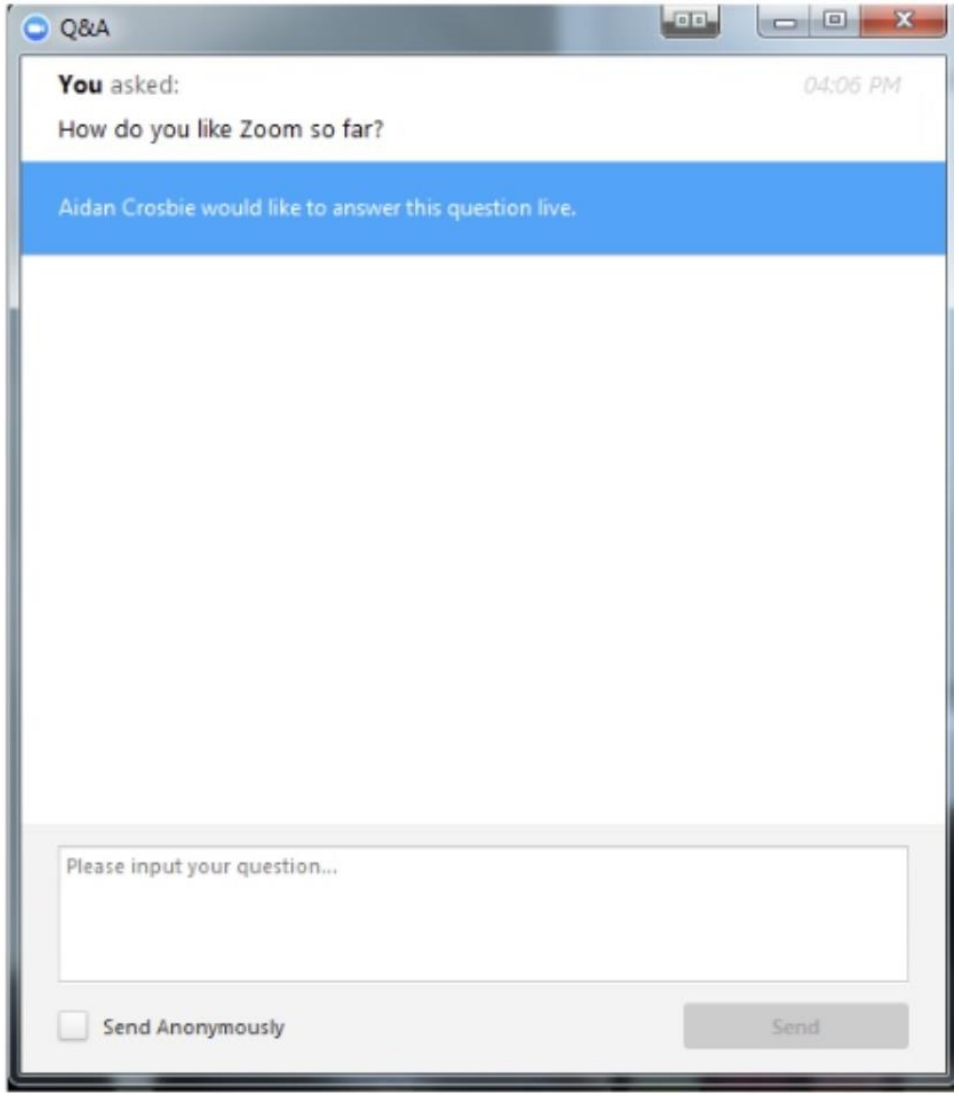
Lakshmi Nagasamy
RPA DEVELOPER

Quick Housekeeping notes

- Please enter your question in the Q&A box.
- We will address the questions along the way, at the end of the presentation or by follow up email.

FAQ: Is this webinar recorded?

Yes, this webinar is recorded and will be shared in Partner Portal or a dedicated webpage.



Disclaimer

The following information is considered UiPath Internal and Business Partner only. For any additional materials, please contact your UiPath Partner Manager.

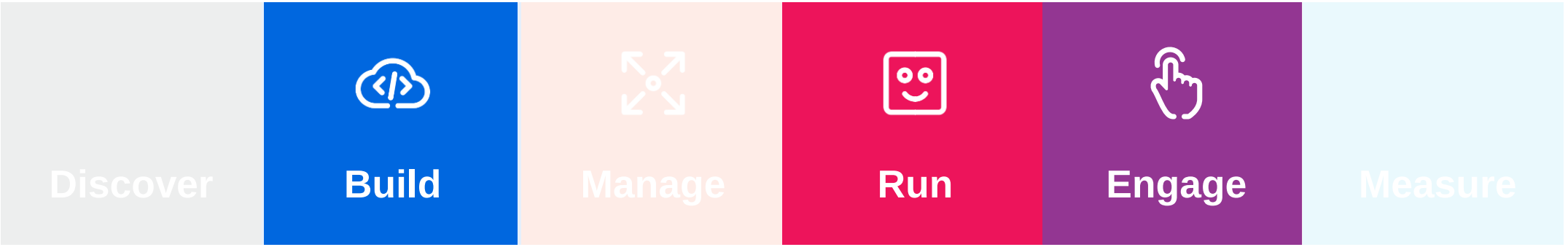
Desktop Platform 20.10

Product Enablement Session

UiPath Reboot Work.™

The UiPath Platform: Built for end-to-end automation

Wealth of new capabilities planned for the 2020 LTS release



Studio
- Performance improvements
- Developer productivity
- C# support
- Enhanced governance

StudioX
- PowerPoint activities
- Excel improvements
- SAP support

System

UI Automation

Computer Vision

Robots
- Picture in Picture Support
- Improved trigger-based automation

Assistant
- Log In support
- Input parameter support
- Large console view
- Search and group
- Notification view

Agenda

01 **Build**

- Studio / StudioPro / StudioX
- Driver, UIAutomation, Computer Vision

02 **Run & Engage**

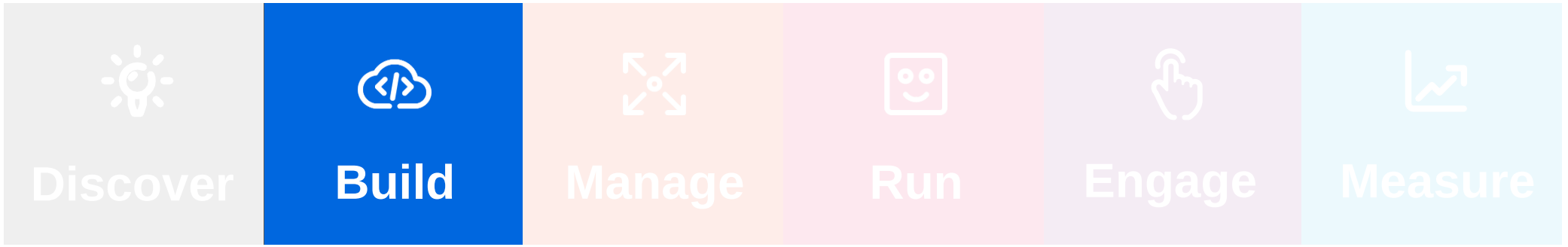
- Robot
- UiPath Assistant

03 **Additional Resources**

04 **Q&A**

You're hyperautomation-ready with the UiPath Platform

UiPath Reboot Work.™



What's new?

StudioX 20.10 Hero Features

- PowerPoint activities
- Gmail and Exchange365 support
- Excel improvements
- Many more new features and activities

Studio 20.10 Hero Features

- Modern experience (former UIA Next)
- Object Repository
- C# Support (only for StudioPro)
- Multiple Entry Points
- Find References
- Resources Panel: Drag and Drop
- Sign In and First Run Experience
- Share Project Templates
- Desktop Triggers
- Inter Process Communication
- Picture in Picture
- Inject .NET Code activity
- SAP enhancements
- Computer Vision improvements
- General Improvements

StudioX

20.10 Highlights

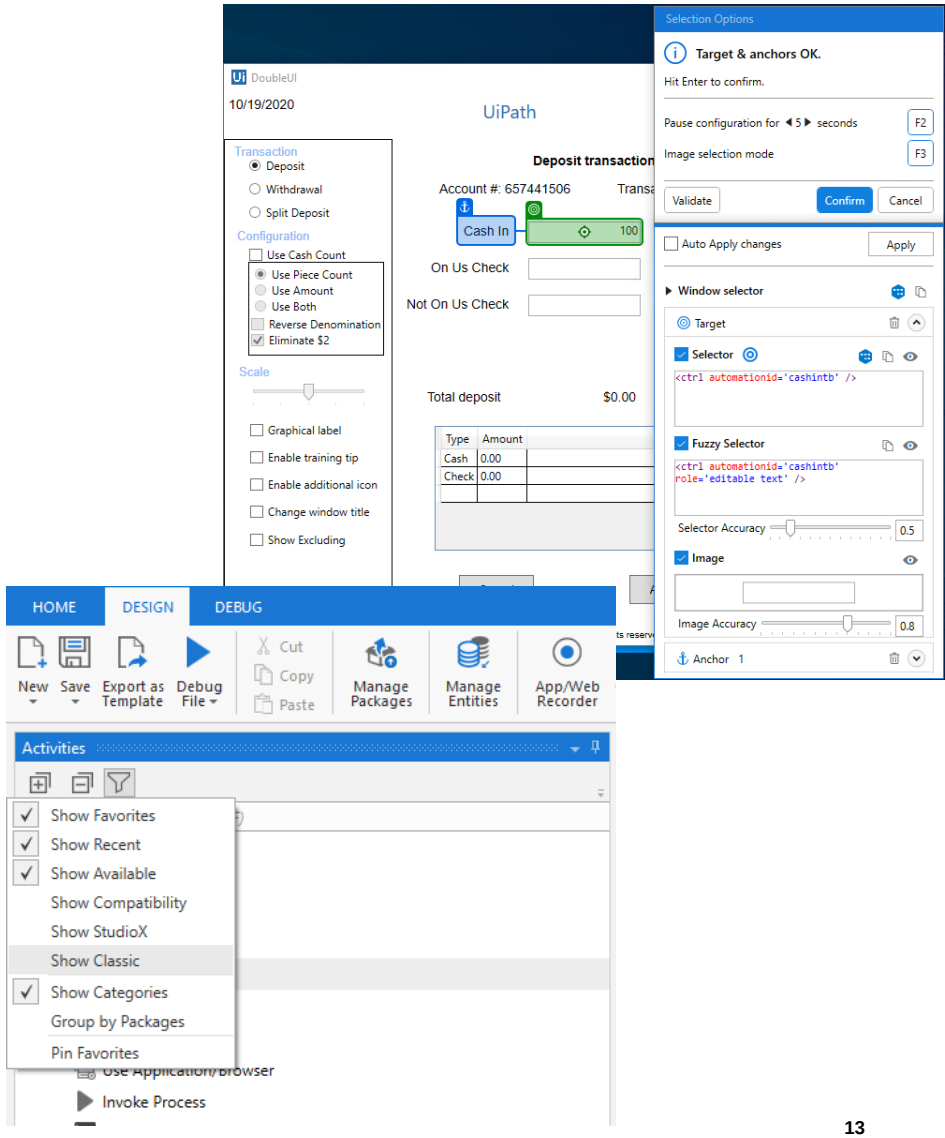
UiPath Reboot™ Work.

Modern Experience

The modern user experience introduced in StudioX is now available to Studio and StudioPro profiles, as well.

Good to know

- UIAutomation Next activities are now merged into UIAutomation.
- The Modern activities are using Unified Target, instead of Selectors, to find the target element.
- A new recorder, agnostic of the target application, if available in the modern experience, replacing all dedicated recorders from the classic experience.
- All modern and classic activities are included in UIAutomation package, but, depending on the Modern switch value, only one category is shown in the Activities panel.
- We can use the View Options from the Activities panel to show the modern ones in classic experience, or the classic ones in modern experience.
- Targeting methods configuration by technology is available in Project Settings.
- UIElement can be interchanged between Use App/Browser card and the classic application / browser scopes and between modern and classic UI Automation activities.
- Relative To easier to use



Object Repository

What is it?

Object Repository enables reusability of UI Elements and easy update of processes when applications upgrade and UI changes.

The feature was introduced as experimental back in 20.4 as UI Reusability, now it is production ready.

Who Needs It?

Skilled RPA Developers.

Organizations that are scaling their RPA operations.

Organizations who want to better support upgrading applications that are being automated.

Customer Benefits

Don’t reinvent the (UI) wheel / Reuse

Diminished cost of upgrade, having easier migration and upgrade of systems

Aids to speed of development

Aids to the RPA learning curve by having senior developers build UI Descriptors that can be used by the entire team

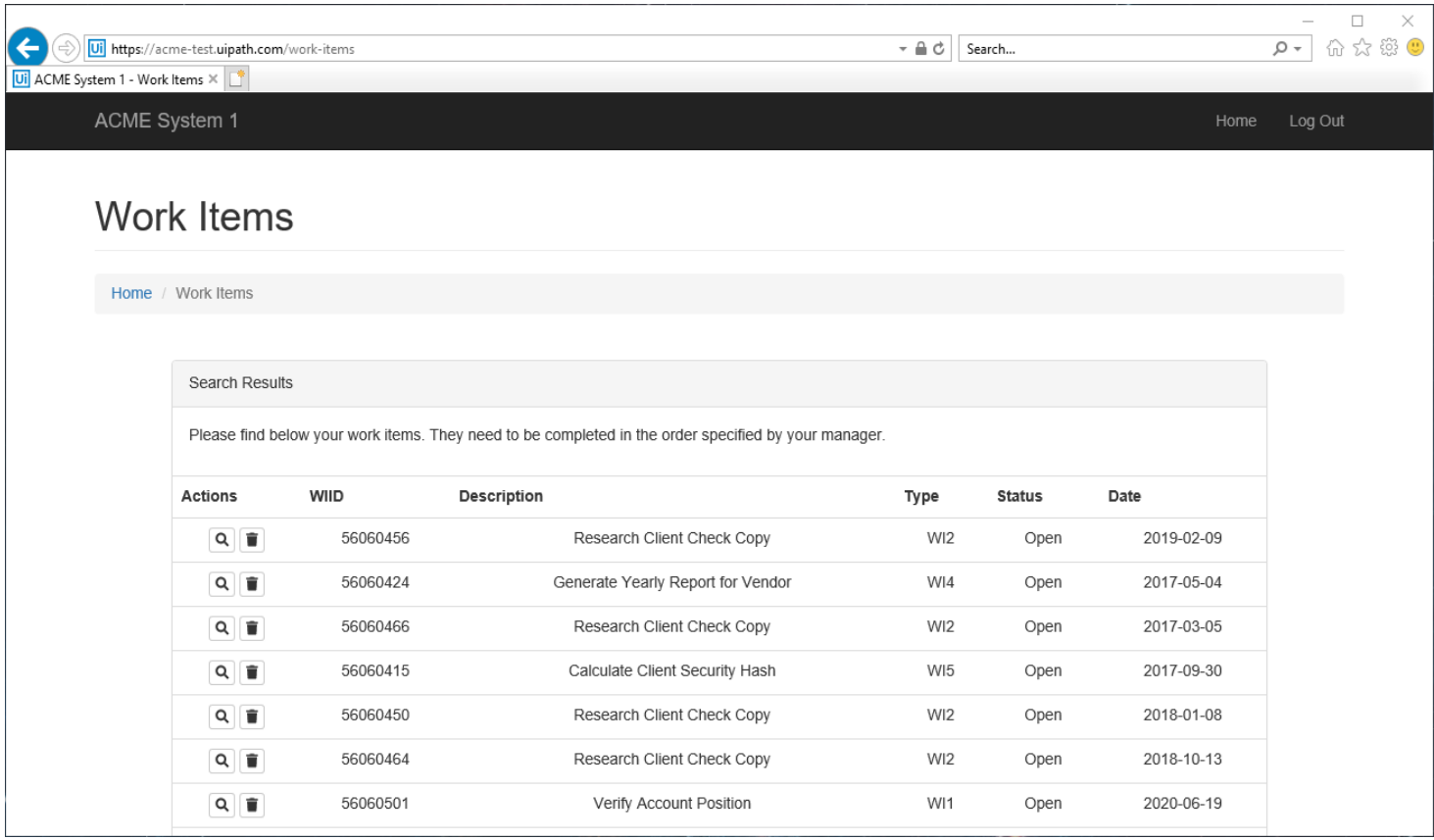
How does it work? (Demo)

Use-case:
After upgrading an application, I want to update the selectors in all automation projects where that application is used.

Our organization has many processes using ACME System 1 application and the automations were implemented using best practices in terms of reusability of UI elements. A library was created for the UI elements in ACME System 1, targeting Internet Explorer, the browser allowed by our IT policy.

Now, the IT policy changed, and Internet Explorer was replaced with Edge. We need to update all automations to comply with the new policy.

Luckily, because we used the Object Repository feature, we only have to update the UI Library for ACME System 1 and then to use it in all automations.

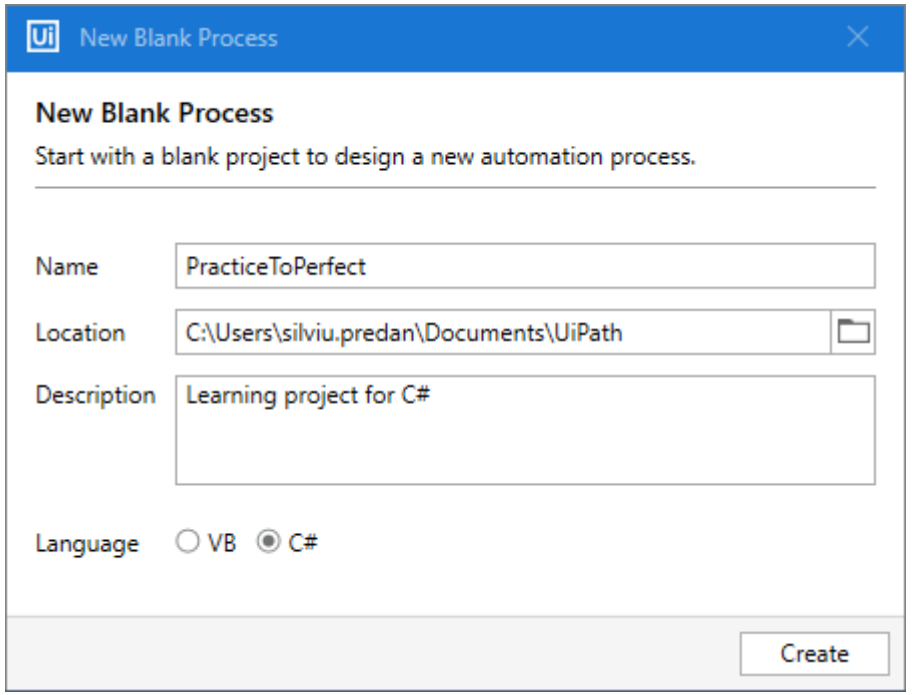


C# Support

Allow RPA developers to create StudioPro projects using C# as expression language instead of VB.

Good to know

- The feature is only available for the StudioPro profile.
- The use of both VB and C# expressions in the same project is not supported.
- The use of VB expressions in C# workflows and vice versa is not supported.
- When you copy and paste activities from other projects, invoke or import workflows, make sure they use the same language as your project.
- You can install C# libraries as dependencies in VB projects and vice versa.
- When runtime performance is essential, we recommend using VB instead of C#.
- Please check the list of know limitations - https://docs.uipath.com/studio/v2020.10/docs/about-automation-projects#c-limitations

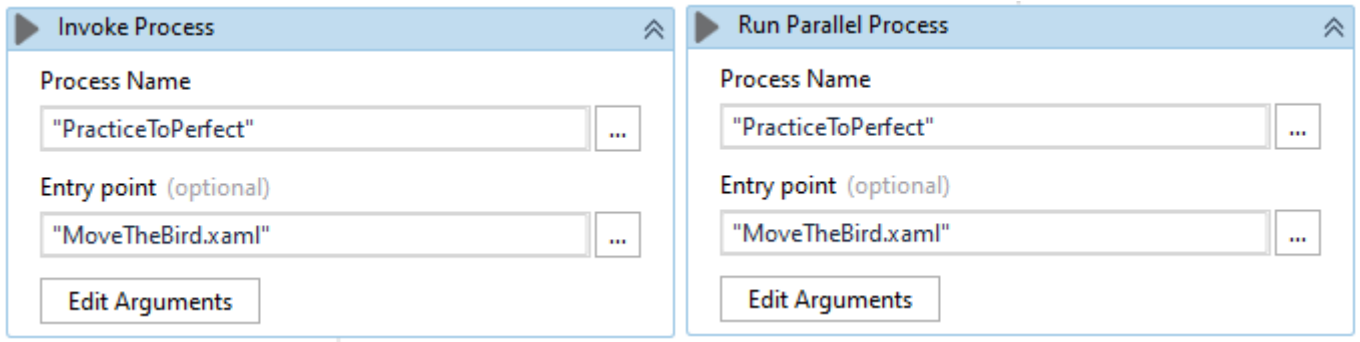


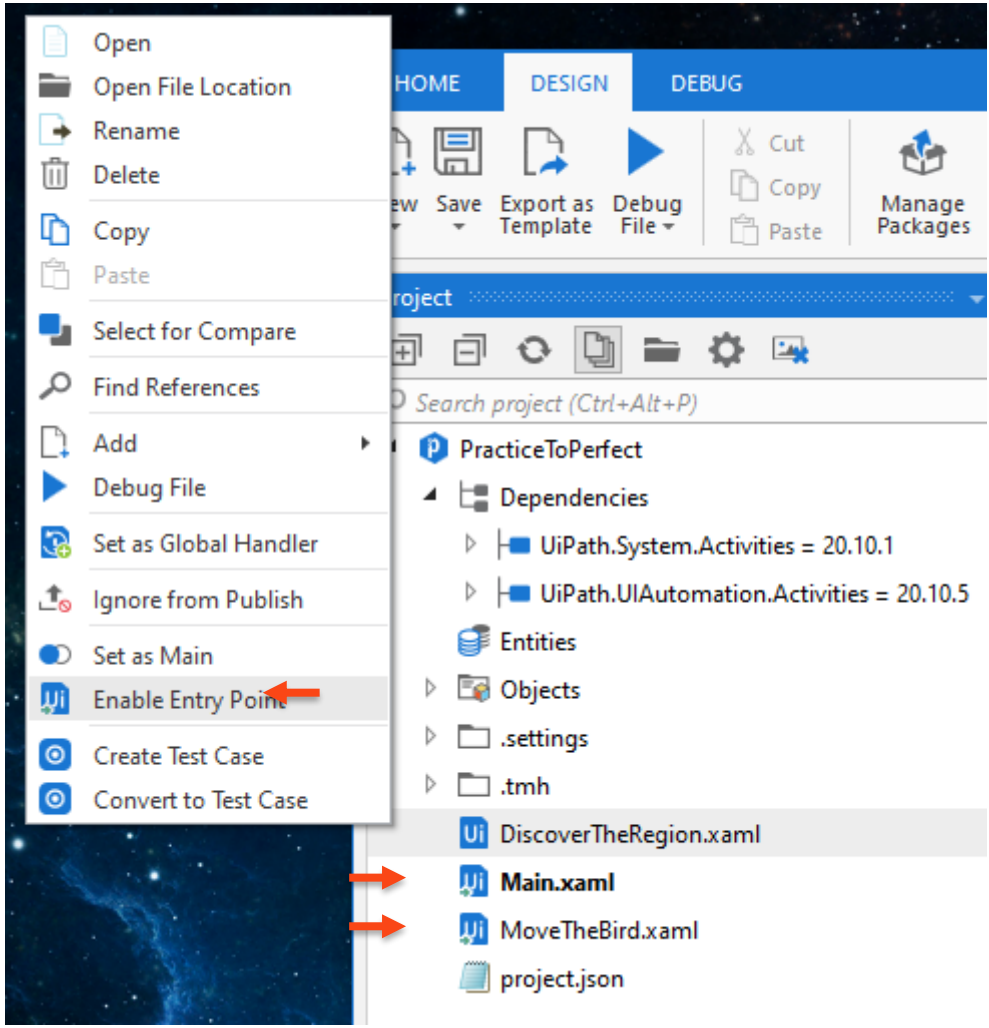
Multiple Entry Points

Enables developers to mark workflows which are entry points to the current process. That means the process can have more than just one "Main" workflow.

Good to know

- By default, only Main is set as entry point.
- The entry points workflows are marked with a small green arrow.
- It is possible to select multiple files and Enable/Disable Entry Point for all at once.
- When using “Set as main” the workflow is also set as entry point.
- Supported by Invoke Process and Run Parallel Process activities.



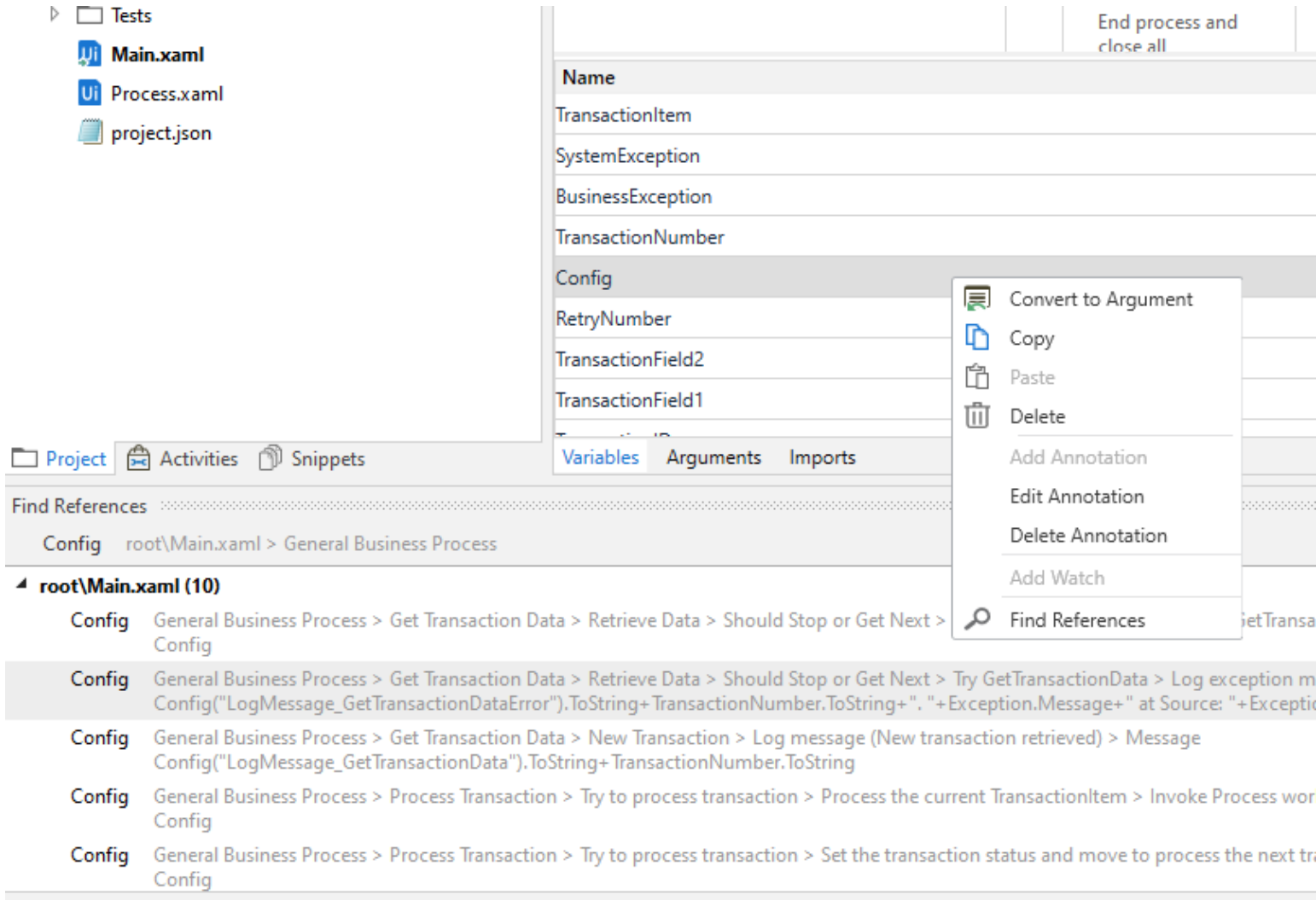


Find References

Easy to find where specific variables, arguments, workflows, activities or UI Descriptor are used.

Good to know

- The results are displayed in the Find References window.
- The results are grouped by workflow file.
- We can double click on a found reference and the workflow is opened and focus set to that activity.



Drag and Drop experience

Users can drag and drop any of the objects from the Resources Panel on the canvas and a wizard will appear asking which of the resource specific activity should be created in place.

Supported by

- Assets – drop from Resources panel to Get/Set an Asset or Credential.
- Queues – option to create activities Add Queue Item / Add Transaction Item / Bulk Add Queue Item / etc.
- Processes – options to Start Job / Invoke Process / Run Parallel Process
- UI Descriptors from Object Repository panel - create new activity or add descriptor to existing activity
- Workflows – drop from Project panel to add an Invoke Workflow File activity.
- Entities - You can drop from Resources Panel to import or drop from Project Panel to use.

Sign In and First Run Experience

What is it?

Unified Sign in and onboarding experience for all UiPath Desktop Products.

You no longer need to login or license each component independently. From this first interaction, you are logged in to Orchestrator, Robot and Studio and can connect automatically, providing unique information on number of users and licenses for the company.

Who Needs It?

First time user of Community edition installing and configuring desktop products.

First time Citizen developer connecting to Orchestrator and other UiPath Platform elements.

Customer Benefits

Single sign on to multiple UiPath products.

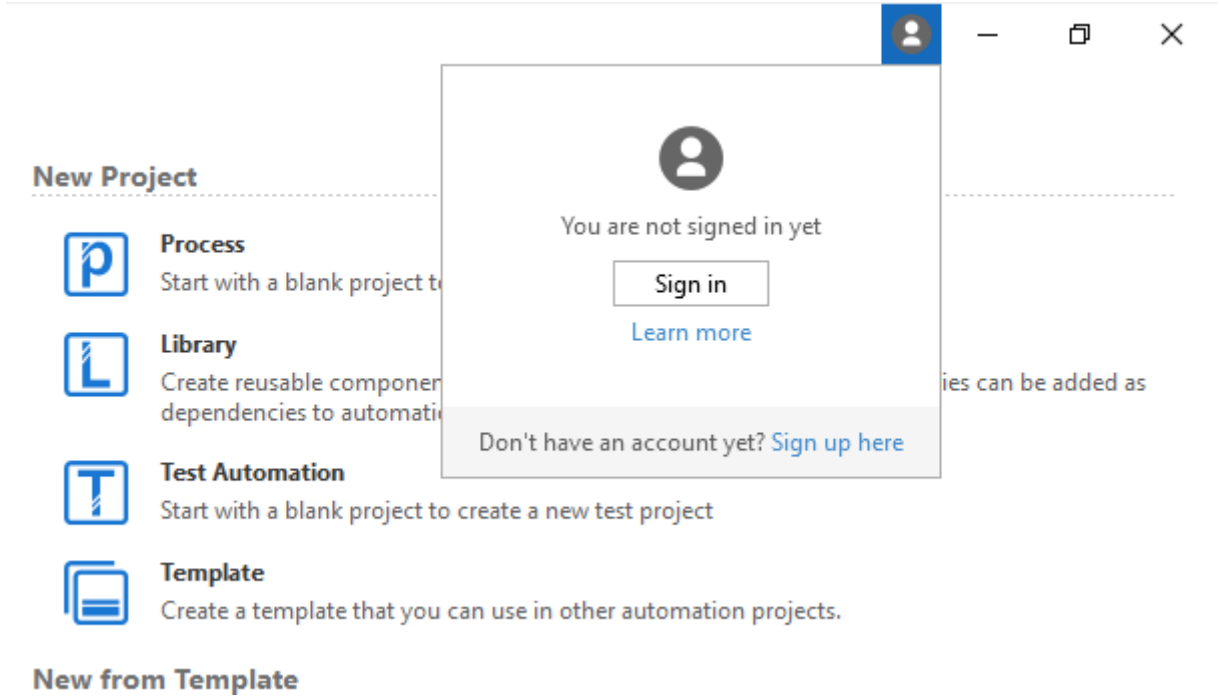
Easy licensing and connection to Orchestrator.

Seamless integration with cloud UiPath components.

Sign In and First Run Experience

Good to know

- We need to have Modern Folders enabled in Orchestrator; does not work for Classic Folders.
- If the Robot is installed in Service Mode, we need first to connect using the machine key and then we can Sign In.
- The recommendation for enterprise customers is to install Studio/StudioX/Assistant in User Mode for development or attended robots and in Service Mode for unattended robots.



Share Project Templates

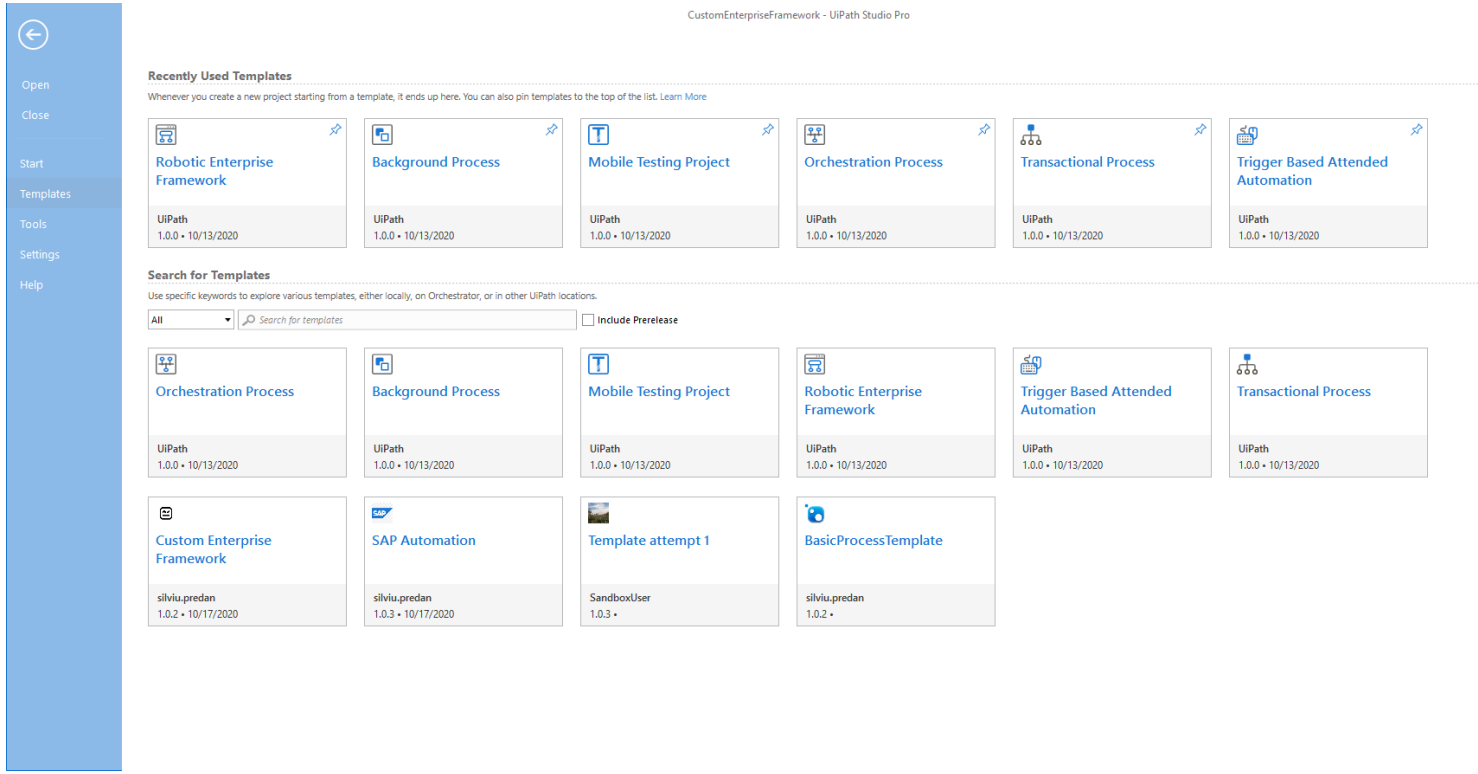
What is it?

Creating project templates was introduced in a previous version, but now we can easily share them across the team.

We can publish to the Orchestrator feed, sharable at tenant level.

The New from Template list, from the Start menu, can now be customized.

New Templates menu in Studio where we can filter and search for templates.



Desktop Triggers

UiPath Reboot™ Work.

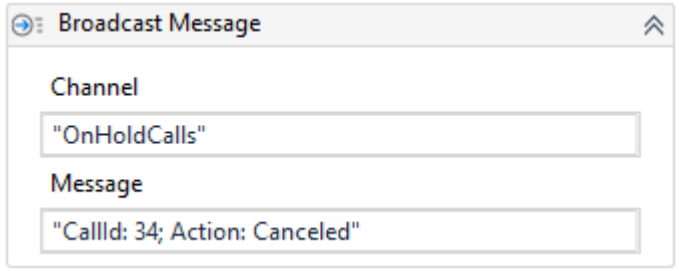
Inter Process Communication

What is it?

A simple communication mechanism, publish-subscribe, that enables background processes in parallel attended execution to transmit simple messages each other.

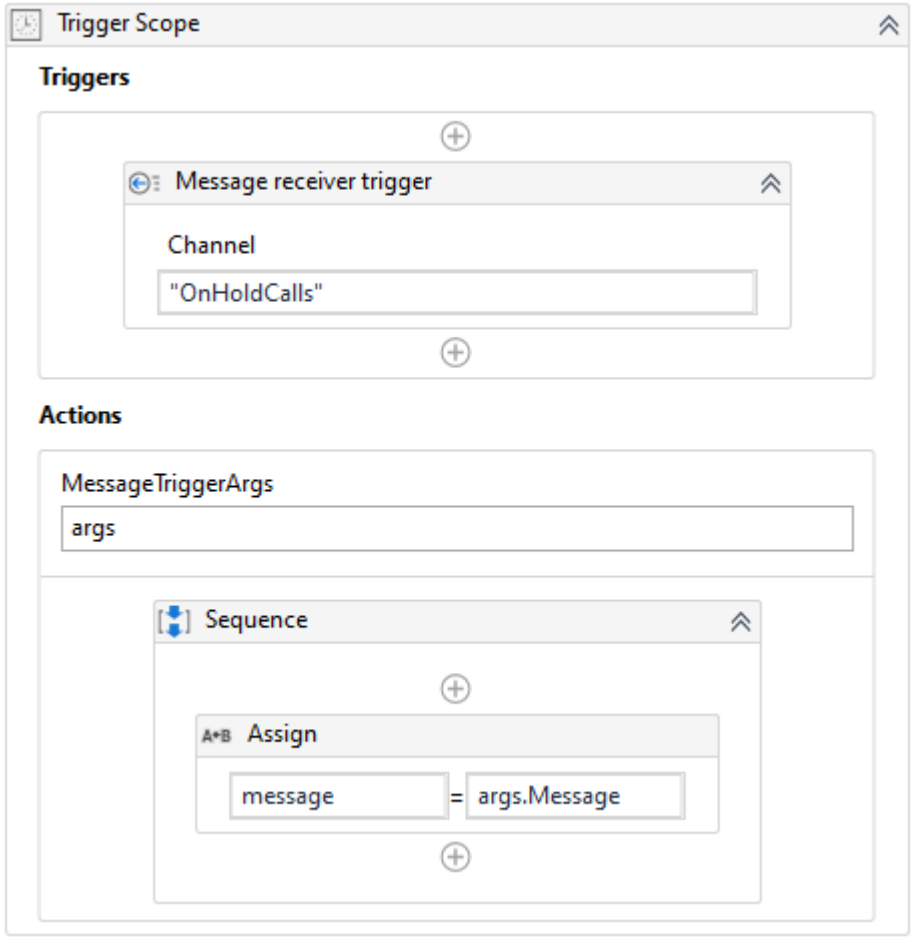
It consist of two activities:

- Broadcast Message
- Message Receiver Trigger



Good to know

- Works only for processes that runs on the **same robot.**
- Uses the new Triggers framework
- Delivered as a separate package UiPath.IPC.Activities

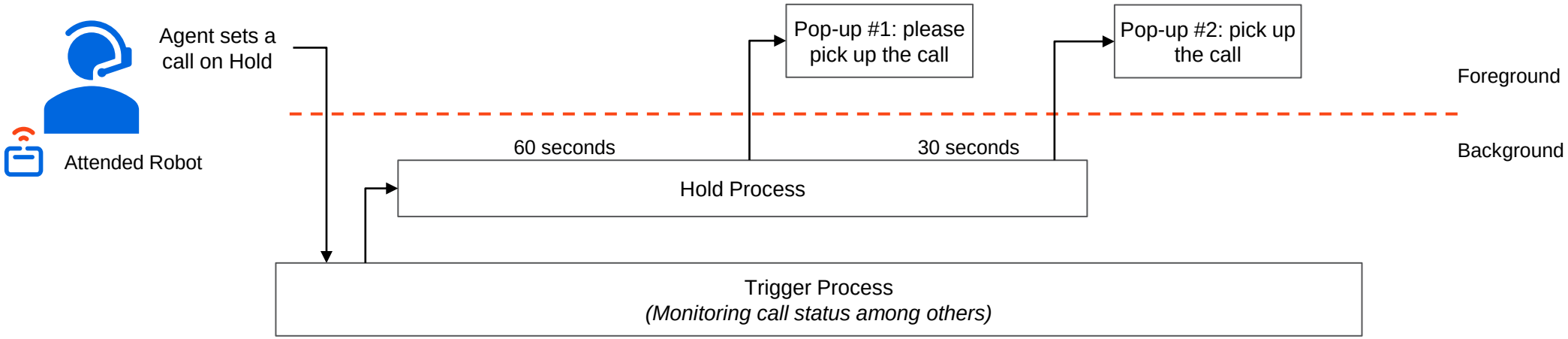


Inter Process Communication

Call on hold use case (demo)

Context: when an agent sets a call on Hold, the process should monitor for how long it's on that status. If it's been on hold for more than 60 seconds, the background process should trigger a foreground that displays a pop-up asking the agent to pick up the call or wait for another 30 seconds. If after 30 seconds the call is still on-hold, the background process should trigger another pop-up asking the agent to pick up the call.

The only way of detecting call status is monitoring a selector from one of the agent applications.



Issue 1: if the call drops in the middle of the process, the pop-up should be closed, but there is no way from the Trigger process to notify that.

Issue 2: if the agent picks up the call while one of the pop-ups is open, that pop-up should be closed, but there is no way to do that.

Picture in Picture

What is it?

Attended robots can now run in Picture in Picture mode providing a dual desktop experience to allow employees to work independently while their robot works in the background on a copy of the desktop.

Who Needs It?

Attended automation users, either by running the entire automation in another Windows session, in Picture in Picture, or by starting the main process in in user's session and then trigger another process in PiP window.

Customer Benefits

Multitask while robots work in the background: employees work undisturbed on their desktops while robots work on a copy of their desktops.

Step in to help robots when needed: employees can quickly step in when a robot needs help to handle an exception or make a decision.

Deploy with no extra infrastructure costs: no need for virtual machine, additional Windows licenses, etc.

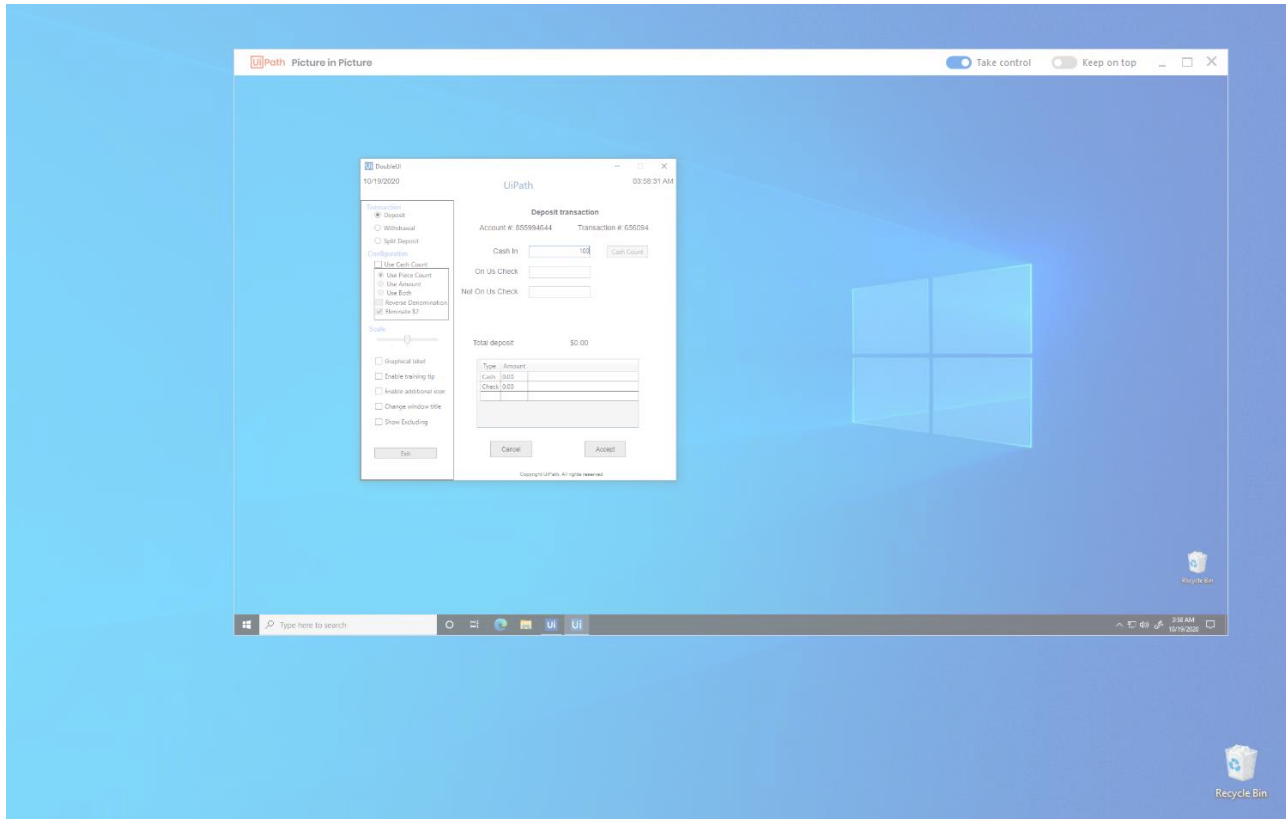
Competition

UiPath is the only automation provider that enables users to run automations on demand on a copy of their desktops. Picture in Picture works with any application and automated process. Users can control the whole process and interact with the robot when needed.

Picture in Picture

Good to know

- Invoke Process, Invoke Workflow and Run Parallel Process have the option to choose where to start the new process.
- Only Isolated workflows can be started in a different session than the parent.
- Outlook application and other Microsoft Office files must be closed in the main session if used in the automation.
- Browsers can run with a different account (data folder) in PiP mode.



Inject .NET Code activity

What is it?

The activity is a low-level tool that injects and invokes .NET code in another running application which do not offer reliable support for automation then via UI Autmation activities. It is recommended (but not limited to) for WPF and WinForms Windows applications.

Similar to the Inject Js Script activity for web applications.

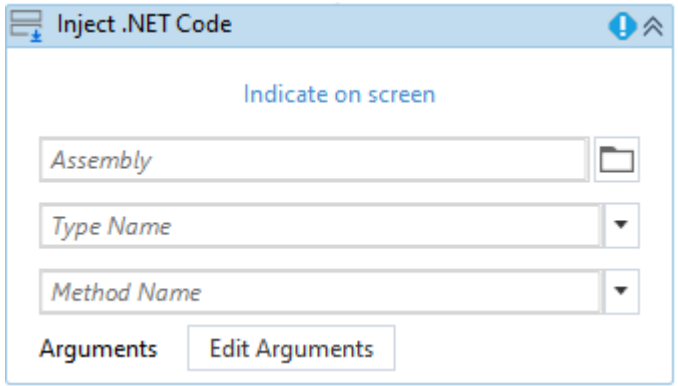
Who Needs It?

RPA Developers proficient in .NET development who can build custom assemblies to interact with the target application.

Customer Benefits

Reliable automations for .NET UI applications that do not expose traditional automation technologies or when regular UIAutomation activities cannot achieve the desired automation result due to application limitations.

Able to run a .NET assembly in the context of the target application.



Computer Vision

20.10 Updates

UiPath Reboot Work.™

SAP Support Enhancements

What is it?

- Completely new algorithm of generating selectors for SAP Fiori
- The new selectors are based on Fiori UI5 framework
- Applies to the UI Automation activities
- Previously, the selectors were using standard web attributes

Customer Benefits

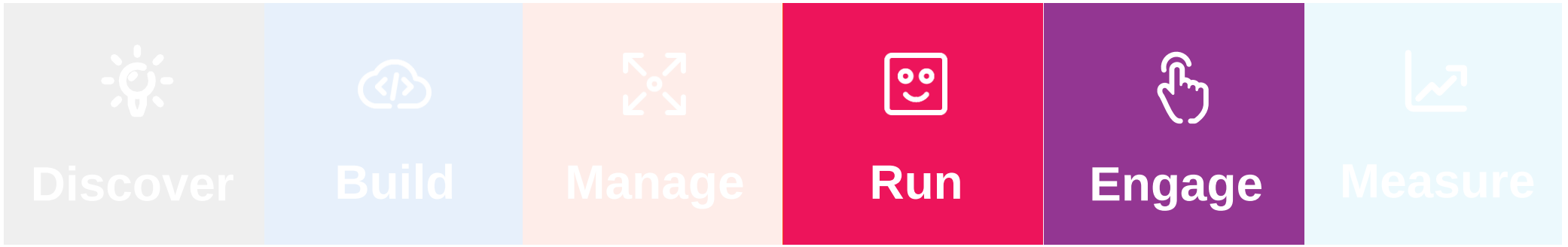
Reliable automations regardless of the SAP Fiori UI version: the selectors are going to remain the same no matter if the SAP UI changes.

General Improvements

- New Workflow Analyzer rules:
  - Persistence activities ST-DBP-[024-028]
  - Insecure password use UX-DBP-029
  - Forbidden variables usage in selectors UI-DBP-030
- Filter activities in Command Palette according to scope
- SelectorNotFound error is suggesting possible fixes
- Take Screenshot – output to File / Image / Clipboard
- Check App State activity
- Change signature / credentials for GIT / SVN
- UI Activities panel in Object Repository
- Search in all properties including closed files
- Ignore from Publish / Set as Publishable for project files
- Manage Packages search by description
- Manage Packages filter by package type

You're hyperautomation-ready with the UiPath Platform

UiPath Reboot Work.™



Discover what to automate with process mining powered by AI

Professional developers, citizen developers, and employees create automations

Securely deploy and manage automations from anywhere, at scale

Robots work with your applications and your people to carry out automations

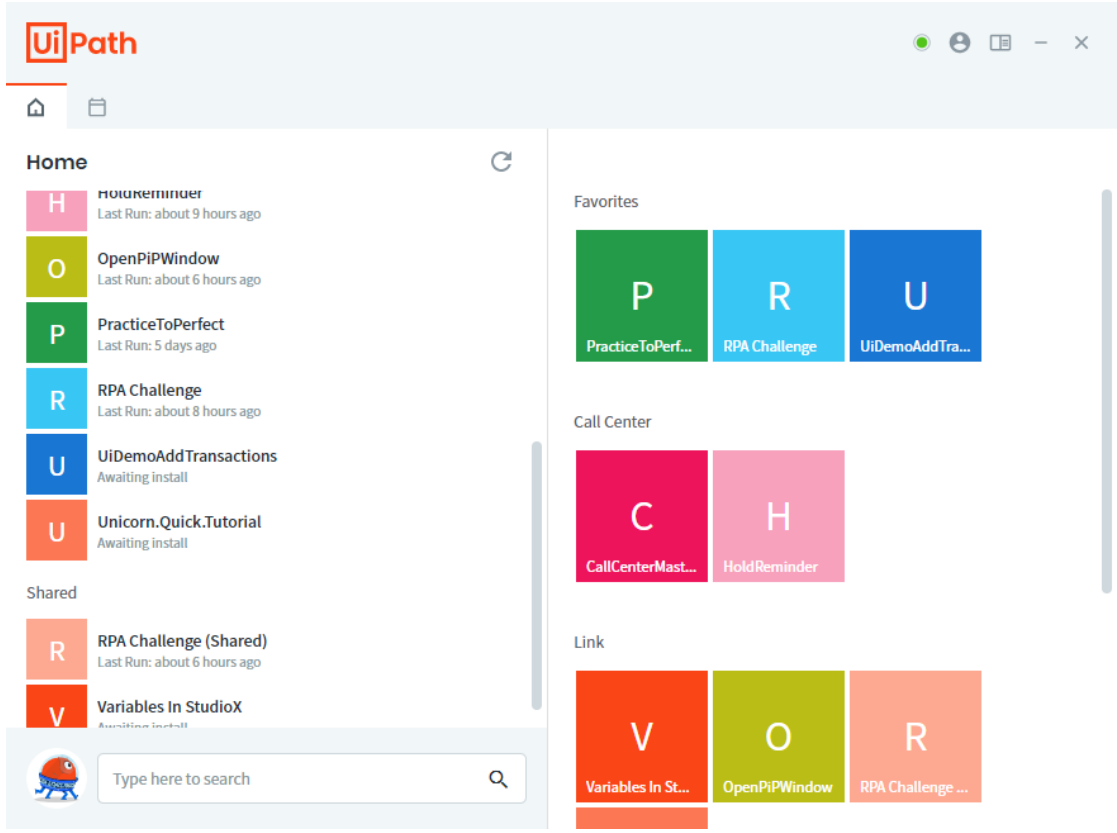
People and robots work together to automate complete processes

Embedded analytics give you deep insights into business metrics, not just robot metrics

What's new?

Robot & UiPath Assistant 20.10 Hero Features

- Log In and First Run Experience
- Always Running Processes
- Picture in Picture
- Launchpad in Assistant
- Group and organize automations
- Customized run
- Delete personal process
- Link Orchestrator to Robot Status



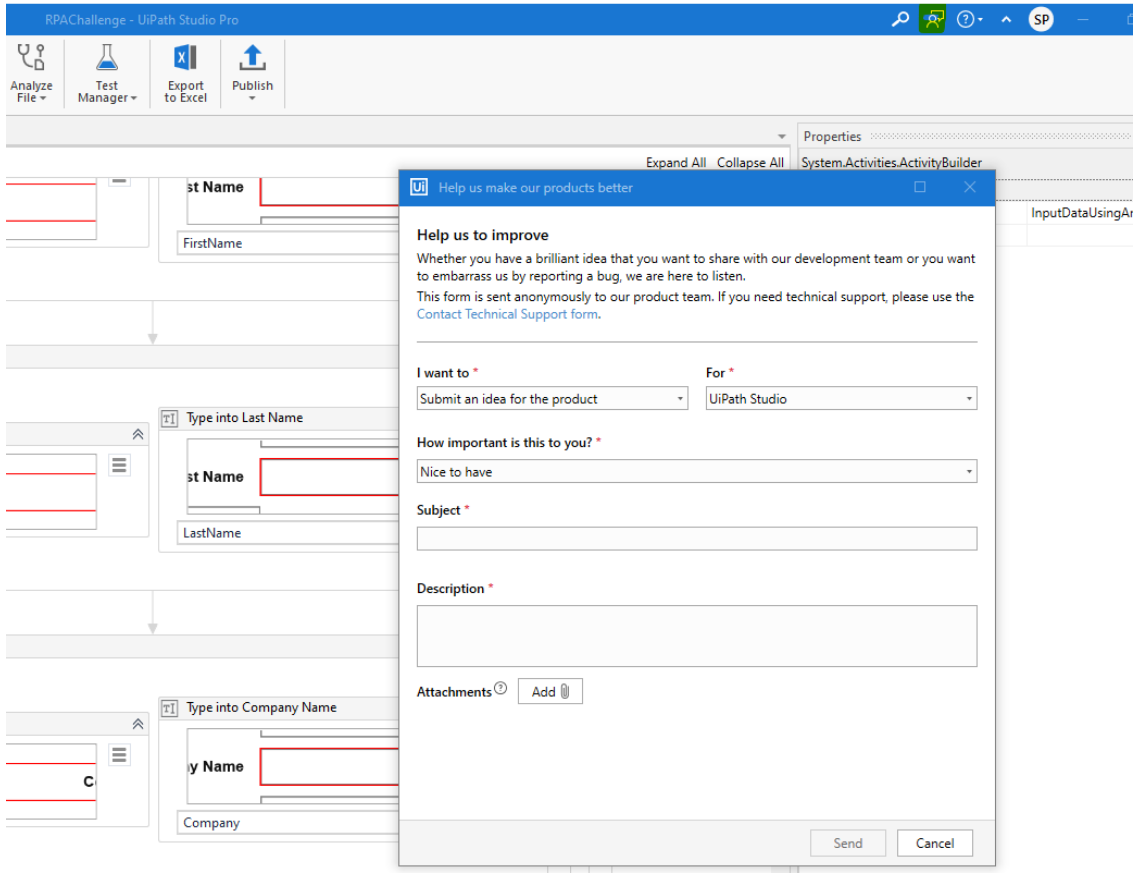
UiPath Assistant

How does it work? (demo)

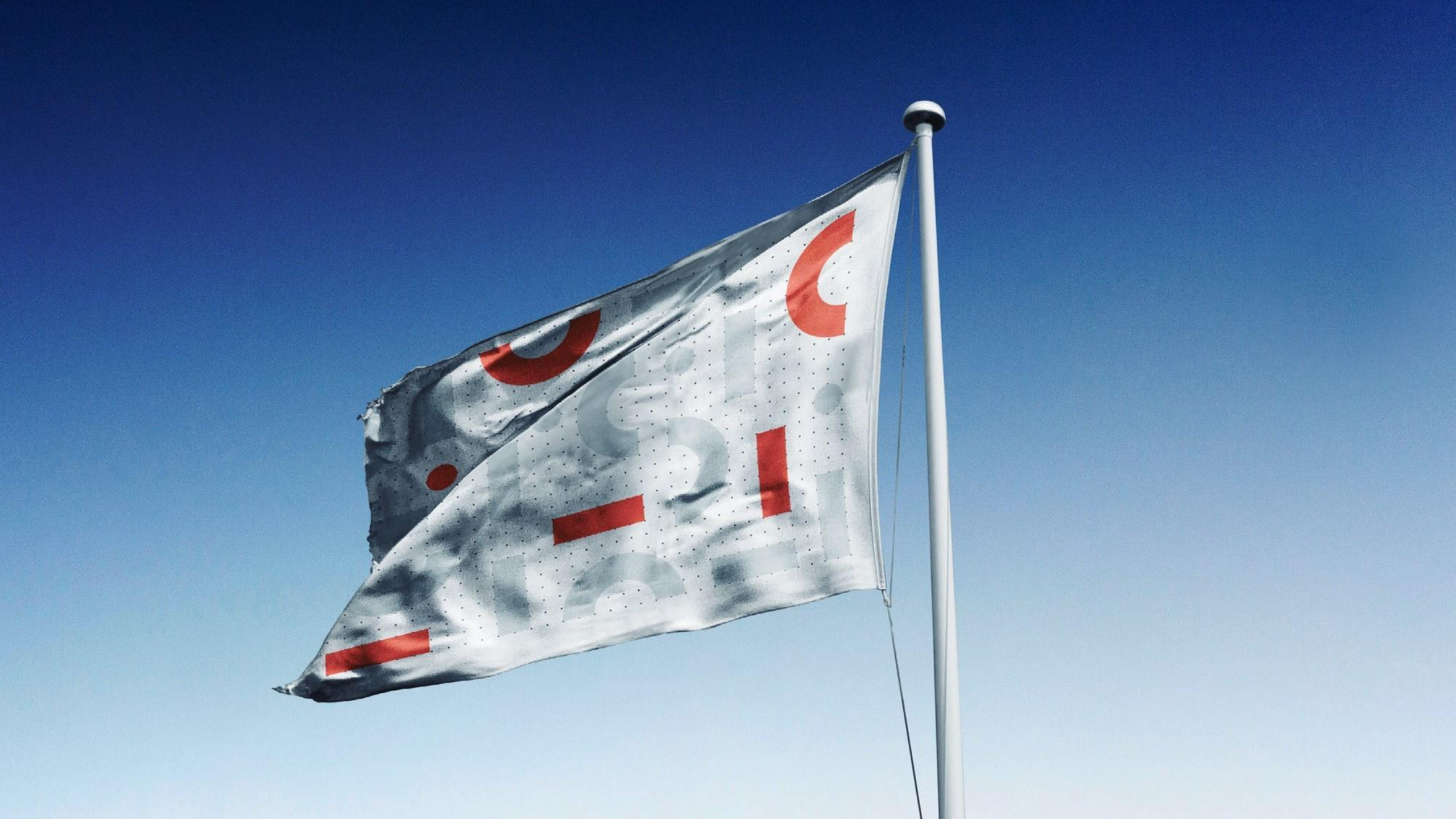
Additional Resources

- Release Notes
- **Documentation** - docs.uipath.com
  - Studio
  - StudioX
  - Robot & UiPath Assistant
  - System Activities
  - UIAutomation Activities
- **Learn more** about our products on Academy
- **Download** links
  - Community Edition, Preview
  - Community Edition, Stable
  - Enterprise Edition 20.10.2

- Product feedback



Q&A

StudioX / Studio / UIA / CV / System / Robots / Assistant

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