

## What's new in UiPath 2021.4

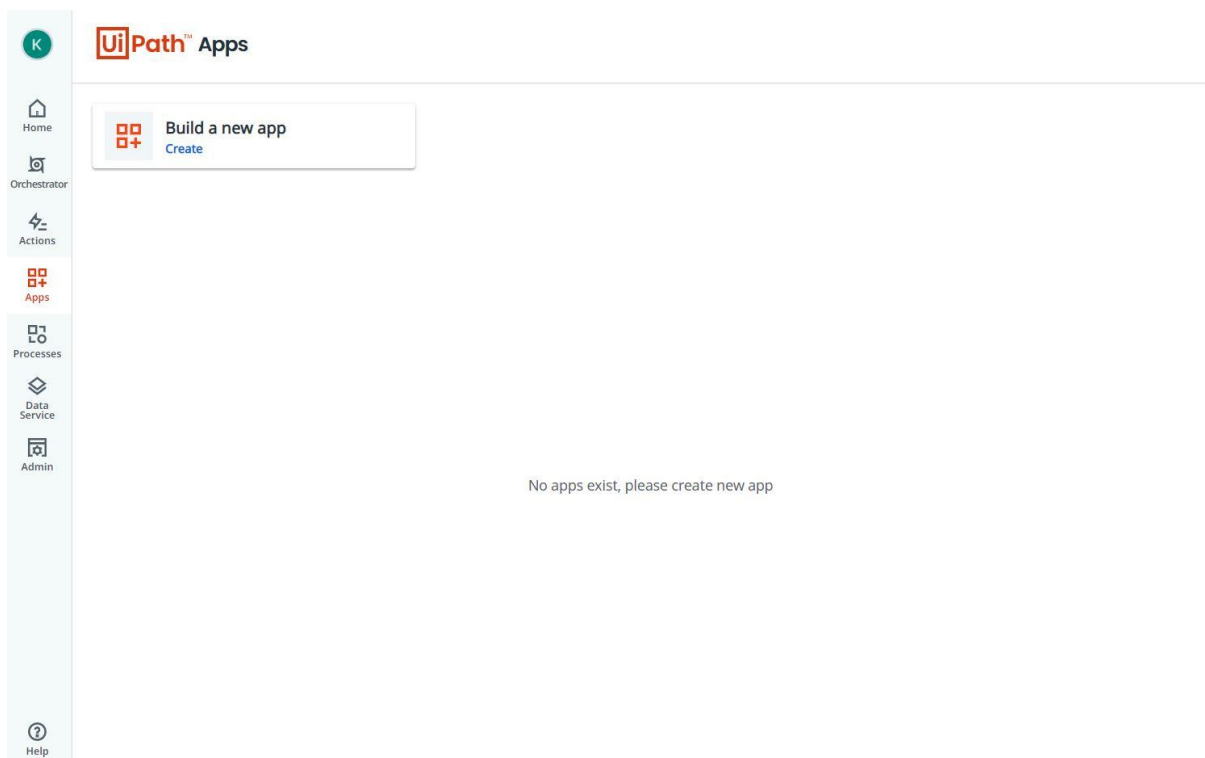


- ✓ UiPath Studio 2021.4 brings many new improvements with a new architecture based on .NET Core.
- ✓ All projects created with older versions of Studio are still supported at design and runtime with no additional needed changes.
- ✓ Community installer is now a 64-bit installer. 32bit processes will continue to run in 64bit deployments.

### **UiPath Apps :**

- UiPath Apps is a cloud-based low-code application development platform that enables you to build and share enterprise-grade custom apps that deliver engaging user experiences.

- Using UiPath apps, you can quickly build custom business applications that connect to data in any underlying cloud or on-premises system using the power of automation.
- Can be used for Human in Loop or used for a more visualized Attended Automation.
- Currently available in Cloud Orchestrator.



## UiPath Apps – Prerequisites :

- To run UiPath Apps, all end-users must be added to your Automation Cloud account and meet the following requirements in order to run attended/ unattended automation:

- Attended :- UiPath Robot with Javascript Add-in enabled. End users must have attended processes used in your app available on their Attended Robot.
- Unattended:- (One or more of the following)
- Cloud Orchestrator tenant containing your processes.
- Connect your on-prem orchestrator to UiPath apps service.
- All other requirements for Studio, Robot & Orchestrator apply.

### **UiPath Apps – Advantages :**

- More Visualized automation for attended mode of automation.
- Easy to use making the automation and user interaction more effective.
- Can be easily integrated with multiple processes and a full-fledged website or application can be created in very less time.

### **Continuous Improvements:**

- **Assign icons to processes and libraries:** during publish you can assign icons to your processes or libraries. Libraries icons will be visible in Manage Packages, processes icons are due to appear in Assistant with future iterations.

- **Enhance the error display:** if you click the error icon from the activity designer, the Properties Panel will be brought in focus and immediately display the error.
- **Support Test Activity and Run from Here for Scoped Activities:** if you need to validate activities on the go you don't need to include the parent scope anymore.
- **Pre-populate Capture Elements when started from Object Repository:** if you want to continue capturing the elements from a specific Screen or Application you can pre-populate the descriptors list in Capture Elements by starting from any Object Repository tree.
- **Refresh GIT remote branches:** we added the git fetch functionality for refreshing remote branches from Studio.
- **GIT in mass update tool:** GIT is now a possible source for Project Dependencies Mass Update tool and you can select any remote repository.
- **Undo/Redo buttons available.**
- **Remove Unused Resources:** we added a dedicated section in Design Toolbar with dedicated buttons for removal of unused resources like workflows, variables, arguments, dependencies, imports and screenshots.
- Notifications when a new version of Studio is installed.

## StudioX

StudioX 2021.4 bring many new improvements, especially to the capabilities available through our default activity set optimized for business users. Because StudioX is a profile of Studio, please review

the win7, backward compatibility and 64-bit information from the Studio section.



**Highlights include:**

- Create charts in Excel and add to Word and PowerPoint files.
- Open Excel, Word, and PowerPoint files from SharePoint.
- HTML Editor for creating rich emails for Gmail and Outlook 365.
- Adds Google Sheets, Drive, and Docs support, including UiPath provided app (no need to use your own Client Id and Client Secret).
- Shared Mailbox support for Outlook Desktop and Outlook 365.

## Excel:

A lot of exciting improvements to StudioX's Excel Business activities. To access the new functionality covered below, upgrade the UiPath.Excel.Activities package to the latest prerelease.

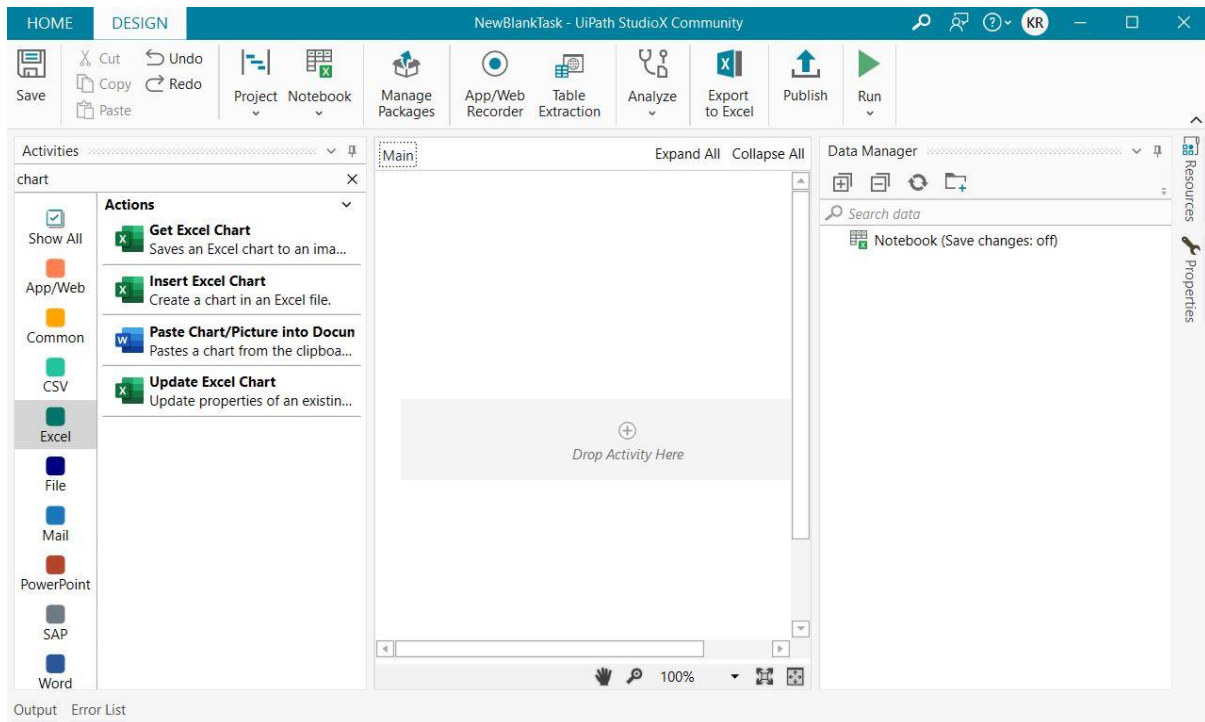
### Creating and Copying Charts

This release introduces the following new activities for working with Charts in Excel.

**Insert Excel Chart:** We now have the ability to create charts in your automations. You can choose the chart type, Data range, and where it is inserted.

**Update Excel Chart:** New activity that gives the ability to update properties of an Excel chart including the data range, show/hide the title, labels, etc.

**Get Excel Chart:** Once you're created a chart, a common scenario is to move this into another document such as a Word or PowerPoint file. The way to do this is to use the "Copy Chart to Clipboard" activity and then use a corresponding paste activity for Word or PowerPoint (see below for details on those). You also have the option to save the chart as a picture file.

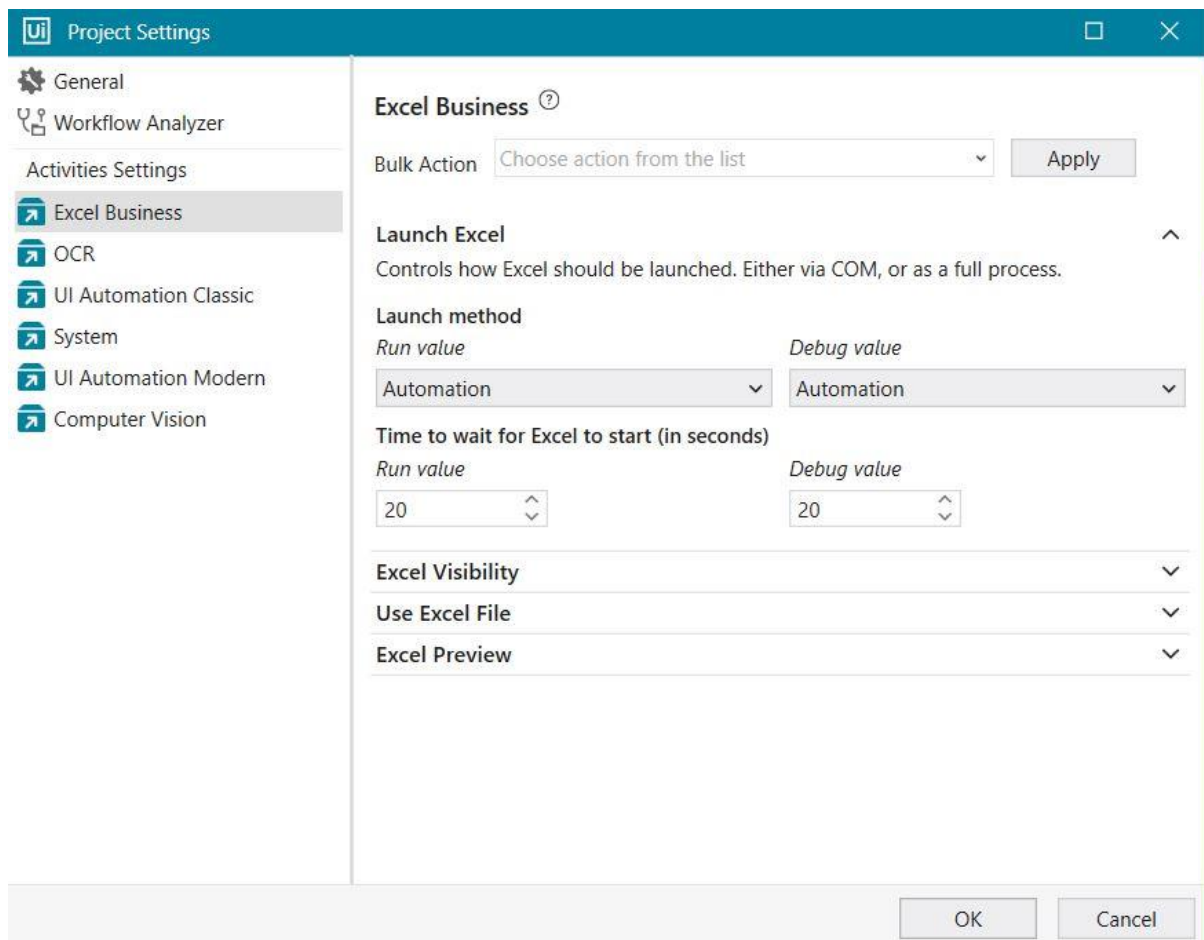


## Project Settings for Excel:

Under Project Settings, you'll now see an "Excel Business" category. This brings some options for how Excel will behave.

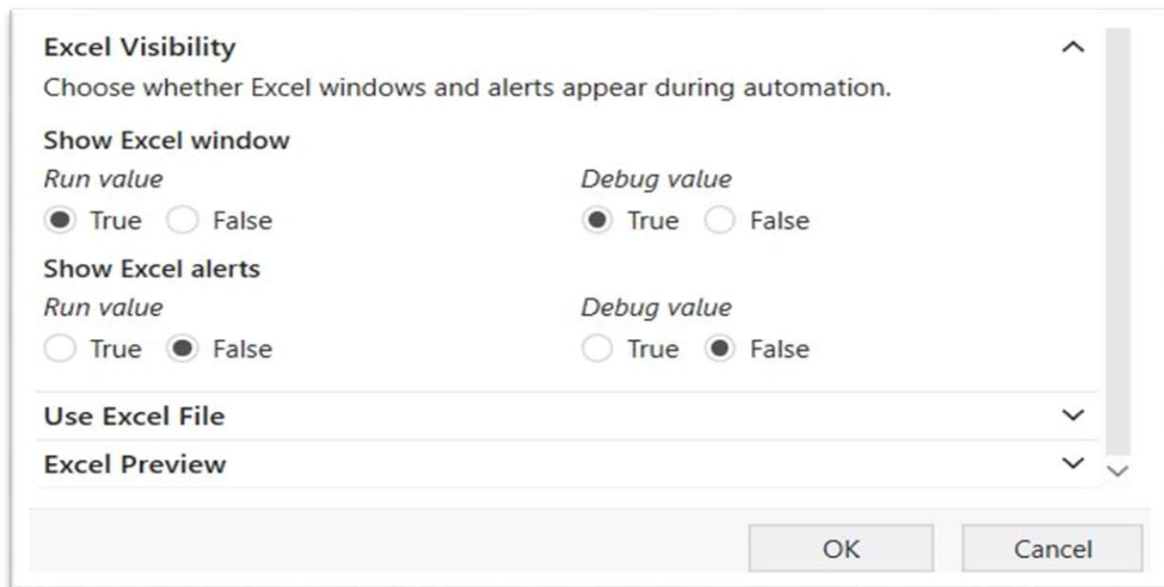
**Launch Excel:** Normally when Excel starts for automation, it does not load all Add-ins. In most cases this is not a problem and helps Excel start more quickly. However, in some cases an Add-in may be required for the automation to run correctly. Changing the "Run value" for the "Launch method" to "Application" will cause Excel to start such that all Add-ins load.

**Excel Visibility:** Adds two settings that control what you see (or don't see):



- **Show Excel window:** A common request has been “how can I run automations using Excel but keep Excel hidden”. This is now possible by setting the “Show Excel Window” value to “False”.
- **Show Excel alerts:** Controls whether Excel will show any alerts when being controlled by an automation. By default all alerts are now suppressed, but if you are expecting an alert dialog from Excel that you would like to see, changing this to “True” will allow Excel to show the alert.



The image shows a dialog box titled "Excel Visibility". It contains instructions: "Choose whether Excel windows and alerts appear during automation." There are two sections: "Show Excel window" and "Show Excel alerts". Each section has "Run value" and "Debug value" options, each with "True" and "False" radio buttons. In "Show Excel window", both "True" buttons are selected. In "Show Excel alerts", the "False" button is selected for both "Run value" and "Debug value". Below these are expandable sections for "Use Excel File" and "Excel Preview". At the bottom are "OK" and "Cancel" buttons.

**Excel Visibility**

Choose whether Excel windows and alerts appear during automation.

**Show Excel window**

*Run value* ☒ True ☐ False *Debug value* ☒ True ☐ False

**Show Excel alerts**

*Run value* ☐ True ☒ False *Debug value* ☐ True ☒ False

**Use Excel File** ⌵

**Excel Preview** ⌵

OK Cancel

**Use Excel File:** This region is where you'll be able to set options for the "Use Excel File" activity. This release introduces a single option that controls the format data is returned from Excel to your automation. Because of different regional settings, Excel can return values to your automation that are not formatted the same as what you see when you open the file in Excel. The "Read formatting" option gives you the ability to Explicitly choose what format values should be returned to your automation:

- Default: Keeps the current behavior
- RawValue: Returns the raw value with no formatting applied
- DisplayValue: Returns the value as it appears to you when you open Excel. The one important thing to note about DisplayValue is, if the value is truncated in Excel (e.g. for dates if the column isn't wide enough to display the full value, it will appear as #####. In this case, DisplayValue will return the

#####). To help with this, we added the “Auto Fit” activity covered below.

#### Use Excel File



Open or create an Excel file to use in your automation.

#### Read formatting

Run value

Debug value

Default



Default



**Excel preview:** When you browse the contents of an Excel file, Range, or Row StudioX currently processes the .xlsx file itself. This brings some limitations including the restriction only being able to preview the contents of .xlsx files, and the inability to preview contents of files on SharePoint or DRM’d using an Excel add-in. To improve this, we are now offering the option to use Excel directly to preview file contents. There are three options currently available:

- **Default:** Tries to choose the best method between UseXmlFile and UseExcelInstance automatically.
- **UseXmlFile:** This is the current behavior with the limitations mentioned above
- **UseExcelInstance:** This is the new functionality to use Excel. It should enable previewing all file types, and the contents of files opened using URLs from sources such as SharePoint, Teams,

and OneDrive. If the preview is too slow to load, opening the file in Excel will greatly speed it up, as StudioX will find the already opened file.

### Excel Preview

Choose whether to use Excel or to read the file directly when previewing information in designer.

#### Excel preview type

*Run value*

*Debug value*

Default



Default



## Word:

To access the new functionality covered below, upgrade the UiPath.Word.Activities package to the latest prerelease.

This release brings the following improvements to the Word activities

**Use Word File:** You can now open and modify files from remote locations (e.g. SharePoint/Teams) using a URL for the “Word file” value.

**Note:** Currently this only supports opening existing files, you can’t create new files on a remote location using a URL path.

**Paste Chart into Document:** A new activity that pairs with the “Copy Chart to Clipboard” activity in Excel to add the chart placed on the clipboard to your Word file including the format in which it will be pasted (Embed workbook, Link workbook, or as a Picture).

**Add Hyperlink to Document:** A new activity that gives you the ability to insert a hyperlink into a Word document including specifying the URL and displayed text.

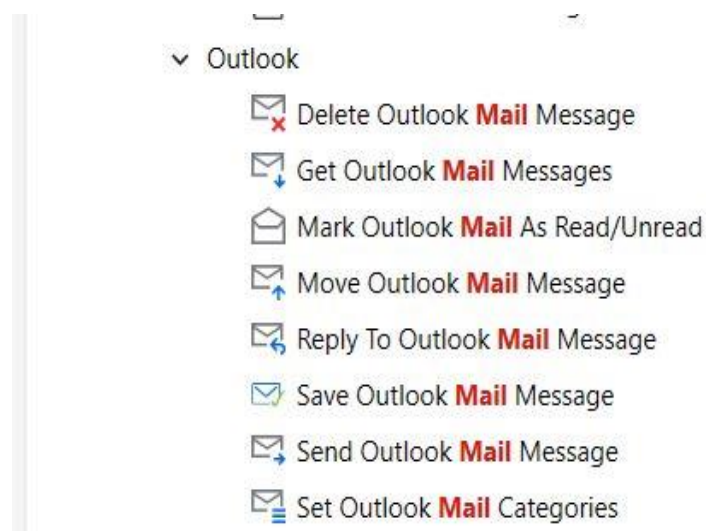
## Mail:

### New activities

**Set Outlook Mail Categories :** Associates categories with a mail message.

**Mark Outlook Mail As Read/Unread :** Marks the specified mail message as read or unread.

**Delete Outlook Mail Message :** Deletes a mail message.



## **Improvements**

### **Send Outlook Mail Message :**

- The user can specify the importance and sensitivity of a mail message.
- The user can set specific mail addresses to have replies sent to.

### **Get Outlook Mail Messages:**

- The possibility to order mail messages by date, newest first or oldest first.
- Filter by message ids.
- The documentation of this activity has been extended with many examples of filter expressions.

### **Get Exchange Mail Messages:**

- The possibility to order mail messages by date, newest first or oldest first.
- Filtering capabilities, by filter expression and by messages ids. The filter expression can be used starting with Exchange Server 2010 version. Filtering by message ids is supported starting with Exchange Server 2013.

### **Send SMTP Mail Message:**

- The user can set specific mail addresses to have replies sent to.

## **Save Attachments:**

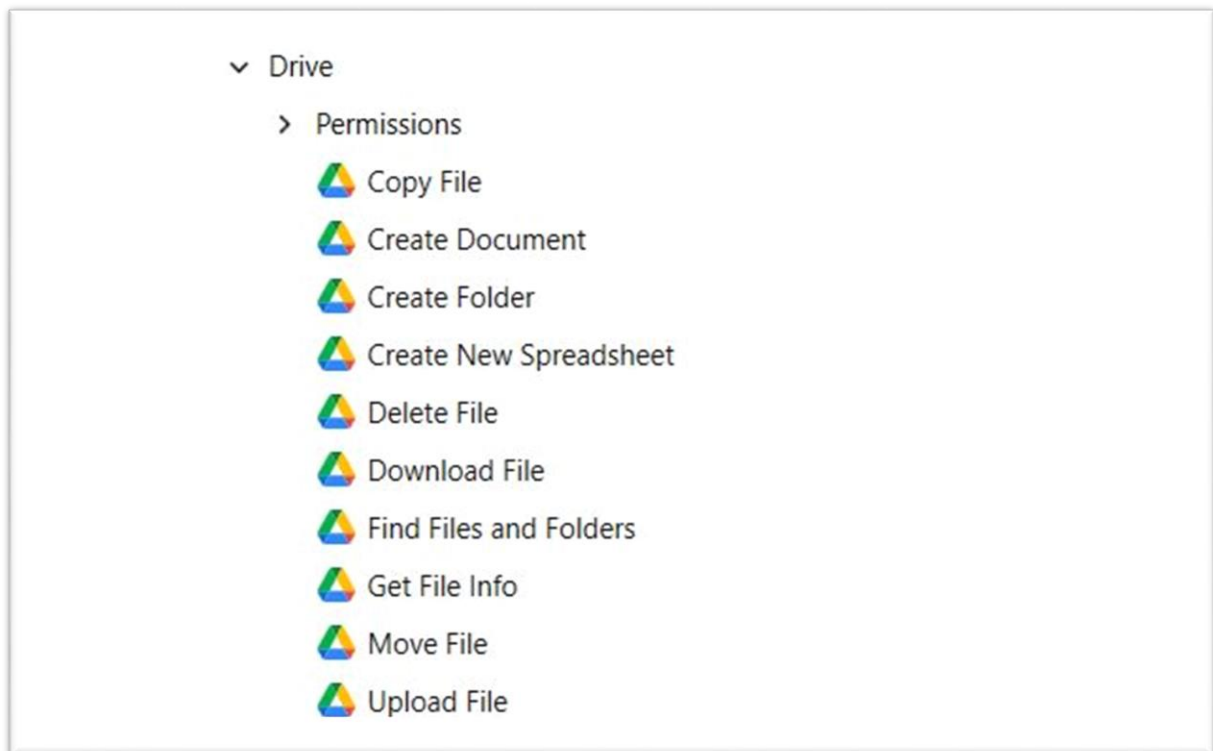
- The user can specify whether to overwrite an existing file having the same name as the attached file.

**Get Outlook Mail Messages , Get Exchange Mail Messages , and Get IMAP Mail Messages** activities return calendar invites and non-delivery reports (NDR) items too.

- **All mail activities** accept SecureString as input for the password, i.e., they got a new field called SecurePassword in addition to the existing Password field.

## **Google Drive**

- **Use Google Drive:** This activity lets you connect to all Google drive resources associated with your chosen account.
- **Updated activities:** The package includes updates to the following existing G Suite activities which are now optimized to work inside the “Use Google Drive” activity. Copy File, Create File Permission (enables sharing files), Create Folder, Create New Spreadsheet, Delete File, Download File, Move File, and Upload File.



## Other Activity Improvements

- **Modify Date:** Gives you the ability to modify dates to find other relative dates. Examples include “Find the next Monday”, “Find one month from today”, or “Find the first day of the month”. If you are using StudioX 21.2 you will also have an option for “Today” that will get the current day whenever the automation is run.
- **Get Username/Password:** You can now retrieve credential assets from Orchestrator using the “Get Username/Password” activity in StudioX by setting the “Credentials source” property to “Orchestrator”
- **Generate DataTable from Text:** Enables you to build a DataTable from text. This is useful when you need to convert structured text

data (e.g. tab separated, fixed width fields, etc.) into a table to either work with directly or write to another source such as Excel or Google Sheets.

- **Work with Data Tables directly in StudioX:** This has been a common request and is important functionality for working with Google Sheets. This release adds the following activities to StudioX:
- **For Each Row in DataTable:** Enables you to process each row in a DataTable.
- **Read Row Item:** Enables you to read the value from a cell in a DataTable row.

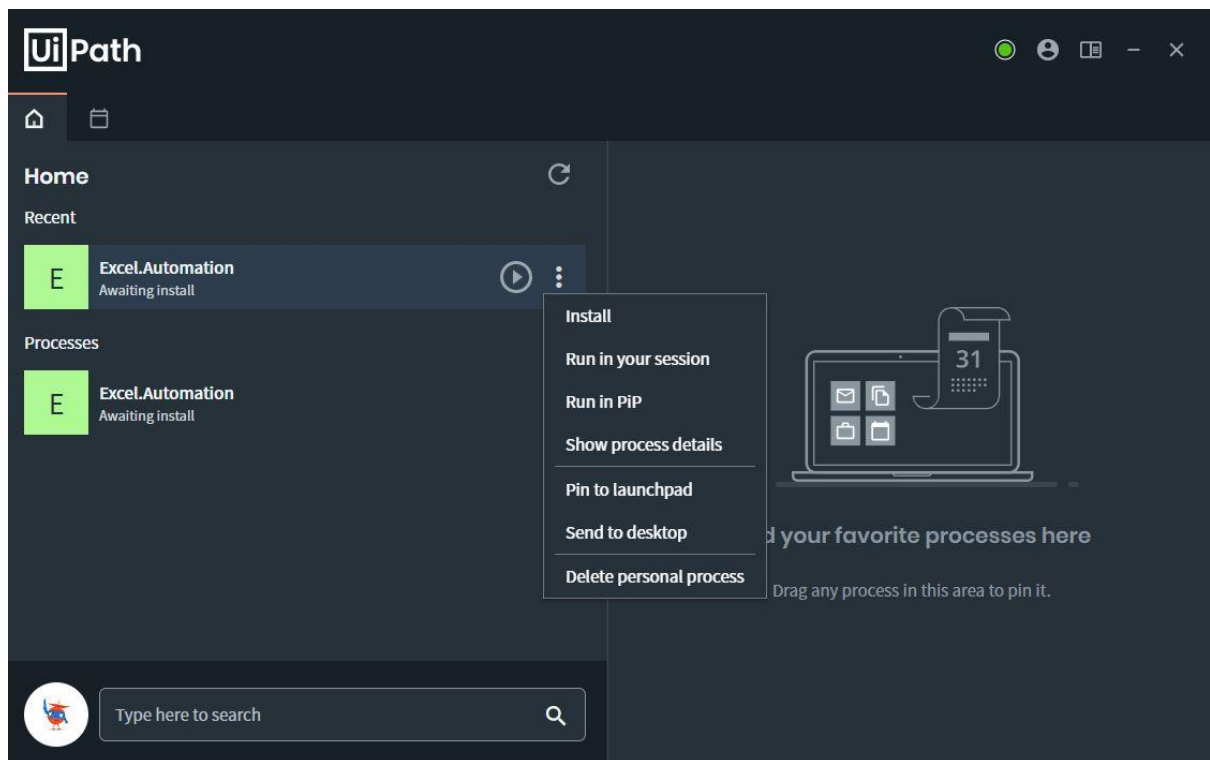
## **Assistant:**

- **Send to desktop**

From now on, you can bring your processes everywhere in Windows. You go into the process' contextual menu and you press "Send to desktop". This creates a shortcut on your desktop that you can use in order to start the process.

- **Drag & drop processes into Launchpad**
- **Set up shortcuts from the process details**



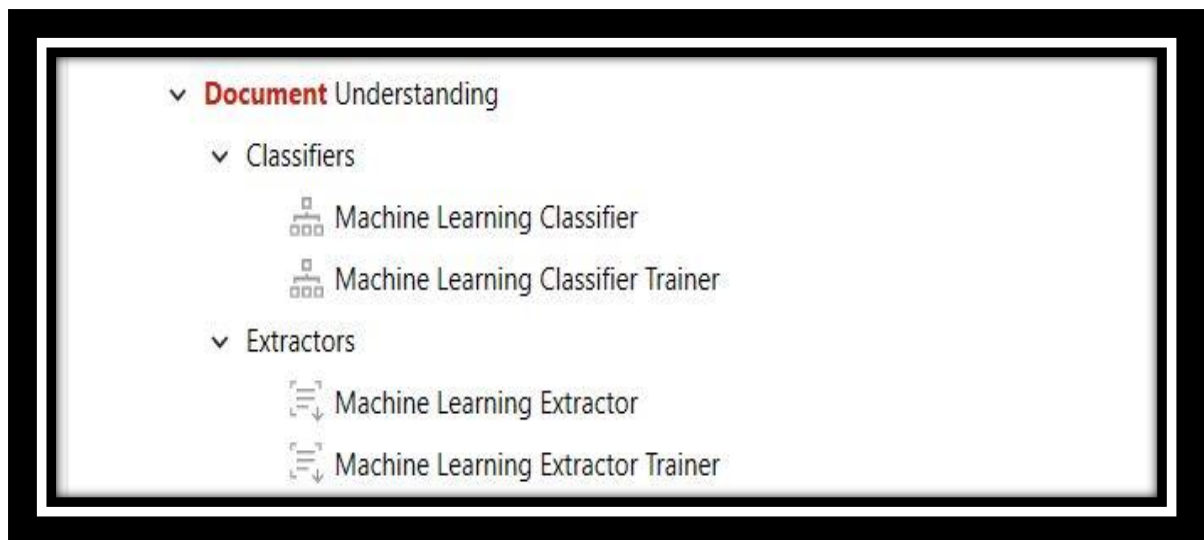


## System Activities

Activities that include notifications are brought in the foreground and have focus set on them.

## Document Understanding Activities

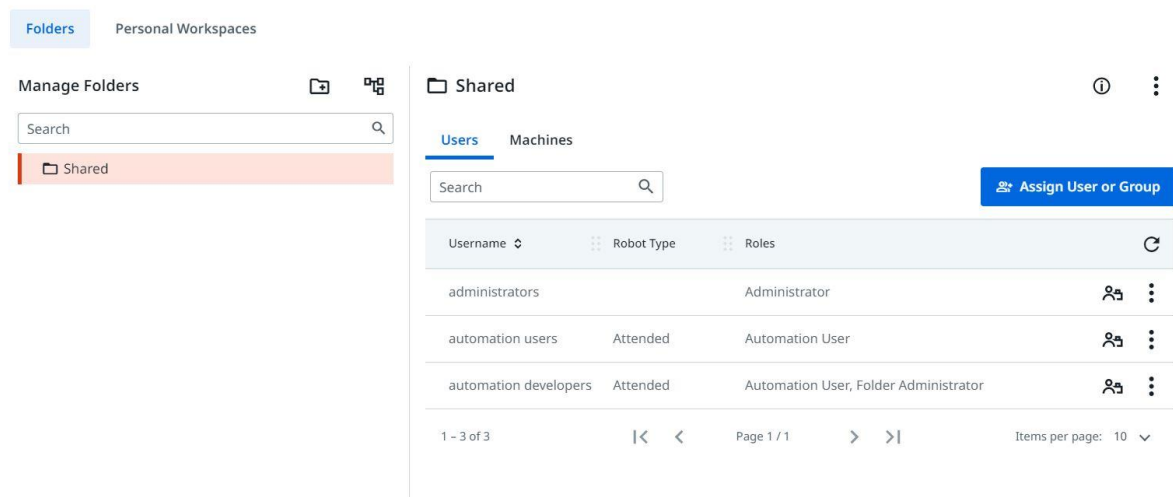
A long list of improvements have been added to the Document Understanding activities, since the last Stable Release.



## Orchestrator:

### Creation of robots in Modern Folder:

- Robots in modern folders run under a user profile, meaning robots always run in the context of certain user identities.
- We don't have environment in this folder all that is present is defined by the user present in the folder
- Easy to access and allocate license.
- Modern Folders are available for the Orchestrator v19.10.1 or higher.



## Advantages of Modern Folder:

- Easy to assign License between user
- Registering machines is no longer required. Simply register User and use the user as per the requirement
- Easy to maintain access as we can assign the user in a group and allocate the group access.
- Easy to pass assets and implement multi-node entry point added recently in UiPath Studio.

*Thank You*