



Chapter 7: RPA (Robotic Process Automation) with BIZUIT

In this chapter, we explore in depth how Robotic Process Automation (RPA) integrates with BIZUIT to transform the management of our business processes.

We'll cover everything from the fundamentals of RPA to its practical application, using leading tools like UiPath and Power Automate, which allow us to automate repetitive, rule-based tasks. This automation not only frees us from manual tasks, but also enables us to focus on strategic and higher value-added activities.

Throughout the chapter, we will analyze specific cases in which RPA is combined with BIZUIT's process design and orchestration capacity, achieving a synergy that optimizes both operational efficiency and the traceability of our actions.

In addition, we will explore how, thanks to the flexibility of BIZUIT and its pre-designed activities, we can integrate various RPA platforms, adapting to the specific needs of each organization without limiting ourselves to a single tool.

This strategic integration between RPA and BPM allows us to design, execute, and monitor processes in a comprehensive, scalable, and adaptable way, driving our digital transformation and opening up new opportunities to innovate in the way we operate.

We'll discover step-by-step how to set up and implement these solutions, setting the stage for automation that will revolutionize our business operations.

Ideal Audience

This chapter is designed for software developers looking to optimize BIZUIT to meet specific integration needs, as well as for integration specialists and technology architects interested in designing BPM solutions with BIZUIT in corporate projects.

Objectives

1. Understanding Robotic Process Automation (RPA): Discover the key concepts of RPA and how it impacts business efficiency.
2. Learn the basics of UiPath and Power Automate: Familiarize yourself with the main RPA tools and their applications in automated processes.



3. Create and publish automated processes: Learn how to develop and deploy RPA processes using market-leading tools.
4. Integrate RPA with Business Process Automation (BPM) in BIZUIT: Learn how to combine RPA and BPM in BIZUIT to streamline and coordinate your business workflows.



Unit 1: Introduction to RPA

In this unit we explore how automation is transforming the management of our operations through Robotic Process Automation (RPA). We understand RPA as a technology that uses software to replicate repetitive and rule-based tasks, simulating human interactions in digital environments.

These "robots" are not physical machines, but programs that work quickly, accurately, and consistently with applications, databases, and documents, freeing us from routine activities such as data entry, reconciling information, or generating reports. With RPA, we can operate uninterruptedly 24 hours a day, adapting to demand and improving our productivity without altering the technological infrastructure we already have.

In addition, in the framework of business process management (BPM), we see RPA and BPM working hand in hand to create more robust and efficient solutions. While BPM helps us strategically structure and optimize our processes, RPA focuses on automating one-off tasks within those processes. In this way, we can integrate RPA without replacing our current systems, connecting applications, extracting data and executing commands on external systems without the need for manual intervention.

For example, using an RPA robot, we can access various applications, copy and paste information between systems, manipulate files, and retrieve emails, ensuring that our decisions are based on accurate and up-to-date data.

These capabilities allow us to free our team from monotonous tasks and dedicate our time to more value-added tasks, such as strategic analysis and decision-making. Thus, by implementing RPA, we optimize our processes, reduce errors and boost efficiency in all our operations.

The Connection of RPA and BIZUIT

This is where we incorporate BIZUIT, an integrated ecosystem that maximizes RPA capabilities. With BIZUIT, we have the ability to connect with leading RPA tools like BluePrism, UiPath, and Power Automate, allowing us to bring the power of automation directly into our work environment.



This integration enables us to design and manage complex business processes, while seamlessly and efficiently automating repetitive and tedious tasks.

Let's imagine a scenario in which BIZUIT workflows, created to optimize process management, are integrated with RPA robots that execute automated tasks in those flows.

For example, in an invoice approval process set up in BIZUIT, RPA robots can take care of verifying data across multiple systems, consolidating information, and automatically uploading results into the flow, allowing us a seamless transition between human and automated activities to maximize efficiency.

The Power of Synergy

The real strength comes when we combine the capabilities of both technologies. BIZUIT acts as the strategic brain, taking care of designing, structuring and orchestrating our complex business processes.

On the other hand, RPA works like the executing arms, carrying out specific tasks with the speed and precision we need. By integrating with tools such as UiPath, BluePrism or Power Automate, we not only automate individual tasks, but also operate with a global and coordinated view.

A concrete example of this synergy is that, from BIZUIT, we can supervise and manage complete processes that integrate RPA robots at key points. We set up rules that activate robots at specific moments in the flow, which collect information, perform validations, or even execute massive processes autonomously.

All this is visualized and managed from BIZUIT's intuitive environment, offering us traceability, control and efficiency in one place.

Advantages of Integrating RPA with BIZUIT:

- **Extreme Automation:** With BIZUIT, the power of RPA expands by integrating directly into workflows designed to solve real business challenges.
- **Scalability Without Limits:** BIZUIT allows us to manage processes that combine human and automated tasks, scaling our operations according to business needs.
- **Simplicity in Management:** The entire process, including RPA robots, is managed and monitored from a unified environment, simplifying the operation.

- **Cost and Time Reduction:** The union of BIZUIT and RPA eliminates redundant manual steps, streamlining processes and significantly reducing our operating costs.
- **Flexibility and Adaptability:** Integration with tools such as Power Automate or UiPath allows us to customize solutions according to our specific needs.

Practical Use Case

Let's imagine a logistics company in charge of coordinating the shipment of goods to various destinations.

We manage the overall process using a BPM system that orchestrates the creation of delivery orders, cost approval, and route scheduling.

However, we find ourselves with a repetitive stage that involves:

- Download orders that arrive as email attachments.
- Verify data in an external web system, such as our transport provider's database.
- Manually enter the validated information in the internal form to generate the dispatch guide.

With RPA, a robot can automatically take care of:

- Search for new emails with orders attached and download the files.
- Access the supplier's web platform to compare and validate the information.
- Confirm the address and delivery date, and upload the correct data to our internal form.

Ejemplo RPA



In this way, we avoid our team performing repetitive copying and validation tasks, allowing us to concentrate our efforts on incident management or strategic route planning.



The synergy between BPM, which manages the entire process flow, and RPA, which automates specific tasks, increases our efficiency without having to replace our existing systems or completely redesign our technology infrastructure.

Conclusion

RPA integration with BIZUIT elevates business automation to a new level. Through BIZUIT, we not only design and manage complex business processes, but also incorporate the power of tools such as BluePrism, UiPath, and Power Automate.

This allows us to speed up our processes, reduce costs, and have a unified environment to manage both human and automated tasks.

With BIZUIT, we transform the way we operate, combining the best of process design with the efficiency and precision of RPA.

It is a powerful, versatile and adaptable solution that ensures that we are prepared to successfully meet the challenges of digital transformation.

RPA complements the BPM approach, working together to comprehensively optimize our business processes, maximizing productivity and improving the experience of all our users.

Unit 2: RPA in BIZUIT with UiPath

UiPath is one of the most prominent platforms in the world of Robotic Process Automation (RPA). We can use UiPath to automate repetitive, rule-based tasks, freeing our team from manual activities such as data entry, verifying information, or generating reports.

This allows our employees to focus on strategic and creative tasks.

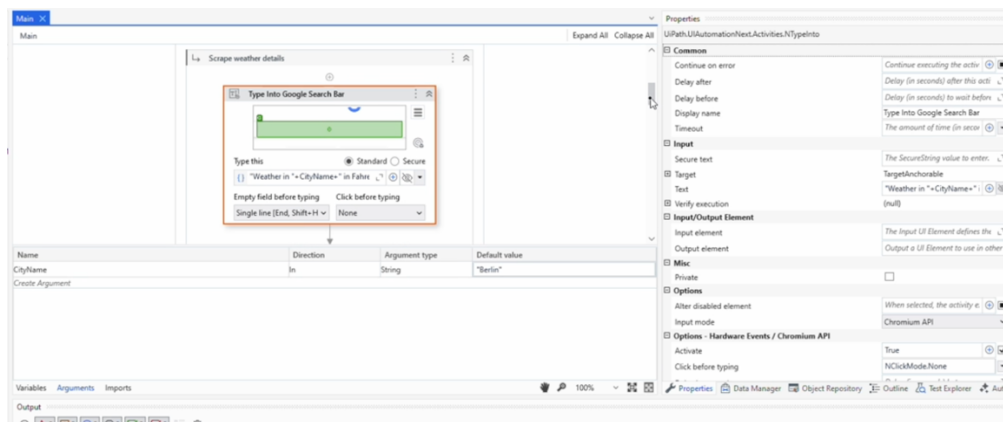
Among the tools that stand out in UiPath are its graphical flow designer and the ability to record on-screen interactions, which simplifies the creation of automated robots using an intuitive drag-and-drop mechanism.

In addition, we appreciate the versatility of UiPath, as it integrates seamlessly with a wide variety of applications, ERP systems, CRMs, and cloud services such as Microsoft Office 365, SAP, and Salesforce, among others. This allows us to interface with almost any system we already use, without the need to modify our current infrastructure.

How to integrate a UiPath RPA process with BIZUIT

The integration of BIZUIT with UiPath allows us to combine the power of the business processes designed in BIZUIT with the automation offered by UiPath's robots. Below, we describe the process of setting up and running a UiPath process from BIZUIT.

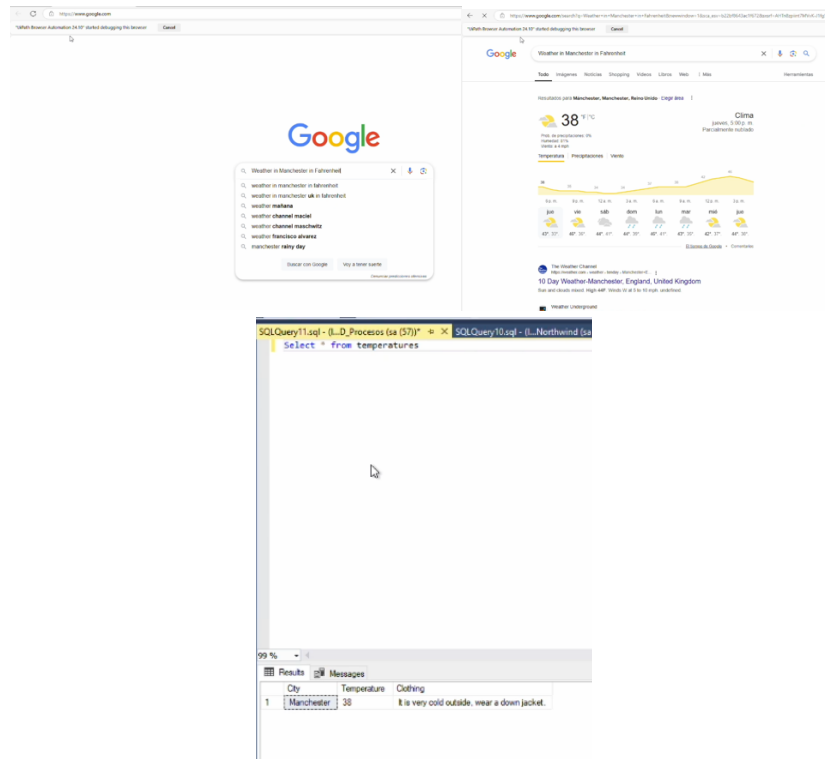
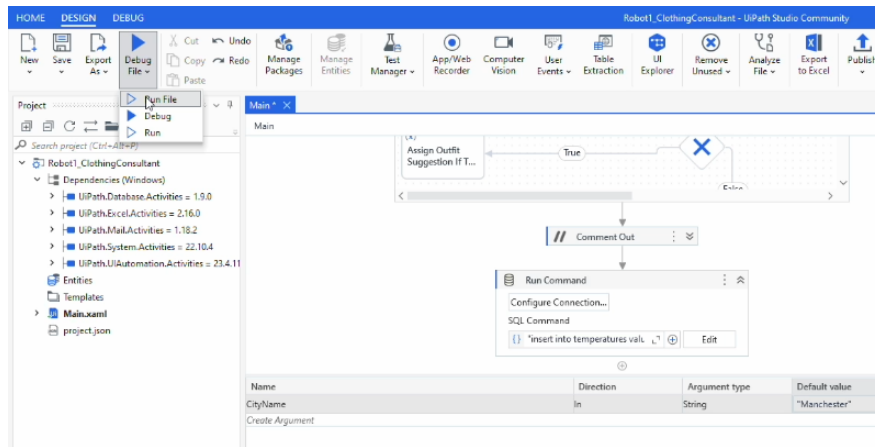
For the demonstration, we use a UiPath process that is given a city name as an argument. This process opens an internet browser, navigates to Google, and searches for the weather in the right city.



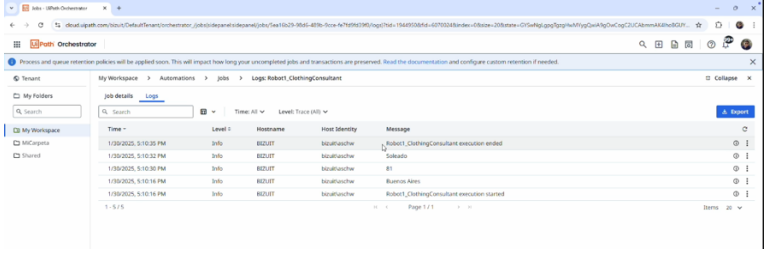
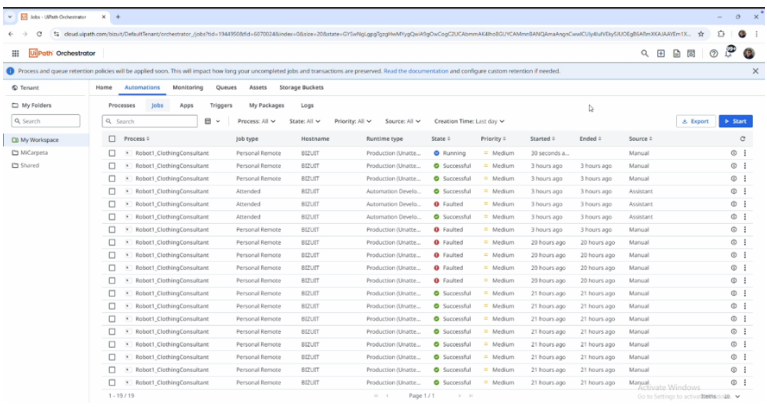
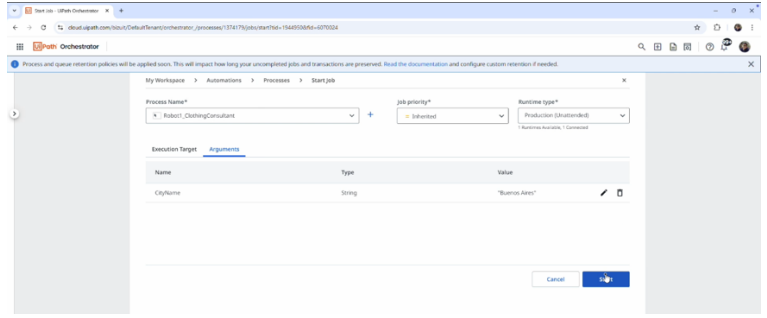
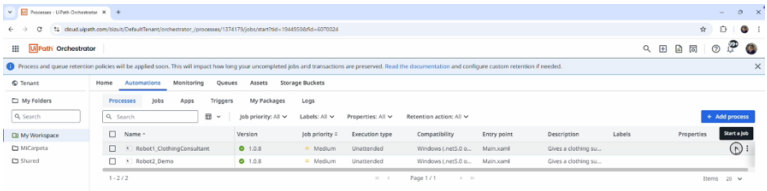
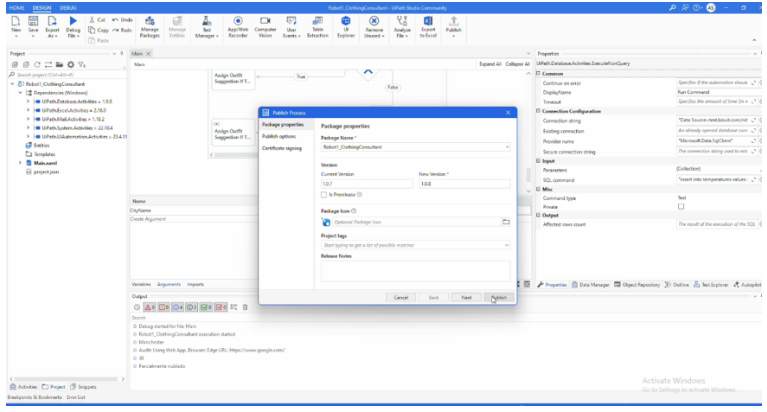
It then extracts the temperature and weather data, evaluates various conditions, and suggests the right type of clothing for a trip to that city. Finally, it stores this information in a SQL Server table.

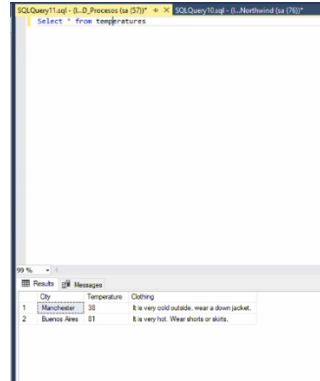


We assign a new value to the argument and, by clicking on "Run File", we can observe the correct execution of the process.

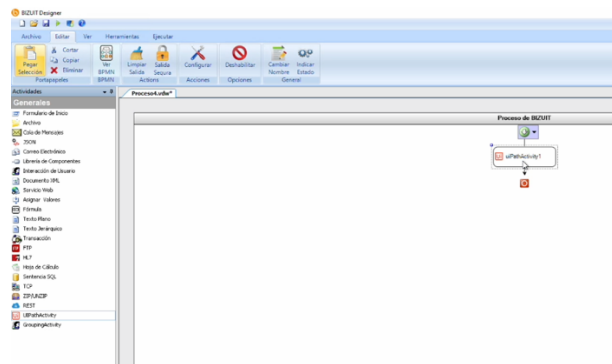


Once its operation has been verified, we proceed to publish it on the UiPath Orchestrator server, from where we can execute it and review the logs of each execution.



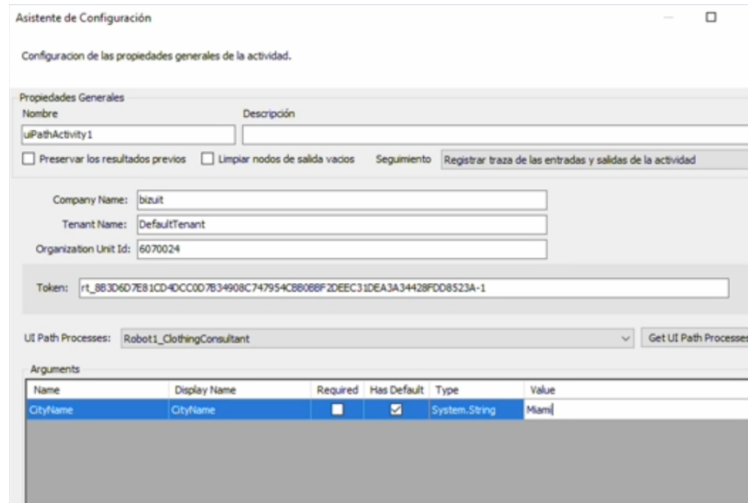


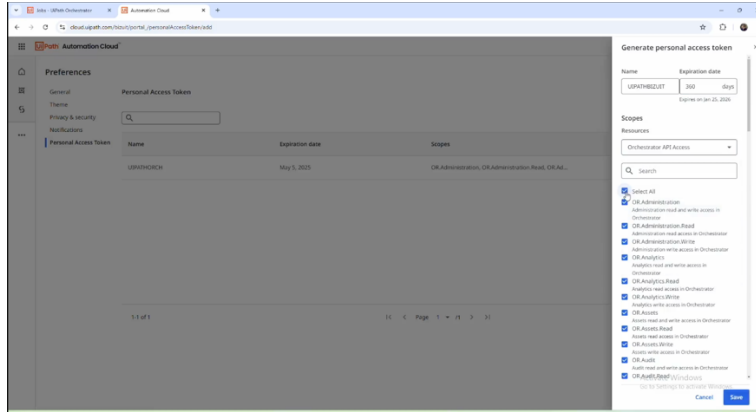
We then set up the execution of this UiPath process within a BIZUIT process. We use the "UIPath" activity:



When we double-click, we are asked for the connection data: CompanyName, TenantName and OrganizationUnitId, information that we obtain from our UiPath implementation.

In addition, we are asked for a Personal Access Token, which we create from our UiPath portal.



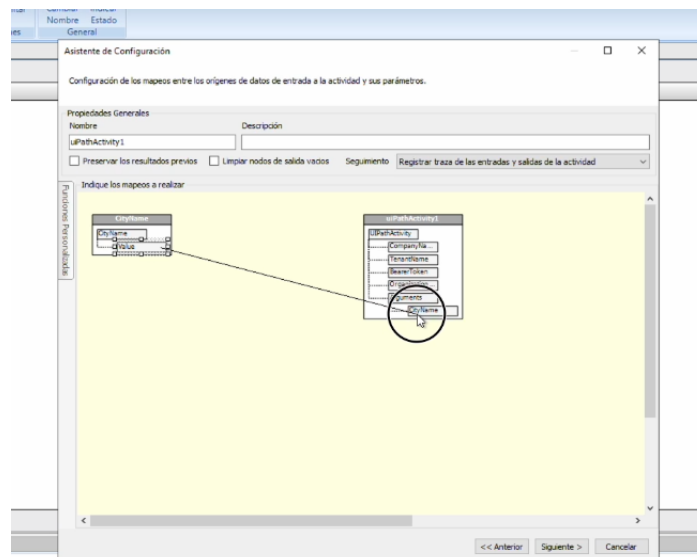


When entering this data, we click on "Get UiPath Process" and the system loads the combo with the published processes that we can invoke from BIZUIT.

When selecting a process, we are asked for the arguments that the UiPath process expects; we enter them and test them using the "Test" button.

Subsequently, we access our UiPath Orchestrator portal, where we verify that the process starts and, after a while, completes satisfactorily, leaving a record in our SQL Server table.

Finally, we map a parameter of our process in BIZUIT that contains the city to be consulted towards the argument(s) expected by the UiPath process and execute our BIZUIT process as usual.





Again, we verify in UiPath Orchestrator that the process starts and ends successfully, inserting the corresponding record into the database.

Conclusion

The integration of UiPath into BIZUIT allows us to maximize the automation of our business processes, leveraging the advanced capabilities of both systems.

From BIZUIT, we can invoke UiPath robots in complex flows, combining human and automated tasks and maintaining centralized control of our entire operation.

With this configuration, our company is equipped to meet the challenges of digital transformation, optimizing processes and boosting efficiency in each of our areas.

Unit 3: RPA in BIZUIT with Power Automate

Power Automate Desktop is part of the Microsoft Power Platform family of solutions specifically geared toward automating local tasks on Windows.

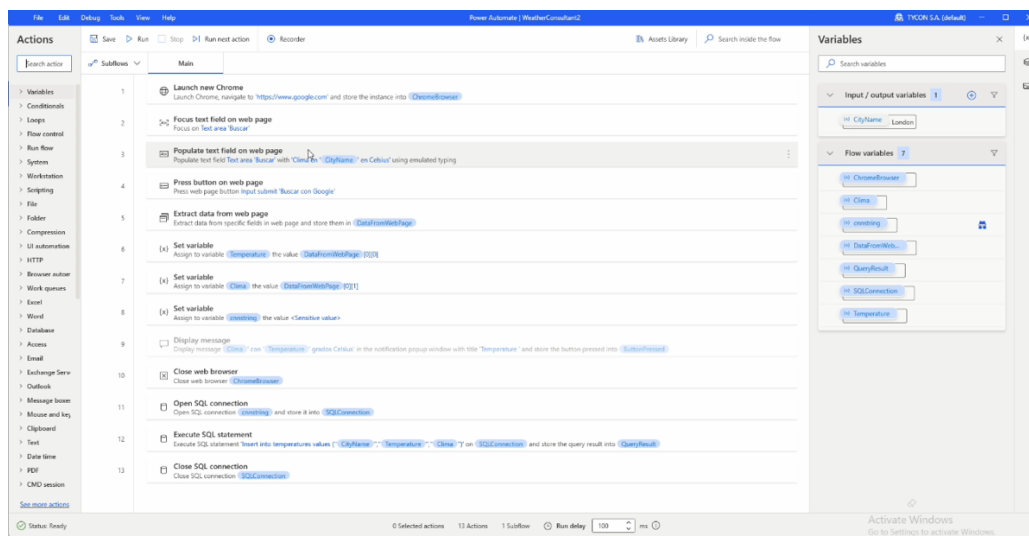
We can use Power Automate Desktop to record and replay interactions on desktop applications, websites, and even mainframe terminals, all from our computers.

The idea is simple: automate repetitive day-to-day tasks (such as filling out forms, extracting data from files, or copying information between systems) to avoid doing them manually. Thanks to its graphical environment, it is possible to design flows by dragging and dropping actions, without the need for extensive programming knowledge.

Also, as we saw with UiPath, BIZUIT can communicate with Power Automate Desktop and trigger the execution of flows from the business processes we design, allowing us to take advantage of the best of both tools: modeling and orchestration of processes in BIZUIT together with the detailed automation of desktop actions offered by Power Automate Desktop.

How to integrate a Power Automate RPA process with BIZUIT

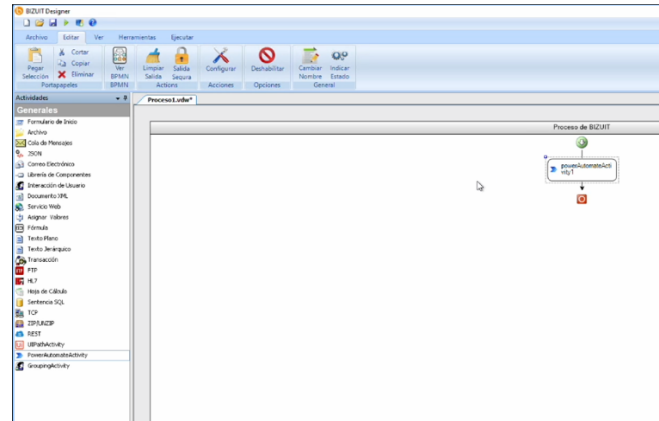
For this example, we put together a flow in the Power Automate designer that is very similar to the one we implemented with UiPath:



Which:

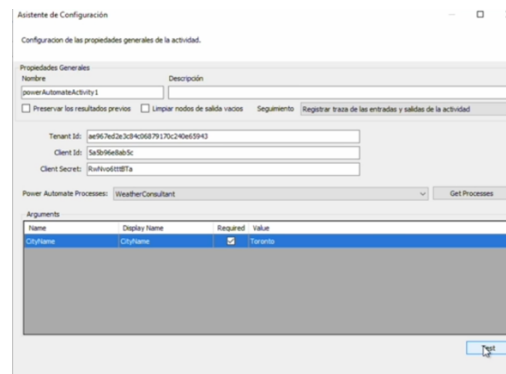
- It receives a city name as a parameter.
- Open a web browser and Google the weather in that city.
- Extract temperature and weather.
- Inserts a record into a SQL Server table, storing the obtained data.

Once the flow has been tested locally and verified that it is working correctly, we proceed to integrate it with BIZUIT using the PowerAutomateActivity activity in BIZUIT.



When we double-click on the activity, we are asked for the connection data, such as Tenant ID and other credentials associated with Power Automate, that we obtain from our Microsoft Power Platform instance.

Once this data is entered, we click on "Get Processes", which loads the list with the flows published in Power Automate Desktop that we can invoke from BIZUIT. When selecting a flow, we are asked for the parameters that the flow expects; we complete them and then test the execution with the "Test" button.



Subsequently, we enter our Power Automate portal, where we observe how the flow begins to execute.

Requested	Duration	Status
Jan 30, 09:48 PM (10 sec ago)	00:00:06	Running
Jan 29, 06:26 PM (1 d ago)	00:01:30	Succeeded
Jan 30, 04:07 PM (5 h ago)	00:49:17	Failed
Jan 30, 04:06 PM (5 h ago)	00:49:54	Failed
Jan 30, 04:05 PM (5 h ago)	00:50:08	Failed
Jan 30, 11:26 AM (10 h ago)	00:01:03	Failed
Jan 30, 11:22 AM (10 h ago)	00:01:30	Succeeded
Jan 29, 09:49 AM (1 d ago)	00:01:06	Succeeded
Jan 29, 09:48 AM (1 d ago)	00:00:57	Succeeded
Jan 29, 09:42 AM (1 d ago)	00:00:43	Failed
Jan 29, 09:36 AM (1 d ago)	00:00:55	Succeeded
Jan 29, 09:30 AM (1 d ago)	00:00:57	Succeeded
Jan 29, 09:28 AM (1 d ago)	00:01:19	Succeeded
Jan 29, 09:26 AM (1 d ago)	00:01:05	Failed
Jan 29, 09:26 AM (1 d ago)	00:01:49	Succeeded
Jan 29, 09:23 AM (1 d ago)	00:00:54	Failed
Jan 29, 09:22 AM (1 d ago)	00:00:52	Failed

After a few moments, it completes successfully, and in our SQL Server database, the record inserted by the Power Automate flow launched during the test in BIZUIT appears.

Once its operation has been verified, we map the parameter of our process in BIZUIT with the argument(s) expected by the Power Automate flow and execute our process as usual.

When we return to the Power Automate portal, we verify that the flow starts and, after a short time, finishes successfully, registering again in the SQL Server table.

Depending on the scenario, we can configure alerts or notifications in BIZUIT that are triggered when a Power Automate Desktop flow finishes its execution or if there is an inconvenience.

Conclusion

Desktop automation through Power Automate Desktop, combined with BIZUIT's process design and orchestration capabilities, gives us a comprehensive solution to digitize and optimize our business operations.

As with the integration made with UiPath, our goal is to leverage automation to eliminate manual and repetitive tasks, integrating them into a workflow that BIZUIT helps us structure and control. With this approach, we can scale our automations seamlessly, both on-premises and in the cloud, while maintaining a unified view of everything happening in our processes.

The result is greater efficiency, full traceability and the ability to free up our teams to focus on tasks of greater strategic and creative value, driving our digital transformation to a new level.



Chapter Summary

Throughout these units we have explored how Robotic Process Automation (RPA) integrates with BIZUIT to empower the management of our business processes. We saw concrete examples with UiPath and Power Automate, two leading tools that allow us to automate repetitive and rule-based tasks, freeing us from manual work and making it easier for us to focus on higher value-added activities.

However, it is important to note that we are not limited to a single RPA tool. Through the REST and Webservice activities at BIZUIT, we can connect with any RPA platform that offers compatible services or endpoints, including solutions such as BluePrism, which integrates seamlessly thanks to the flexibility and openness of BIZUIT's architecture.

In short, RPA and BPM complement each other strategically. While RPA executes concrete actions—such as data entry, extracting information, or communicating with applications—BIZUIT is responsible for designing, orchestrating, and monitoring the entire flow of our business. Thus, we are able to combine one-off automations with global process management, which increases the efficiency, traceability and scalability of our operations.

Digital transformation is not just about implementing software robots or modeling processes, but about integrating both disciplines in a coherent way.

At the end of these units, we are certain that BIZUIT offers us a robust ecosystem to design and manage processes, while allowing us to incorporate RPA robots such as UiPath, Power Automate, BluePrism or others, according to our needs and without limiting ourselves to a single tool.

In this way, each organization can put together its customized automation strategy, taking advantage of the benefits of BPM and RPA to streamline operations, reduce costs and free our teams from repetitive tasks, thus boosting productivity and added value at every stage of our business processes.

In the next class we will explore the integration capabilities in BIZUIT, focusing on how to connect this ecosystem with other business systems through custom integrations. We will analyze the different connectivity options that will allow us to make effective integrations in corporate environments. See you!