IBM Cloud Pak for Business Automation Demos and Labs 2022

End to End Demo for Cloud Pak for Business Automation Using Client Onboarding Scenario

V 2.0.1

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1 Introduction

This lab is based on the use case of a simplified version of a **Client Onboarding solution** as part of **Focus Corp.'s service business**. Although intended to be realistic, it is fictitious, simplified and is meant to showcase key aspects of the Cloud Pak for Business Automation in an easy and quick way. This scenario highlights selected business functions and technical integration points across the Cloud Pak for Business Automation. It showcases how combining these platform capabilities can be used to build an end-to-end business solution that helps to digitize all aspects of business operations. This lab focuses on the business user experience executing a client onboarding from start to finish, not developing the solution itself.

1.1 Cloud Pak for Business Automation

IBM Cloud Pak for Business Automation is a set of integrated market-leading software, running on top of Red Hat OpenShift and therefore built for any hybrid cloud, and designed to help you solve your toughest operational challenges.

With AI-generated recommendations, analytics to measure impact, and business-friendly low-code tooling, IBM Cloud Pak for Business Automation helps customers to significantly reduce the amount of time spent on manual processes. Specialized business automation capabilities — for content, decisions, RPA, workflows, and document processing — are built on top of powerful automation services from the Automation foundation. The Automation foundation provided common services are also used by the two other IBM Automation Cloud Paks: Cloud Pak for Integration and Cloud Pak for AIOps. Using the process mining and operational intelligence capability, you can get insights into how your processes run, visualize issues, pinpoint fixes, and prioritize actions.

A single business automation capability may contain multiple products. For example, Document processing encompasses IBM Datacap and IBM Automation Document Processing. IBM Robotic Process Automation is part of the Automation Foundation and directly featured in the Cloud Pak for Business Automation. While the server part of IBM Robotic Process Automation has recently been containerized, and can therefore run on OpenShift, it is one of the few capabilities that requires Windows. Both for the authoring environment and for executing the bots.

The products are integrated in many ways. Automation Services and an Automation Service catalog are the latest additions to the existing features of APIs and reusable UI libraries. Currently Workflow and Automation Decision Services from the Decision capability can publish automation services while Automation Application Designer and Workflow can consume automation services. Automation services allow discovery and usage of services within the Cloud Pak without the need to consider technical aspects like offering product, protocols, authentication/authorization etc. This makes them especially suitable to no-code consumption through business users.



Figure 1: Marchitecture of the IBM Cloud Pak for Business Automation

1.2 Business Scenario

The overall Client Onboarding solution consists of a multi-page front-office intake app and a workflow that orchestrates all back-office activities (both automatic and system ones) to either onboard the client or reject their onboarding request.

The client representative initially works with the Client Onboarding app. This app has been created by the business using the low-code IBM Automation Application Designer. It leverages services created by IT in the other capabilities of the platform. When a client calls, the client representative collects all required information about the client and the services the client wants to subscribe to, before they submit the onboarding request to the back-office part of the solution. While the app can be used by multiple client representatives at the same time, each of them completes their own onboarding request independently.



Figure 2: High-Level Client Onboarding Application Architecture

Figure 2 in the upper half gives a high-level overview of the three pages of the intake app designed using IBM Automation Application Designer and the purpose of the pages. The lower half depicts how the pages interact with other capabilities of the Cloud Pak for Business Automation to fulfil their purposes.

- 1. On the first page, the client representative can manually enter all client onboarding information or lookup the information for a known client. For the lookup the Automation Application calls out to Workflow. Additionally, once services to be onboarded have been selected, the fee for these services and potential upsell services are determined by calling out to Decisions. The red icon indicates that this place utilizes AI-Powered/Intelligent Automation with prescriptive rules and potentially predictive ML models hosted on an external machine learning server.
- 2. On the second page, the client representative can review the documents that are already available for the client and change the status for those required for the onboarding request. For this the app uses Content capabilities.
- 3. On the third page, a message is displayed that confirms the successful submission of the onboarding request and incudes a reference ID that is associated to that request. The submission of the onboarding request triggers the back-office workflow in Workflow.

Depending on various factors the back-office workflow using the Workflow capability may involve the client, an account manager, and/or the client representative.



Figure 3: High-Level Client Onboarding Back-Office Solution Architecture

Figure 3 depicts that Workflow orchestrates various activities, both human-driven knowledge work and system activities, to perform the actual client onboarding in the back-office. The Case capability in Workflow is specifically suited as it supports semi-structured use-cases. The red icon symbolizes again where AI-Powered/Intelligent Automation capabilities are applied. These are built into the respective capability or provided by an externally hosted machine model. Depending on the circumstances of the onboarding request one or multiple of the activities are executed or skipped. These activities are grouped into four stages:

- 1. The activities performed in the **Document Review** stage depend on the availability or nonavailability of documents required for the onboarding request. If all documents are available and they have all been verified by the client representative, no activity is required, and the stage is automatically completed. If documents are missing the client receives an email with information about what documents are missing including a link to a web page to upload them. Once a document is received the Capture capability is triggered to determine the type of document and to extract the required data. IBM Automation Document Processing with its advanced AI-infused features is used for this purpose. If the extracted data is as expected the Workflow proceeds to the next stage. If not, the client receives another email with the details giving them the opportunity to upload additional documents.
- 2. The first activity in the **Scoreboarding** stage uses rules and machine learning models from Decisions to categorize the client into a segment 1 or segment 2 client (using prescriptive rules), determines if the onboarding request is a low or high-risk request, and computes an assessment confidence (both based on using a predictive model). If the confidence is higher than 75%, the decision to accept (low risk) or reject (high risk) the client onboarding request is performed automatically. When the scoreboarding confidence is lower than 75%, a second activity is assigned to an account manager who must manually assess the onboarding request through a task in Workflow.
- 3. The third stage **Backend Systems Update** consists of an activity to update two legacy system of records of Focus Corp. As these systems don't have APIs available, an IBM Robotic Process Automation (RPA) bot is utilized.
- 4. In the fourth and final stage, **Notification**, the client representative is informed of the onboarding result for the onboarding request they have initiated using a task in Workflow which completes the onboarding request.

Throughout the stages of the workflow the client is notified about status changes and activities needed to be performed by them through email.

1.3 Lab Setup Instructions

- 1. Access the document that lists the available systems and URLs along with login instructions. For this lab, you will need to access the **Client Onboarding Desktop** and **Business Performance Center**.
- 2. Download the files **Old Utility Bill Legacy Consulting.pdf** and **Current Utility Bill Legacy Consulting.pdf** from the **Lab Data** folder of the lab onto your computer. The files will later be uploaded as part of the first exercise which is to onboard Legacy Consulting.

2 Exercise: Onboarding a Client with Low Confidence Level (Manual Intervention)

2.1 Introduction

In this exercise, Legacy Consulting wants to subscribe to two services from Focus Corp.'s healthcare services.

You will first take the role of the client representative, a Focus Corp. employee, who is on the phone with Legacy Consulting for this request. Initially, you collect all the required information. As part of that you will notice that a utility bill is not on file for Legacy Consulting. It is required to validate the client address. You will submit the onboarding request after letting the client know that they will receive an email with upload instructions for the pending document.

Because of the missing utility bill, you will switch into the role of the client to upload it. You will experience that uploading a utility bill with an outdated address will fail the validation resulting in an additional email letting you know that fact. Uploading a more recent utility bill will pass the validation and progress the internal processing of your onboarding request.

With all documents being present and having been validated, a scoreboarding activity will classify Legacy Consulting as a Segment 2 client with a high-risk profile and an assessment confidence of less than 75%. Under these circumstances, the request cannot be handled automatically and will require manual handling by an account manager. The client is notified about this via email.

You will take over the role of the account manager to manually review the request. As the default risk is too high, you will reject the onboarding request. The client will be informed via email as will be the client representative via a notification task as they initiated the onboarded request.

This path through the onboarding scenario exemplifies that often for complex, high value, high risk decisions or those where a machine generated decision has low confidence, knowledge workers need to make the final decision. The decision made by a human can then be used to further train the machine learning model so for future cases even more automation is possible.

2.2 Exercise Instructions

You will use the same user to perform all tasks even when assuming the different roles of Client Representative, Client, and Account Manager. To remind you which role you currently perform, most screens show an icon and label in the top right corner. In this flow the ones for the Client Representative, the Client, and the Account Manager.



2.2.1 Taking the call from Legacy Consulting and collecting base information

- _1. Navigate to the **Client Onboarding Desktop** using the link provided
- _2. Select Enterprise LDAP on the Log in to IBM Cloud Pak page



_3. Login with the username and password that has been assigned to you

_4. As the **Client Representative** (see icon in the top right corner) **explore** the first page of the Client Onboarding app

It provides means to search for an existing client by name, enter various information about the client, a selector for the industry for which Focus Corp. offers services, a list of services the client can sign up for, and the ability to calculate the services fee and upsell recommendations based on the selection.

Client Onboarding			?	0	:
pocus Corp				Client R	ep ^
Look for existing client information using the auto-complete and click on the Search button to get their information. Client Name	Client Information Enter the information of the client being onboarded. Primary Contact Details First Name	Last Name			-
	Email Enter your email ID here	Phone Number (###) ###-#####		الم الم	

When you resize the browser window you will observe that the page is responsive. That means that a single app can be designed that it can easily be used on a large screen like a desktop/laptop, on a tablet, or even mobile phones.

Ciert Rame Ciert Information of the client being onboarded. Primary Contact Details First Name		Client Onboarding	?	0	
Look for existing client information using the auto-complete and click on the Search button to get their information. Client Name Client Information Enter the information of the client being onboarded. Primary Contact Details First Name	Ø	Focus Corp		Client F	Rep
Client Information Enter the information of the client being onboarded. Primary Contact Details First Name	Look for the Sear Client N	r existing client information using the auto- rch button to get their information. ame	-complete a	nd click or	ı
Client Information Enter the information of the client being onboarded. Primary Contact Details First Name			٩	Search	
Enter the information of the client being onboarded. Primary Contact Details First Name	Clier	nt Information			
Primary Contact Details First Name	Enter th	ne information of the client being onboarded	d.		
First Name	Prima	ary Contact Details			
	First Ne	ime			
ŷ	ô				
Last Name	Last Na	me			-2
8 martine and	ð				

_5. **Type** *Leg* in the **Client Name** field in the left panel to search for **Legacy Consulting** which is an existing client of Focus Corp

🔞 Focus Corp			Client Peo
Look for existing client information using the auto-complete and click on the Search button to get their information.	Client Information	nboarded.	
Client Name	Primary Contact Details		
	First Name	Last Name	
Legacy Consulting arch	ô	ð	
	Email	Phone Number	
and a strange and a strange of the	Ma Manhandthe	and the second and the second have the	

_6. Click on Legacy Consulting once the type ahead feature offers it

_7. **Click** on **Search** to load the details for the client. It retrieves the client details using integration with the Workflow capability.

tton to get their information.	Enter the information of the client being	onboarded.				
ent Name	Primary Contact Details					
Legacy Consulting	First Name	Last Name				
Q Search	ð John	Doe				
	Email	Phone Number				
	@ jdoe@example.com	% (424) 888-1234				
	Main Business Address					
	Street	Unit				
	A 172 S Topanga Canyon B	lvd # 410				
	City	Postal / Zip Code				
	നി Topanga	© 90290				
	State	Country				
	ee CA	♀ United States of Amer ▼				
	Additional Information					
	Company Age	Number of Employees				
	14 years	* 75				
	Annual Revenue	Payment History				
	\$ 4,500,000,00	Defaulted Payment				

_8. **Optionally, replace** the **email address** jdoe@example.com with an email address of your choice that you can use to receive client emails associated with the scenario

_9. **Select Healthcare** in the **Industry** drop-down list as Legacy Consulting requests to onboard to two services in that domain

Serv	vice Onboarding Information	
Select being	t the industry for which the services are offered	Select the services that the client is interested in
ы	Federal 🗸	Education Funding Green Technology Equipment
	Federal Finance	Infrastructure Consultation Transport Security
	Healthcare	
2	Insurance	
Servic	Telecom	
\$		
		Review Documents

_10. Check Employee Benefits Plan and Mental Health Care as the services that Legacy Consulting wants to onboard to

\$	4,500,000.00	Defaulted Payment
Serv	ice Onboarding Information	
Select being o	the industry for which the services are offered	Select the services that the client is interested in
Cai	Healthcare 🗸	 Employee Benefits Plan Mental Health Care
		Onsite Medical Testing Virtual Medical Assistance
\$	Calculate Services Fee	
Service	es Fee	
\$		
		Review Documents

_11. Click Calculate Services Fee to calculate the fees and get upsell recommendations



The fees are calculated by an external service pricing engine build using prescriptive rules. The additional services that the client representative could offer as upsell opportunity to the client are currently also based on prescriptive rules but could also be generated based on a machine learning model.

_12. Click Review Documents to navigate to the next page



2.2.2 Verifying required documents and submitting the onboarding request

_13. **Explore** the second page of the Client Onboarding app

The left pane lists all information provided on the previous page. In the right pane, all documents that may be relevant to this onboarding request are listed with their individual status of either Pending (Default), Verified, or Not Required. At the bottom a list of all potentially relevant documents Focus Corp. already has for Legacy Consulting is shown.

Pocus 🔞	Corp									Client Rep
Legacy Cons	Revi	iew Docume	nts							
Primary Contact Datails		Review	v existing documents	and mark them as pending if they need to be (re)up	loaded.					
John Doe 424-888-1234		Document Name		Document Status						
jdoe@example.com		Bar	Banking Information		Pending				*	
410-172 S Topanga Canyon Blvd Topanga, CA - 90290 USA		Util	Utility Bill		Pending					•
Additional Infor	rmation									
Company Age	14 years	Select the	e documents that you	uwant to associate with this request						
Number of Employees Annual Revenue	75 \$4,500,000	Q	Legacy Consul	ting						C
Defaulted Payment	Yes		Name							
Comise Onlyse	din et Traffa mar alla m		📔 Legacy	y Consulting - Banking Information						
Service Unboard	aing Information		📔 Legacy	y Consulting - Certificate of Incorporation						
Services Requested	0	Iten	ns per page: 20	1-2 of 2 items					4	•
Employee Benefits Pl	lan									
Mental Health Care						~	Back		Submit Onboarding R	equest

_14. View the Legacy Consulting – Banking Information document by clicking the three dots at the right end of the row that appear when you hover over the line and selecting View. This opens the document in the integrated viewer. Afterwards close the viewer window again.

Select the documents that you want to associate with this request		
Q Legacy Consulting		G
Name Name		
Legacy Consulting - Banking Information		:
Legacy Consulting - Certificate of Incorporation	View	
Items per page: 20 1-2 of 2 items	Download	
	Properties	_
Focus Corp		
Banking information IC Focus Corp This banking information provided here will be used by Focus Corp to withdraw the monthly services fee.	-	
Client Name Legacy Consulting	-	
Bank Name XV2 Bank		
t Bank Phone Number +1-213-111-7890		
Bard Address BBC Cyners BA, Garden Grove, CA 52540 Reclarg Number 2024595		

_15. Select Verified for Banking Information

_16. Keep **Pending** for **Utility Bill** as we have no utility bill on file

Focus Corp. recently made the change to require a utility bill to verify the client address. As we don't have one for Legacy Consulting, Legacy Consulting will need to upload one after the client representative has completed their onboarding request.

_17. **Check the box for the banking information document** (Legacy Consulting – Banking Information) in the document list at the bottom to make this document part of the request when you submit the onboarding request

Pocus Corp		Client Rv
Legacy Consulting	Review Documents	
Primary Contact Details	Review existing documents and mark them as pending if they need to be (re)u	uploaded.
John Doe 424-888-1234 idee@example.com	Document Name	Document Status
Main Business Address	Banking Information	Verified 🗸
410-172 S Topanga Canyon Blvd Topanga, CA - 90290 USA	Utility Bill	Pending 🗸
Additional Information		
Company Age 14 years	Select the documents that you want to associate with this request	
Number of Employees 75 Annual Revenue \$4,500,000	Q Legacy Consulting	0
Defaulted Payment Yes	Name	
Service Onboarding Information Services Fee \$35,000 Services Requested Employee Benefits Plan	Legacy Consulting - Banking Information Legacy Consulting - Certificate of Incorporation Items per page: 20 1-2 of 2 items	
Mental Health Care		← Back ✓ Submit Onboarding Request

_18. Click Submit Onboarding Request to complete Legacy Consulting's request and navigate to the final confirmation page

The submission may take a few seconds during which you might notice a little spinner icon next to the Client Rep icon. Please wait until you are taken to the third page.



2.2.3 Onboarding request confirmation page

_19. **Explore** the third page of the Client Onboarding app

The left pane again lists all information provided on the first page. The right-hand side provides a reference ID for the request that the client representative can share with the client and a comment that an email was sent to the client about their request.



_20. Note down the Reference ID for future reference

_21. **Click** on **Start a New Request** to get back to the first page so you will be able to onboard the next client in the next exercise

2.2.4 Checking the automatic email to Legacy Consulting & Uploading Utility Bill

_22. **Open or bring to the front** your **email client** in case you have provided an email address on the first page that you can access. If not please also follow the alternative instructions to upload the utility bill.

_23. Check your inbox for an email from focuscorpdemo

Request for pending documents [Reference ID: 90LBW3XI]



Focus Corp

The email contains the reference ID as displayed on the final page of the Client Onboarding app. It lets you know that the Utility Bill is required to further process your onboarding request. It contains a link for you to get to a web page to upload the document.

_24. **Click** on the **link** in the email to open the upload page. If you are not logged in in the browser window that opens, please log in again with the user credentials you have received.

If you have not previously provided an email address proceed as follows:

- Copy the URL of the front-office intake app (should end with desktop=ClientOnboarding)
- Open a new tab in the browser you are using
- Paste the previously copied URL and replace "desktop=ClientOnboarding" with "desktop=CODocumentUpload&ReferenceID=<Your Reference ID>" where <Your Reference ID> is the reference id shown on the last page of the front-office intake app that you noted down.
- Save the URL for future use.

_25. Explore Focus Corp.'s Client Document Upload page

The icon in the top right shows that you are still in the role of the client. The page is simple to use, providing only a control to select a file to upload and a submit button that becomes active once a document is selected.

You don't have to provide your reference id manually as it is included in the URL and will be automatically sent to the server.

E Client Document Upload	?	8
Pocus Corp		Client
Please upload the requested document(s) to complete your onboa	arding re	quest.
Upload Document		
🗅 Submit Document		

_26. Click on the Upload Document control and select Old Utility Bill - Legacy Consulting.pdf from the location where you downloaded the documents to before

This utility bill contains an old address of Legacy Consulting which does not match the address the client representative captured in the onboarding request.

E Client Document Upload	0 8
Pocus Corp	Client
Please upload the requested document(s) to complete your onbo	oarding request.
Upload Document Old Utility Bill - Legacy Consulting.pdf	
D Submit Document	

_27. Click the Submit Document button to upload the document to the server

_28. After a short moment you will see a confirmation page that lets you know that the file was successfully uploaded

Elient Document Upload	?	0
pocus Corp		Client
Your document has been submitted successfully. You can now upload another document or close this window if submission is complete.	your do	cument

_29. Close the Client Document Upload browser tab

2.2.5 Checking the automatic email to Legacy Consulting & Uploading a second Utility Bill

_30. **Open or bring to the front** your **email client** in case you have provided an email address on the first page that you can access. If not please again follow the alternative instructions to upload a different utility bill.

_31. Check your inbox for an email from focuscorpdemo

If it did not arrive yet give it a moment as the uploaded document may still be processed or proceed to the next chapter as this is informational only.

Request for pending documents [Reference ID: 90LBW3XI]



The email again contains the reference ID as displayed on the final page of the Client Onboarding app. It lets you know that the address in the Utility Bill that you have uploaded does not match the address as stored in the onboarding request. It contains a link for you to get back to the Client Document Upload web page to re-upload a utility bill with the correct address on it.

_32. Click on the link in the email to open the upload page again

If you have not previously provided an email address, use the URL you have previously constructed and saved.

_33. Click on the Upload Document control and this time select Current Utility Bill - Legacy Consulting.pdf from the location where you downloaded the documents to before

This utility bill contains the address of Legacy Consulting which matches the address the client representative captured.



- _34. Click the Submit Document button to upload the document to the server
- _35. You will again see a confirmation page that lets you know that the file was successfully uploaded
- _36. Close the Client Document Upload browser tab again

2.2.1 Checking the automatic email to Legacy Consulting about manual handling

_37. **Open or bring to the front** your **email client** in case you have provided an email address on the first page that you can access

_38. Check your inbox for an email from focuscorpdemo

If it did not arrive yet give it a moment as the uploaded document may still be processed or proceed to the next chapter as this is informational only.

Your request is under review [Reference ID: 90LBW3XI]

focuscorpdemo@gmail.com to jdoe@example.com 💌
Hello John,
This is with reference to your request with reference ID: 90LBW3XI Your request is being manually reviewed by one of our account managers. We will reach out to you in 2 to 3 business days. Thank you for your patience.
Regards,

Focus Corp

_39. The email again contains the reference ID as displayed on the final page of the Client Onboarding app. It lets you know that your onboarding request is being handled manually by an account manager and that you can expect a result within 2-3 business days.

2.2.2 Checking the Review Client Onboarding Request task for the Account Mgr

Having completed the upload of the missing utility bill as the client and being notified about the manual review, you are now taking the role of a Focus Corp. account manager.

_40. Open or bring back in focus the browser tab of the Client Onboarding front-office intake app

_41. **Click** on the **hamburger menu icon** in the top left corner and **select Workplace** to switch from the Client Onboarding app to your general workplace. After a short moment it shows the tasks available to you.

Workplace is the next generation end-user client that complements the existing Process Portal and Case Client. It allows launching processes and cases and unifies access to all kinds of tasks. Its Task prioritization feature is another example of AI built into the product. When enabled it uses AI and historic runtime data to automatically order the tasks in the task list in terms of skill and impact, leading to workforce efficiency improvements.

×	Client Onboarding	
	Client Onboarding Request	R
	Workplace	1
A	and the second descent of the second second second	

When you complete a task, the task may still be shown for some seconds in the task list. It will disappear when the task list auto-refreshes itself.

_42. Open the task that is available to you by clicking on it

If the task is not showing up after some time, please check for any emails with document upload instructions. In case stuck please reach out to one of the instructors for help. Depending on the network latency it may take a moment until the task page is loaded.

Workplace @					1	<u>ad</u> :::
On track 1	At risk O	Overdue O	Total tasks 1			
•		A	•			
Tasks Workflows						
				Q ⋧	Start workflow	+
Status	Priority	Name			Due on	
✓ □ On track	Normal	Review Client Onboarding Req	uest [Legacy Consulting]		Feb 25, 2022	:
Items per page: 10 1	• 1 of 1 items			1	✓ of 1 page	+

_43. Explore the task page

The icon in the top right signifies that you are performing this task as an Account Manager. At the top (1) the four stages of the request processing are shown. This task is part of the scoreboarding stage where you as the account manager have to manually assess those onboarding requests that have a confidence below 75%. The first panel on the left (2) provides a summary of the request, mainly the Client Name, Reference ID and the Approval Status. The panel below (3) contains comments related to the request, for example that all required document have been verified. The main panel on the right (4) has four tabs. On the Details tab the scoreboard is shown that contains the segmentation, Legacy Consulting belonging to the Segment 2 clients, the risk assessment, here High Risk, and the Confidence for the risk assessment, here with 68% being below the threshold to take an automatic decision based on the risk (the actual values may differ slightly in your onboarding request).

Workplace / Review Client Onboarding Request [Legacy Consulting] 🛷							
Normal priority Due on Feb 25, 2022, 1:46 PM							
Focus Corp		Account Mgr					
 Document Review 	Scoreboarding O Backend Systems Update O Notification						
Client Name Legacy Consulting Approval Status Under Review Reference ID 90LBW3XI Created on Feb 25, 2022, 11:02 AM Status Active	Details Documents Activities History Scoreboard 4 Segment I= Segment 2						
Add comment (2) Cp4badmin A utility bill was provided by the client and has been verified automatically.	Confidence 68%						
Feb 25, 2022, 12:46 PM	Onboarding Information	~					
8 cp4badmin							
The address in the utility bill provided does not match the address in the request. Waiting for the client to send another utility bill.	5 🗦 Re-check Score 🖉 Reject 🗸	Approve					
Feb 25, 2022, 12:05 PM							
8 cp4badmin							
Waiting for the client to provide pending documents. Feb 25, 2022, 11:02 AM							

_44. Explore the Documents tab

The **Documents** tab shows the document (Legacy Consulting - Banking Information) that you had previously selected on the Review Documents page of the Client Onboarding app. It has been made part of the actual onboarding request. In addition, the utility bill uploaded by the client that passed the validation is also part of the onboarding request.

Details	Documents	Activities	History		
Client	t Documents				+ C Q
	Legacy Consultin	ng - Banking In	formation	cp4badmin 2022/02/25 1	1:02
	Utility Bill - Lega	cy Consulting		cp4badmin 2022/02/25 1	.2:46

_45. For the **utility bill click** on the downwards **arrow** and **select Properties** to bring up the properties of this document.

The properties shown reflect those values that got extracted when the document was uploaded. These values were also used to compare the address stored in the client onboarding request to the one in the utility bill.

Client Documents	Update File Properties *
Legacy Consulting - Banking Information	Document Type Utility Bill
Utility Bill - Legacy Consulting	Document Title Utility Bill - Legacy Consulting
La Download ☐ Properties Jm	Client Name Legacy Consulting
	Reference ID 90LBW3XI
	Service Address 172 S Topanga Canyon Blvd, CA,Topanga 90290
	Name Utility Bill - Legacy Consulting

If the properties don't show in a similar way as shown on the right-hand side, please close the properties view and re-open it.

_46. Explore the Activities tab

The **Activities** tab shows the status and type of all activities of the client onboarding request. Since this is a case in the Workflow system, you can have a mix of required, optional, and discretionary activities defined in the case.

The optional Create New Proposal activity is ready to be started by the account manager. For example, if they plan to reject this specific client onboarding request, they may still decide to make a different onboarding proposal (e.g. for a higher fee) to the client.

The second optional activity, Follow Up with Client, is not yet enabled. The customer representative will be able to start it to initiate any follow up work with client.

etails	Documents	Activities	History					
						Ç	All	~
Name				Status		Туре		
Notific	cation			() Waiting		Require	d	
Updat	e Backend Syst	ems		() Waiting		Require	d	
Perfor	m Scoreboardir	ng		▲ Started on Feb 25, 2022, 12:46 PM		Require	d	
Review	v Documents			✓ Completed on Feb 25, 2022, 12:46	PM	Require	d	
Follow	Up with Client			() Waiting Disable		Optiona	ıl	
Create	e New Proposal			Ready Start Disable		Optiona	ıl	
Per pa	age: 10	Showing 1 to 6 of	6 entries		1 ~	of 1 page	•	* \$

_47. Explore the History tab

The **History** tab shows information about different types of events that happened for the client onboarding request.

De	tails Documents Activities History					
				Ç	All	~
	Name	Details	User	Last m	nodified on	
	Review Documents	Activity Completed	cp4badmin	Feb 25	5, 2022, 12:4	16 PM
	Perform Scoreboarding	Activity Started	cp4badmin	Feb 25	5, 2022, 12:4	16 PM
	Scoreboarding	Stage Started	cp4badmin	Feb 25	5, 2022, 12:4	16 PM
سر	Document Review	Stage Completed	cp4badmin	Feb 25	5, 2022, 12:4	16 PM

_48. Expand the Onboarding Information section by clicking on the section header

Confidence	
Onboarding Information	~

_49. Modify the Annual Revenue to be \$45,000,000 instead of \$4,500,000 (add an extra 0)

State			Countr	У				
CA			0	United States	s of Ame	erica		
Additional Informa	ition							
Company Age			Numbe	er of Employees				
14 years				75				
Annual Revenue	100			Defaulted Pa	ayment			
		_						
			≟⊐ Re-	check Score	0	Reject	\sim	Approv

_50. Click Re-check Score (5) to reevaluate the scoreboard and observe that the risk changed to low, and the confidence was computed to be 100%

Workplace / Normal prio	Review Client Onboardin prity Due on Feb 25, 2022, 1	g Request [Legacy Consulting] :46 PM	Ø	
Poc	us Corp			Account Mgr
Ocument R	eview	Scoreboarding	O Backend Systems Update	O Notification
Client Name Approval Status Reference ID Created on Status	Legacy Consulting Under Review 90LBW3XI Feb 25, 2022, 11:02 AM Active	Details Documents # Scoreboard Segment #= Segment 2	Activities History	
Add comment	Q	Confidence		
A utility bill w	n as provided by the client	100%		

_51. Optionally, change the Annual Revenue back to \$4,500,000 (remove the extra 0) and perform the scoreboarding a final time by clicking Re-check Score

_52. **Click Reject** (5) to reject the onboarding request by Legacy Consulting as you the account manager consider the risk to be too high.

This will trigger an email to be sent to the client with the final onboarding decision.

2.2.3 Checking the automatic email to Legacy Consulting about onboarding rejection

_53. **Open or bring to the front** your **email client** in case you have provided an email address on the first page that you can access

_54. Check your inbox for an email from focuscorpdemo

Your request has been rejected [Reference ID: 90LBW3XI]

focuscorpdemo@gmail.com

to jdoe@example.com 🔻

Hello John,

This is with reference to your onboarding application with reference ID: 90LBW3XI

Your onboarding request has been rejected. For any questions, please use our live chat.

Regards, Focus Corp

_55. **Check** the **email** that contains the reference ID as displayed on the final page of the Client Onboarding app. It lets you know that your onboarding request has been rejected.

2.2.4 Checking the Client Rep notification about rejected onboarding

_56. Switch back from the email client to the browser window containing the Client Onboarding app

_57. Open the task that is available to you as client representative by clicking on it

Workplace @											h	
On track		At risk 1		Overdue 0		Total tasks 1						
Ŭ	•	-		·		-						
Tasks	Vorkflows											
							Q	٩Ļ	$\underline{\mathscr{O}}$	Start wo	rkflow	+
Si Si	tatus	Priority	Name							Due on		
✓ □ ▲	At risk	Normal	Notificatio	on: Review Request Comp	eted (Le	egacy Consulting)				Feb 25, 202	2	:
Items per page:	10	1 - 1 of 1 items						1	~	of 1 page		•

_58. **Observe** the **Approval Status** task page that shows that the client onboarding request was **rejected**

Client Onboarding				0 ®
Workplace / Notification: Review Request Comple Normal priority Due on Feb 25, 2022, 3:00 PM	eted [Legacy Consulting] 🖉			
Pocus Corp				Client Rep
 Document Review 	⊘ Scoreboarding	 Backend Systems Update 		Notification
Client Name Legacy Consulting Approval Status Rejected Reference ID 90LBW3XI Created on Feb 25, 2022, 11:02 AM Status Active Add comment C Cpdbadmin The review for the onboarding request is now complete and the client has been notified of the anyroyal status.	Details Documents Activities Scoreboard Segment I Segment I= Segment 2 Confidence I Q 68% I I	History	High Risk	
Feb 25, 2022, 2:00 PM	Onboarding Information			~
📀 cp4badmin				
A utility bill was provided by the client and has been verified automatically. Feb 25, 2022, 12:46 PM				 Complete Onboarding Request
 cp4badmin The address in the ruliity bill provided does not match the address in the request. Waiting for the client to send another utility bill. Feb 25, 2022, 12:05 PM cp4badmin Waiting for the client to provide pending documents. Feb 25, 2022, 11:02 AM 				

_59. Checking the Activities tab

All required activities except the one you are in are completed now.

In addition to the optional activity **Create New Proposal** that has been ready before, now the optional activity **Follow Up with Client** is also ready. The client representative may decide to connect with the client as their onboarding request was rejected to discuss how they could still be onboarded or explain the decision. Alternatively, the client representative may decide to create a new proposal for Legacy Consulting to still allow them to onboard to services from Focus Corp. but with different subscriptions fees.

Yet these activities are optional, as the customer representative may choose not to perform any of them but just complete the notification.

Details Documents Activities History		
		C All ▼
Name	Status	Туре
Notification	▲ Started on Feb 25, 2022, 2:00 PM	Required
Perform Scoreboarding	✓ Completed on Feb 25, 2022, 2:00 PM	Required
Review Documents	✓ Completed on Feb 25, 2022, 12:46 PM	Required
Update Backend Systems	✓ Completed on Feb 25, 2022, 2:00 PM	Required
Create New Proposal	Ready Start Disable	Optional
Follow Up with Client	Ready Start Disable	Optional
Per page: 10 Showing 1 to 6 of 6 entries		1 ∨ oflpage ◀ ►

_60. **Click Complete Onboarding Request** to complete the task. This closes the task and brings you back to the now empty work list for the client representative

Workplace Ø					Lat	ш
On track O	At risk O	Overdue O	Total tasks O			
		A				
Tasks Workflow	15					
				Q ⋧	2 Start workflow	+
Tasks						
	No tasks to display.					
	A task is an atomic unit of w	ork that is included in a wo	rkflow activity, case, or pr	ocess.		

_61. Click on the hamburger menu icon in the top left corner and select Client Onboarding Request to switch back to the Client Onboarding app



This completes the part of the exercise where you actively perform steps.

2.2.5 Review of Stages Performed Automatically

This section provides information on how different aspects that happen automatically as part of the Client Onboarding are performed. You will not actively need to perform any steps, just read about them. In chapter 3 you will again work directly with the Client Onboarding solution.

As part of the above client onboarding workflow, you worked on the second (Scoreboarding) and fourth (Notification) stage of the request processing. The first (Document Review) and the third (Backend Systems Update) stages were automatically completed, and no manual activities needed to be performed.

2.2.5.1 Document Review



The first stage during processing the onboarding request is the **Document Review** stage. For the above request you have specified in the front-office intake app that only one of the two required documents are verified while the second (utility bill) was pending.

This caused the client to receive an email about the utility bill document they need to upload. While the onboarding request was started and the Document Review stage became active, it only contains an automatic activity that waits for a utility bill being added to the case.

With the client uploading a valid utility bill that is attached to the request, the automatic activity gets started, performs some processing, and completes. This makes the Document Review stage complete as well. The verification of the utility bill is done by matching the extracted address from it with the address stored in the onboarding request. Only if both match the utility bill is accepted otherwise as seen another email is sent to upload a utility bill with the correct address.

2.2.5.2 Backend Systems Update

 Document Review 	 Scoreboarding 	 Backend Systems Update 	Notification

As part of the **Backend Systems Update** stage, Focus Corp. needs to update some of its legacy systems of record:

- The first is the Client Management System. It offers a Java rich client to add or update data.
- The second is the Service Management System. It offers a web interface to interact with it.

As Focus Corp. strives for a high level of automation, they want to update the legacy systems automatically without involving a user. This also helps to remove the risk of potential human errors when copying and pasting information from one system to another. Therefore, they apply IBM Robotic Process Automation (RPA).

The execution of the RPA bot happens automatically in the background. To get an impression how the bot operates the following screenshots explain the steps performed.

The first step is to create a client record or updating an existing client record in the Client Management System and to retrieve the Client ID for the client:

• The bot starts the Client Management System (with a Java UI) and logs into it

🔞 Login			_	\times
	User ID :	admin		
	Password :	•••••		
	Exit	Login		

• The bot enters all values from the Client Onboarding solution into the respective fields and clicks on the **Add/Update Client** button and retrieves the **Client ID** from the output text

Client Name: Legacy (Legacy Co	nsulting		
)nboardin	g Status:	Rejected			
Primary (Contact				
Name:	John Doe		Phone:	424-888-1234	
Email:	jdoe@exan	nple.com			
Client Ad	dress				
Street:	; Topanga	Canyon Blvd	Unit:	410	
City:	Topanga		State:	CA	
Zip Code:	90290		Country:	USA	
ompany /	Age:		14		
lumber of	Employees	: 7	75		
Financial	History				
Annual	Revenue(\$)	45	00000		
✓ Defau	Ited Payme	nt			
Segment					
O Segm	ent 1				
Segm	ent 2				
egacy Col	nsulting has	been addeo	d or updated	into system with Clie	nt ID:

• Finally, it **closes** the Client Management System by **clicking** on **Exit**

As we rejected the onboarding request in the Scoreboarding stage, the bot does not need to record the services the client wants to onboard to in the Service Management System.

These two System of Records in our scenario are just mockups of potential real client systems. They represent systems that don't offer APIs at all to programmatically interact with them or where parts like updates are just exposed through the native UI and not an API. Such systems can easily be automated using the RPA capability.

3 Exercise: Onboarding a Client with High Confidence Level (Fully Automated)

3.1 Introduction

In this exercise, Automation Elite Inc. wants to subscribe to one service from Focus Corp.'s financial services.

You will again take over the role of the client representative, a Focus Corp. employee, who is on the phone with Automation Elite Inc. for this request. Initially, you collect all the required information before you submit the request.

Based on the information contained in the submission, the scoreboarding activity will classify Automation Elite Inc. as a Segment 1 client with a low risk profile and an assessment confidence greater than 75%. Therefore, this onboarding request will be handled automatically without a manual review required by the account manager. The client will be informed about the decision via email while you, as the client representative, will get a notification task as you initiated the onboarding request.

This path through the onboarding scenario exemplifies one of the main goals when embarking on an automation journey, which is to automate business transactions as much as possible reducing the number of involved employees and therefore reducing cost, time required and manual errors.

3.2 Exercise Instructions

You will use the user assigned to you to perform all tasks as the client representative.

To remind you which role you currently perform, most screens show a Client Rep icon and label in the top right corner.

For this exercise, you will only assume the role of the Client Rep.



3.2.1 Taking the call from Automation Elite Inc. and collecting base information

_62. If not already shown **navigate** back to the **Client Onboarding Desktop**

_63. As the **Client Representative type** *Auto* in the **Client Name** text field in the left panel to search for **Automation Elite Inc.** which is also an existing client of Focus Corp.

			Client Rep
Look for existing client information using the auto-complete and click on the Search button to	Client Information		
et their information.	Enter the information of the clien	being onboarded.	
lient Name	Primary Contact Detai	s	
Auto	First Name	Last Name	
Automation Elite Inc. Search	ů	ð	
	Email	Phone Number	

_64. Click on Automation Elite Inc. once the type ahead feature offers it

_65. **Click** on **Search** to load the details for the client into the panel on the right. It retrieves the client details using integration with the Workflow capability.

get their information.	Enter ti	ne information of the client being onboarded.		
Client Name	Datas			
Automation Elite Inc.	Prim	ary contact Details		
	First Na	ame	Last Na	ame
Q Search	ð	June Marie	Ŷ	Sample
	Email		Phone	Number
	@	jmarie@example.com	C	(517) 555-0000
	Main	Business Address		
	Street		Unit	
	A	3974 Carson St	#	1A
	City		Postal	/ Zip Code
	നി	Lansing	0	48911
	State		Country	У
	₩	MI	0	United States of America 🗸
	Addi	tional Information		
	Compa	ny Age	Numbe	er of Employees
	*	8 years	*	1,200
	Annual	Revenue	Payme	nt History
	s	50.000.000.00		No Defaulted Payments

_66. **Optionally**, **replace** the **email address** jmarie@example.com with an email address of your choice that you can use to receive emails for the client as you execute the scenario

_67. **Select Finance** in the **Industry** drop-down list as Automation Elite Inc. requests to onboard to one service in that domain

Selecting an entry from the drop-down dynamically changes the options in the services to onboard.



_68. Check Corporate Credit Card as the service that Automation Elite Inc. wants to onboard to

_69. Click Calculate Services Fee to calculate the fees and get potential upsell recommendations



The fees are calculated by an external service pricing engine build using prescriptive rules. The additional services that the client representative could offer as upsell opportunity to the client are currently also based on prescriptive rules but could also be generated based on a machine learning model.

\$	50,000,000.00	No Defaulted Payments
Serv Select Offered	ice Onboarding Information the industry for which the services are being Finance	Select the services that the client is interested in Corporate Credit Card External Audit Tax Consultation
\$	Calculate Services Fee	Fraud Protection

_70. Click Review Documents to navigate to the next page



3.2.2 Verifying required documents and submitting the onboarding request

_71. Explore the second page of the Client Onboarding app

The left pane lists all information provided on the previous page. On the right pane all documents that may be relevant to this onboarding request are listed with their individual status of either Pending (Default), Verified, or Not Required. At the bottom a list of all potentially relevant documents Focus Corp. already has for Automation Elite Inc. is shown.

🔞 Focus Corp			Client Re		
Automation Elite Inc.	Review Documents				
Primary Contact Details	Review existing documents and mark them as pending if they need to be ((re)uploaded.			
June Marie Sample 517-555-0000	Document Name	Document Status			
jmarie@example.com Main Business Address	Banking Information	Pending	*		
1A-3974 Carson St Lansing, MI - 48911 USA	Utility Bill	Pending	*		
Additional Information	Select the documents that you want to associate with this request				
Number of Employees 1200 Annual Revenue \$50,000,000	Q Automation Elite Inc.		G		
Defaulted Payment No	Name				
Service Onboarding Information Services Fee \$15,000 Services Requested Corporate Credit Card	Banking Information - Automation Elite Inc Certificate of Incorporation - Automation Elite Utility Bill - Automation Elite Inc June Marie - Driver's License Items per page: 20 1-4 of 4 items	l Inc	Þ		
		🗧 Back 🦪 Submit Onboarding B	Request		

_72. View the Banking Information – Automation Elite Inc.pdf document by clicking the three dots at the right end of the row that appear when you hover over the line and selecting View. This opens the document in the integrated viewer. Afterwards close the viewer window again.

Select the	documents that you want to associate with this request		
Q	Automation Elite Inc.		G
	Name		
	Banking Information - Automation Elite Inc		:
	Certificate of Incorporation - Automation Elite Inc	View	
	🔓 Utility Bill - Automation Elite Inc	Download	
	June Marie - Driver's License	Properties	_
Item	is per page: 20 1-4 of 4 items	4	Þ

ъ		2 Q
		~
	Banking Information Difference Decision Difference Diff	
	This banking information provided here will be used by Focus Corp to withdraw the monthly services fee.	
	Client Name Automation Elite Inc.	1
	Bank Name The Digital Bank	
	Bank Phone Number +1-289-333-1234	
	Bank Address 2190 New Orchard Road, Armonk, New York - 10504	
		>

_73. Select Verified for Banking Information and Utility Bill

This reflects the documents required for the selected service and the fact that these two documents are already available.

🔞 Focus Corp		Client Re						
Automation Elite Inc.	Review Documents							
Primary Contact Details	Review existing documents and mark them as pending if they need to be (re)uple	oaded.						
June Marie Sample 517-555-0000	Document Name	Document Status						
marie@example.com	Banking Information	Verified 🗸						
1A-3974 Carson St Lansing, MI - 48911 USA	Utility Bill	Pending ~						
Additional Information Company Age 8 years	Select the documents that you want to associate with this request	Verified						
Number of Employees 1200 Annual Revenue \$50,000,000	Q Automation Elite Inc.	0						
Defaulted Payment No	Name Name							
Service Onboarding Information Services Fee \$15,000 Services Requested Corporate Credit Card	Banking Information - Automation Elite Inc Certificate of Incorporation - Automation Elite Inc Utility Bill - Automation Elite Inc June Marie - Driver's License Items per page: 20 1-4 of 4 items	4						
		← Back ✓ Submit Onboarding Request						

_74. Check the boxes for the two documents Banking Information - Automation Elite Inc.pdf and Utility Bill – Automation lite Inc. in the document list at the bottom to make these two documents part of the request when you submit the onboarding request

pocus Corp		Client Rep
Automation Elite Inc.	Review Documents	
Primary Contact Details	Review existing documents and mark them as pending if they need to be (re)uploaded.	
June Marie Sample 517-555-0000	Document Name Document Status	
jmarie@example.com	Panking Information Varified	
Main Business Address	Danking Information	·
1A-3974 Carson St Lansing, MI - 48911 USA	Utility Bill Verified	*
Additional Information	Select the documents that you want to associate with this request	
Number of Employees 1200 Annual Revenue \$50,000,000	Q Automation Elite Inc.	G
Defaulted Payment No	Name Name	
Service Onboarding Information Services Fee \$15,000 Services Requested Corporate Credit Card	Image: Service and Serv	•
	← Back 🖉 Submit Onboarding R	equest

_75. **Click Submit Onboarding Request** to complete Automation Elite Inc.'s request and navigate to the final confirmation page

The submission may take a few seconds during which you might notice a little spinner icon next to the Client Rep icon. Please wait until you are taken to the third page.



3.2.3 Onboarding request confirmation page

_76. Explore the third page of the Client Onboarding app

The left pane again lists all information provided on the first page. The right-hand side provides a reference ID for the request that the client rep can share with the client and a comment that an email was sent to the client about their request.

Automation	Elite Inc.	Confirmation
Primary Contac	t Details	The onboarding application has been submitted successfully.
June Marie Sample		The reference ID for the request is: HP4A8LOJ
517-555-0000 jmarie@example.com		Please ask the client to monitor their email for further updates.
Main Business	Address	
1A-3974 Carson St Lansing, MI - 48911 United States of America		Ci Start a New Request
Additional Info	rmation	
Company Age	8 years	
Number of Employees	1200	
Annual Revenue	\$50,000,000	
Defaulted Payment	No	
Service Onboar	ding Information	
Services Fee \$15,00	0	
Services Requested		
Corporate Credit Car	d	

_77. **Click** on **Start a New Request** to get back to the first page to be able to continue onboarding more clients to Focus Crop.'s services

3.2.4 Checking the automatic email to Automation Elite Inc.

_78. **Open** your **email client** in case you have provided an email address on the first page that you can access

_79. Check your inbox for an email from focuscorpdemo

Your request has been approved [Reference ID: HP4A8LOJ]

focuscorpdemo@gmail.com to jmarie@example.com 👻
Hello June Marie,
This is with reference to your onboarding application with reference ID: HP4A8LOJ
Your onboarding request has been approved. For any questions, please use our live chat.
Regards,

Focus Corp

The email contains the reference ID as displayed on the final page of the Client Onboarding app. It lets you know that your onboarding request has been approved.

3.2.5 Checking the Client Rep notification about automated onboarding

_80. Switch back from the email client to the browser window containing the Client Onboarding app

_81. **Click** on the **hamburger menu icon** in the top left corner and **select Workplace** to switch from the Client Onboarding app to your general workplace. After a short moment it shows the tasks available to you.



When you complete a task, the task may still be shown for some seconds in the task list. It will disappear when the task list auto-refreshes itself.

_82. Open the task that is available to you as client rep by clicking on it

Workplace @											[44	
On track 1	•	At risk O		Overdue O		Total tasks 1						
Tasks	Workflows						Q	¢۹		Start wo	rkflow	+
	Status	Priority	Name							Due on		
× []	On track	Normal	Notificati	ion: Review Request C	ompleted [A	utomation Elite I	<u>nc.</u>]			Mar 1, 202	22	:
Items per page:	10	1 - 1 of 1 items						1	~	of 1 page	4	Þ

Depending on the network latency it may take a moment until the task page is loaded.

_83. **Observe** the **Approval Status** task page that shows that the client onboarding request was **Approved**

Workplace / Notification: Review F Normal priority Due on Mar 1, 2022	Request Completed [Automation Elite Inc.] 🥔 , 2:23 PM	## ;
Pocus Corp		Client Re
⊘ Document Review	⊘ Scoreboarding ⊘ Backend Systems Update Notification	
Client Name Automation Elite Inc.	Details Documents Activities History	
Approval Status Approved Reference ID T6XVBJDN Created on Mar 1, 2022, 1:22 PM	Scoreboard Segment	
Status Active Add comment The second	E Segment 1 V Low Risk	
8 cp4badmin	Confidence 97%	
The review for the onboarding request is now complete and the client has been notified of the approval status.	Onboarding Information	~
,,	✓ Complete Onboar	rding Request

_84. **Explore** the Documents, Activities, and History tabs

The **Documents** tab shows all documents that you had previously selected on the Review Documents page of the Client Onboarding app. They have been made part of the actual onboarding request.

Details	Documents	Activities	History					
Client	Documents					+	Ç	
	Banking Inform	ation - Automa	tion Elite Inc	cp4badmin	202	2/03/01 13:	22	
	Utility Bill - Auto	omation Elite Ir	ic	cp4badmin	202	2/03/01 13:	22	

The **Activities** tab shows the status and type of all activities of the request. Since this is a case in the Workflow system, any discretionary activities defined in the case would be available here so that they can be started by the client representative.

All required activities except the one you are in are completed now.

Two optional activities **Create New Proposal** and **Follow Up with Client** are ready. The client representative may decide to connect with the client as their onboarding request was approved to discuss the next steps to utilize the service. In addition, the client representative may also decide to create a new proposal for Automation Elite Inc. to up-sell additional services.

Yet these activities are optional, as the customer representative may choose not to perform any of them but just complete the notification task.

etails	Documents	Activities	History					
						C	All	,
Name			St	atus		Туре		
Notific	cation			Started on Mar 1, 2022, 1:2	23 PM	Requi	red	
Perfor	m Scoreboardin	g	\checkmark	Completed on Mar 1, 2022	, 1:23 PM	Requi	red	
Review	w Documents		~	Completed on Mar 1, 2022	, 1:23 PM	Requi	red	
Updat	e Backend Syste	ems	\checkmark	Completed on Mar 1, 2022	, 1:23 PM	Requi	red	
Create	e New Proposal			Ready Start Disable		Optio	nal	
Follow	Up with Client		•	Ready Start Disable		Optio	nal	
Per pa	age: 10	Showing 1 to 6	of 6 entries		1 ~	of 1 page	4	•

The History tab shows information about different types of events that happened for the request.

etalls	Documents	Activities	History						
							Ç	All	~
Name					Details	User	Las	t modified or	ı
The rev client h	view for the onb as been notified	oarding reques of the approval	t is now complete status.	and the	Comment added to case	cp4badmin	Mar	1, 2022, 1:2	3 PM
Update	Backend Syster	ns			Activity Completed	cp4badmin	Mar	1, 2022, 1:2	3 PM
Notifica	ation				Activity Started	cp4badmin	Mar	1, 2022, 1:2	3 PM
Notifica	ation				Stage Started	cp4badmin	Mar	1, 2022, 1:2	3 PM
Backen	d Systems Upda	te	and the second se		Stage Completed	cp4badmin	Mar	1, 2022, 1:2	3 PM

_85. **Click Complete Onboarding Request** to complete the task. This closes the task, brings you back to the now empty work list for the client rep and completes the fully automated onboarding for a low risk, high confidence client like Automation Elite Inc.

Workplace 🖉					ш
On track O	At risk O	Overdue O	Total tasks O		
Tasks Wo	rkflows		C	چ ک	Z Start workflow
Tasks					
	No tasks to d A task is an atom	isplay. ic unit of work that is included in	n a workflow activity, case, or proce	55.	

_86. Click on the hamburger menu icon in the top left corner and select Client Onboarding Request to switch back to the Client Onboarding app



This completes the part of the exercise where you actively perform steps.

3.2.6 Review of Stages Performed Automatically

As part of the above fully automated client onboarding workflow you directly worked on the fourth stage of the request processing (Notification). The three stages before that were already automatically completed and did not need manual activities.

This section provides information on how different aspects that happen automatically as part of the Client Onboarding are performed. You will not actively need to perform any steps, just read them. In chapter four you will again work directly with the Client Onboarding solution.

3.2.6.1 Document Review

6	Ocument Review	⊘ Scoreboarding	 Backend Systems Update 	Notification

The first stage during processing the onboarding request is the Document Review stage. For the above request you have specified in the front-office intake app that the two required documents are already verified. Therefore, this stage completes automatically.

3.2.6.2 Scoreboarding

 Document Review 	 ⊘ Scoreboarding 	 Backend Systems I 	Ipdate • Notification	

As described before, the Scoreboarding stage consists of two activities.

The first activity automatically applies prescriptive rules and AI models. It determines the segment this client belongs to, the risk associated with onboarding the client and the confidence of the assessment. The second activity is to manually review the onboarding request. However, in the request you created, the calculated confidence of the assessment is above 75%. Therefore, the second activity to manually review the request by an account manager is skipped.

For your request the client has been automatically onboarded, and the Scoreboarding stage has been automatically completed.

3.2.6.3 Backend Systems Update

 Document Review Scoreboarding 	 Backend Systems Update 	Notification
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As looked at before in the Backend Systems Update stage, Focus Corp. needs to update some of its legacy systems of record:

- The first is the Client Management System. It offers a Java rich client to add or update data.
- The second is the Service Management System. It offers a web interface to interact with it.

Striving for a high level of automation Focus Corp. wants to update the legacy systems automatically without involving a user. This also helps to remove the risk of potential human errors when copying and pasting information from one system to another. Therefore, they apply IBM Robotic Process Automation (RPA).

The execution of the RPA bot happens automatically in the background. To get an impression how the bot operates in this case where the client was onboarded the following screenshots explain the steps performed.

The first step is to create a client record or updating an existing client record in the Client Management System and to retrieve the Client ID for the client:

• The bot starts the Client Management System (with a Java UI) and logs into it.

🔞 Login			_	×
	User ID :	admin		
	Password :	•••••		
	Exit	Login		

• The bot enters all values from the Client Onboarding solution into the respective fields and clicks on the **Add/Update Client** button and retrieves the **Client ID** from the output text.

Client Name: Automat			on Elite Inc			
Onboarding Status: Approved			4			
Drimary (Contact	- approved	-			
N	June Maria O		Dhamai	C47 555 (
Name:	June Marie S	ample	Phone:	517-555-	0000	
Email:	jmarie@exar	nple.com				
Client Adv	Irone					
Street:	3974 Carso	n St	Unit	14		
0.000	Langing		01111			
City:	Lansing		State:	М		
Zip Code:	48911		Country:	nited S	tates of A	merica
Company A	ae:		10			
lumber of	Employees		1200			
Financial	lieter		1200			
Financial	HISTOLY	500000	00			
Annuali	vevenue:	500000	00			
🗌 Defau	ilted Paymer	ıt				
Sogmont						
 Segment Segment 	ent 1					
 Segm 	ent 2					
- Jogin						
	and the second s	an hann a	dded or und:	ated into s	vstem wit	th Clien
Automatic 82738058	on Elite Inc. ni }	as been a	lage of apa		,	

• Finally, it closes the Client Management System by clicking on Exit.

The second step is to record the services the client wants to onboard to in the Service Management System. This only applies when the onboarding request has been accepted, as Automation Elite Inc. has been, during the Scoreboarding stage.

• The bot starts a browser, navigates to the home URL for the Service Management System, and logs into it as well.

Ô	Focus Corp						
		Service	• Manaş	gement	System		
		User ID: Password:	admin				
		Login	I		Exit		

 The bot enters the Client ID retrieved from the Client Management System as well as the client name, industry, services to be signed up to, and services fees from the Client Onboarding solution into the respective fields and clicks Add.

	Servic	e Management S	ystem	
Client ID:	82738058	Client Name:	Automation Elite Inc.	
			Corporate Credit Card	^
Industry:	Finance	× Signed Services	Fraud Protection	
			Tax Consultation External Audit	~
Services Fees:	15000			

• Finally, the bot **clicks Exit** to **logout** from the Service Management System and **closes** the **browser window**.

These two System of Records in our scenario are just mockups of potential real client systems. They represent systems that don't offer APIs at all to programmatically interact with them or where parts like updates are just exposed through the native UI and not an API. Such systems can easily be automated using the RPA capability.

4 Exercise: Explore the Business Performance Center Dashboard

4.1 Introduction

In this exercise you switch into the role of the business owner of the Client Onboarding business of Focus Corp. You need to understand how your business performs and what actions to take to expand your business or course correct if needed.

For this purpose, you will make use of **Business Performance Center** (BPC) as part of **IBM Business Automation Insights** (BAI). BPC provides easy to use and meaningful dashboards to visualize business relevant KPIs for lines of business to have a near real-time view on their business operations.

4.2 Exercise Instructions

You continue to use the same user to access the BPC dashboard. You will see live data, so it may differ from the screenshot shown and may change over time as you are other participants perform onboarding requests.

_87. Open the Business Performance Center (BPC) using the link in your environment

_88. On the Dashboards tab that is shown click on the Client Onboarding Completed dashboard

IBM Cloud Pak Automation					er 🛑
Dashboards	Goals	Data permissions			
Dashboards (10) Dashboards display and track the perfor visual way.	mance of measurements in a Sea	ch Recently updated V All das	hboards 🗸 🗸	Import 🕒	Create +
Client Onboarding Completed of Custom visualizations for completed of Custom visualizations for completed of Custom Visualizations for Custom Visual	client onboarding requests.	Owner: cp4badmin Last updated: 2/28/2022, 5:03:04 PM	Everyone	Alerts Ø -	
سوسور و مراجه و سر ماجی .	ويتحيين بالوالو بالتجاري الوردور الوار	and the second	Manager &	- And and -	p. p. auso

_89. **Explore** the different types of charts and information in the dashboard.



Some examples of how to use the data based on the screenshot above are:

In the Approvals by Industry chart (second row, center) hover over the two segments in the inner circle to see which segment shows the approved and which the rejected onboarding requests and their respective percentage. You can then hover over the segment in the outer circle to see from which industries these are coming and their percentage. You might for example see that your business is weak in the insurance sector (brown color above) with a significantly high number of onboarding requests being rejected. This may lead you to investigate this issue more deeply and start an advertisement campaign.

- This is especially true looking at the **Highest Service Fee by Industry Sector** chart (first row, right) which indicates that in the Insurance industry you earn the highest service fees.
- If the **Approval Count of High-Risk Cases** chart (second in the third row) shows a high and potentially increasing number of approvals for high-risk onboarding request, you might want to investigate the cause of this. One reason might be that the machine learning model needs to be retrained or the threshold for the confidence changed. Another reason could be that your account managers approve to many high-risk onboarding requests to not lose business which may have a negative effect on the risk profile of your business.
- The **Completed Cases per Day** chart (second in the third row) can help you to see the distribution of completed onboarding request per day over a period of time. It also provides you a forecast based on past activity. This can enable you to plan your budgets and capacity.

5 Outlook

The Client Onboarding scenario is ever evolving. While it is already very comprehensive some interesting aspects are not yet implemented:

• Business Insights into how Client Onboarding is performing

Focus Corp. would want to have operational dashboards available for their managers to get operational details on the execution of the solution components to understand metrics such as task distribution, time taken by services, number of decisions executed and so on.

In a future version of the end-to-end scenario, we expect to include such capabilities via **Workforce Insights** as part of **IBM Business Automation Insights** (BAI). Workforce Insights enables the computation of various process related key performance indicators, such as the execution time for activities, waiting time for activities, activity execution frequency, reworks, actor efficiency rankings, team utilization statistics, and team throughput. Based on these dashboards and insights businesspeople may take manual actions to improve how the business performs.

• Client Onboarding to Focus Corp's Services Online

Currently the client must call Focus Corp. to place their onboarding request by talking to a customer representative. Focus Corp. may want to allow clients to request onboarding themselves by filling in a form. In addition to the ability to upload missing documents online, Focus Corp. may want to offer a self-service capability on their web site.

In a future version of the end-to-end scenario, we expect to incorporate a Chat bot capability provided via **IBM Robotic Process Automation (RPA)** to facilitate such requirements.

• Analyzing the Client Onboarding solution using IBM Process Mining

Focus Corp. is always looking for improvement opportunities to streamline their business activities. **IBM Process Mining** provides various means of analyzing execution logs of performed business processes to generate insights on how to improve them.

One of the challenges is having access to execution data to derive meaningful insights from. At this point IBM Process Mining does not yet provide built-in capabilities to extract these for the Workflow capability as part of Cloud Pak for Business Automation.

• Utilizing the capabilities of other IBM Cloud Paks

Focus Corp. has multiple custom Systems of Records and packaged solutions that should be connected to the client onboarding solution. Similarly, as this is a very critical business application Focus Corp. needs to ensure that it is constantly available, outages are avoided, or that it can at least be recovered instantly. As the solution accesses critical client data and internal information, it needs to be secured against any threads and attacks. Finally, as Focus Corp. is seeing the value of using machine learning they want to expand on it introducing proper governance etc. In a future version of the end-to-end scenario, we expect to address these by integrating capabilities from the

- IBM Cloud Pak for Integration to address connecting various systems
- IBM Cloud Pak for Watson AIOps to automate IT operations and deliver actionable insights
- IBM Cloud Pak for Security to gain insights into threats and risks and respond faster
- IBM Cloud Pak for Data to scale AI-powered transformation easily by unifying data and tools in a single solution

This completes the lab to experience how IBM Cloud Pak for Business Automation can be used in a simplified version of a Client Onboarding solution as part of Focus Corp's service business.

Congratulations on completing the lab!

We love to hear your **feedback**.

Depending on the venue, please provide feedback via the Slack channel, during the Webex calls, by sending an email to the authors (<u>Olaf.Hahnl@de.ibm.com</u> / <u>aswapnil@ca.ibm.com</u>), and through the survey at the end of the event.