



ABBYY[®]

FlexiCapture[®] 12

Connector for UiPath Guide

Table of Contents

About the ABBYY FlexiCapture Connector for UiPath	4
System requirements	4
Multi-Task Package	4
Architecture	4
UiPath Activity Package	5
UiPath Processes	10
Installation	12
Configuring and starting the components	13
Usage scenarios	18
ABBYY FlexiCapture as an unattended service	18
ABBYY FlexiCapture as an attended service	20
Customizing processes in UiPath	20
Customizing timeouts in the Batch Monitor process	20
Customizing queue names	22
Customizing assets and credential names	26
Configuring ABBYY FlexiCapture project	29
Creating an export profile	31
Configuring an ABBYY FlexiCapture workflow	33
Single-Task Package	34
Architecture	34
Usage scenarios	35
FlexiCapture as an unattended service	35
Configuring the document processing settings	35
FlexiCapture as an attended service	36
Configuring the document processing settings	36
FlexiCapture as input	37
Installing, configuring, and starting the Capture Data activity in UiPath	37
Installing the Abbyy.Activities.UiPath.FlexiCaptureActivities activity package	37
Setting up the Capture Data activity	40
Configuring Capture Data activity properties	41
A sample UiPath process – using the Capture Data activity	43
Configuring ABBYY FlexiCapture project	44
FlexiCapture Export Connector installation	45
Adding the assemblies to a Document Definition	45
FlexiCapture export profiles	46
Standard XML export profile	46
Script export profile to UiPath Orchestrator	47
Specifying export options	49

Table of Contents

Receiving data from a transaction in the Orchestrator queue 54

About the ABBYY FlexiCapture Connector for UiPath

ABBYY FlexiCapture 12 enables users to perform high-quality full-text recognition, classify documents, detect fields and capture their data, and convert files into various formats (e.g. searchable PDF).

ABBYY FlexiCapture Integration Solution for UiPath is intended for sending document files from UiPath to ABBYY FlexiCapture and loading document files and captured data into the UiPath robotic process automation system.

ABBYY FlexiCapture Integration Solution for UiPath is provided as two separate solutions, a [Multi-Task Package](#) and a [Single-Task Package](#).

The [Multi-Task Package](#) is intended for concurrent processing of multiple documents. Each activity in this solution is used for some type of interaction with ABBYY FlexiCapture.

The [Single-Task Package](#) is intended for processing documents one at a time. The program will start on a new document only after the current document has been processed.


System requirements

UiPath side:

- UiPath Enterprise Edition 19.4.4 or Community Edition 19.7.0;
- Microsoft .NET Framework 4.6.1.

ABBYY FlexiCapture side:

- ABBYY FlexiCapture 12.0.2.3104 Distributed or ABBYY FlexiCapture Cloud;
- Microsoft .NET Framework 4.6.1.

 **Important!** To be able to send documents from UiPath to ABBYY FlexiCapture, you need to open the following port in the firewall to the ABBYY FlexiCapture Application Server: port 80 (if HTTP is used) or port 443 (if HTTPS is used).

Multi-Task Package

Architecture

The ABBYY FlexiCapture 12 multi-task integration solution for UiPath comprises the following components:

- [UiPath Activity Package](#).
- [UiPath Processes](#).
- UiPath Queues, which is required in order for the default processes to function properly. The ABBYY FlexiCapture 12 multi-task integration solution for UiPath requires the addition of the following queues: **Monitor Queue**, **Verifier Queue**, and **Fetcher Queue**. Queues are used for storing the IDs of the batches with which the processes are currently working.
- UiPath Assets/Credential, which makes setting up a ABBYY FlexiCapture server connection easier. These values are used by all of the processes. The ABBYY FlexiCapture 12 multi-task integration solution for UiPath requires the addition of the **FlexiCapture Credentials** credential

and the following assets: **FlexiCapture Server Address**, **FlexiCapture Company**, **FlexiCapture Project Name**.

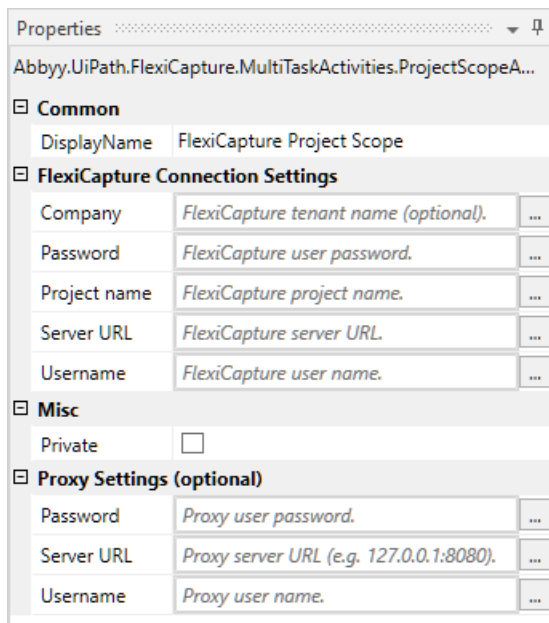
UiPath Activity Package

The **Abbyy.UiPath.FlexiCapture.MultiTaskActivities.nupkg** activities package offers all the functionality you need to work with ABBYY FlexiCapture 12. It includes the following activities for working with ABBYY FlexiCapture:

- [FlexiCapture Project Scope](#)
- [Create Batch](#)
- [Get Batch Stage](#)
- [Get Batch Verification URLs](#)
- [Fetch Batch Result](#)

FlexiCapture Project Scope

This activity is used for initializing the other activities in the package through the ABBYY FlexiCapture 12 connection settings. These other activities are placed in the child activity area to give them access to the ABBYY FlexiCapture connection settings.



Properties	
Abbyy.UiPath.FlexiCapture.MultiTaskActivities.ProjectScopeA...	
Common	
DisplayName	FlexiCapture Project Scope
FlexiCapture Connection Settings	
Company	FlexiCapture tenant name (optional). ...
Password	FlexiCapture user password. ...
Project name	FlexiCapture project name. ...
Server URL	FlexiCapture server URL. ...
Username	FlexiCapture user name. ...
Misc	
Private	<input type="checkbox"/>
Proxy Settings (optional)	
Password	Proxy user password. ...
Server URL	Proxy server URL (e.g. 127.0.0.1:8080). ...
Username	Proxy user name. ...

The following is a list of activity parameters that are inherited by child activities:

Category	Display Name	Type	Description
FlexiCapture Connection Settings	Server URL	Uri	Server address (without the tenant)
FlexiCapture Connection Settings	Company	String	Server tenant name (optional)
FlexiCapture Connection Settings	Username	String	User name
FlexiCapture Connection Settings	Password	SecureString	User password
FlexiCapture Connection Settings	Project name	String	Project name
Proxy Settings (optional)	Server URL	Uri	Proxy server address
Proxy Settings (optional)	Username	String	User name
Proxy Settings (optional)	Password	SecureString	User password

The FlexiCapture Project Scope designer allows you to manage connection settings and child activities:

FlexiCapture Project Scope

FlexiCapture 12 connection settings

Server URL
Provide URL of FlexiCapture Application Server.

Company
Enter FlexiCapture tenant name (optional).

Username
Enter FlexiCapture user name.

Password
Provide ABBYY FlexiCapture user password.

Project name
Enter project name on FlexiCapture Application Server.

Do

Create Batch

If you are using a proxy:

1. Create the following variables:
 - A variable of type **Uri** named **ProxyAddress** with the following value:

New UriBuilder ("http://proxyserver:8080").Uri. In place of **"http://proxyserver:8080"**, specify the address and port of the proxy server.

- A variable of type **NetworkCredential** named **ProxyCredential** with the following value: **New System.Net.NetworkCredential("proxyuser", "proxypass")**. In place of **"proxyuser"** and **"proxypass"**, specify the proxy credentials separated by a comma. Create this variable if your proxy uses Basic authentication.

Name	Variable type	Scope	Default
ProxyAddress	Uri	Process Transaction	New UriBuilder("http://192.168.1.35:3128").Uri
ProxyCredential	NetworkCredential	Process Transaction	New System.Net.NetworkCredential("Administrator", "Pass@123")

2. Use the variables created in step 1 to pass the proxy connection settings to the FlexiCapture Project Scope activity (click **FlexiCapture Project Scope** → **Proxy Settings (optional)**). Depending on the authentication type required by the proxy, do the following:

- If a transparent proxy is used, in the **Server URL** field, pass the proxy server address and port as the value of the **ProxyAddress** variable and leave the **Username** and **Password** fields empty.
- If the proxy uses NTLM authentication, in the **Server URL** field, pass the proxy server address and port as the value of the **ProxyAddress** variable and leave the **Username** and **Password** fields empty. The credentials under which the UiPath process is running will be used.
- If the proxy uses Basic authentication, in the **Server URL** field, pass the proxy server address and port as the value of the **ProxyAddress** variable. In the **Username** and **Password** fields, pass the proxy credentials as the values of the corresponding properties of the **ProxyCredential** variable.

Properties

Abbyy.UiPath.FlexiCapture.MultiTaskActivities.ProjectScopeActivity

Common

DisplayName FlexiCapture Project Scope

FlexiCapture Connection Settings

Misc

Proxy Settings (optional)

Password ProxyCredential.SecurePassword

Server URL ProxyAddress

Username ProxyCredential.UserName

Note: These proxy server settings will be inherited by all the child activities of this Project Scope.

Create Batch

This activity is used to send files to ABBYY FlexiCapture 12 for processing. ABBYY FlexiCapture creates a batch with a unique identifier for all documents sent by this activity. This identifier is then returned as the **Batch ID** output argument.

Properties

Abbyy.UiPath.FlexiCapture.MultiTaskActivities.SendActivity

Common

DisplayName: Create Batch

Input

Batch files: Collection of files to upload into a batch.

Batch registration parameters: Collection of batch registration parameters (optional).

Batch type name: Name of batch type (optional). Empty value corresponds to the "Default" batch type.

Misc

Output

Batch ID: The ID of batch.

Activity parameters:

Category	Display Name	Type	Description
Input	Batch type name	String	Name of the batch type for the batch that is being created (optional)
Input	Batch registration parameters	IEnumerable<KeyValuePair<String,String>>	A collection of registration parameters for the batch that is being created, specified in the following format: Registration parameter name — Registration parameter value (optional)
Input	Batch files	IEnumerable<KeyValuePair<String,Byte[]>>	A collection of input files for the batch that is being created, specified in the following format: File name — Byte content
Output	Batch ID	Int32	ID of the created batch

Get Batch Stage

This activity is used to get information about the current batch stage. Values describing the batch state can be used, for example, to group batches for processing by their current stage.

Properties

Abbyy.UiPath.FlexiCapture.MultiTaskActivities.MonitorActivity

Common

DisplayName: Get Batch Stage

Input

Batch ID: The ID of batch.

Misc

Output

Details: Details about current batch status. Includes document errors if batch is on 'Exceptions' stage type.

Stage name: The name of the current processing stage for batch.

Stage type: The type of the current processing stage for batch.

Activity parameters:

Category	Display Name	Type	Description
Input	Batch ID	Int32	Batch ID
Output	Stage type	Enum	Processing stage type
Output	Stage name	String	Processing stage name
Output	Details	String	Additional information about the state of the batch

Get Batch Verification URLs

This activity is used to get a set of links to the ABBYY FlexiCapture Web Verification Station for batch verification (uses the batch ID).

Activity parameters:

Category	Display Name	Type	Description
Input	Batch ID	Int32	Batch ID
Output	Verification URLs	IEnumerable<Uri>	A set of batch verification URLs

Fetch Batch Result

This activity is used to get the batch processing results.

Activity parameters:

Category	Name	Display Name	Type	Description
Input	BatchId	Batch ID	Int32	Batch ID
Output	BatchRegistrationParameters	Batch registration parameters	IEnumerable<KeyValuePair<String,String>>	Batch registration parameter set
Output	DocumentProcessingResults	Document processing results	IEnumerable<DocumentProcessingResult>	Batch document processing result set

DocumentProcessingResult class properties:

Name	Type	Description
DocumentId	Int32	Document ID
DocumentDefinition	String	Name of the matched document definition
Files	IEnumerable<KeyValuePair<String,Byte[]>>	Export files

UiPath Processes

The ABBYY FlexiCapture Multi-Task Package includes the following processes:

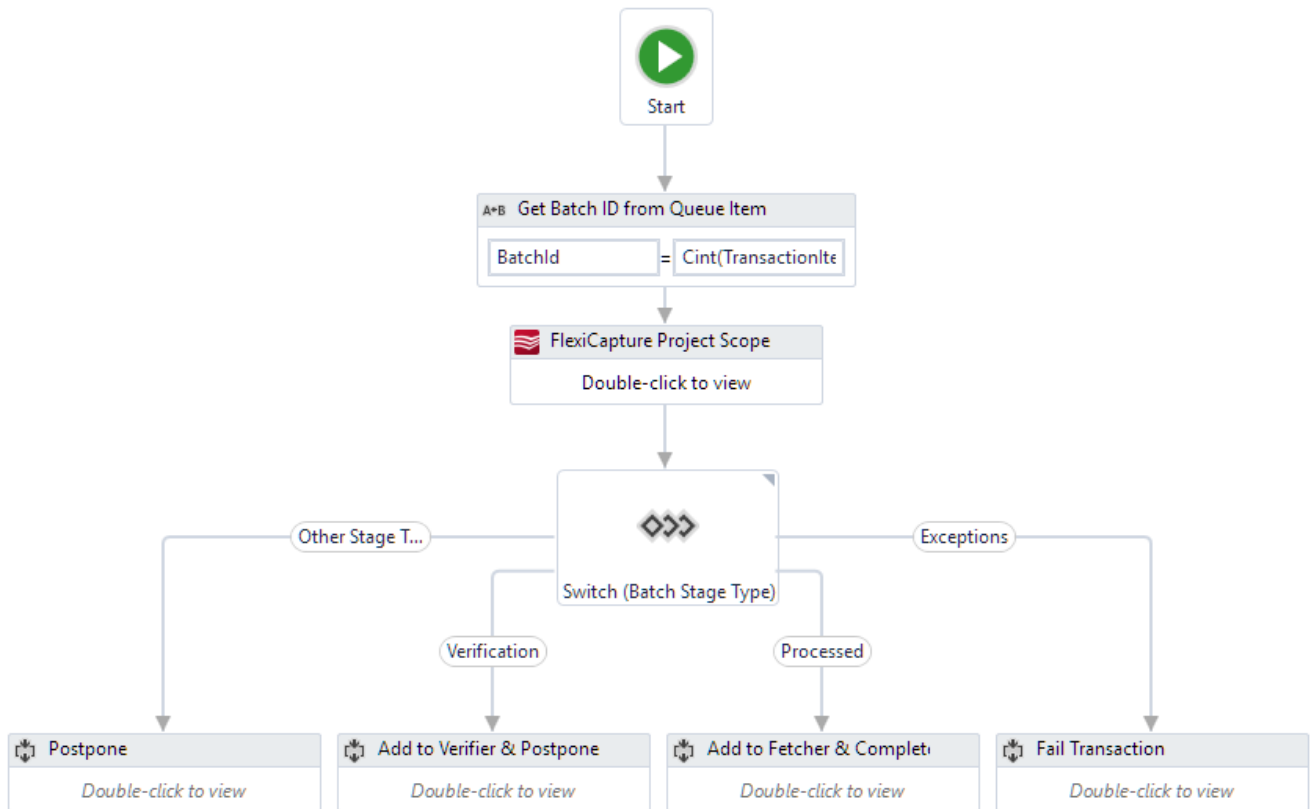
- [Batch Sender](#)
- [Batch Monitor](#)
- [Batch Verifier](#)
- [Batch Fetcher](#)
- [Batch Processor – single process](#)

Batch Sender

This process takes files from a folder and uses the **Create Batch** activity to send them to ABBYY FlexiCapture 12 for processing. ABBYY FlexiCapture will create a single batch for each file it finds in that folder. Next, the ID of the newly created batch is added to the **Monitor Queue** for subsequent processing in the **Batch Monitor** process.

Batch Monitor

This is a constantly running process which handles items in the **Monitor Queue**.



Using the **Get Batch Stage** activity, it gets the stage of a batch and performs the following:

- For a batch at the "**Processed**" stage, a new item will be added to the **Fetcher Queue**, after which the item in the **Monitor Queue** will be marked as successfully processed.
- For a batch at the "**Verification**" stage, a new item will be added to the **Verifier Queue** and the processing of the item in the **Monitor Queue** will be postponed. The element will not be added to the **Verifier Queue** once again.
- If a batch is at the "**Exceptions**" stage (where they may be placed due to processing errors), an item in **Monitor Queue** will be marked as an exception. The text of the error message will be recorded in the "**Reason**" section.
- For a batch at any other stage, the processing of the **Monitor Queue** will be postponed.

Note: We recommend that you launch this process from UiPath Orchestrator.

Batch Verifier

This process handles items from the **Verifier Queue**, one item at a time. It gets verification URLs by the ID of the batch and opens them in a browser, where the respective documents can be verified by the verifier. Once verified, an item is marked as completed.

Batch Fetcher

This is a constantly running process which handles items from the **Fetcher Queue**. It accepts batch processing results and saves the export files created for each document in a batch. Once the export files are saved, the process marks the item as successfully processed.

Batch Processor – single process

This process performs a full document processing procedure in ABBYY FlexiCapture: creates batches, checks their status, gets verification URLs, and downloads the processing results. **Batch Processor - single process** comprises the following processes: **Batch Sender**, **Batch Monitor**, **Batch Verifier**, and **Batch Fetcher**.

This process does not require UiPath Orchestrator assets and queues. It can be launched from the UiPath Studio without connecting a Robot to the Orchestrator.

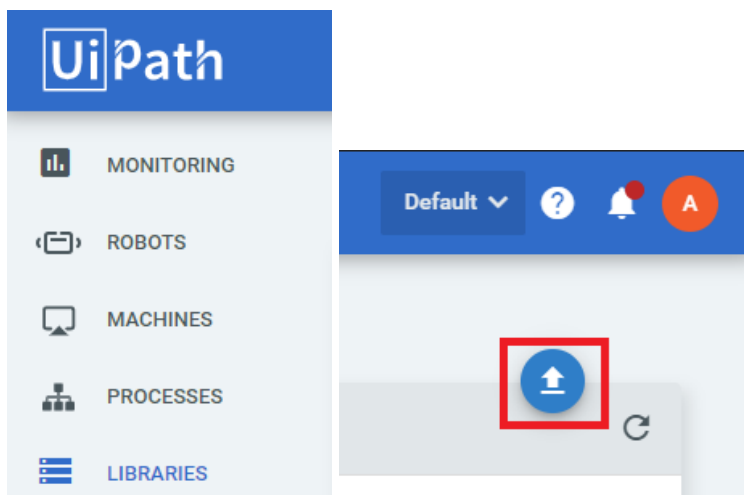
Installation

Installation of the Multi-Task Package in UiPath consists of the following steps:

- [activity package installation](#);
- [process installation](#).

Installing the Abbyy.UiPath.FlexiCapture.MultiTaskActivities activity package


- If you are using UiPath Community, copy the **Abbyy.FlexiCapture.WebApi.Client.nupkg** and **Abbyy.UiPath.FlexiCapture.MultiTaskActivities.nupkg** packages to the local activity feed folder found in `%localappdata%\UiPath\app-XX.X.X\Packages`, where XX.X.X denotes the UiPath version.
- If you are using UiPath Enterprise:
 - open Orchestrator as an administrator and go to the **Libraries** tab;
 - click **Upload** and choose the following packages to be uploaded: **Abbyy.FlexiCapture.WebApi.Client.nupkg** and **Abbyy.UiPath.FlexiCapture.MultiTaskActivities.nupkg**.



Once they have been uploaded, the packages will become accessible for all Robots connected to Orchestrator.

Installing UiPath processes

To install the **Batch Sender**, **Batch Monitor**, **Batch Verifier**, and **Batch Fetcher** processes, copy the appropriate folders from the installation directory to any location on your local machine. After that, open the processes in UiPath Studio and click **Publish** on the **Design** tab to publish them in UiPath Orchestrator.

 **Note:** Processes should only be launched once [queues](#) and [assets](#) have been created in Orchestrator. For more information about launching processes, see [Launching the processes](#).

To install the **Batch Processor – single process** process, copy the folder containing it to your local machine. For more information about launching this process, see [Launching Batch Processor – single process](#).

Configuring and starting the components

[Creating UiPath Orchestrator queues](#)

[Creating UiPath assets](#)

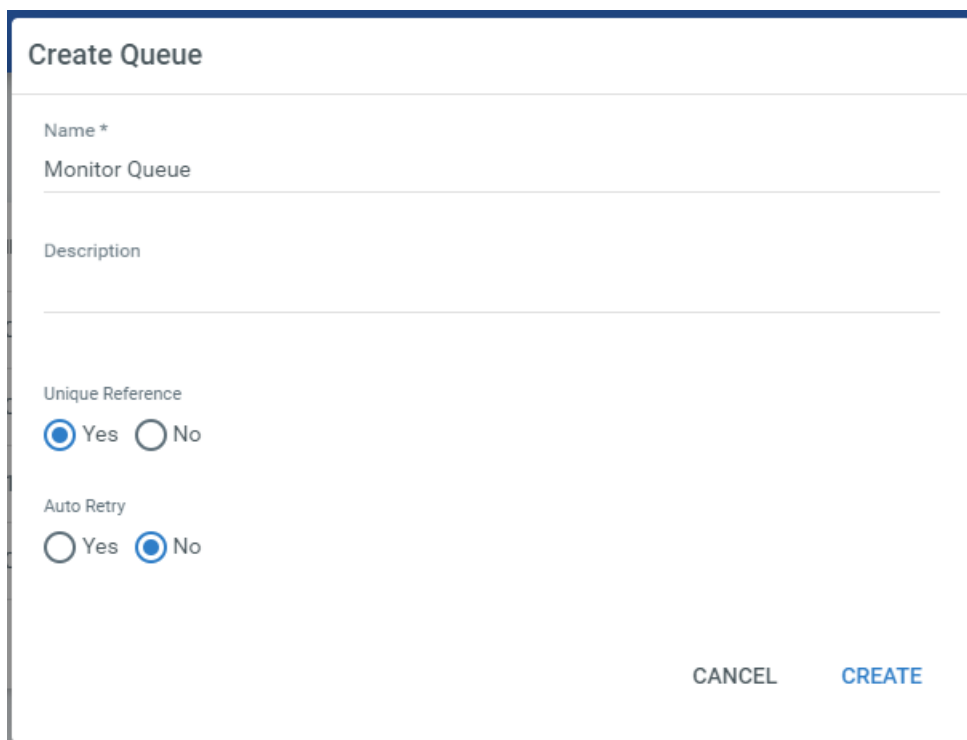
[Launching the Batch Sender, Batch Monitor, Batch Verifier, and Batch Fetcher processes](#)

[Launching Batch Processor – single process](#)

Creating UiPath Orchestrator queues

To create a UiPath Orchestrator queue:

1. Open the **Queues** tab in Orchestrator.
2. Create three queues with the following names: **Monitor Queue**, **Verifier Queue**, and **Fetcher Queue**. During the creation process, select the following options: **Unique Reference: Yes** and **Auto Retry: No**.



Create Queue

Name *

Monitor Queue

Description

Unique Reference

☒ Yes ☐ No

Auto Retry

☐ Yes ☒ No

CANCEL CREATE

 **Note:** To modify the queue names, follow the steps outlined in [Customizing queue names](#).

Creating UiPath assets

UiPath Orchestrator assets and credentials are used in UiPath processes to store settings for connecting to ABBYY FlexiCapture 12.

To create UiPath assets:

1. Log in to Orchestrator as an administrator.
2. Go to the **Assets** tab.
3. Create the following *Text*-type assets:
 - **FlexiCapture Server Address**. Specify the ABBYY FlexiCapture Application Server address as this asset's **Value**.

SINGLE VALUE	VALUE PER ROBOT
Asset name *	Type
FlexiCapture Server Address	Text
Value *	
http://10.21.9.10	
<div>CANCEL UPDATE</div>	

- **FlexiCapture Company** (optional) – name of the tenant (company) on the ABBYY FlexiCapture Application Server. Create this asset if you are using FlexiCapture Cloud or a local multi-tenant system.


SINGLE VALUE	VALUE PER ROBOT
Asset name *	Type
FlexiCapture Company	Text
Value *	
Tenant_name	
<div>CANCEL UPDATE</div>	

- **FlexiCapture Project Name**. For this asset's Value, specify the name of the project that you will be using to process documents. For more information about setting up and uploading a project to a server, see [Configuring a FlexiCapture project](#).

SINGLE VALUE	VALUE PER ROBOT
Asset name *	Type
FlexiCapture Project Name	Text
Value *	
InvoiceDemoProject_Multitask	
<div>CANCEL UPDATE</div>	

4. Create the credentials. To do this, create a **Credential**-type asset and name it **FlexiCapture Credentials**. Fill out the **Username** and **Password** fields with the ABBYY FlexiCapture user name and password.

SINGLE VALUE	VALUE PER ROBOT
Asset name *	Type
FlexiCapture Credentials	Credential
Username *	Password *
Administrator
<div>CANCEL UPDATE</div>	

 **Note:** The user specified in the ABBYY FlexiCapture asset should either have both the Scanning Operator and the Verification operator roles, or the Administrator role. Access rights must be set up by a ABBYY FlexiCapture administrator using the Administration and Monitoring Console. For more information about setting up access rights, see the [Administration and Monitoring Console help guide](#).

Launching the Batch Sender, Batch Monitor, Batch Verifier, and Batch Fetcher processes

Before launching the processes, make sure that the appropriate [queues](#) and [assets](#) have been created in Orchestrator and that the [FlexiCapture project has been uploaded to the ABBYY FlexiCapture Application Server and set up correctly](#).

At least two UiPath Robots will also be needed to launch the processes. One of the robots should always be running the **Batch Monitor** process, while the other robot (or several others) should be used to launch the **Batch Sender**, **Batch Verifier**, and **Batch Fetcher** processes.

You can create robots on different machines. Or you can [create robots on a single machine](#) that has the Windows Server Operating System.

1. [Create](#) two standard robots, one of which will be of the **Unattended** type.

2. [Publish](#) the **Batch Monitor**, **Batch Sender**, **Batch Verifier**, and **Batch Fetcher** processes to Orchestrator.
3. For each published package, [deploy the process](#) in the same environment, of which the created robots are part.

The screenshot shows the UiPath Administrator interface with the 'Processes' tab selected. The left sidebar contains navigation icons for MONITORING, ROBOTS, MACHINES, PROCESSES (highlighted), LIBRARIES, JOBS, and SCHEDULES. The main area displays a table of deployed processes:

	NAME	VERSION	ENVIRONMENT
<input checked="" type="checkbox"/>	Batch_Fetcher	1.0.1	env
<input checked="" type="checkbox"/>	Batch_Monitor	1.0.2	env
<input checked="" type="checkbox"/>	Batch_Sender	1.0.3	env
<input checked="" type="checkbox"/>	Batch_Verifier	1.0.1	env

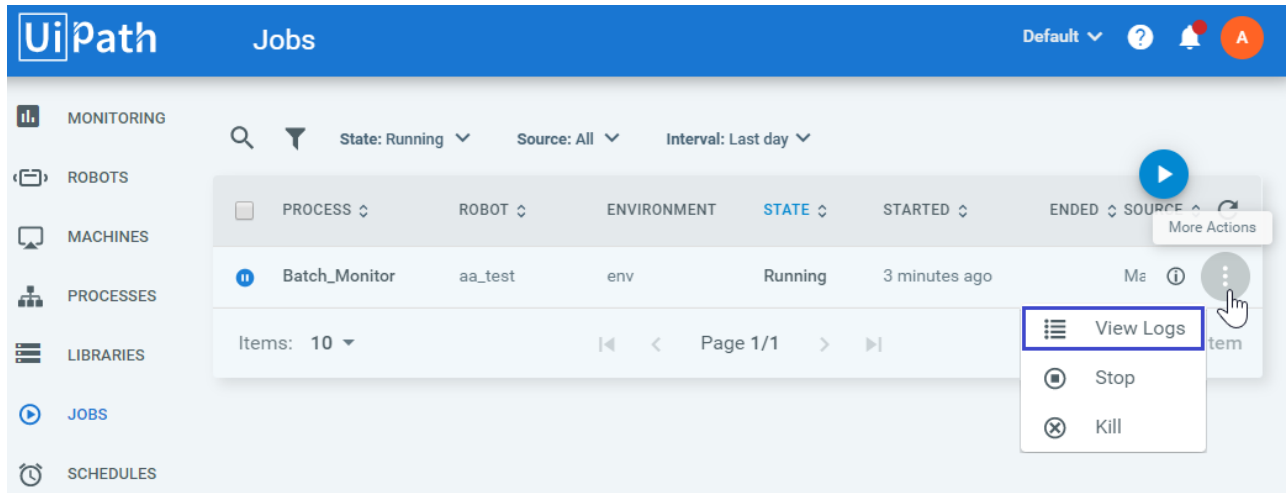
4. Go to the **Jobs** tab in Orchestrator. Create a new Job for the **Batch Monitor** process and set it up to execute an Unattended-type robot.

The screenshot shows the 'Start Job' dialog box in UiPath Orchestrator. The 'Process' dropdown is set to 'Batch_Monitor_env'. The 'Execution Target' tab is active, showing radio buttons for 'Specific robots' (selected) and 'Allocate dynamically'. Below, a table lists available robots:

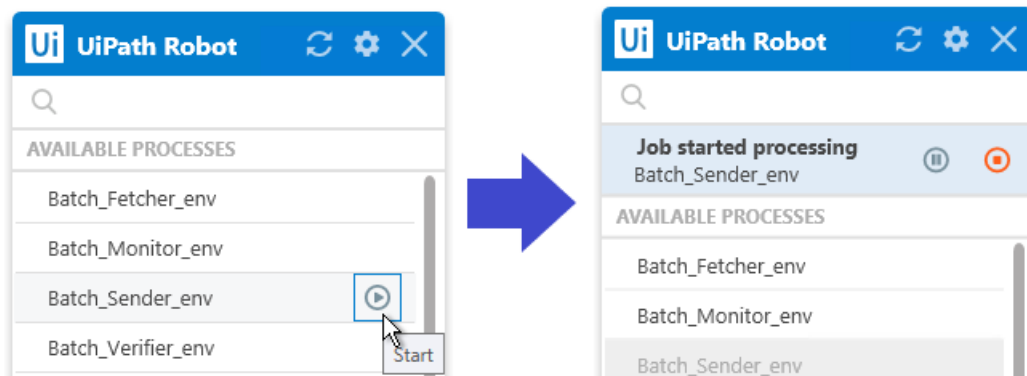
ROBOT	MACHINE	STATUS
<input checked="" type="checkbox"/> Local Administrator	pe-uipath-2	Available
<input checked="" type="checkbox"/> aa_test	pe-uipath-2	Available

At the bottom, there are 'CANCEL' and 'START' buttons. The 'aa_test' robot is highlighted with a blue border.

The **Batch Monitor** process will be launched using the specified robot and its Job will now have the **Running** status. To see the process logs, go to **More Actions** → **View Logs**.



- Next, launch **Batch Sender** on a different robot. This process will send files from the selected folder to ABBYY FlexiCapture for processing. You can also launch **Batch Sender** using the Orchestrator **Jobs** tab, UiPath Studio, or the [system tray of the robot's machine](#).



- Wait until document processing has finished. If the batches have been processed successfully, the status of the transaction in the **Monitor Queue** will be changed to **Successful** and new transactions will appear in the **Batch Fetcher** queue.
- Launch the **Batch Fetcher** process to download the batch processing results. The status of the transaction in **Fetcher Queue** will be changed to **Successful**.
- If the sent batch reaches the verification stage in ABBYY FlexiCapture, the **Batch Monitor** process will create a transaction using the batch's ID in **Verifier Queue**. If transactions with the *New* status exist in this queue, launch the **Batch Verifier** process to get a batch verification URL. After that, verify the document data and complete the verification task.

After that, the batches will be exported and moved to the *Processed* stage. **Batch Monitor** will change the status of the appropriate transactions in **Monitor Queue** to *Successful* and add new transactions to **Fetcher Queue**.

To download the processing results for verified batches, launch the **Batch Fetcher** process for each **Fetcher Queue** transaction.

Launching Batch Processor – single process

Before launching the process, make sure that the [FlexiCapture project has been uploaded to the ABBYY FlexiCapture Application Server and set up correctly](#). The **InvoiceDemoProject_Multitask** test project can also be uploaded to the server from the connector installation directory located in **\Multi-task package\Samples\FlexiCapture Projects**.

1. Open **Batch Processor – single process** in UiPath Studio.
2. Open the **Variables** tab.
3. Specify the settings for connecting to ABBYY FlexiCapture using the following variables:

FlexiCaptureServerUrl, FlexiCaptureCompany, FlexiCaptureUsername, FlexiCapturePassword, FlexiCaptureProject, and FlexiCaptureBatchType.

 **Note:** For the **InvoiceDemoProject_Multitask** project, the following can be specified in the *FlexiCaptureBatchType* variable:

- The **Unattended service** value — for demonstrating a verification-less processing scenario.
 - The **Attended service** value — for demonstrating a processing scenario with verification.
4. Create a new folder on your local machine and copy several images from the ABBYY FlexiCapture project's **Images** folder to this new folder.
 5. Go to the **Design** tab in UiPath Studio and click **Run**.
 6. Once the process has been launched, specify the folder where you have placed the image samples. Files from that folder will be sent to ABBYY FlexiCapture for processing.
 7. Wait until file recognition has finished. Next, do the following (depending on the chosen scenario):
 - Choose a folder where the processing results will be saved.
 - or
 - Complete the verification, and after that choose a folder where the processing results will be saved.

Usage scenarios

The ABBYY FlexiCapture Multi-Task Package for UiPath can typically be used in the following scenarios:

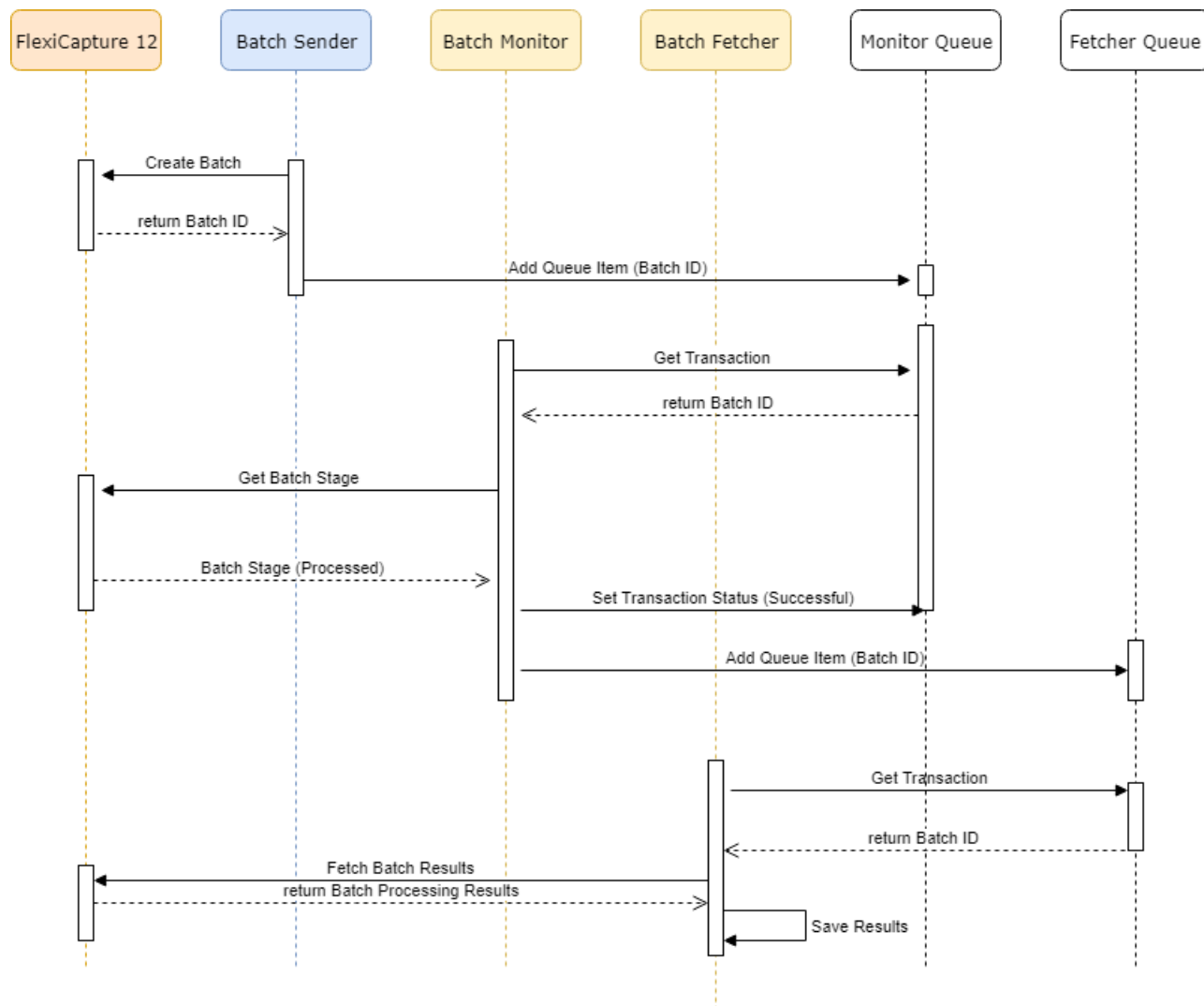
- [ABBYY FlexiCapture as unattended service](#).
- [ABBYY FlexiCapture as attended service](#).

ABBYY FlexiCapture as an unattended service

In this scenario, ABBYY FlexiCapture processes documents without human assistance and recognition results are not verified by human operators.

At least one instance of the **Batch Monitor** process is constantly running. **Batch Sender** process sends files to ABBYY FlexiCapture for processing. The **Batch Fetcher** process saves the exported files of batches that have been processed successfully.

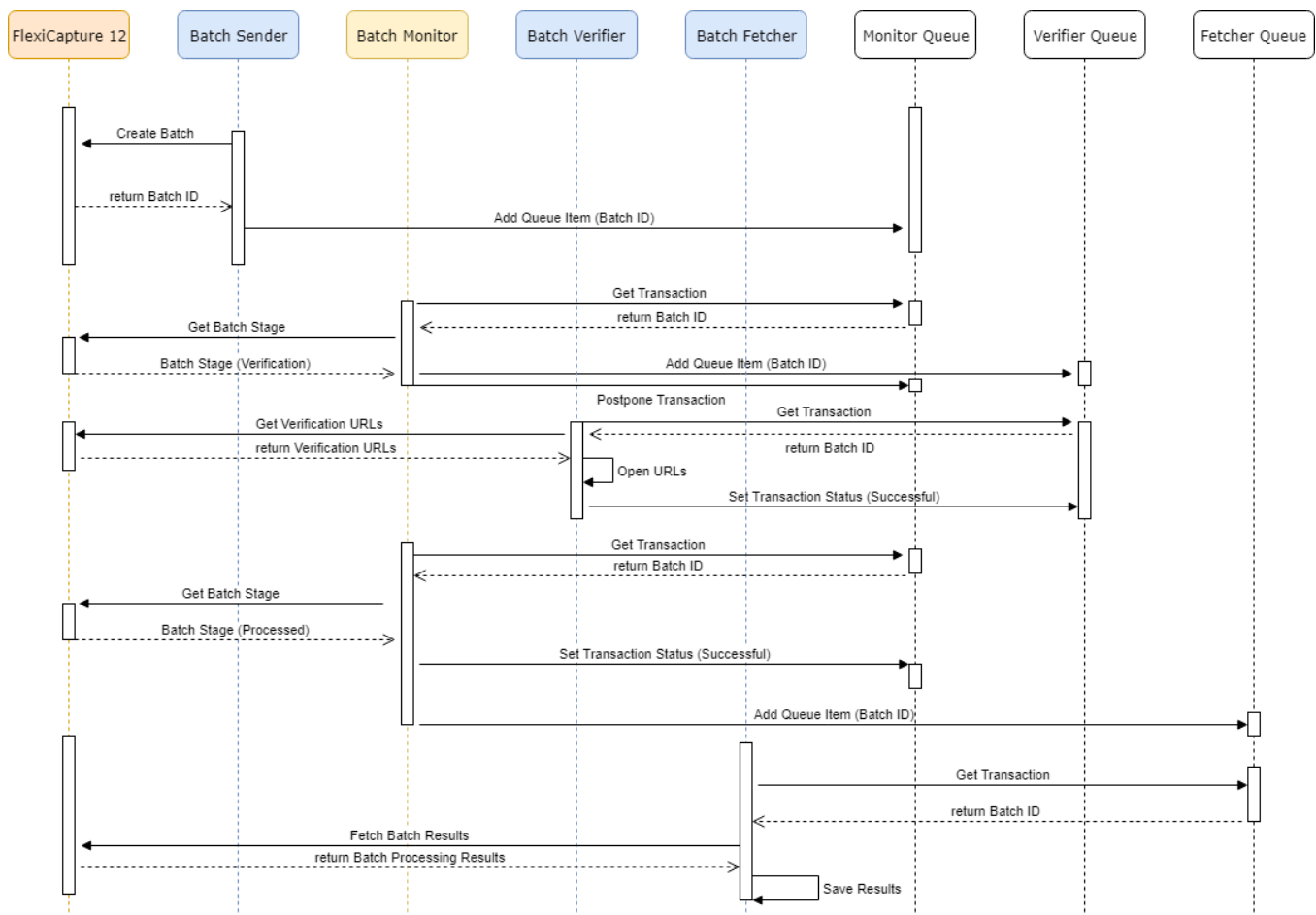
The **Monitor Queue** is used for transferring batch IDs between the **Batch Sender** and **Batch Monitor** processes, and the **Fetcher Queue** is used for transferring batch IDs between the **Batch Monitor** and **Batch Fetcher** processes.



ABBYY FlexiCapture as an attended service

In this scenario, a human operator verifies documents on the Web Verification Station.

This scenario extends the "[ABBYY FlexiCapture as unattended service](#)" scenario with a **Batch Verifier** process and a **Verifier Queue**.



Customizing processes in UiPath

[Customizing timeouts in the Batch Monitor process](#)

[Customizing queue names](#)

[Customizing assets and credential names](#)

Customizing timeouts in the Batch Monitor process

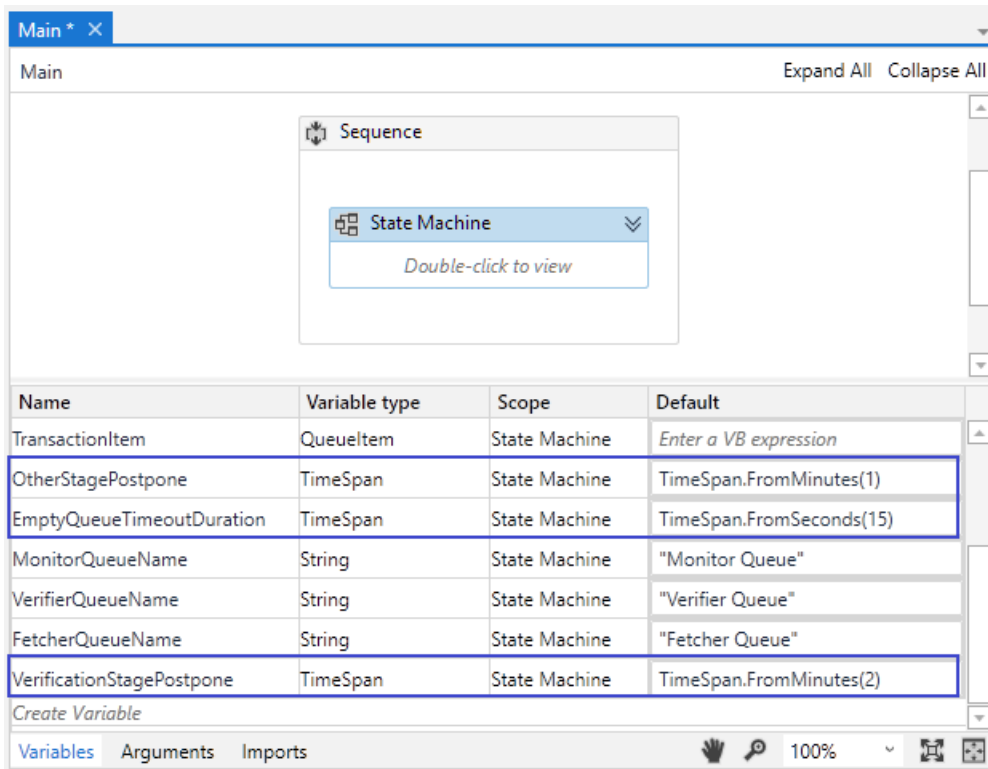
The following TimeSpan-type variables are used for specifying the timeout length in the **Batch Monitor** process:

Variable name	Purpose	Default value
EmptyQueueTimeoutDuration	Length of time for which the next attempt to get a transaction from the Monitor Queue will be postponed when no documents are present in the queue	15 seconds
VerificationStagePostpone	Length of time for which the next batch stage check will be postponed for the current transaction if the batch was in the Verification stage at the time of the check	2 minutes
OtherStagePostpone	Length of time for which the next batch stage check will be postponed for the current transaction if the batch is not in any of the following stages: Processed, Exceptions, Verification	1 minutes

Increasing the **VerificationStagePostpone** and **OtherStagePostpone** timeout values can increase the total processed transaction volume.

To modify the timeout values:

1. Open the **Batch Monitor** process in UiPath Studio, navigate to the **State Machine** area and expand the **Variables** pane.
2. Modify the value of the **EmptyQueueTimeoutDuration** variable to decrease or increase the time between attempts to get a transaction if the queue is empty.
3. If the **Batch Monitor** process cannot check the whole queue in time due to a large number of delayed transactions, increase the values of the **VerificationStagePostpone** and **OtherStagePostpone** variables.



4. Once the changes have been made, publish the process to Orchestrator again.

Customizing queue names

By default, queues should have the following names:

- Monitor Queue
- Verifier Queue
- Fetcher Queue

If the need arises, queues with non-default names can be created by specifying the appropriate non-default names inside the process variables.

The Batch Sender process

For this process, specify the name of the queue to which identifiers of the created batches will be added.

1. Open the process in UiPath Studio and expand the **Variables** tab.
2. Navigate to the **Flowchart** area and enter the new queue name in the **Default** column for the **MonitorQueueName** variable.

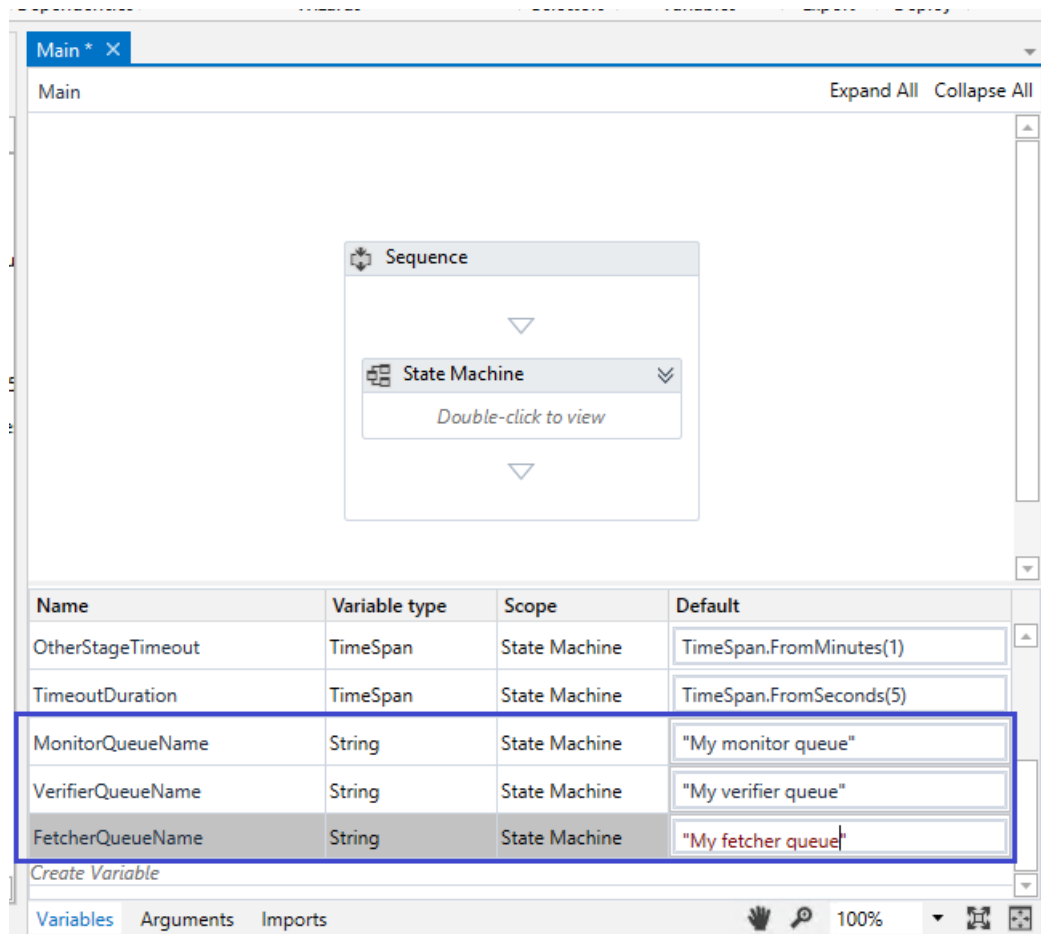
The screenshot shows the UiPath Studio interface. At the top, there's a 'Main' tab with a close button. Below it, the 'Main' workspace contains a flowchart with three steps: 'Start', 'Load Files from Directory', and 'Add Registration Paramete'. Below the flowchart, there's a table with columns: Name, Variable type, Scope, and Default. The table lists several variables, including 'MonitorQueueName' which is highlighted. At the bottom, there's a 'Variables' pane with tabs for 'Variables', 'Arguments', and 'Imports'. The 'Variables' tab is active, showing the same table as above.

Name	Variable type	Scope	Default
FlexiCaptureUsername	String	Flowchart	""
FlexiCapturePassword	SecureString	Flowchart	New SecureString()
FlexiCaptureProject	String	Flowchart	""
RegistrationParameters	Dictionary<String,	Flowchart	new Dictionary(Of String, String)()
BatchId	Int32	Flowchart	-1
MonitorQueueName	String	Flowchart	"My monitor queue"

The Batch Monitor process

For this process, specify the names of all 3 utilized queues.

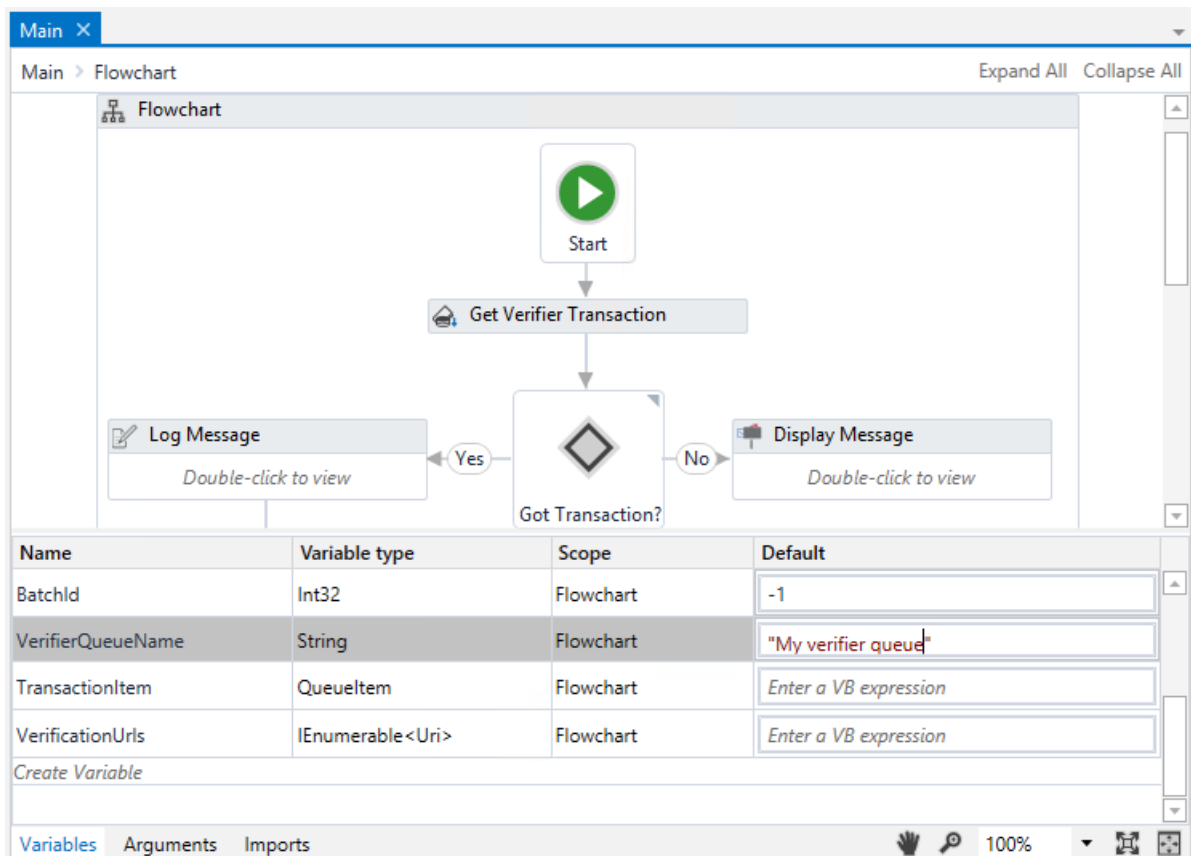
1. Open the process in UiPath Studio and navigate to the **State Machine** area.
2. Expand the **Variables** pane.
3. Enter the new queue names in the **Default** column for the **MonitorQueueName**, **VerifierQueueName**, and **FetcherQueueName** variables.



The Batch Verifier process

For this process, specify the name of the queue that will store identifiers of batches awaiting verification.

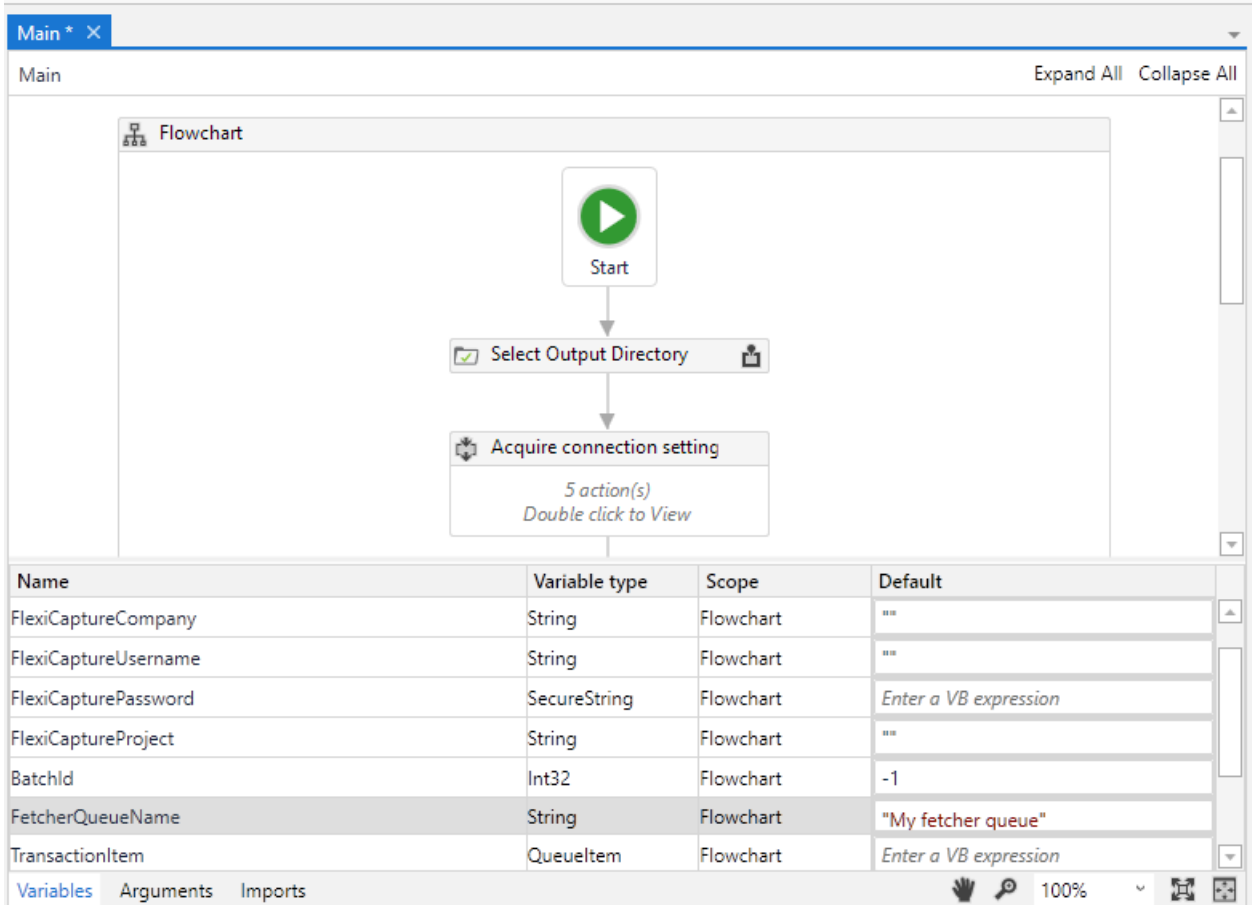
1. Open the process in UiPath Studio and navigate to the **Flowchart** area.
2. Expand the **Variables** pane.
3. Enter the new queue name in the **Default** column for the **VerifierQueueName** variable.



The Batch Fetcher process

For this process, specify the name of the queue where identifiers of successfully processed batches will be stored. After this, batch processing results will start to be downloaded using the **Batch Fetcher** process.

1. Open the process in UiPath Studio and expand the **Variables** pane.
2. Enter the new queue name in the **Default** column for the **FetcherQueueName** variable.



The screenshot shows the UiPath Studio interface with a flowchart and a variables table. The flowchart starts with a 'Start' node, followed by 'Select Output Directory', and then 'Acquire connection setting'. The 'Acquire connection setting' node is expanded, showing 5 actions. Below the flowchart is a table with the following data:

Name	Variable type	Scope	Default
FlexiCaptureCompany	String	Flowchart	""
FlexiCaptureUsername	String	Flowchart	""
FlexiCapturePassword	SecureString	Flowchart	Enter a VB expression
FlexiCaptureProject	String	Flowchart	""
BatchId	Int32	Flowchart	-1
FetcherQueueName	String	Flowchart	"My fetcher queue"
TransactionItem	QueueItem	Flowchart	Enter a VB expression

At the bottom of the interface, there are tabs for 'Variables', 'Arguments', and 'Imports'. The 'Variables' tab is selected, and the zoom level is set to 100%.

Once the changes have been made, publish all modified processes to Orchestrator again.

Customizing assets and credential names

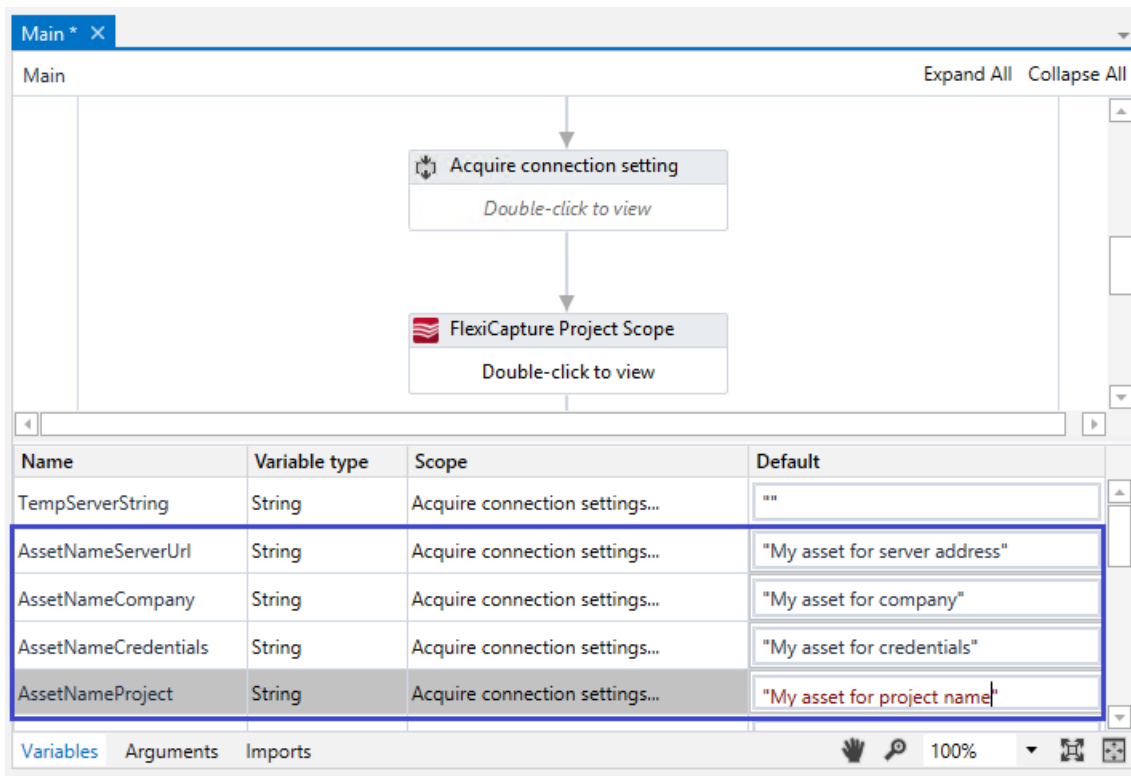
By default, the orchestrator assets have the following names:

- FlexiCapture Server Address
- FlexiCapture Company
- FlexiCapture Project Name
- FlexiCapture Credentials

If the need arises, assets with non-default names can be created. To do this, open all processes in UiPath Studio (Batch Sender, Batch Monitor, Batch Verifier, and Batch Fetcher) and modify the names of their assets.

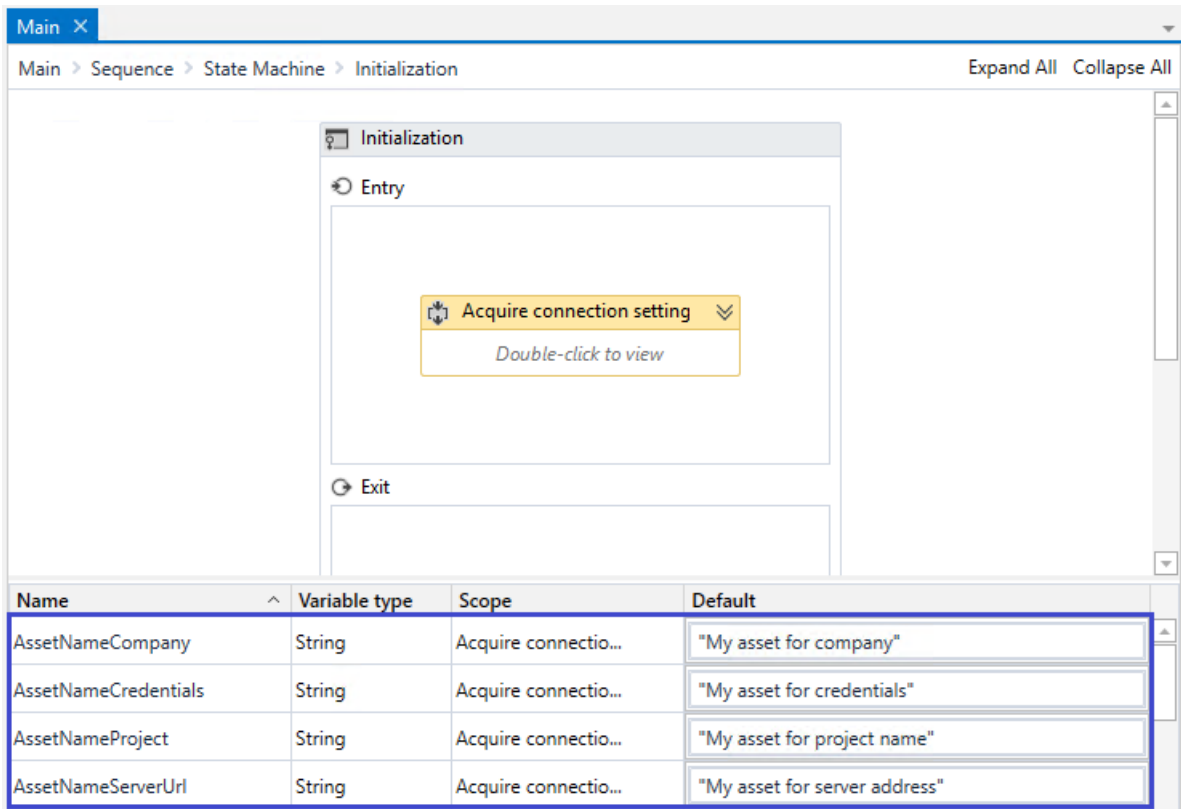
The Batch Sender process

1. Open the process in UiPath Studio and navigate to the **Acquire connection settings from Orchestrator** area.
2. Expand the **Variables** pane.
3. Enter new asset names in the **Default** column for each of the following variables: **AssetNameServerUrl**, **AssetNameCompany**, **AssetNameCredentials**, and **AssetNameProject**.



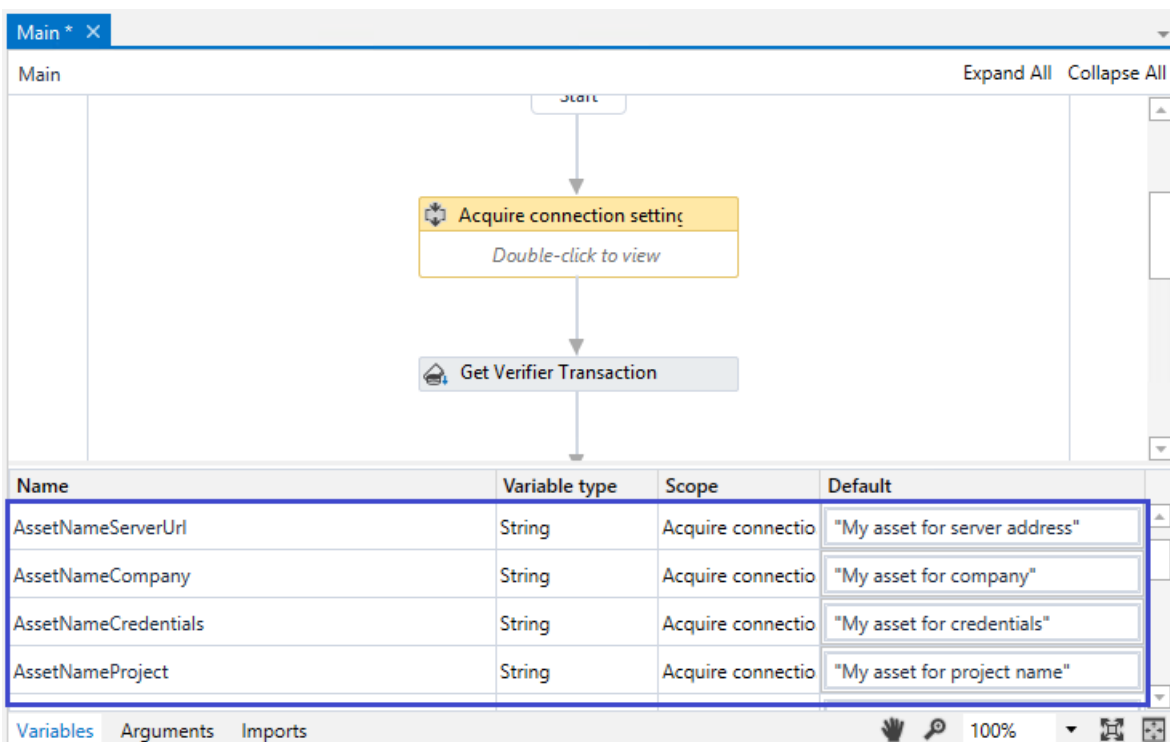
The Batch Monitor process

1. Open the process in UiPath Studio and navigate to the **State Machine** area. Select **Initialization** → **Acquire connection settings from Orchestrator**.
2. Expand the **Variables** tab.
3. Enter new asset names in the **Default** column for each of the following variables: **AssetNameServerUrl**, **AssetNameCompany**, **AssetNameCredentials**, and **AssetNameProject**.



The Batch Verifier process

1. Open the process in UiPath Studio and navigate to the **Acquire connection settings from Orchestrator** area.
2. Expand the **Variables** tab.
3. Enter new asset names in the **Default** column for each of the following variables: **AssetNameServerUrl**, **AssetNameCompany**, **AssetNameCredentials**, and **AssetNameProject**.



The Batch Fetcher process

1. Open the process in UiPath Studio and navigate to the **Acquire connection settings from Orchestrator** area.
2. Expand the **Variables** tab.
3. Enter new asset names in the **Default** column for each of the following variables: **AssetNameServerUrl**, **AssetNameCompany**, **AssetNameCredentials**, and **AssetNameProject**.

Once the changes have been made, publish all modified processes to Orchestrator again.

Configuring ABBYY FlexiCapture project

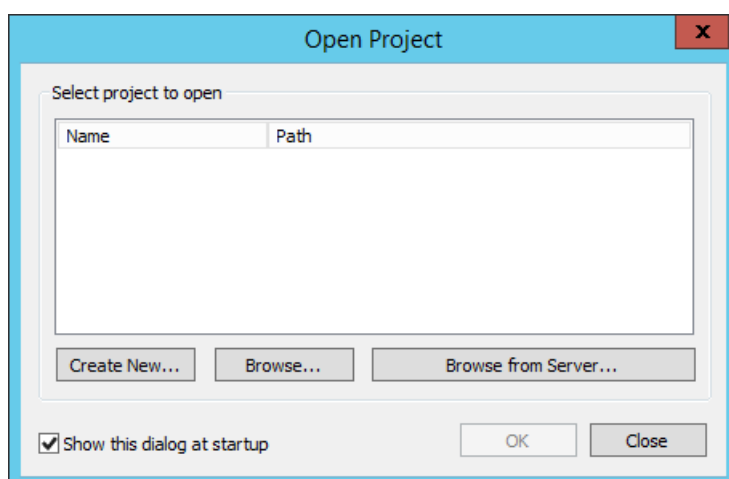
In ABBYY FlexiCapture, documents are processed within projects. ABBYY FlexiCapture will identify the type of each document and apply the appropriate Document Definition that has been prepared specifically for that type. Each Document Definition includes one or more export profiles to be used for exporting document images and data. If you are not familiar with the aforementioned concepts, please refer to the [ABBYY FlexiCapture documentation](#), where you will find a detailed description of the capture process.

Before you start configuring your project, please make sure that you have the following software installed:

- ABBYY FlexiCapture 12 Project Setup Station (required if you are using ABBYY FlexiCapture Distributed Edition or ABBYY FlexiCapture Cloud).

If you already have an ABBYY FlexiCapture project for which you need to set up data export to UiPath, open that project. Otherwise, you will need to create a project. Launch the Project Setup Station and in the **Open Project** dialog box click:

- **Create New...** to create a new project.
- **Browse...** to open an existing project stored on your local drive.
- **Browse from Server...** to open a project that you earlier uploaded to the ABBYY FlexiCapture Application Server.

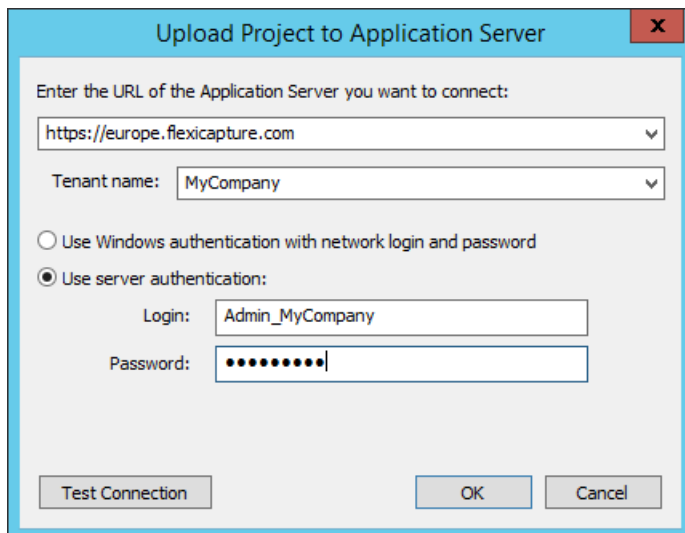


Next, if you have opened your project locally, you need to upload it to the ABBYY FlexiCapture Application Server:

1. Click **File** → **Upload Project to Server....**
2. In the **Upload Project to Application Server** dialog box, specify the address of the server, the protocol to be used, and your credentials.
3. If you are using ABBYY FlexiCapture Cloud, complete the **URL** field, specifying one of the following three FlexiCapture Cloud instances (you should specify the instance that your company is registered in):
 - <https://europe.flexicapture.com>
 - <https://australia.flexicapture.com>
 - <https://usa.flexicapture.com>

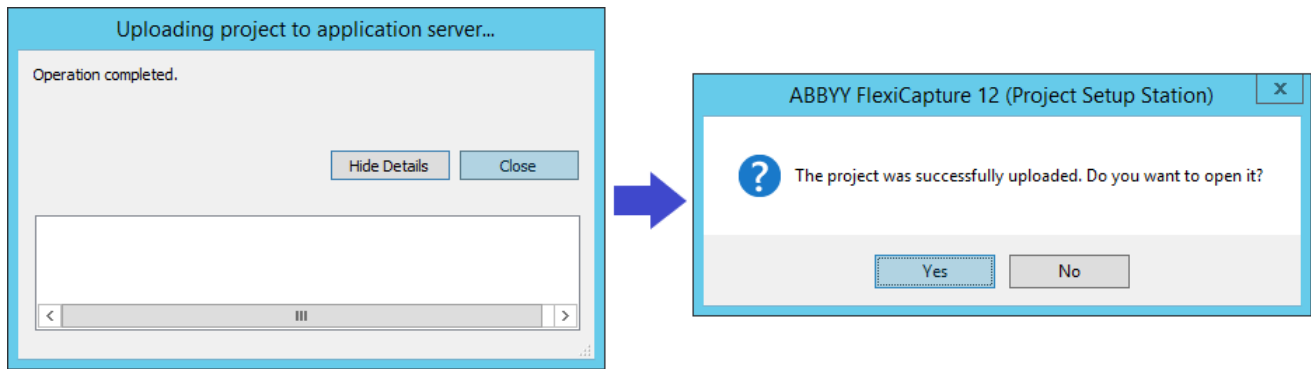
In the **Tenant name** field specify the name of your company, select the **Use server authentication** option, and enter your credentials.

4. Click **Test Connection** to make sure that you have entered the correct data.
5. Click **OK** to upload project to Application Server.

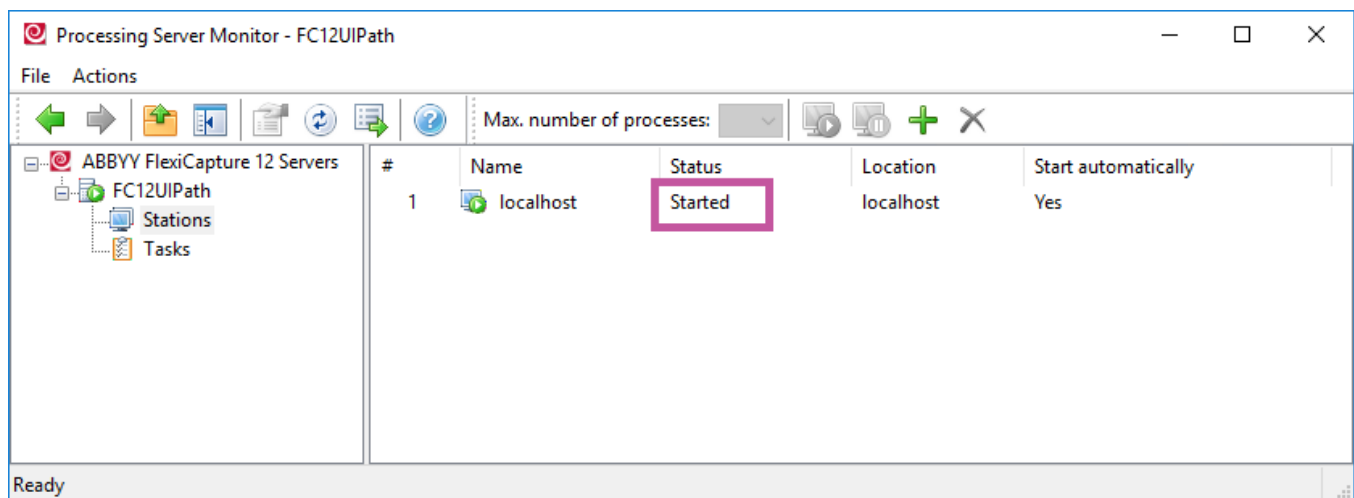


Note: When uploading a project to the cloud or when opening a project from the cloud, the following error may occur: "Application server version is not compatible." If you see this error, the version of your Project Setup Station does not match the version of the cloud-based Application Server. To obtain a compatible version of ABBYY FlexiCapture, please contact the ABBYY sales office in your region (see <https://www.abbyy.com/contacts>).

6. When you see the "Operation completed" message, click **Close**. In the next dialog box, click **Yes** to open the uploaded project from the server.



Verify that the ABBYY FlexiCapture Processing Server is running, and that the Processing Stations have been added, set up, and started. To do this, launch the Processing Server Monitor by selecting **Start** → **All Programs** → **ABBYY FlexiCapture 12 Servers** → **Processing Server**. Both the server and the stations should have the "Started" status:



For more details about configuring ABBYY FlexiCapture Processing Server, see [ABBYY FlexiCapture Online help](#).

Now you need to configure your project, i.e. to [create an export profile in your Document Definition](#) and to [select the appropriate type of workflow](#).

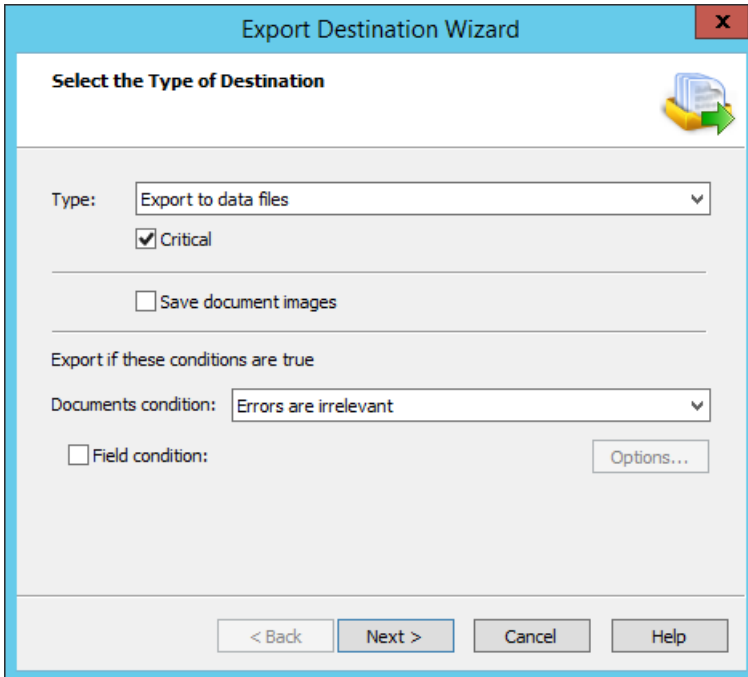
Note: You can use a predefined project to process invoices. The **InvoiceDemoProject_Multitask.zip** archive containing project files and sample images can be found in the connector installation folder located in **Multi-task package\Samples\FlexiCapture Projects**. Unpack the archive, open the project in ABBYY FlexiCapture Project Setup Station and upload it to the server by following the instructions above.

Creating an export profile

To configure an export profile:

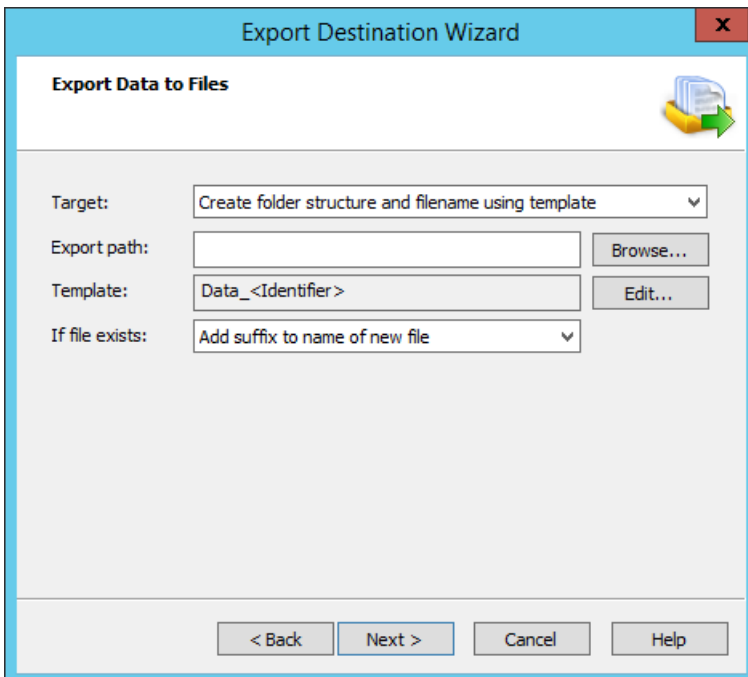
1. In the ABBYY FlexiCapture Project Setup Station click **Project** → **Document Definitions...** to open the list of Document Definitions available for the project. Select the Document Definition for which you want to specify new export settings, and click **Edit....**
2. Click **Document Definition** → **Export Settings....**
3. Click the **Add...** button to start the export profile creation wizard.

4. In the **Select the Type of Destination** step, select **Export to data files** from the **Type** drop-down list, select the **Critical** option below, select the **Errors are irrelevant** item from the **Document condition** drop-down list, and click **Next**.



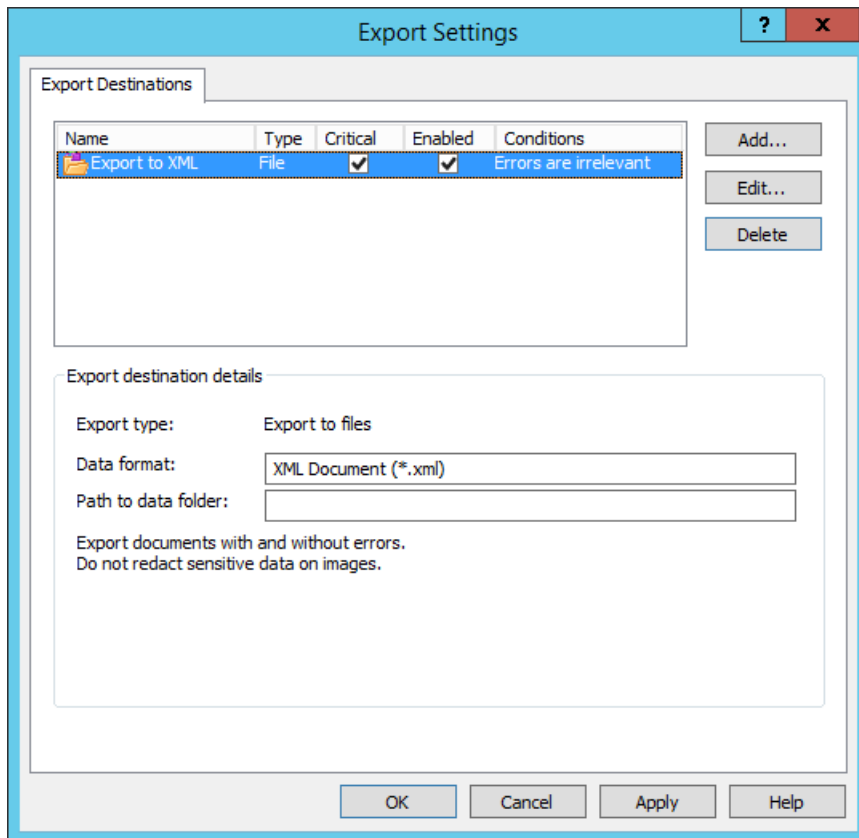
The screenshot shows the 'Export Destination Wizard' dialog box with the title 'Export Destination Wizard'. The main heading is 'Select the Type of Destination'. There is a 'Type:' dropdown menu set to 'Export to data files'. Below it is a checked checkbox for 'Critical'. Further down is an unchecked checkbox for 'Save document images'. Under the heading 'Export if these conditions are true', there is a 'Documents condition:' dropdown menu set to 'Errors are irrelevant'. Below that is an unchecked checkbox for 'Field condition:' and an 'Options...' button. At the bottom are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

5. In the **Export Data to Files** step, make sure the **Export path** field is empty and specify a file name template. Click **Next**.



The screenshot shows the 'Export Destination Wizard' dialog box with the title 'Export Destination Wizard'. The main heading is 'Export Data to Files'. There is a 'Target:' dropdown menu set to 'Create folder structure and filename using template'. Below it is an 'Export path:' text field which is empty, with a 'Browse...' button to its right. Below that is a 'Template:' text field containing 'Data_<Identifier>', with an 'Edit...' button to its right. At the bottom left is an 'If file exists:' dropdown menu set to 'Add suffix to name of new file'. At the bottom are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

6. In the **Data File Format** step, select the required output format in the **File type** field, and click **Next**.
7. Provide a name for your newly created export profile and click **Finish**.
8. In the **Export Settings** dialog box, check the **Enabled** box for the newly created export profile. Click **Apply**, then click **OK**.

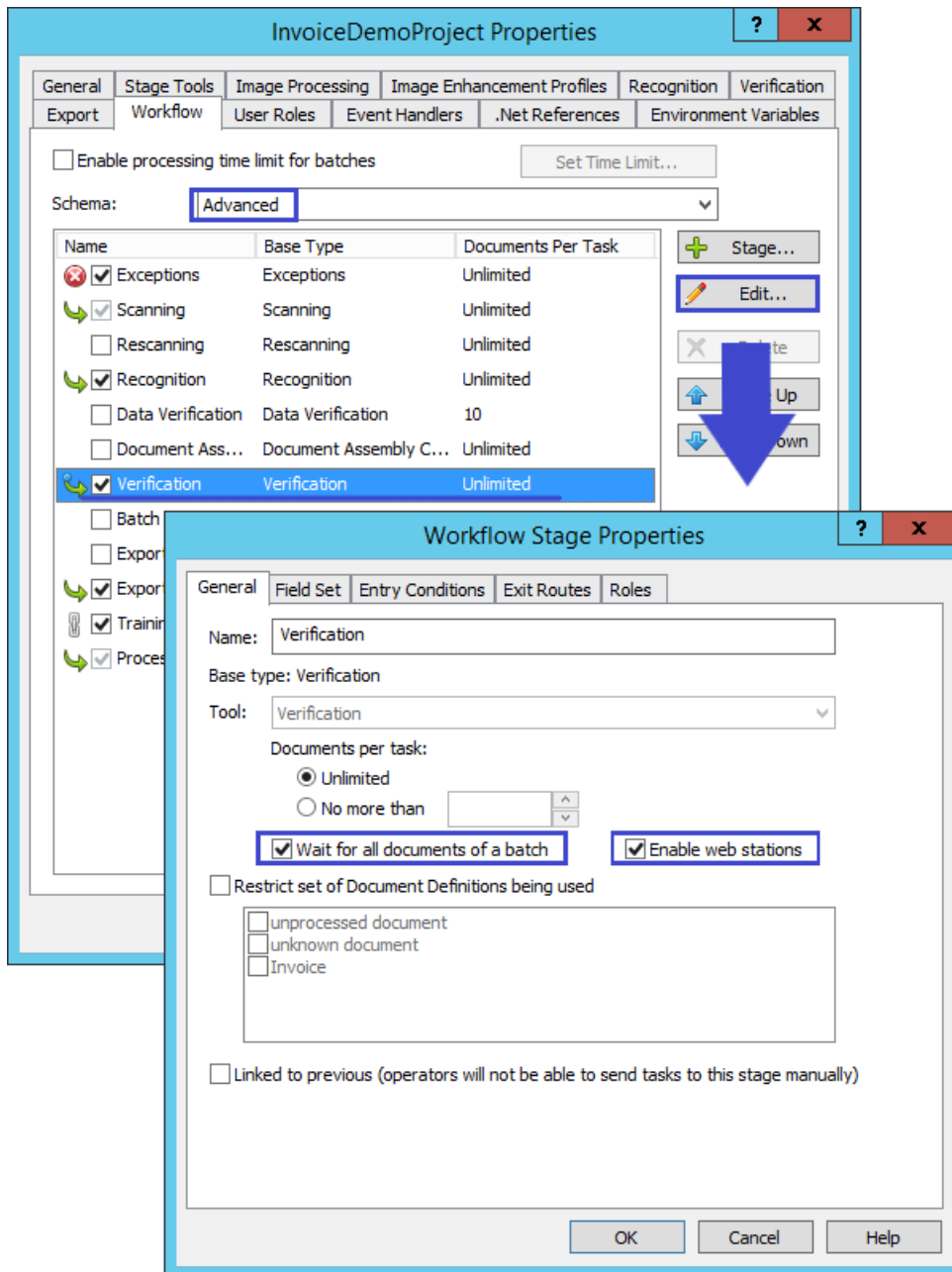


9. Save and close the Document Definition editor. Next, click the **Publish** button to publish your Document Definition.

Configuring an ABBYY FlexiCapture workflow

To configure an ABBYY FlexiCapture workflow:

1. Click **Project** → **Project Properties...** and make sure that the **Export root path** on the **General** tab is left empty.
2. Open the **Workflow** tab. Depending on your [usage scenario](#), select the appropriate workflow type:
 - If you intend to process documents in unattended mode, select **Unattended** from the **Schema** drop-down list and click **OK**.
 - If you need recognition results to be verified prior to export, select **Advanced** from the **Schema** drop-down list. Next select **Verification** and click the **Edit...** button. In the **Workflow Stage Properties** dialog box, select **Wait for all documents of a batch** and **Enable web stations**.



Single-Task Package Architecture

The ABBYY FlexiCapture 12 single-task integration solution for UiPath comprises:

- **Abbyy.Activities.UiPath.FlexiCaptureActivities** NuGet package containing the Capture Data activity. Capture Data activity is used for sending files to ABBYY FlexiCapture 12 and getting the processing results in synchronous mode.

Note: The activity only works with files containing one document each (i.e. each document must be placed in a separate file).

- **FlexiCapture Export Connector for UiPath.** It creates a transaction in the queue of the Orchestrator at the export stage, in which it stores the image file and metadata.

Usage scenarios

The ABBYY FlexiCapture single-task integration solution for UiPath can typically be used in the following three scenarios:

1. [FlexiCapture as an unattended service](#) (UiPath - FlexiCapture - UiPath); no verification is required.

The UiPath process in which the activity is running sends the file to the FlexiCapture and receives the processing results in synchronous mode. The FlexiCapture project requires unattended workflow in batch type properties and Export to data files (XML) export profile in the document definition properties. In this scenario, files received by ABBYY FlexiCapture 12 do not require verification, so once the recognition is completed, they go directly to the export stage.

2. [FlexiCapture as an attended service](#) (UiPath - FlexiCapture - Verification - UiPath).

The UiPath process in which the activity is running sends the file to the FlexiCapture and receives only a URL linking to the document verification page. In the UiPath process, for example, you can configure the sending of this link to the verification operator by email. When the verification is complete, the document goes to the export stage, where the script export profile applies to it. As a result of the export, a new transaction is created in the specified queue of UiPath Orchestrator. Transaction contains image file and recognized metadata. All data from the transaction can be extracted in a separate UiPath process in which the user can configure their further processing as it's required in his business scenario.

3. [FlexiCapture as input](#) (FlexiCapture Mobile/Scanning Station - FlexiCapture - Verification (if required) - UiPath).

Image files are imported to FlexiCapture using a mobile client or from a Scanning Station. Documents are verified if it's necessary. At the export stage the document uses the script export profile. As a result of the export, a new transaction is created in the specified queue of UiPath Orchestrator. The transaction contains an image file and extracted metadata. The further process of working with the transaction is similar to "FlexiCapture as an attended service" scenario.

FlexiCapture as an unattended service

To configure this scenario, complete the following steps:

1. On the UiPath side, [install and configure the Capture Data activity](#).
2. On the ABBYY FlexiCapture side, [configure a FlexiCapture project](#):
 - o [Configure the XML export profile](#) in the Document Definition.
 - o [Configure the document processing settings](#).

Configuring the document processing settings

Document processing is configured for a batch type. To configure document processing for the "Default" batch type, click **Project**→ **Project properties**. To configure document processing for a specific batch type, click **Project**→ **Batch types**→ **Edit...**

Click the **Image Processing** tab, and set the **Create document for each image file** option. For each image file received at the input of activity, one document will be created in the batch.

Then go to the **Workflow** tab. Select **Schema**: Unattended. This scheme provides the possibility of automatic processing without operator involvement. Save the changes.

FlexiCapture as an attended service

To configure this scenario, complete the following steps:

1. On the UiPath side, [install and configure the Capture Data activity](#).
2. On the ABBYY FlexiCapture side, [configure a FlexiCapture project](#):
 - [Create a Standard XML export profile](#).
 - [Create a script export profile](#) in the Document Definition using the following sample script:
UiPath - ExportScript - Configure by script (Attended service).cs.
 - [Configure the document processing settings](#).

Configuring the document processing settings

The ABBYY FlexiCapture workflow can be configured either for each batch type separately or for the "Default" batch type. To configure the workflow:

1. On the Project Setup Station, either click **Project** → **Project Properties...** (if you want to configure the "Default" batch type) or click **Project** → **Batch types** → **Edit...** (if you want to configure a particular batch type).
2. On the **Workflow** tab of the **Project Name Properties** dialog box, change the workflow schema from **Simple** to **Advanced**.
3. On the same tab, select the verification stage and click the **Edit....** button to open the **Workflow Stage Properties** dialog box and on the **General** tab, select the **Enable web stations** option. Click **OK** to save the changes.
4. Return to the **Workflow** tab in the **Project Name Properties** dialog box and click the **Stage...** button to add a new stage. In the **Create Processing Stage** dialog box, select **Automatic** and click **OK**.
5. In the **Workflow Stage Properties** dialog box, provide a name for the new stage, make sure that the **Wait for all documents of a batch** option is selected, and select the **Linked to previous** option.
6. On the **Script** tab, select **Document processing** from the **Type** drop-down list.
7. On the same tab, click the **Edit script...** button and type in the following script code:



```
Document.Properties.Set("WasVerified", bool.TrueString);
```

This script adds a registration parameter to each processed document that indicates whether or not the given document has gone through the verification stage.
8. On the **Entry Conditions** tab, select **Under these conditions** and click the **Rule...** button to specify a condition when documents should be sent to the newly created stage.
9. In the **Rule Settings** dialog box, provide a name for the new rule in the **Name** field. Then from the **Condition type** drop-down list, select **Script**, click the **Script...** button and type in the following script code:

```
Result.CheckSucceeded = (Document.StageInfo.StageName == "Verification Postprocessing" ||
Document.StageInfo.StageName == "Verification");
```

This script sets the input condition for the new stage: If a document arrives from the verification stage, it will be admitted into the new stage and will be provided with a "WasVerified" registration parameter.

10. Save the newly configured rule and the new script stage.

 **Important!** The new script stage must immediately follow the verification stage.

FlexiCapture as input

To configure this scenario, on the ABBYY FlexiCapture side, [configure a FlexiCapture project](#):

1. [Install an export connector](#) (add assemblies to the document definition).
2. [Create a script export profile](#).

Installing, configuring, and starting the Capture Data activity in UiPath

The **Abbyy.Activities.UiPath.FlexiCaptureActivities** activity package also includes the **Capture Data** activity. This activity operates on UiPath side inside of user-defined workflow. Activity takes an input file, sends it to the FlexiCapture Application Server and waits for up to 5 minutes for the processing results.

Installing an activity package can entail the following:

- [installing a package so that it is used by Robots to complete an existing process](#);
- [installing a package in UiPath Studio to create a new process](#).


Installing the Abbyy.Activities.UiPath.FlexiCaptureActivities activity package

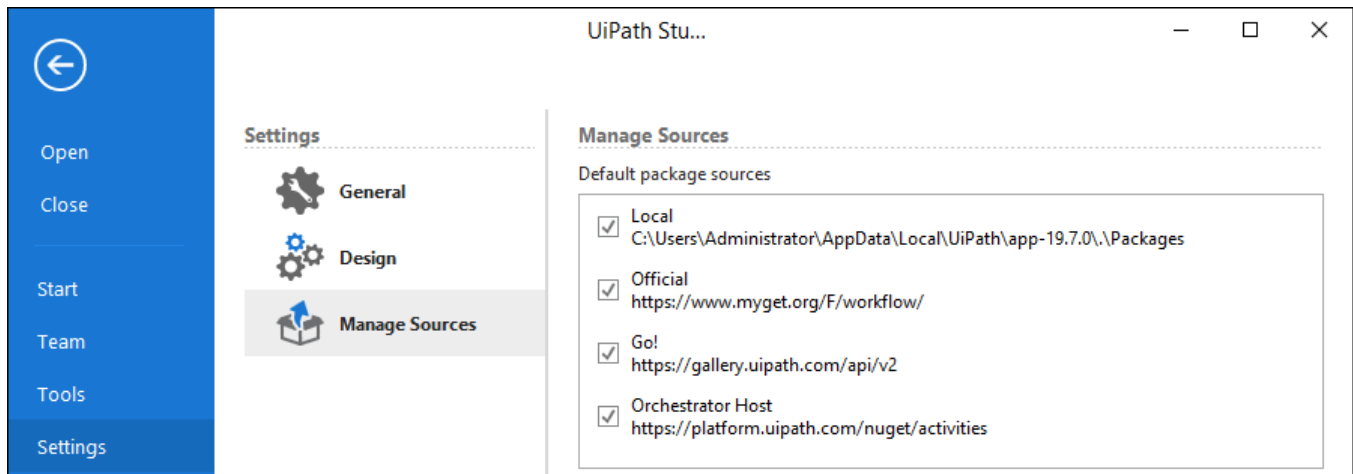
Installing an activity package for working with an existing UiPath process

All UiPath processes consist of various activities. When a process is launched by a Robot or opened in UiPath Studio, a search is carried out in the available activity feeds for the relevant activities, which are then downloaded.

To open a sample ABBYY FlexiCapture 12 Processor process, place the **A.FlexiCapture.WebApi.Client.nupkg** and **Abbyy.Activities.UiPath.FlexiCaptureActivities.nupkg** packages in a Robot-accessible Activity Feed. To do this:

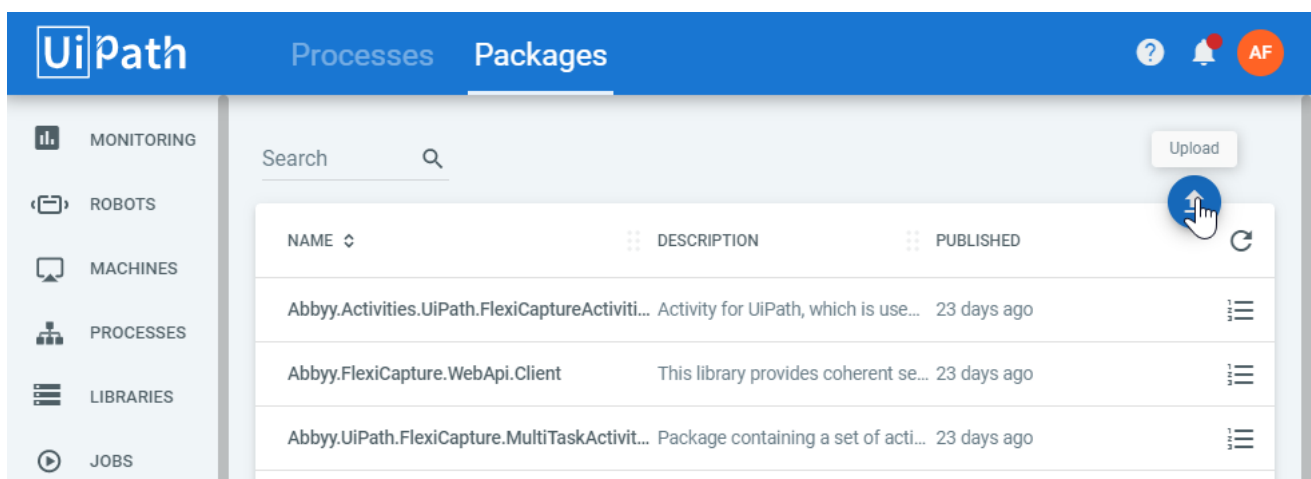
- Place them in the **%LocalAppData%\UiPath\app-xx.x.x\Packages** folder if you are using UiPath Community Edition (where xx.x.x denotes the UiPath version number).
- Place them in the **C:\Program Files (x86)\UiPath\Studio\Packages** folder if you are using UiPath Enterprise Edition.

 **Note:** To find out the path to the Robot's local feed, open UiPath Studio and open the **Settings** tab. Then, select **Local** in **Manage Sources**.



To decrease the time needed to update a package for all Robots, place it in the Orchestrator's Activity Feed (in this case, the packages will become available for all Robots connected to Orchestrator). To do this:

- If you are using UiPath Community Edition, go to the cloud Orchestrator and select **Processes** → **Packages**. Then click **Upload** to upload the **Abbyy.FlexiCapture.WebApi.Client.nupkg** and **Abbyy.Activities.UiPath.FlexiCaptureActivities.nupkg** packages one after another.



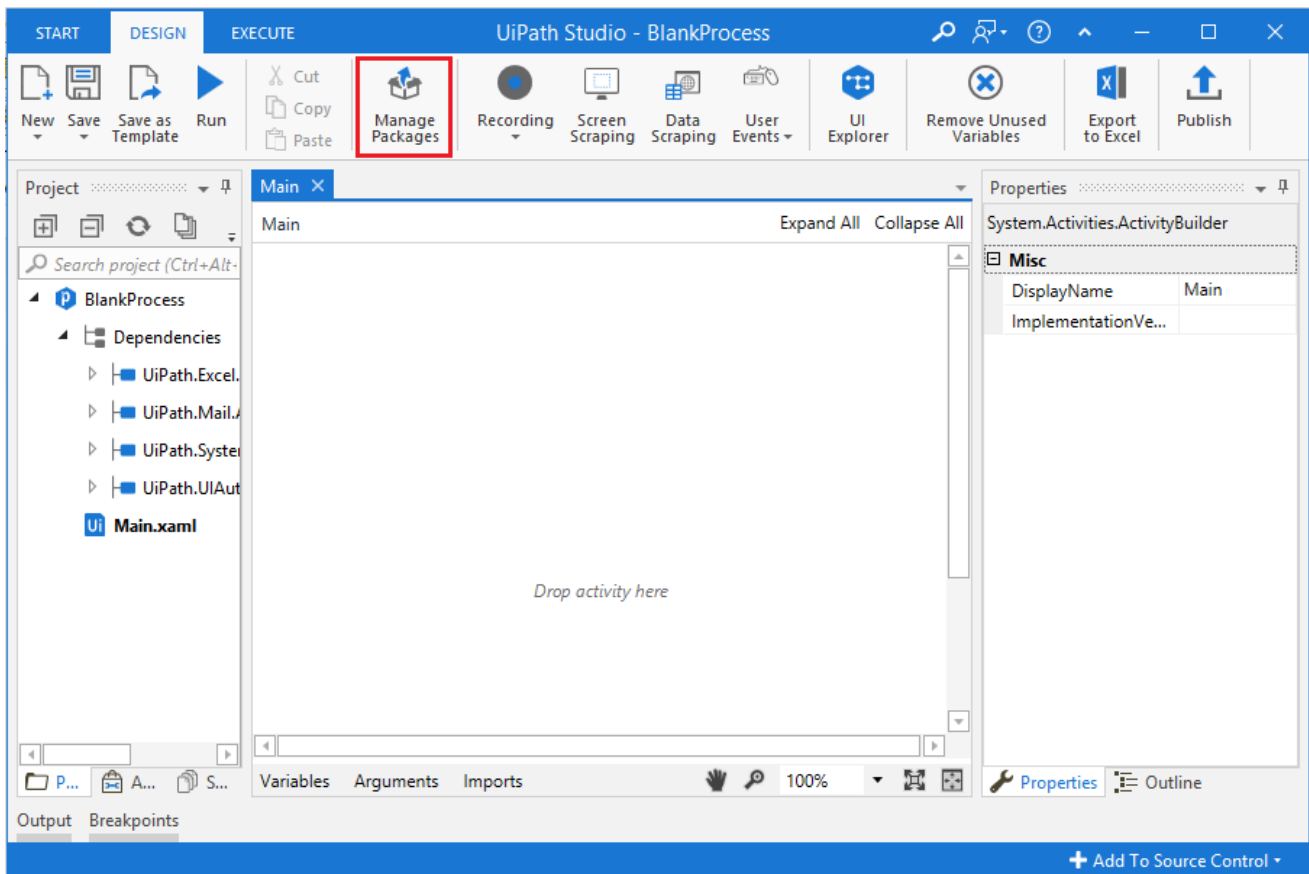
- If you are using UiPath Enterprise Edition, copy the packages to the Orchestrator's Activity Feed (by default, it is located in **C:\Program Files (x86)\UiPath\Orchestrator\NuGetPackages\Activities** on a machine that has Orchestrator installed) or download the packages on the **Libraries** tab in the Orchestrator web application.

For more information about Activities Feeds, see [UiPath documentation](#).

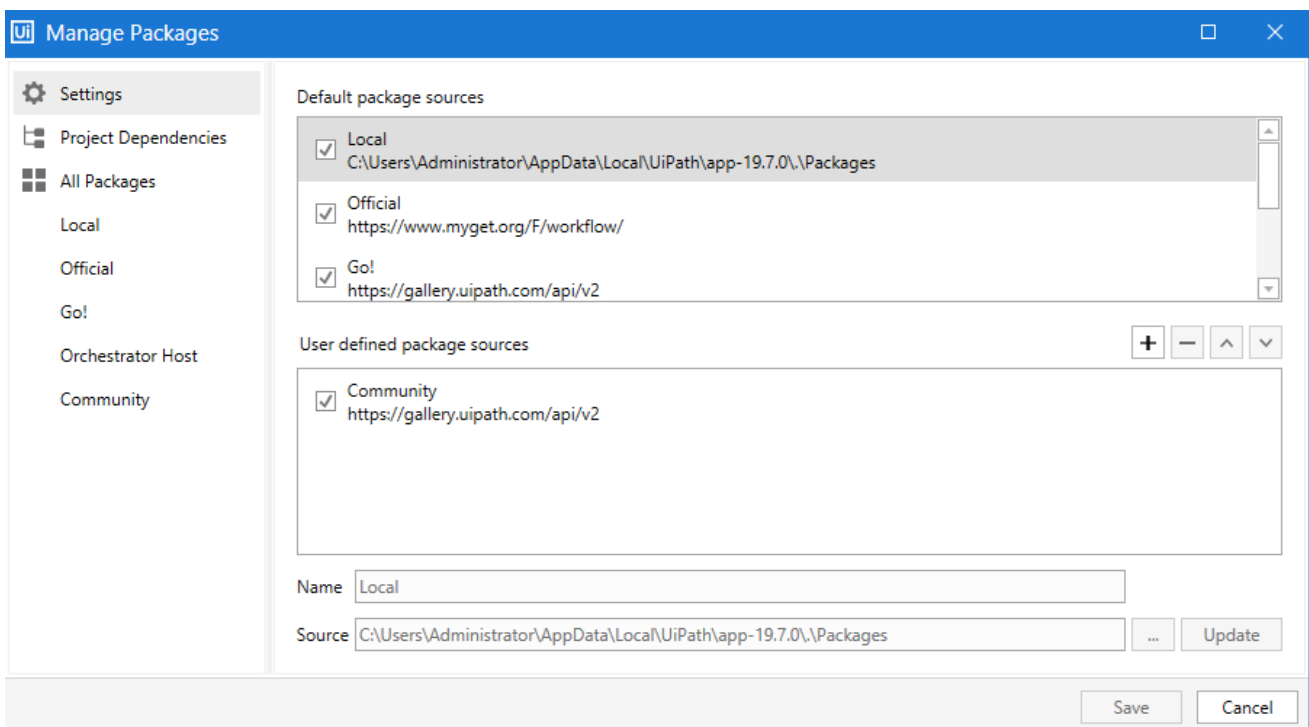
Adding an activity package to a new process

To use the **Capture Data** activity in a new process or add it to an existing one, you need to include the **Abbyy.Activities.UiPath.FlexiCaptureActivities.nupkg** activity package in the dependencies of the process. To do this:

1. Open an existing process in UiPath Studio and click **Manage Packages**.

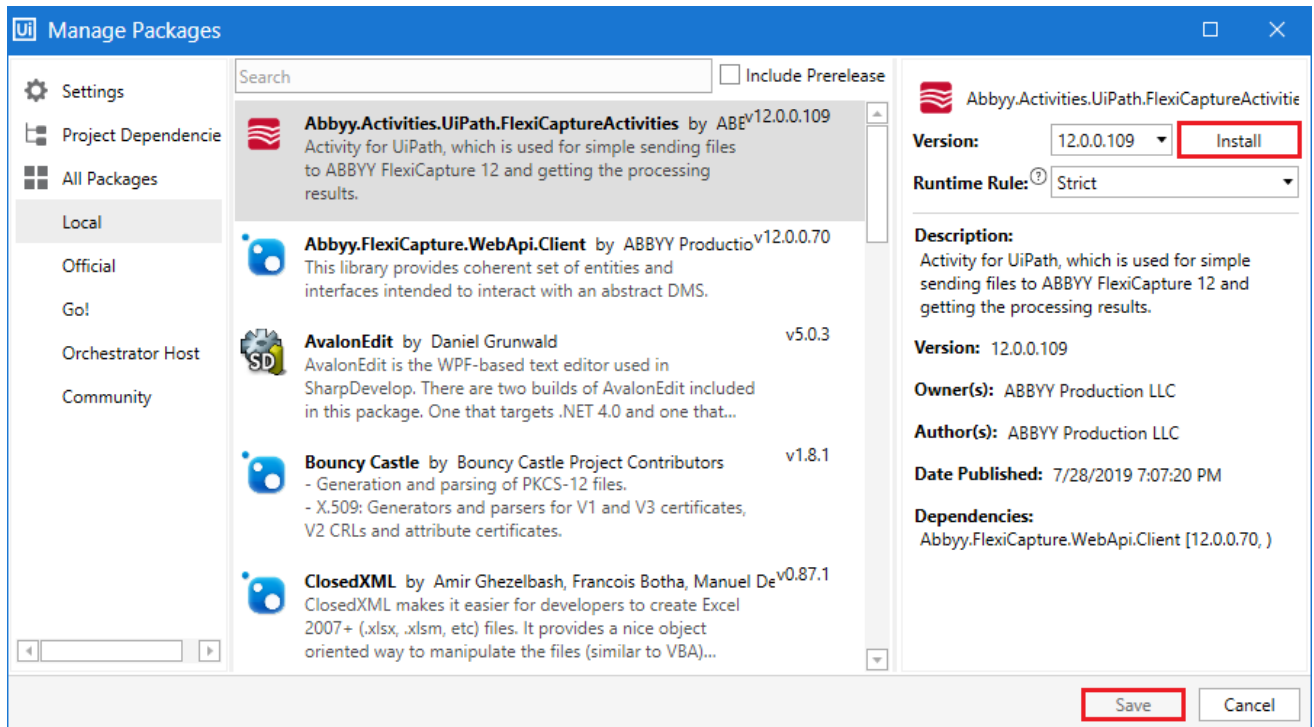


2. Select **Settings** and find the local **Source** in the **Default package sources** list.

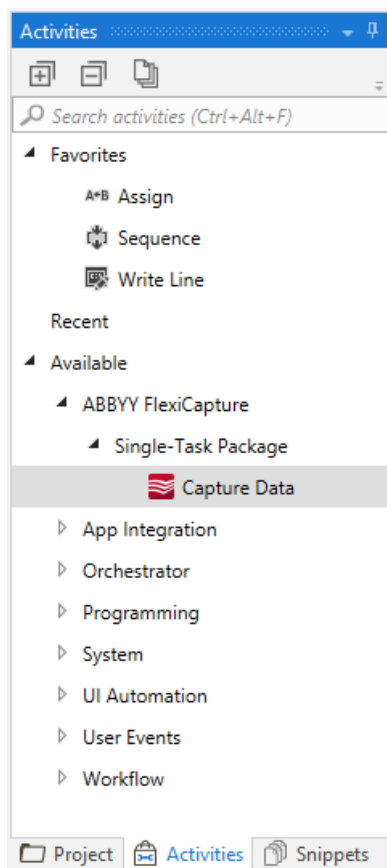


3. Copy the **Abbyy.FlexiCapture.WebApi.Client.nupkg** and **Abbyy.Activities.UiPath.FlexiCaptureActivities.nupkg** packages to the folder, the path to which is specified in **Default local package source**. Alternatively, place these packages in any other available source from the list.
4. Go to **Manage Packages** and navigate to **All packages** → **Local**. Then, select **Abbyy.Activities.UiPath.FlexiCaptureActivities** in the activity list.

5. Click **Install**, then click **Save**.



After that, the **Capture Data** activity will appear in the available activities list:




Setting up the Capture Data activity

To use the activity in a UiPath process, you will need to complete the following steps:

1. Configure the FlexiCapture project on the ABBYY FlexiCapture server depending on your [usage scenario](#).

2. [Create a process](#) in UiPath Studio or [use the sample UiPath project named ABBYY FlexiCapture 12 Processor](#), which is included in the distribution package.
3. [Configure the ABBYY FlexiCapture activity](#).

 **Note:** After you have set up the ABBYY FlexiCapture project and the UiPath process activity, you can launch the process in debug mode for debugging.

4. Publish the UiPath process to Orchestrator for further use by the Robots. Refer to the UiPath Orchestrator Guide for information on [how to work with packages](#) and [how to set up Robots](#).

Configuring Capture Data activity properties

You can add an activity to the process by dragging it from the UiPath Studio Activity panel. After the activity is added to the process, you need to fill in its fields in the properties panel located in the right-hand part of the UiPath Studio window.

- Use the **Input** fields for transferring an image file and its name to the activity:
 - *FileContent* is a file to be sent to ABBYY FlexiCapture as a byte array (this field accepts values of type `System.Byte[]`).
 - *FileName* is the name of a file to be sent to ABBYY FlexiCapture (this field accepts values of type `String`).
 - The *BatchRegistrationParameters* field allows you to specify user registration parameters for a batch when sending files to ABBYY FlexiCapture. The values of these registration parameters can be used to specify the names of export files (when exporting from ABBYY FlexiCapture). The field accepts values of type `IEnumerable<KeyValuePair<string, string>>`. The `Dictionary<String, String>` class is recommended for passing the registration parameters. `Dictionary` must be initialized. The field value may look like this:

```
new Dictionary(Of String, String) from {"Key", "Value"}, {"Key1", "Value1"}.
```

This field is optional. Leave this field empty if you do not need to specify any registration parameters. Registration parameter values can be used, for example, for [naming export files in ABBYY FlexiCapture](#).

- **Output** fields allow you to specify variables in which the activity will save results:
 - *Fields* is an array of 'field name, field value' pairs containing a list of document fields. This field accepts values of type `IEnumerable<KeyValuePair<String, String>>`.

 **Note:** Fields will only be received if the resulting files include an XML file. An [XML export profile must be configured](#) for the Document Definition in the ABBYY FlexiCapture project.

- *Files* is an array of 'file name, file as byte array' pairs containing all the files generated as a result of processing a source file in ABBYY FlexiCapture (e.g. a source file converted to searchable PDF, files with signature images, files with captured data, etc., depending on the export settings specified in the ABBYY FlexiCapture project). This field accepts values of type `IEnumerable<KeyValuePair<String, Byte[]>>`.

- **VerificationUrl** is a link that opens a document processing task on the ABBYY FlexiCapture Web Verification Station, where the user can verify the captured data. This field accepts values of type `String`.

Note: An activity returns a URL for which Windows authentication is required. If you plan to send this URL to a verification operator, make sure that the corresponding ABBYY FlexiCapture account is registered on the ABBYY FlexiCapture server.

- The **FlexiCapture Connection Settings** section contains the settings required to connect to the ABBYY FlexiCapture server. You will need to provide the server address and the credentials of the account that will be used to connect to the server. Click **Test Connection** to check if the connection has been successfully established. Then specify the project and batch type that will accept files from the UiPath workflow process. If you are using ABBYY FlexiCapture Cloud or a local multi-tenant system, specify your company (tenant) name. The values for these parameters can be either be specified using a VB expression enclosed in quotes, or passed as variables of type `String`.

Note: The ABBYY FlexiCapture user must have either a) the role of Administrator or b) the role of Scanning Operator (to send documents) and the role of Verification Operator (to receive URLs linking to document verification pages on the ABBYY FlexiCapture 12 Web Verification Station) for the given project and batch type. [To set up user permissions, use the Administration and Monitoring Console.](#)

The screenshot displays the ABBYY FlexiCapture 12 Connector for UiPath interface. The main window shows a 'Capture Data' dialog box with the following fields:

- Server URL: "https://europe.flexicapture.com"
- Company: "MyCompany"
- Credentials:
 - Username: "Admin_MyCompany"
 - Password: "Pass@123456"
- Test Connection... button
- Project Settings:
 - Project: "InvoiceDemoProject_Singletask"
 - Batch Type: "Unattended service"

Below the dialog box is a 'Create new output subfold' button with a dropdown arrow. The right-hand 'Properties' pane shows the configuration for 'Abbyy.Activities.UiPath.FlexiCaptureActivities.FlexiCaptureActivity'.

Common

- DisplayName: Capture Data
- Timeout: 300000

FlexiCapture Connection Settings

- Batch Type: "Unattended service"
- Company: "MyCompany"
- Password: "Pass@123456"
- Project: "InvoiceDemoProject_Singletask"
- Server URL: "https://europe.flexicapture.com"
- Username: "Admin_MyCompany"

Input

- Batch Registration Parameters: batchRegistrationParameters
- File Content: inBytes
- File Name: inFileName

Misc

- Private: ☐

Output

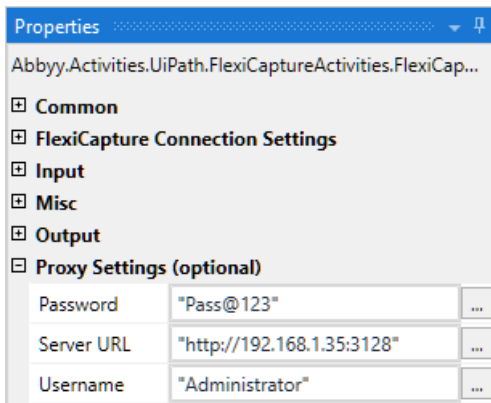
- DocumentDefinition: documentDefinition
- Fields: documentFields
- Files: outputFiles
- VerificationUrl: verificationUrl

Proxy Settings (optional)

- Password: Proxy user password.
- Server URL: Proxy server URL (e.g. 127.0.0.1:8080)
- Username: Proxy user name.

- Open the activity properties and navigate to **Common**. Here, you can set a custom timeout (in milliseconds) for awaiting ABBYY FlexiCapture processing results. When the specified time period expires, the activity will throw an exception. The default timeout value is 300,000 milliseconds.

- If you are using a proxy, fill in the **Server URL**, **Username**, and **Password** fields in the **Proxy Settings (optional)** section.
 - If a transparent proxy is used, specify the server address and port in the **Server URL** field and leave the **Username** and **Password** fields empty.
 - If the proxy uses NTLM authentication, specify the server address and port in the **Server URL** field and leave the **Username** and **Password** fields empty. The credentials under which the UiPath process is running will be used.
 - If the proxy uses Basic authentication, specify the server address and port in the **Server URL** field and fill in the **Username** and **Password** fields.



A sample UiPath process – using the Capture Data activity

The ABBYY FlexiCapture Connector for UiPath includes a sample UiPath process named ABBYY FlexiCapture 12 Processor. This process can be found in the **\Single-task package\Samples\UiPath Sample Processes** folder of the distribution package. It demonstrates how you can use the Capture Data activity. You can open this project in UiPath Studio for reviewing and editing.

The process prompts the user to select a folder with files and an output folder where to save the results, sends each file from the folder to ABBYY FlexiCapture, waits for up to 5 minutes for the files to be processed, and receives:

- the resulting files from ABBYY FlexiCapture, which may be a document file in a format specified by the user (e.g. a searchable PDF document), a data file (e.g. a CSV file), files with image fields (e.g. signature images), etc. These files will be saved to the previously selected output folder. These results can only be received if [export to data files is configured for the Document Definition](#).
- a list of captured fields and their values. The process creates a text document in the output folder and records the received fields and their values in this text document.
- a URL linking to the document verification page on the ABBYY FlexiCapture 12 Web Verification Station. For a document that requires verification, a URL linking to the document verification page is returned to the process. The process creates a TXT document in the output folder and records the URL linking to the document verification page. Then it opens the URL in the browser.

Note: Please make sure that the **Enable web stations** option is enabled for the verification stage in the ABBYY FlexiCapture workflow.

Before starting the process, make sure that the FlexiCapture Project has been [configured](#). Then in the Processing Files cycle, select the Capture Data activity. The Properties panel in UiPath Studio will

display the activity properties. Next, specify the settings to be used to connect to the ABBYY FlexiCapture Application server and choose the appropriate project and batch type on the server. These settings can be specified either in the **Settings** group in the activity properties or in the activity form in the workspace. You can specify the values explicitly using a VB expression enclosed in quotes or store them using UiPath variables.

Place the images of documents in a folder on the disk. For testing, you can start the process from UiPath Studio by clicking **Design**→ **Run** (F5). Also, the process can be published in Orchestrator and launched by the Robot in the specified environment. After selecting the input and output folders, wait for the processing results to be saved to the output folder.

Configuring ABBYY FlexiCapture project

Before you can start setting up the project, you need to upload it to the ABBYY FlexiCapture Application Server.

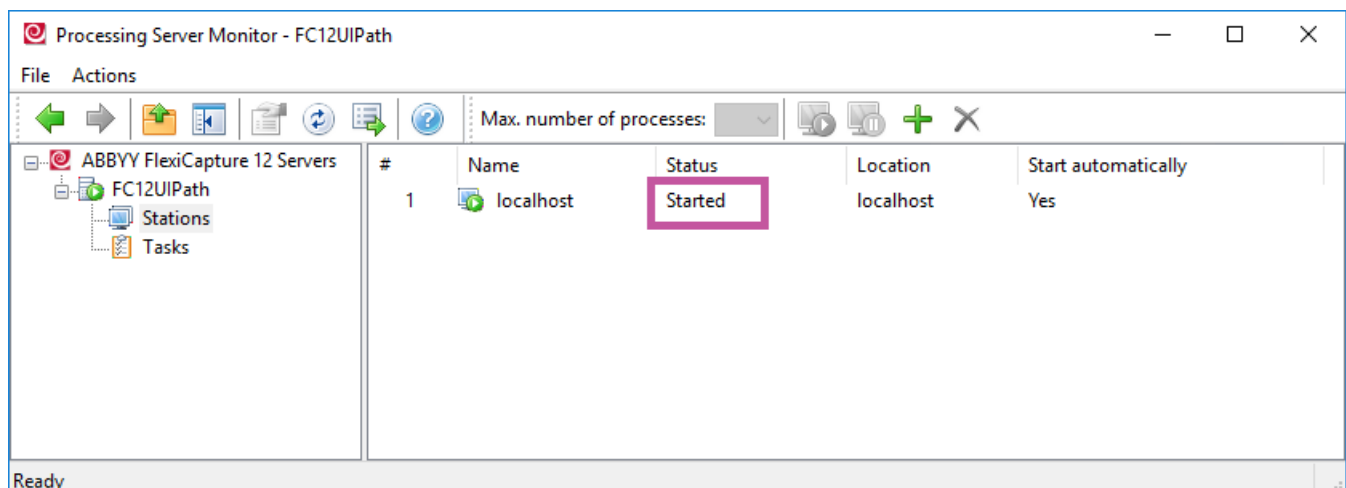
Open the project in **Project Setup Station**. Click the "**Upload project to Server...**" icon on the toolbar. Specify the Application Server address and credentials to connect, click **OK**, and wait until the project is uploaded to the server.

Note: If you are working with ABBYY FlexiCapture Cloud, you will also need the Project Setup Station desktop application to configure the project. For more information about the steps for uploading a project to the FlexiCapture Cloud server, see [Configuring ABBYY FlexiCapture project](#) for a Multi-Task package.

You can learn more about each scenario using the preconfigured sample project named InvoiceDemoProject_Singletask (you can find this project in the **\Single-task package\Samples\FlexiCapture Projects** folder in the connector distribution package).

On the FlexiCapture Project Setup Station, open the sample InvoiceDemoProject_Singletask and click **Upload Project to Server**. There are three types of batch in the project. Each batch type is intended to process documents in one of the usage scenarios. The export settings are specified in the "European Invoice" Document Definition. You will need to edit the script export profile, specifying your [connection settings for UiPath Orchestrator](#) and the [queue name](#).

Verify that ABBYY FlexiCapture Processing Server is running and that Processing Stations have been added, set up, and started. To do this, launch the Processing Server Monitor by selecting **Start** → **All Programs** → **ABBYY FlexiCapture 12 Servers** → **Processing Server**. Both the server and the stations should have the **Started** status:



For more information about configuring ABBYY FlexiCapture Processing Server, see [ABBYY FlexiCapture Online help](#).

FlexiCapture Export Connector installation

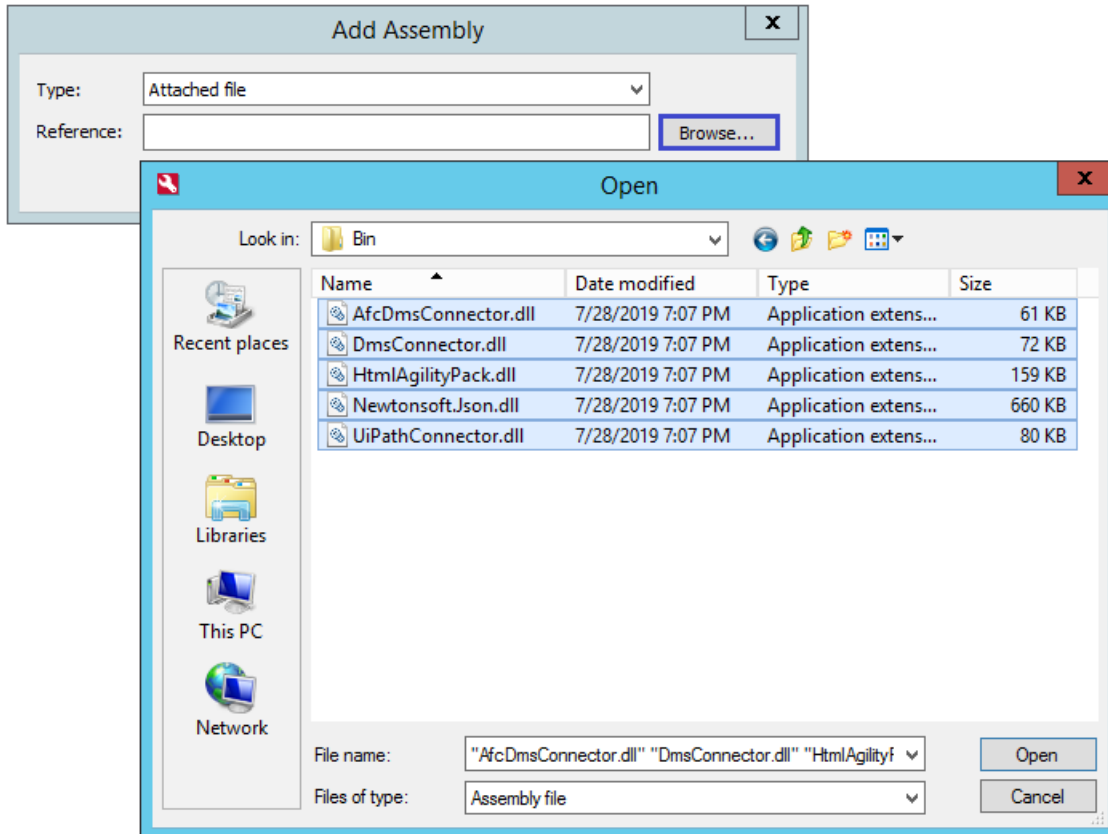
The ABBYY FlexiCapture Export Connector for UiPath is a set of libraries running on the ABBYY FlexiCapture 12 side. These libraries allow exporting data from ABBYY FlexiCapture to UiPath.

Component	Description
DmsConnector.dll	An assembly of models and abstractions that are common to different types of connectors.
AfcDmsConnector.dll	This library receives as input objects specific to ABBYY FlexiCapture, converts them into an internal representation, and sends the converted result to UiPath.
UiPathConnector.dll	This library contains the connector for UiPath. It sends processing results from ABBYY FlexiCapture to the UiPath Orchestrator.
Newtonsoft.Json.dll	Framework for working with JSON strings.
HtmlAgilityPack.dll	HTML parser written in C# to read/write DOM and supports plain XPATH or XSLT

Adding the assemblies to a Document Definition

Before setting up document export, you must add the assemblies to your ABBYY FlexiCapture project. To add the assemblies, please complete the following steps:

1. Open the ABBYY FlexiCapture **Project Setup Station** and open the project.
2. Click **Project** → **Document Definitions...** to open the list of Document Definitions available for the project, select the Document Definition for which you want to specify new export settings, and click **Edit...**
3. Click **Document Definition** → **Document Definition Properties...** to open the properties of the Document Definition and then click the **.Net References** tab.
4. Click the **Add...** button. In the **Add Assembly** dialog box, select **Attached file** from the **Type** drop-down list and browse for the **AfcDmsConnector.dll**, **DmsConnector.dll**, **UiPathConnector.dll**, **Newtonsoft.Json.dll**, and **HtmlAgilityPack.dll** files.



5. Save the Document Definition to apply the changes.

The next step is to create an export profiles.

FlexiCapture export profiles


ABBYY FlexiCapture exports data based on the export profiles in the Document Definitions. To configure a [usage scenario](#), you need to set up the corresponding export profile. There are two types of export profile:

1. [Standard XML export profile](#).
2. [Script export profile to UiPath Orchestrator](#).

Standard XML export profile

1. Open the project on the Project Setup Station.
2. Click **Project**→ **Project properties**→ **General** and make sure that **Export root path** field is empty.
3. Then you need to configure the export profile. Open the list of document definitions in the project. For the required document definition, open the **Document Definition Editor**, go to **Export settings**, add the **New export profile**. Choose **Type**: Export to data files, enable **Save document images** option if required.
4. Next, determine the conditions for applying your export profile. Select the option **Errors are irrelevant** if you want to export both documents without rule errors, and documents with such errors.
5. Select **Target: Create folder structure and filename using template**. Leave the **Export path** field empty.

6. Specify a Template for naming export files (**Template**→ **Edit**→ **View: Advanced**→ use tags to specify Filename template). Batch created by UiPath FlexiCapture Activity contains the Registration Parameter FileNameWithoutExtension with the name of the source file. You can specify Filename template: <RegParam: FileNameWithoutExtension> to use the name of the source file for naming export files. You can also use any tags from the Tags list to specify the Filename template.
7. Value of "If file exist" option is irrelevant in this case. Set Add suffix to name of new file.
8. Next, set the settings for the Data File Format. Select File type: XML Document (* .xml).

 **Note:** If the format of the export file is XML, then the activity will be able to get the array of document fields. At this step, you can define the fields you want to export, and also specify the names for the fields. To do this, click **Set Up Field Mapping**....

9. The next step is to select the option **Save images with data**. Select the **Template of image file names** (Same as data, or specify a separate). If you want you can set the option **Redact sensitive data on images**.
10. Select the image file format.
11. The last step is to set the name for the created export profile. After the new profile is created, you need to check the **Enabled** flag for it.
12. Check the **Critical** flag for the profile to make it required for execution. Then you need to save the changes in the document definition and publish its new version.

Additionally, you can configure any export format you need in FlexiCapture. For example, you can choose to save the source file as a searchable PDF, export document data to other formats like XLS, or save image fields containing signatures or stamps detected on the document. All of these exported files will become available in UiPath.

Script export profile to UiPath Orchestrator

Before creating an export profile, make sure that [the connector assemblies have been added to the document definition](#).

In order to export the processing results from ABBYY FlexiCapture after verification (a long time after the processing started), or if the image source is FlexiCapture Mobile Client or Scanning Station, you need to configure the export using a script. The result of this export is the creation of a new transaction in a particular Orchestrator queue. All processing results are stored in the transaction as strings in the Specific Data.

To be able to export data from ABBYY FlexiCapture to UiPath via the Orchestrator web service, you need to configure a script export profile in the Document Definition.

To create an export profile for UiPath, please do the following:

1. On the Project Setup Station open your ABBYY FlexiCapture project.
2. Click **Project** → **Document Definitions...** to open the list of Document Definitions available for the project, select the Document Definition for which you want to specify new export settings, and click **Edit**....
3. Click **Document Definition** → **Export Settings**....


4. Click the **Add...** button to start the export profile creation wizard.
5. In the **Select the Type of Destination** step, select **Custom export (script)** from the **Type** drop-down list. Leave the other settings unchanged or modify them as described in ABBYY FlexiCapture Help. Click **Next**.
6. In the **Script Export** step, click the **Edit Script...** button, select **Script Language: C# .Net**, and paste into the script editor one of the two sample scripts that are available in the Samples folder in the UiPath Connector distribution package: **UiPath - ExportScript - Configure by script (Attended service).cs** (please see [Using a script to specify export settings](#) for details) or **UiPath - ExportScript - Configure by XML (Attended service).cs** (please see [Using an XML file to specify export settings](#) for details). For a detailed description of the export options, see [Specifying export options](#).
7. In the **Select the Destination Name** step, specify a name for your export profile and click **Finish**.
8. The newly created export profile will appear in the list of available export profiles in the export setup dialog box. To make ABBYY FlexiCapture use this profile on Export stage, select the box next to the profile in the **Enabled** column.
9. Click **OK** and close the Document Definition editor. Next, click the **Publish** button to publish your Document Definition.


Using an XML file to specify export settings

The advantage of using an XML file is that you don't have to edit the script code or the Document Definition. All modifications can be made by editing the XML file, which is much simpler than editing the script code. However, the XML file should be located on every ABBYY FlexiCapture Processing Station. And you will also have to synchronize it manually on all of the ABBYY FlexiCapture stations from which data is to be exported to UiPath.


To specify export settings in an XML file:

1. [Create an export script](#) in the document definition that contains the sample script **UiPath - ExportScript - Configure by XML (Attended service).cs**. This script gets the export settings from the XML file.
2. Create such an XML file named **<Project name>_<Document Definition name>.xml**. This naming scheme will allow you to have multiple XML files for different Document Definitions.
3. In the registry of the computer with ABBYY FlexiCapture Processing Station, locate HKEY_LOCAL_MACHINE\SOFTWARE\ABBYY\FlexiCapture\12.0\Connectors\UiPath. Create new string value and name it "XmlFolder". Then in its value data field specify the path to the folder in which the XML file with export settings was created.
4. In the registry of the computer with ABBYY FlexiCapture Processing Station, locate the HKEY_LOCAL_MACHINE\SOFTWARE\ABBYY\FlexiCapture\12.0\Connectors\ and create new string value and name it "UiPath". Set its value data field as **true**.

 **Note:** If you do not have the necessary keys in the HKEY_LOCAL_MACHINE \ SOFTWARE registry branch, create them.

 **Note:** As an example of a configuration XML file with detailed comments, please see **default.config.xml** file that is located in the Sample folder in the ABBYY FlexiCapture Connector for

UiPath distribution package.

 **Note:** In the code of **UiPath - ExportScript - Configure by XML (Attended service).cs**, you can also find some other possible naming schemes for your XML files.

Using a script to specify export settings

The advantage of using a script is that all the export settings will be automatically used by all the ABBYY FlexiCapture stations from which data are exported to UiPath. When using an XML file, you can only specify static settings, whereas scripts allow you to specify different file naming rules, file locations, and field mappings depending on the data contained in the exported document.

When working with ABBYY FlexiCapture Cloud, you also need to use a script to specify export settings, since ABBYY FlexiCapture Cloud does not provide the ability to store an XML file with configuration on Processing Stations.

However, to modify the export settings, you will have to make changes to the script and, consequently, publish a new version of the Document Definition.

Please use the script named **UiPath - ExportScript - Configure by script (Attended service).cs** from the connector files.

Specifying export options

In the XML configuration file or in the script (depending on how you have chosen to configure your export settings), you must specify the options that will be used for export. These include connection parameters to be used to connect to UiPath Orchestrator, output image options, method of naming export files, and field mapping.

1. UiPath Orchestrator connection settings.

1.1. In the **Server** option, specify the address of the server where Orchestrator is located.

- If you are using UiPath Enterprise Orchestrator, specify the Orchestrator web application's address as the **Server** option like so:

```
connectorSettings.DmsConnectionSettings.Server = "https://orchestrator.mydomain.com";
```

- If you are using UiPath Cloud Platform Orchestrator, specify the following server address:

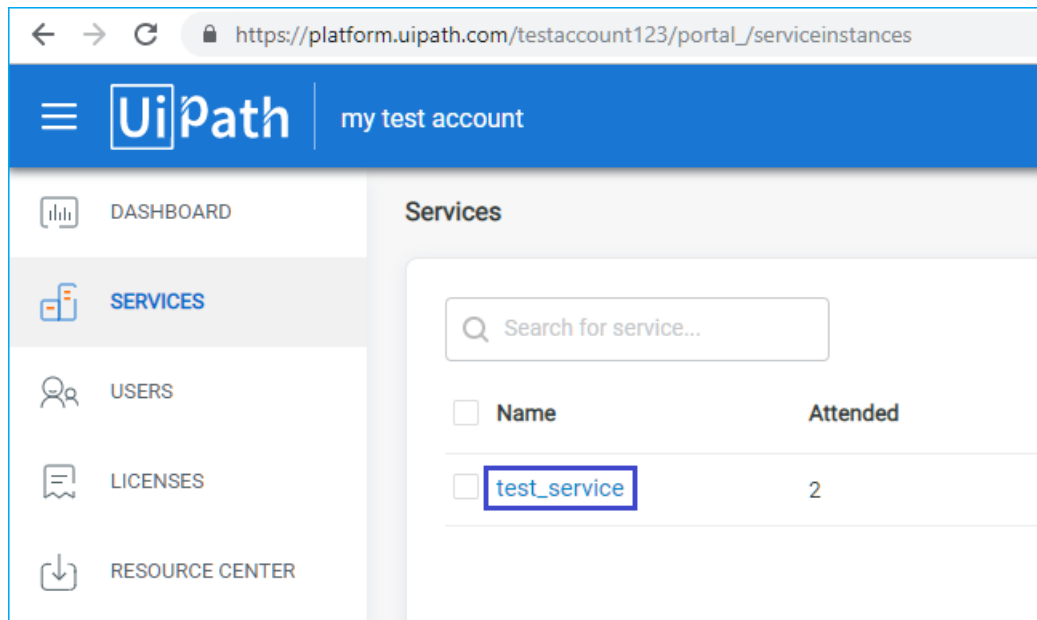
```
connectorSettings.DmsConnectionSettings.Server = "https://platform.uipath.com";
```

1.2. In the **Repository** option:

- If you are using UiPath Enterprise Orchestrator, specify the name of your Orchestrator tenant.
- If you are using UiPath Cloud Platform, specify your service name in your account like so:

```
connectorSettings.DmsConnectionSettings.Repository = "test_service";
```

You can find out the name of an available service by opening your UiPath Cloud Platform account and navigating to the **Services** tab:



1.3. In the **Username** option:

- If you are using UiPath Enterprise Orchestrator, specify the name or the email of the Orchestrator user.
- If you are using UiPath Cloud Platform, specify the user's email and authentication type in the [additional export option](#).

1.4. In the **Password** option specify the Orchestrator user's password.

Important! When using UiPath Cloud Platform with old accounts from UiPath Community Orchestrator, you have to [migrate it first to the new authentication method by resetting password](#).

The following roles should be assigned to a user in Orchestrator: **view queues**, **create transactions** and **view units**.

Add Role				
Name *	User role			
	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Edit	<input checked="" type="checkbox"/> Create	<input type="checkbox"/> Delete
<input checked="" type="checkbox"/> Queues	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Transactions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Units	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. In the **FileName** field, specify template, which will be used to generate the names of the export files.

List of supported dynamically replaceable tags:

- <Project> – name of ABBYY FlexiCapture project;

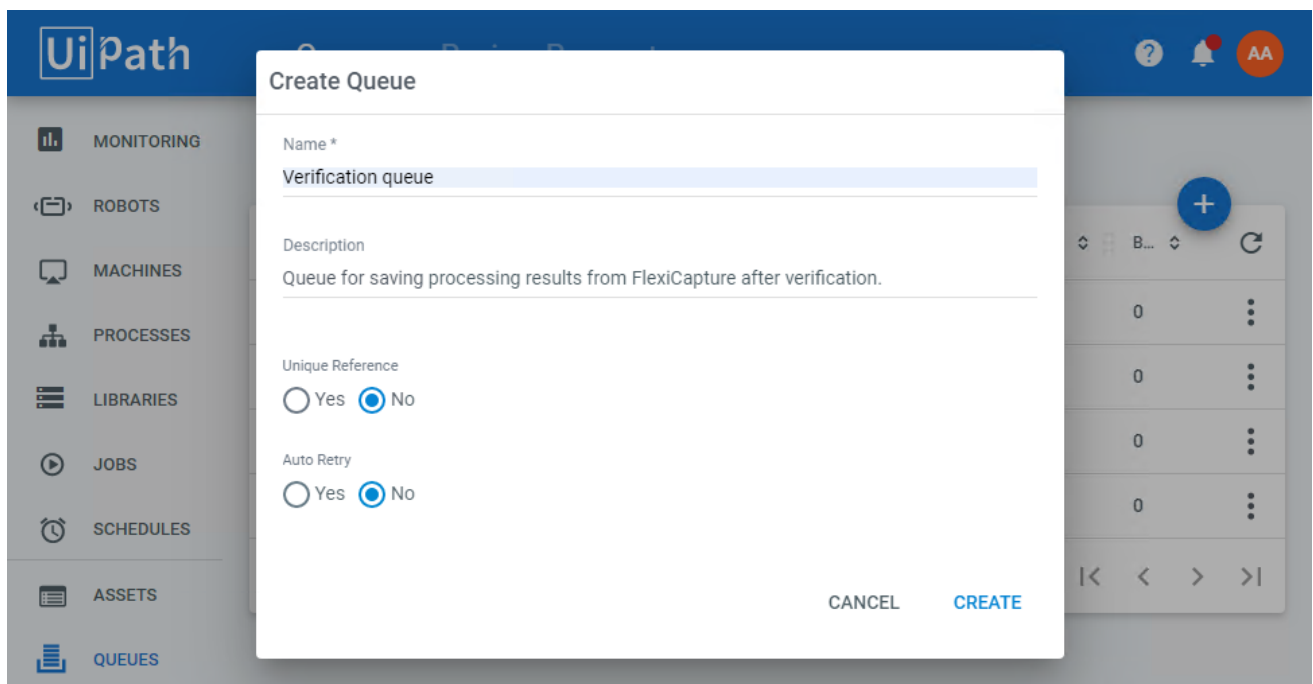
- <Batch> – batch name;
- <DocumentDefinition> – name of document definition in ABBYY FlexiCapture;
- <Identifier> – document identifier;
- <BatchType> – batch type name;
- <Time> – current time in yyyy-MM-dd_HH-mm-ss format;
- <Index:> – Index field value.

Also, you can use the <FileNameWithoutExtension> tag to use the name of the source file (if image was received from UiPath Activity, batch contains this Registration Parameter with name of source image file).

3. In the field **DmsMetadataTemplate.Name** specify the Orchestrator queue name, for example:

```
connectorSettings.MappedFields.DmsMetadataTemplate.Name = "Verification queue"
```

After the export script is executed, a new transaction with data will be created in this queue. Create such a queue in Orchestrator:



4. **ExportImageSavingOptions** - the options available for output images (e.g. image format options or ability to redact fields containing confidential information) are described in ABBYY FlexiCapture Help (look for the description of the [ExportImageSavingOptions](#) interface).
5. Map the fields in order to export recognized metadata. For each Document Definition field whose value you want to export, you must specify its name in the transaction.

Note: Only those Document Definition fields will be exported to the transaction which have been mapped. Any number of fields can be mapped.

If you configure export options using a script, the field pair must be in the following format:

```
{ @"Invoice Layout\InvoiceNumber", "InvoiceNumber" }
```

The first value is the full path to the field in the FlexiCapture Document Definition. The second value is the name of the field in the UiPath Orchestrator transaction. In the second value, you can specify the name that you want to use for the field in the transaction. Fields with the specified names will be created in the transaction at runtime.

If you configure export options using XML, the field pair must be in the following format:

```
<FieldPair>

<AfcField>Invoice Layout\InvoiceNumber</AfcField>


<DmsField>InvoiceNumber</DmsField>

</FieldPair>
```

Where `AfcField` represents the full field name in the ABBYY FlexiCapture Document Definition, and `DmsField` represents the field name in the UiPath Orchestrator transaction.

6. You can also specify additional UiPath export settings using the **DmsSpecificOptions** property:

6.1. **AuthenticationType** lets you choose the authentication type that will be used when logging in to UiPath Orchestrator. It can have only 2 values: *Basic* and *OAuth2*.

 **Important!** If you are setting up exporting to UiPath Cloud Platform Orchestrator, using this option is required. In this case, specify it to be *OAuth2*.

If you are setting up exporting to UiPath Enterprise Orchestrator, specify the value to be *Basic*. For UiPath Enterprise Orchestrator, using this option is not required.

A value for this option can be set using the following code:

```
connectorSettings.DmsSpecificOptions = new Option[] {
    new Option(new KeyValuePair<string, object>("AuthenticationType", "OAuth2"))
};
```

where `AuthenticationType` is the option name and the second attribute is the option value.

6.2. **Reference** lets you specify a reference when creating a transaction. To set up this option, include the following piece of code in the export script:

```
connectorSettings.DmsSpecificOptions = new Option[] {
    new Option(new KeyValuePair<string, object>("Reference", Document.Batch.Id.ToString()))
};
```

where `Reference` is the option name and the second attribute is the option value. Specify `Document.Batch.Id.ToString()` as the value in order to use the batch identifier as a reference.

6.3. **OrganizationUnitName** lets you export processing results to the specified Orchestrator Organization Unit. This option is available only for UiPath Enterprise Orchestrator.

 **Note:** in Orchestrator, the [Organization Unit](#) feature should be enabled.

To set this option up, include the following code in the export script:

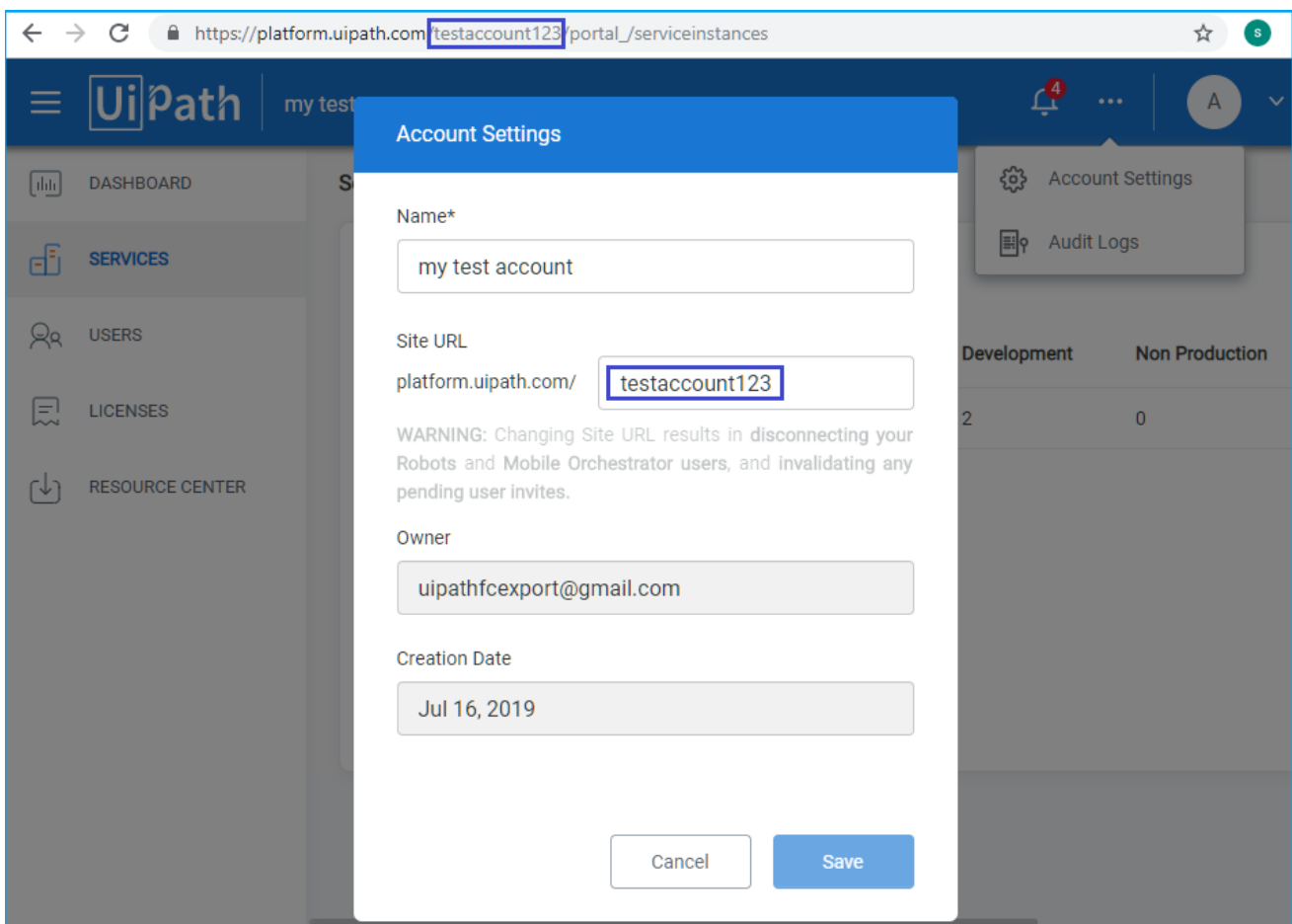
```
connectorSettings.DmsSpecificOptions = new Option[] {
```

```
new Option(new KeyValuePair<string, object>("OrganizationUnitName", "ORG_UNIT_NAME"))
};
```

where `OrganizationUnitName` is the option name and the second attribute is its value. Specify the name of the Organization Unit that you want to set up as the option value.

- 6.4. **AccountLogicalName** lets you specify to which UiPath Cloud Platform account processing results will be exported. This option is used if several UiPath Cloud Platform accounts are available to the user. It is only available for UiPath Cloud Platform Orchestrator.

The account logical name is used as the value of this option. The logical name can be found in the Orchestrator's **Account Settings**, it is the editable part of the **Orchestrator site URL**. The logical name is also visible in the browser's address bar once you have logged in to your account.



The sample code below illustrates the use of this option:

```
connectorSettings.DmsSpecificOptions = new Option[] {
new Option(new KeyValuePair<string, object>("AccountLogicalName", "testaccount123"))
};
```

where `AccountLogicalName` is the option name and the second attribute is the option value.

If you need to use several options in a single export script, list them as elements of the **Option** array (separated by commas). For example:


```
connectorSettings.DmsSpecificOptions = new Option[] {
```

```
new Option(new KeyValuePair<string, object>("AuthenticationType", "OAuth2")),
new Option(new KeyValuePair<string, object>("AccountLogicalName", "ACCOUNT_LOGICAL_NAME")),
new Option(new KeyValuePair<string, object>("Reference", Document.Batch.Id.ToString()))
};
```

7. **SaveDocumentImages** option indicates whether image files should be saved to a UiPath Orchestrator transaction. Set this option to *true* if images should be saved; set this option to *false* if no images should be saved.

The sample code below illustrates the use of this option:

```
connectorSettings.SaveDocumentImages = true;
```

 **Note:** You can find examples of setting up export options in the **[Connector installation path]\Single-task package\Samples\FlexiCapture Scripts** folder. Look for files named **default.config.xml** and **UiPath - ExportScript - Configure by script (Attended service).cs**.

Receiving data from a transaction in the Orchestrator queue

The result of script export is the creation of a new transaction in a particular Orchestrator queue.

All processing results are stored in the transaction as strings in Specific Data Items:

- DocumentDefinition name;
- BatchRegistrationParameters (Names and values);
- Fields (Names and values);
- Files (File names and file content as a base64 string).

Next, these strings need to be extracted and converted into a suitable data type.

Transaction Processing with the extraction of data from it must be carried out in the UiPath process. An example of this process is included in the distribution package: **ABBYY FlexiCapture 12 Receiver** in the **Samples** folder. Before launching the process, [connect your Robot to Orchestrator](#), to which script exporting from ABBYY FlexiCapture has been set up.

1. The process should receive the transaction from the queue (store it in a variable of type QueueItem). The sample process will handle the first transaction having "New" status in the queue. Launching the process once will process one transaction.
2. The process has been configured to display a window where you can select a folder into which to save transaction data.
3. When a transaction is received, it is necessary to extract its rows and deserialize them into a JSON object using the Deserialize json Activity. The JSON objects received for each of the Specific Content Items must be stored in the variables of the following variable types:
 - DocumentDefinition - String;
 - BatchRegistrationParameters, Fields, Files - IEnumerable<KeyValuePair<string, string>>.

Then you can process the received data in any necessary way. The sample process saves them to disk.

Note: Before launching the process, specify the name of the queue from which to take a transaction. Click the **Get Transaction** activity and on the **Variables** tab find the **queueName** variable. In the **Default** field of this variable, specify the name of the queue from which to take a transaction.

The screenshot shows the UiPath Studio interface for a project named 'UiPath Studio - ABBYY FlexiCapture 12 Receiver'. The workflow is in the 'Main' section and consists of three activities: 'Start', 'Get Transaction', and 'Message box'. The 'Get Transaction' activity is highlighted, and its 'Variables' tab is open, displaying a table of variables.

Name	Variable type	Scope	Default
documentDefinition	String	Main	Enter a VB expression
fields	IEnumerable<KeyValuePair<String, String>>	Main	Enter a VB expression
output	String	Main	Enter a VB expression
queueName	String	Main	Verification queue

The 'queueName' variable is highlighted with a blue border. The 'Default' field for this variable is set to 'Verification queue'. The 'Properties' pane on the right shows the 'Misc' tab with the following properties:

- Default: "Q" ...
- Modifiers: Non
- Name: queueN
- Scope: Mai
- Type: Strin

You can launch the process from UiPath Studio, or you can publish the process to Orchestrator and use a Robot to launch it.

ABBYY® FlexiCapture®12 © 2019 ABBYY Production LLC

ABBYY and FlexiCapture are either registered trademarks or trademarks of ABBYY Software Ltd.

All other product names, trademarks and registered trademarks are the property of their respective owners.

Information in this document is subject to change without notice and does not bear any commitment on the part of ABBYY.

The software described in this document is supplied under a license agreement. The software may only be used or copied in strict accordance with the terms of the agreement. It is a breach of the "On legal protection of software and databases" law of the Russian Federation and of international law to copy the software onto any medium unless specifically allowed in the license agreement or nondisclosure agreements.

No part of this document may be reproduced or transmitted in any form or by any means, electronic or other, for any purpose, without the express written permission of ABBYY.