Aquaforest
an ORPALIS company

PDF
PDF Days Online 2021

Smart Processing of Millions of PDF Files

+++ NO CODE REQUIRED +++

Agenda

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- A quick overview of Aquaforest's **Low Code / No Code Applications**

- **Use Case ALPHA – All that paper!**
  Record-keeping for European shipments after Brexit → **Kingfisher**
- **Use Case BRAVO – Can't email this contract!**
  Compressing PDFs for thousands of Bank employees → **Autobahn DX**

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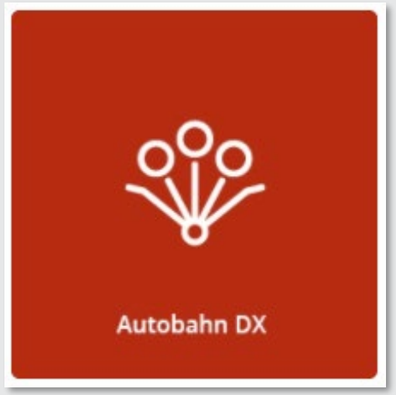
Low Code No Code Applications



- **Autobahn** – High-performance high-volume automated OCR system
- **Searchlight OCR** – Automated in-place OCR processing tool
- **Searchlight Tagger** – Automated adding of metadata tags based on document content
- **Kingfisher** – Automated document organisation tool (split / rename / barcode / extract)
- **PDF Connector** – 10 OCR / PDF Steps in Microsoft's **Power Automate** platform

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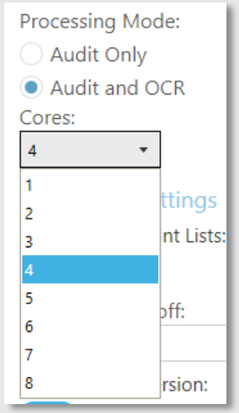
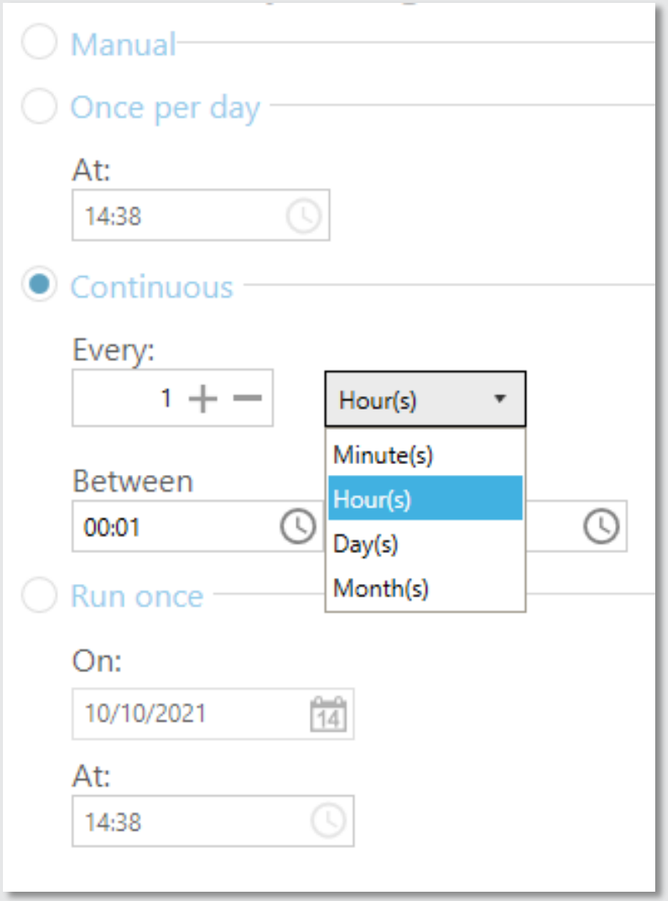
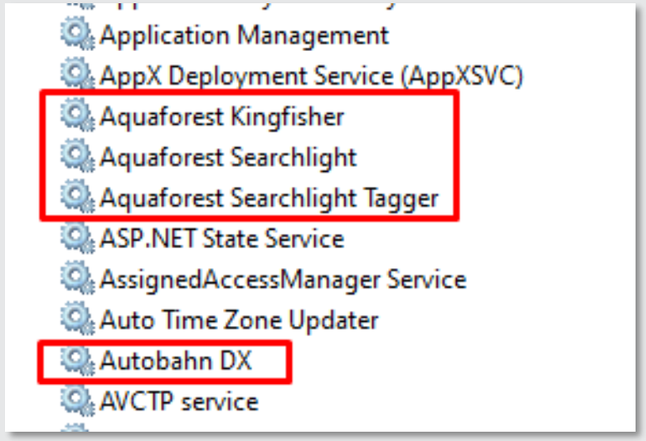
Bulk Processing Architecture

- All products run as a **background service**
- All products are **scalable by number of CPU cores used** (concurrently processed documents)
- Many of our clients have repositories of **many million documents** (Government, legal, financial, pharma…)
- Our clients predominantly use **automated scheduled processes** and only manage exceptions





Document Library ID	14
Run ID	28
Connection Totals	Total Documents: 260,563 Total Error Documents: 4,372 Total Pages: 2,933,048 Total Searchable Pages: 2,291,944 (78.1 %)



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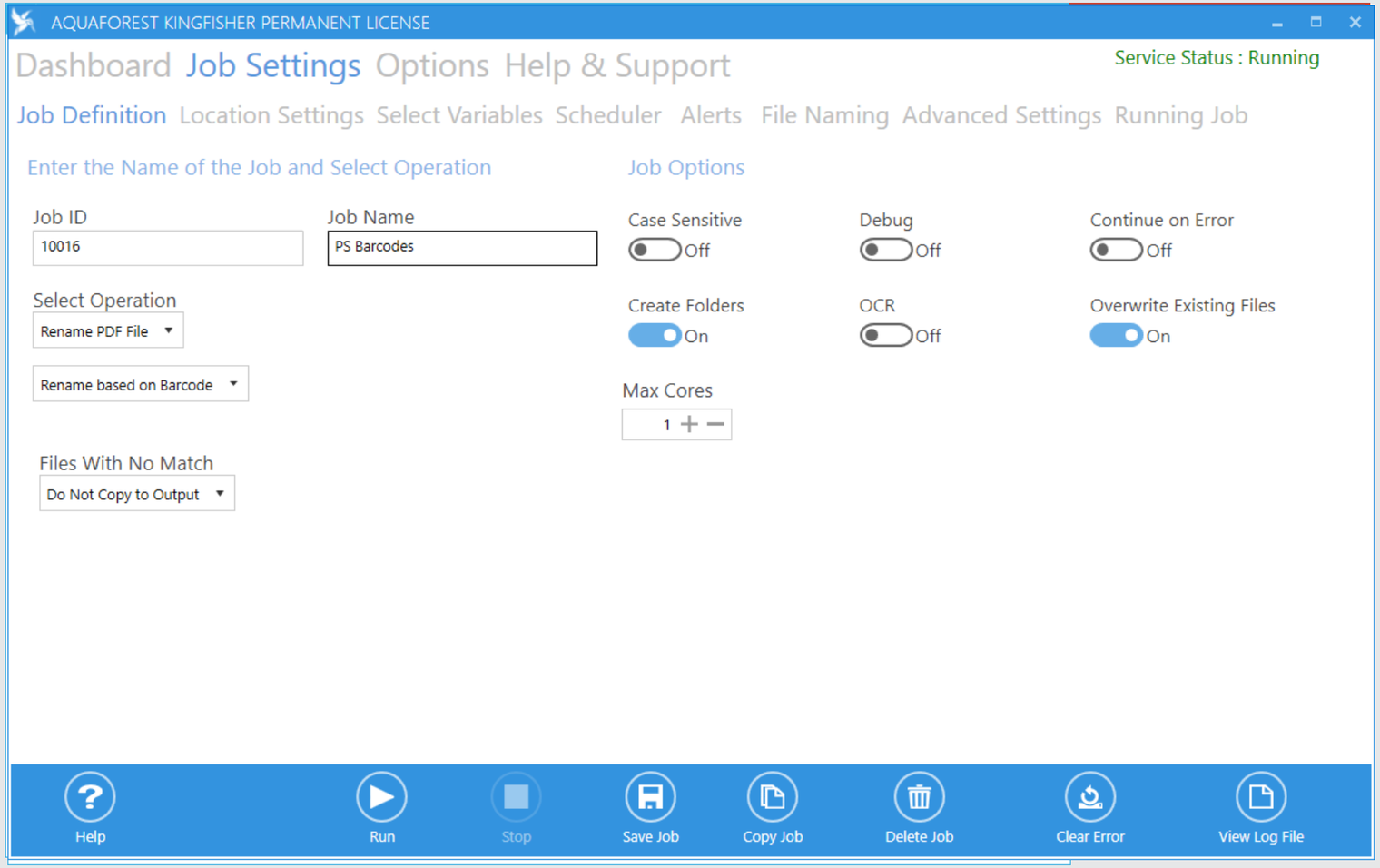
User Interfaces



- No coding required

- **But if you *really* want it:**
- Optional RegEx filters
- Execute scripts
- Command line
- ADX API
- SDK

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Use Case ALPHA – Transport Company

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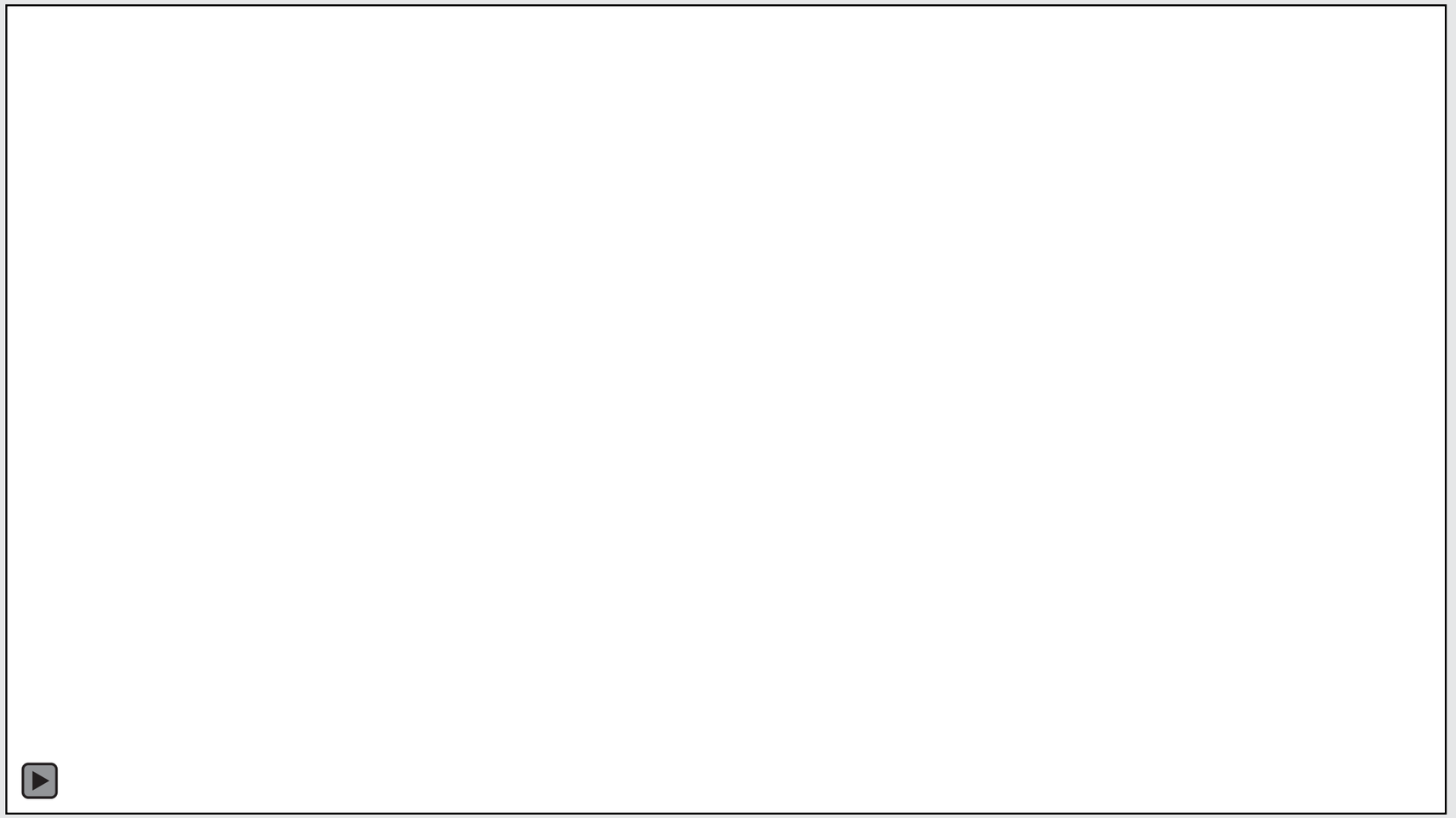
Use Case ALPHA



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What happens and what needed doing?

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- Hundreds of pages are being scanned every day
- CRM generates cover sheet with main data and QR code
- Papers relating to the same shipment may be scanned at different times over several days
- Different shipments are scanned together in one process

- **We need to be able to find any individual shipment papers by**
  - **Console Reference**
  - **File Reference**
  - **Shipment Date**

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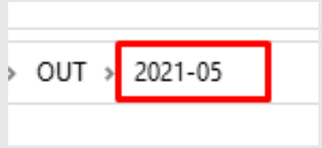
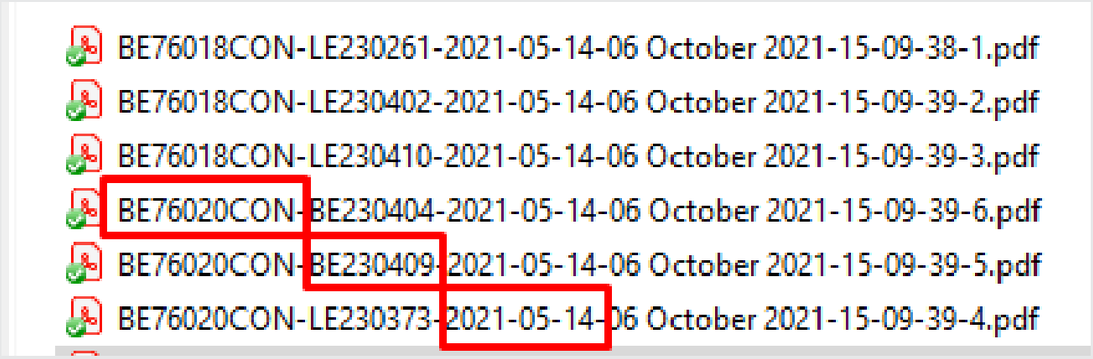
In other words

- We need to get from this

- To this for findability
  - Create folder and group by shipment year/month



  - Feature all references in file name



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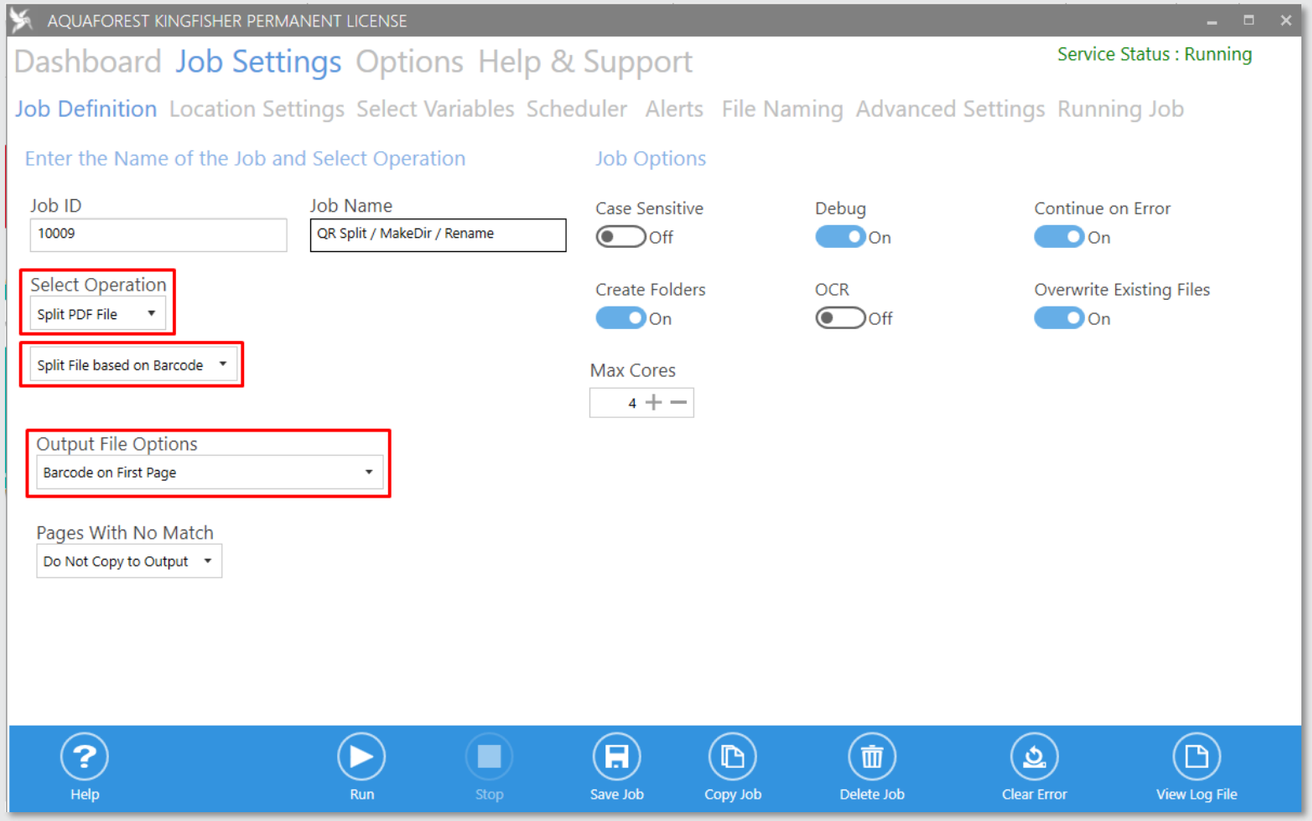
Kingfisher 1 - Split by barcode



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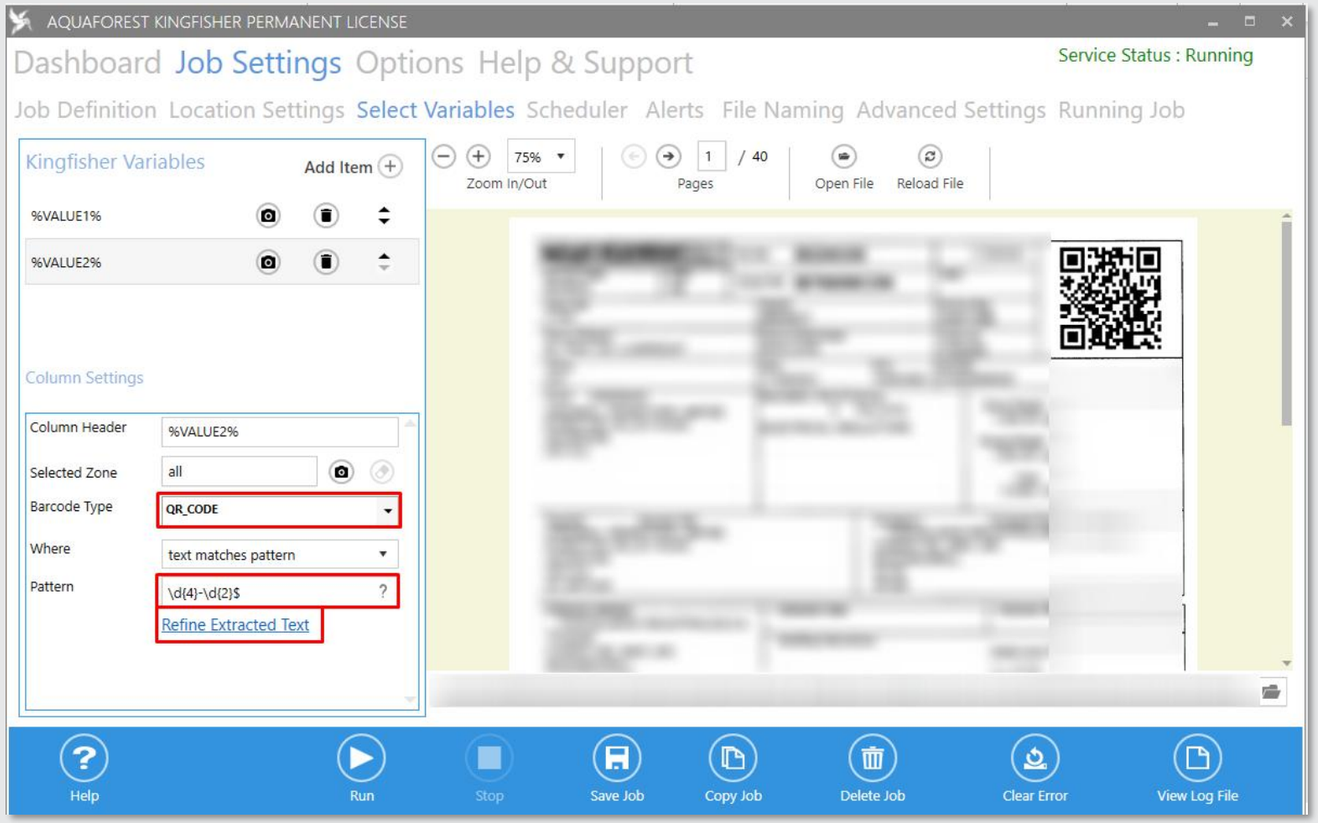
Kingfisher 2 - Extract shipping date



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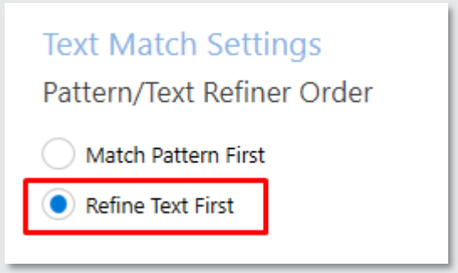
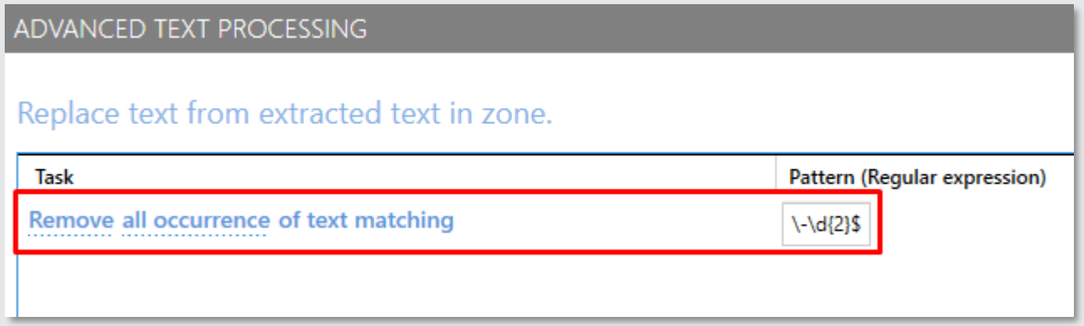
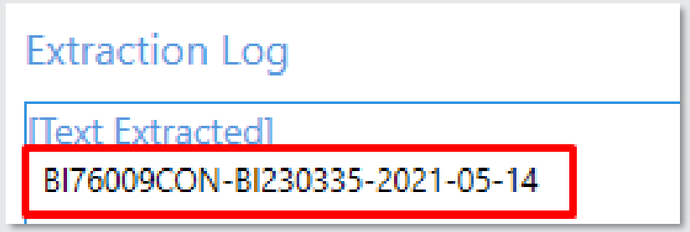
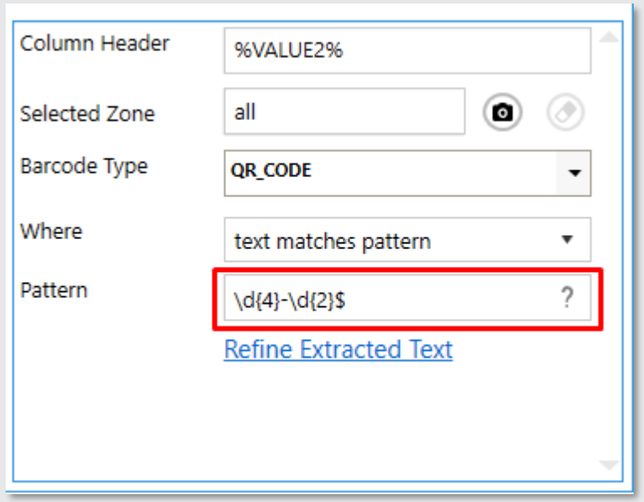
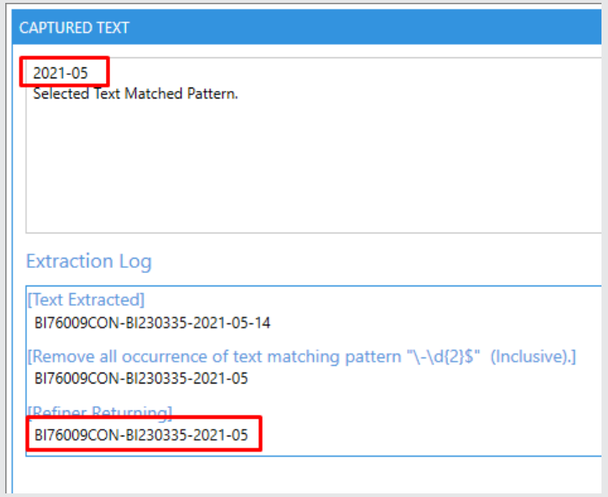
Kingfisher 3 - Form folder variable











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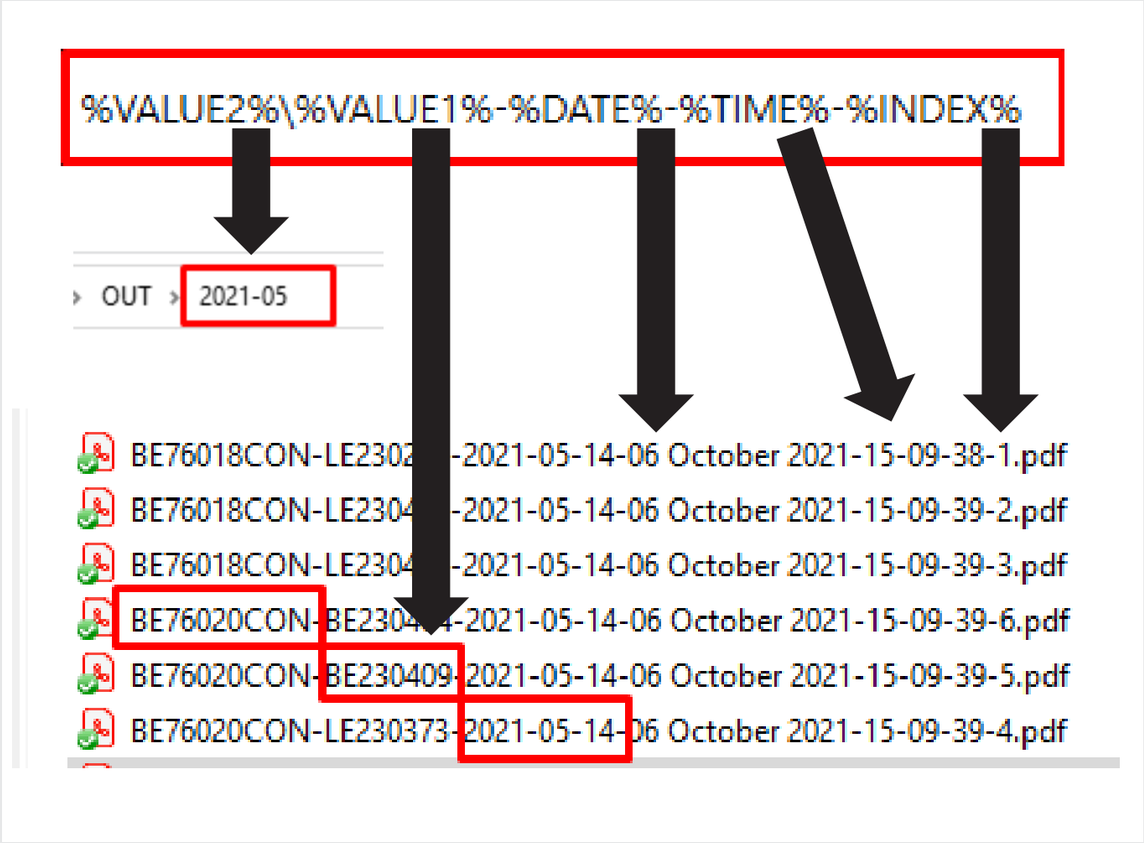
Kingfisher 4 - Make folder / Rename file



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Use Case BRAVO – Bank

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What happens and what needed doing?

- Regional European Bank with 3,000 employees
- Much of customer communication is done via email
- Maximum attachment size for emails is 20MB
- Many contracts get scanned and documents get combined in PDFs resulting in files larger than 20MB → cannot be emailed
- **Bank needs an effective compression tool allowing each employee individually to compress files as and when needed**
- System needs to reside within the Bank's IT infrastructure

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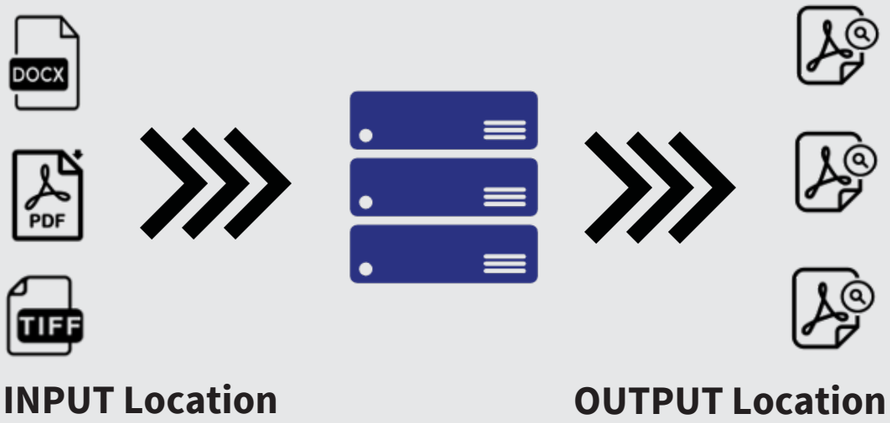
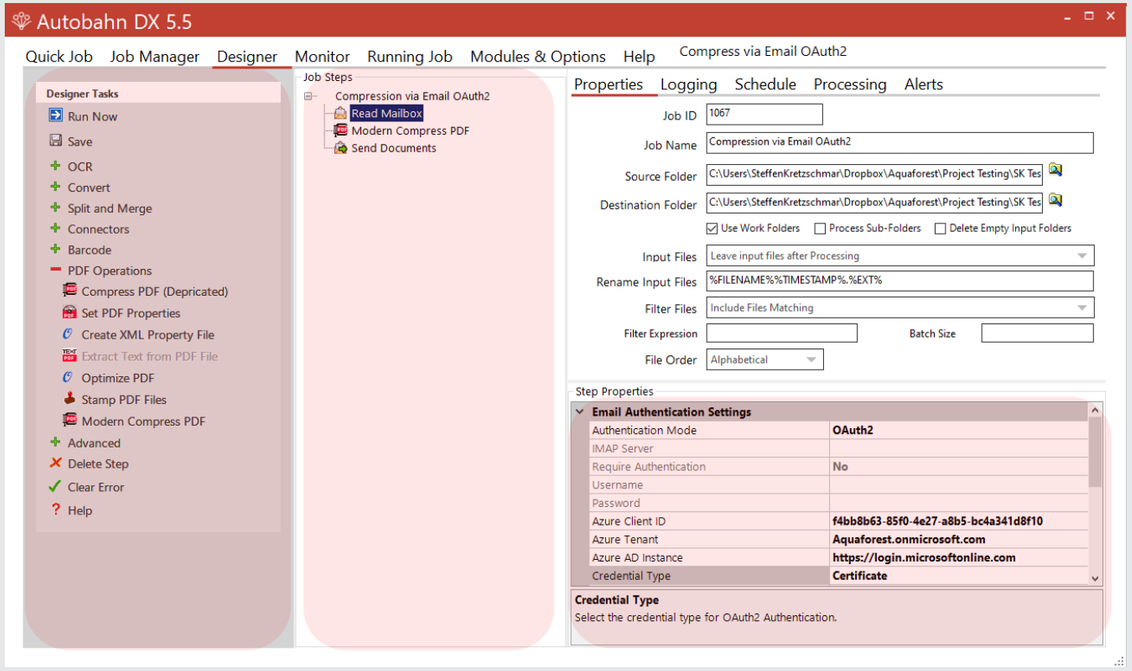
Autobahn – Overview

Autobahn DX

- **Workflow Application**
- Users **add Job Steps** from the Task Menu
- **Manage job steps order**
- Set **step properties**





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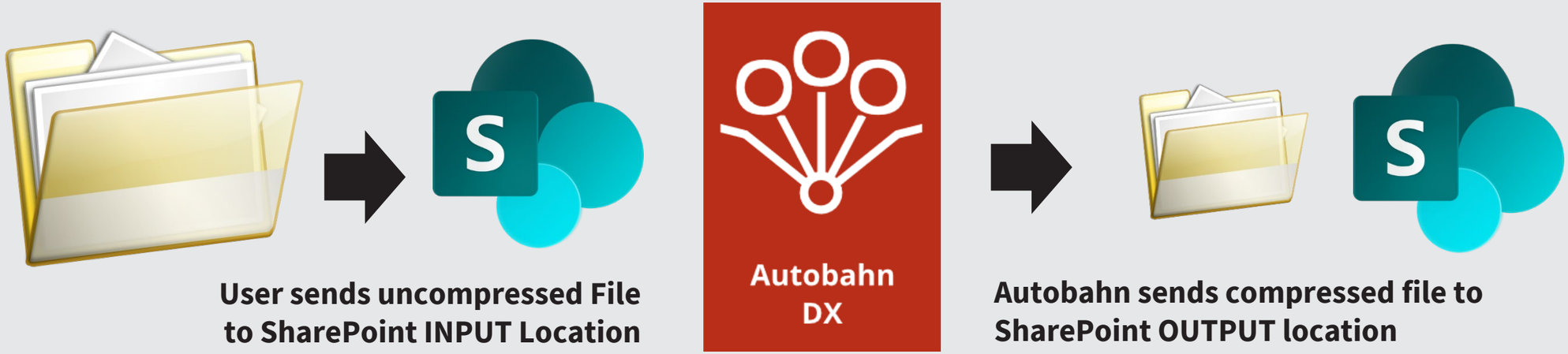
Autobahn – Compress via SharePoint



- Employees move their uncompressed files to a specific SharePoint **INPUT** location
- An Autobahn process is scheduled at certain intervals to monitor this SharePoint location
- Compressed files are sent to a specific SharePoint **OUTPUT** location (rename option)
- Input files can be archived, deleted or renamed (Power Automate)
- Emails can be sent once files arrive in OUTPUT location (Power Automate)

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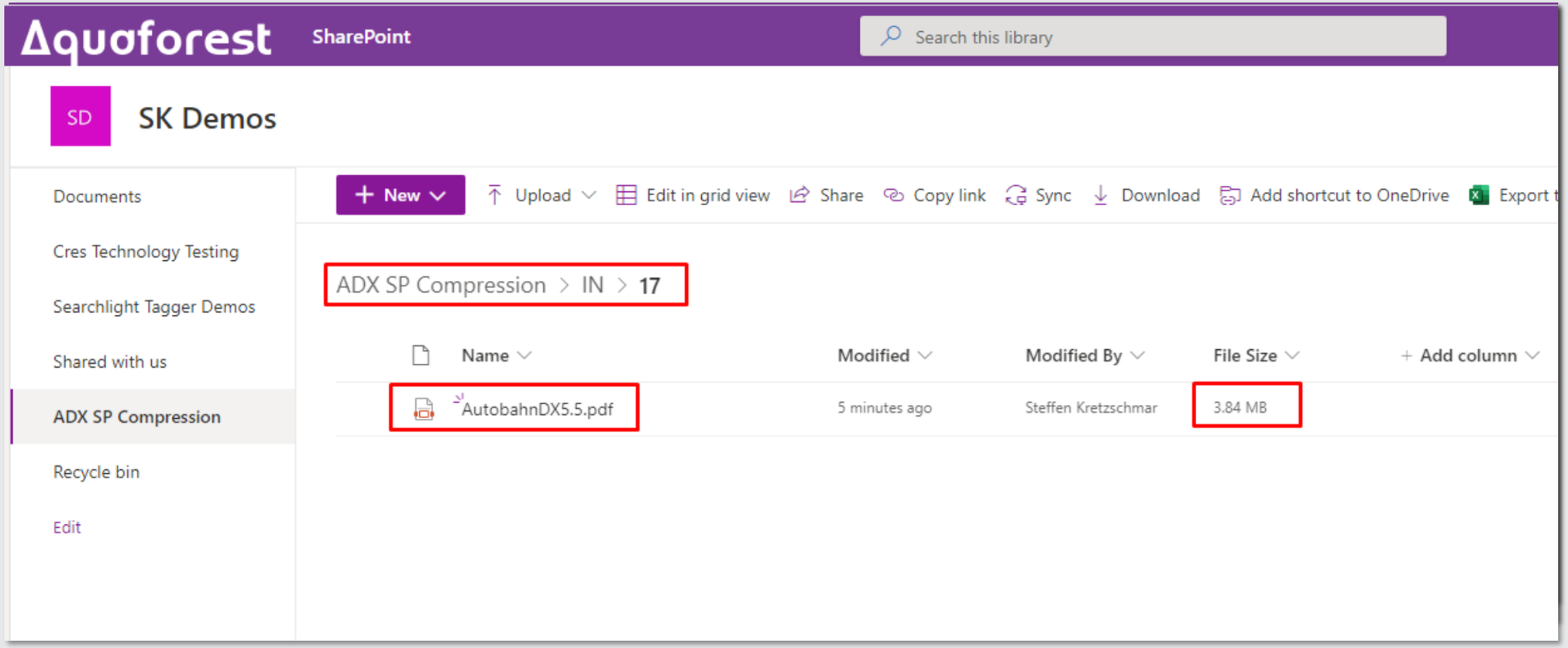
Autobahn – SharePoint INPUT Folder

Autobahn DX



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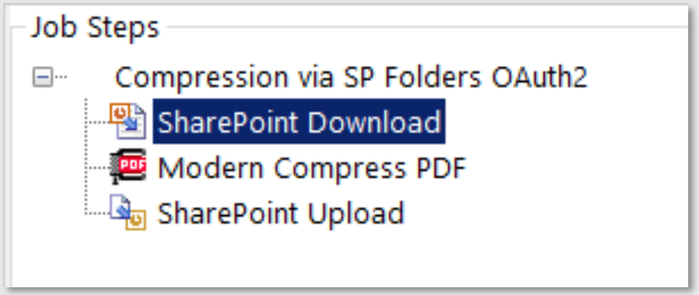
Autobahn – ADX Process - Download

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Applying input file filters.
Using 4 cores.
Checking library: https://aquaforest.sharepoint.com/sites/SKDemos/ADX SP Compression

Autobahn DX will download 3 document(s).
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%202340mm)%20Artwork%20OUTLINED.pdf downloaded successfully to
C:\Aquaforest\Autobahn DX\work\1147\work2\INPUT\23/S1E - RO-KA-TECH - Wall 2 (3810mm x 2340mm) Artwork OUTLINED.pdf.

https://aquaforest.sharepoint.com/sites/SKDemos/ADX%20SP%20Compression/IN/08/2021-cloud-report-cockroach-labs.pdf downloaded successfully to
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https://aquaforest.sharepoint.com/sites/SKDemos/ADX%20SP%20Compression/IN/17/AutobahnDX5.5.pdf downloaded successfully to
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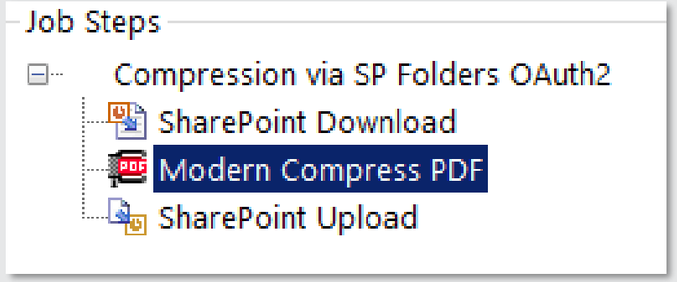
Autobahn – ADX Process - Compress

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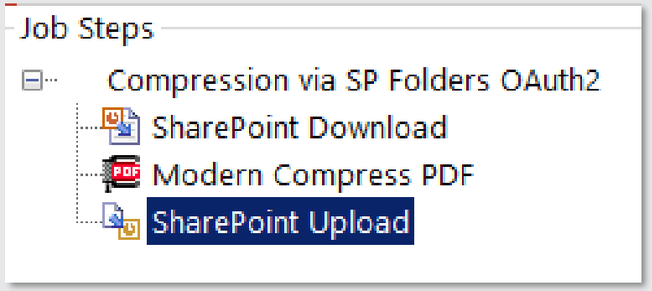
Autobahn – ADX Process - Upload

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Applying input file filters.

Successfully uploaded file = C:\Aquaforest\Autobahn DX\work\1147\work3\INPUT\08\2021-cloud-report-cockroach-labs.pdf
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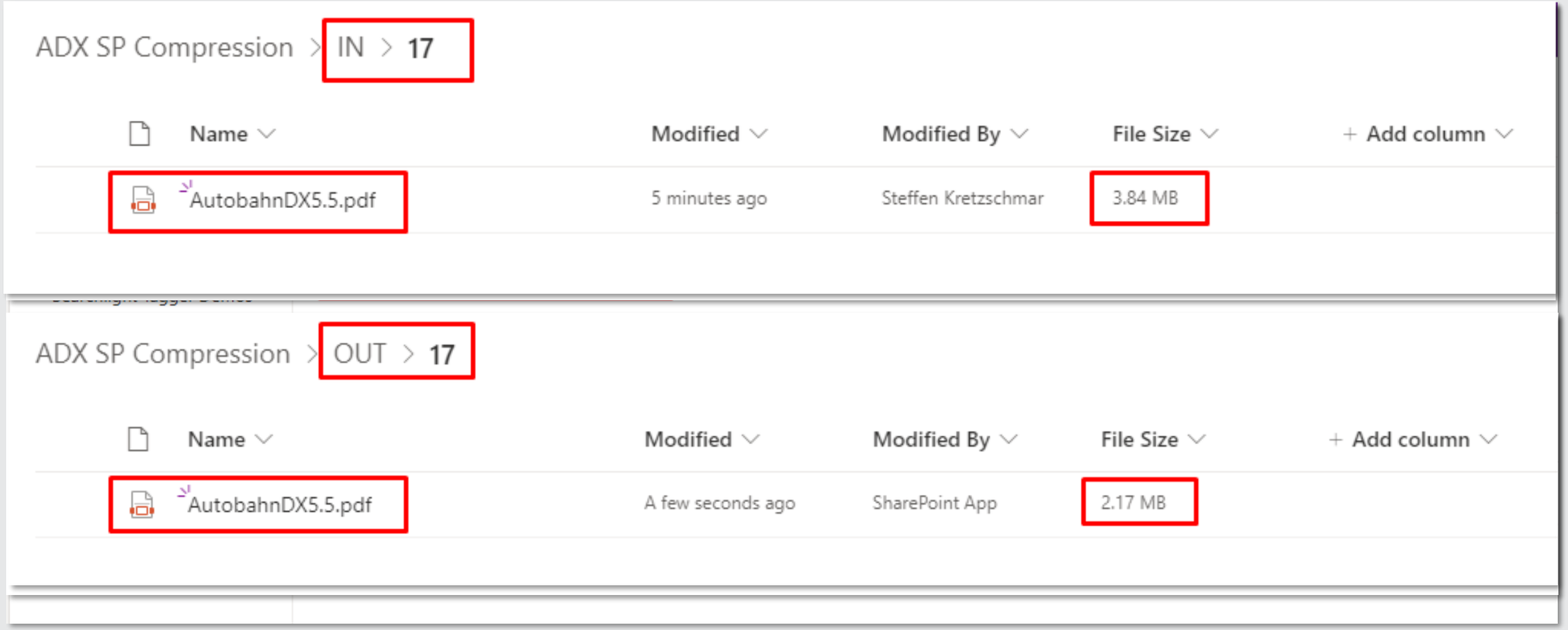
Autobahn – SharePoint OUTPUT Folder

PDF Days Online 2021

Autobahn DX



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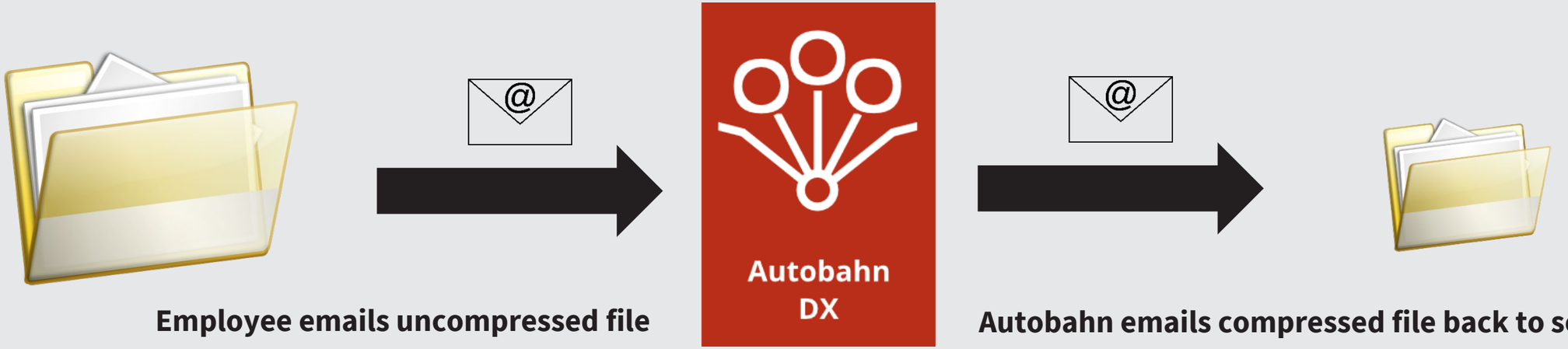
Autobahn – Compress via Email



- Employees send their uncompressed to a specific Email address (e.g. compress@bank.com)
- An Autobahn process is scheduled to check that inbox at certain intervals or continuously
- Compressed files are sent back to the sender automatically once that process is complete
- That, of course, won't work for the Bank if the uncompressed file exceeds the 20MB limit ☺

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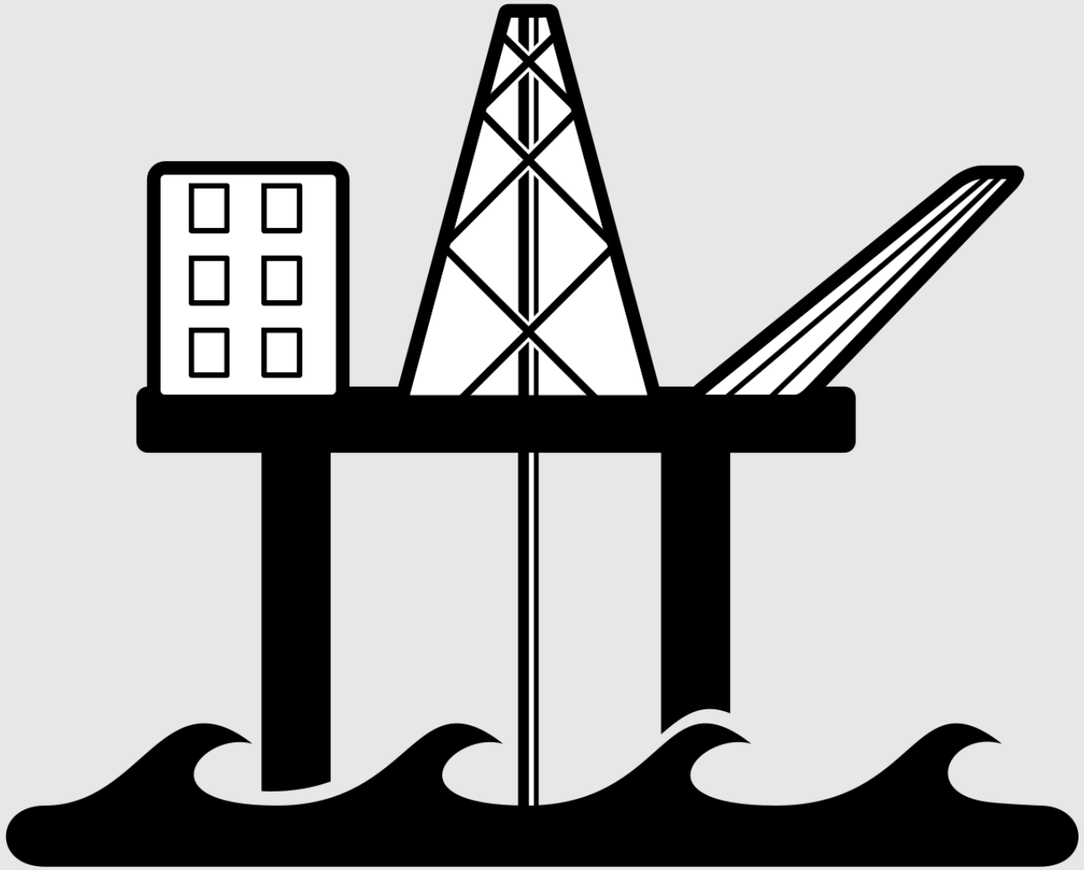
Use Case CHARLIE – Oil Authority



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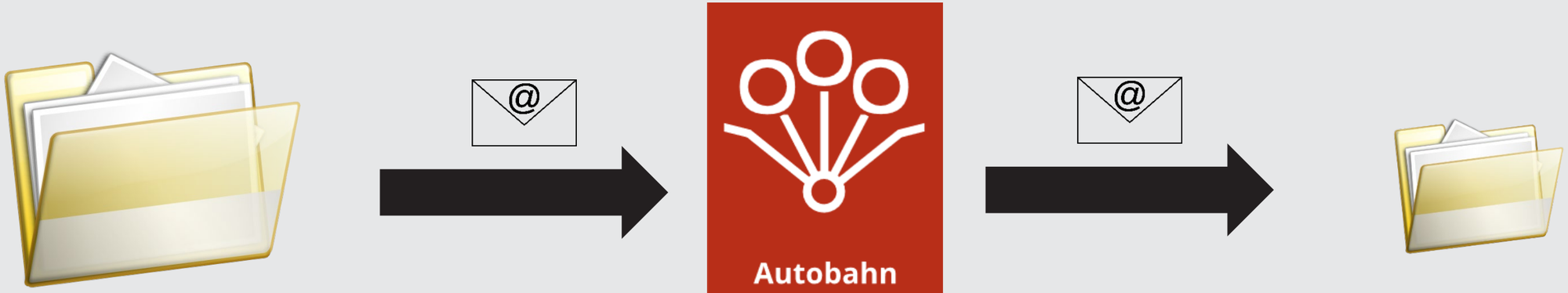
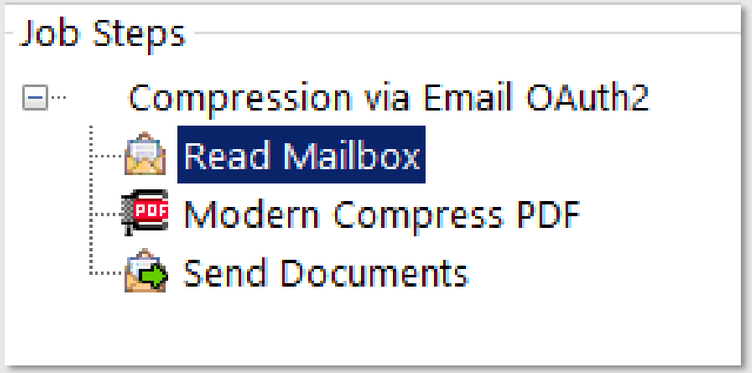
Autobahn – Compress via Email



Employee emails uncompressed file

Autobahn emails compressed file back to sender



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Thank you

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