

# Process Automation Solutions: AI-powered document processing and SAP Business Workflow



ASUG



PROCESS  
AUTOMATION  
SOLUTIONS

# Company Profile

*We engineer a sustainable future through consulting, automation, and digitalization.*

FOUNDED

**1986**

EMPLOYEES

**1,400+**

REVENUE CAD

**400M+**

KEY INDUSTRIES



PHARMA &  
BIOTECH



CHEMICAL



FOOD &  
BEVERAGE



OIL & GAS

**61**

OFFICES

**14**

COUNTRIES

**3,340**

EXECUTED  
PROJECTS/YEAR

**1.65 M**

HOURS  
OPERATED/YEAR

SERVICE PORTFOLIO

- ◇ **Process Optimization**
- ◇ **Engineering**
- ◇ **Execution**
- ◇ **Digital Solutions**

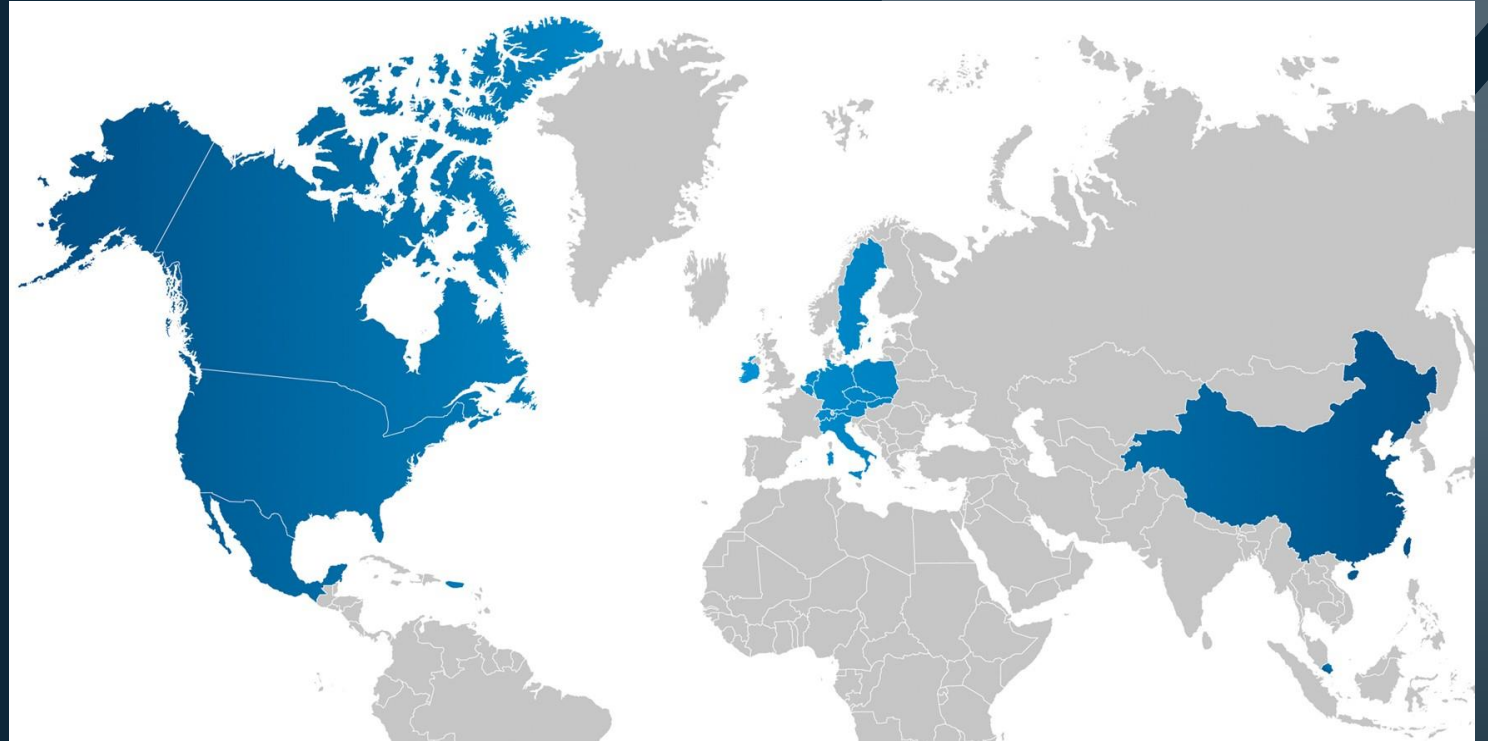


# PA Solutions: A Global Footprint

## Local & Global



*PA employees are located worldwide with team members spread across North America, allowing us the unique capability to take on projects anywhere, any time.*



### AMERICAS

- ◇ Canada
- ◇ Puerto Rico
- ◇ USA

### EUROPE

- ◇ Austria
- ◇ Belgium
- ◇ Czech Republic
- ◇ Germany
- ◇ Ireland
- ◇ Italy
- ◇ The Netherlands
- ◇ Poland

### ASIA

- ◇ Slovakia
- ◇ Sweden
- ◇ Switzerland
- ◇ China
- ◇ Singapore



## Automation



1100+ Employees  
Automation



Planning &  
Engineering

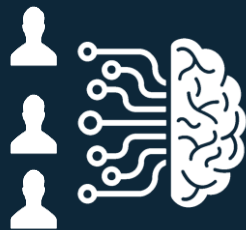


Production  
Automation



Implementation  
& After Sales

## Digitalization



220+ Employees  
Digitalization



Platform  
From Field to Cloud



Industrial  
Data Analytics



SAP ERP  
Integration



## Our SAP Portfolio

We offer you system support with basis and migration know-how in SAP ERP or S/4HANA, project experience and best practices in SAP processes, transparency in processes and key figures, and our own products for your specific requirements.



### Advanced Services

- Over 20 years of SAP consulting and integrations experience
- SAP Gold Partner



### Hosting & Cloud Systems

- System Support
- Advanced Steps to S/4
- Basis and migration know-how



### Advanced Intelligence

- SAP Analytics Cloud
- Jedox
- BI Ready to Run



### Advanced Products

- Product portfolio
- Partner product portfolio
- Products for specific requirements

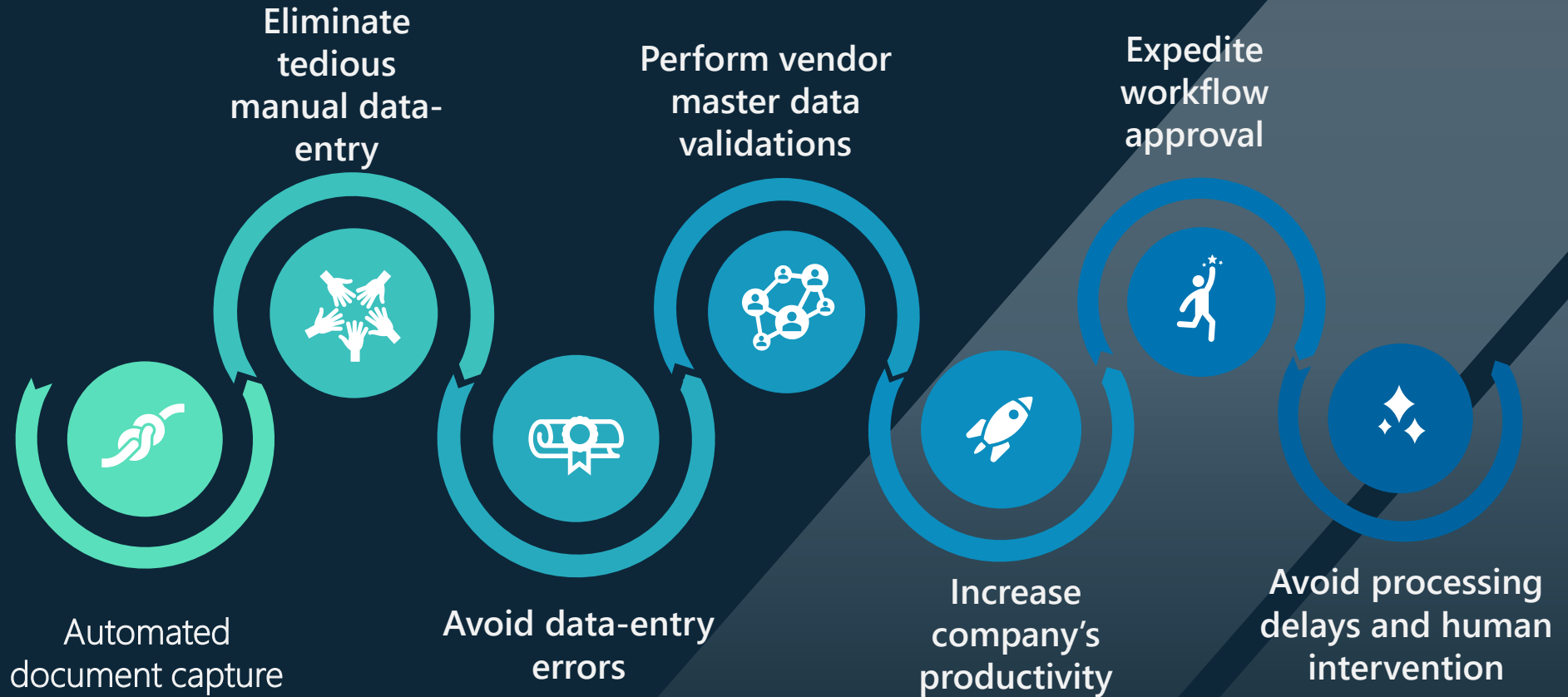


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# Advanced Input Management



# Advanced Input Management with AI Based Document Processing







## AIM Key Required Functionalities

An **end-to-end Workflow Solution with Monitor and Document Log**



**Fully embedded in SAP GUI and Fiori**



**High physical security**  
All services hosted on high availability  
Hyperscaler infrastructure



**Document Automation, Monitoring and Notifications**

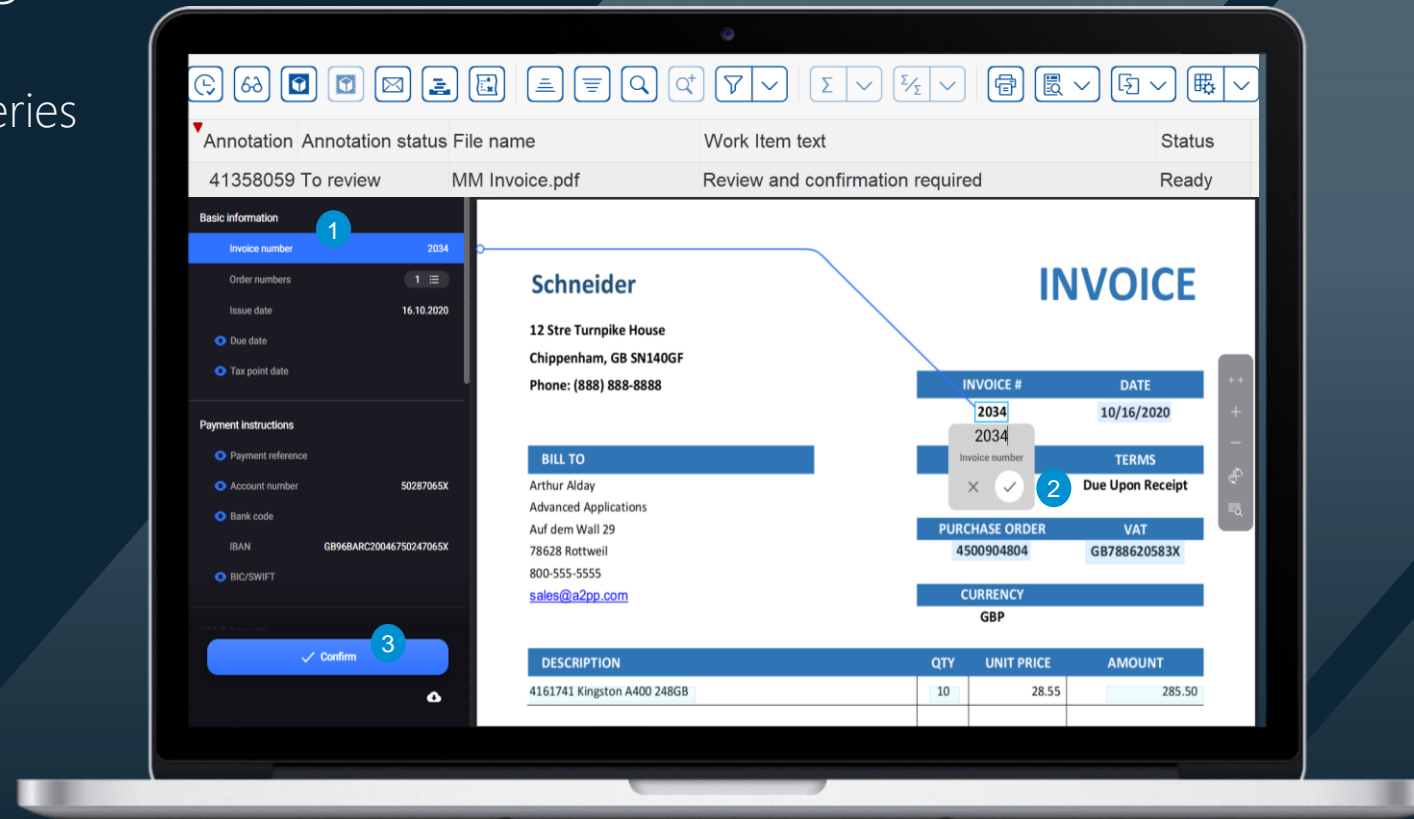


**Extract Validation with Data Matching**



**Superior AI Recognition & Dedicated Engine for** Complex scenarios & Dynamical Queue design

- Capture Inbound Documents through E-mail or Scan  
Invoice/Order Confirmation/Sales Orders/Deliveries
- AI-Based Extraction Data
- Data Validation
- Review, Approve & Process





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## AIM Evolution

**2013**  
Bi-Directional Integration  
with ELO Office



**2017**  
Bi-Directional  
Integration with Easy  
DMS



**2020**  
Integration with SAP Document  
Extraction Service



**2020**  
SAP ERP/S4H  
Integration with AI  
Engine (Rossum AI)  
Invoice Solution



**2019**  
Integration with SAP  
Document Center

**2022**  
SAP ERP/S4H  
Integration with AI  
Engine (Rossum AI)  
Other Documents &  
Workflow



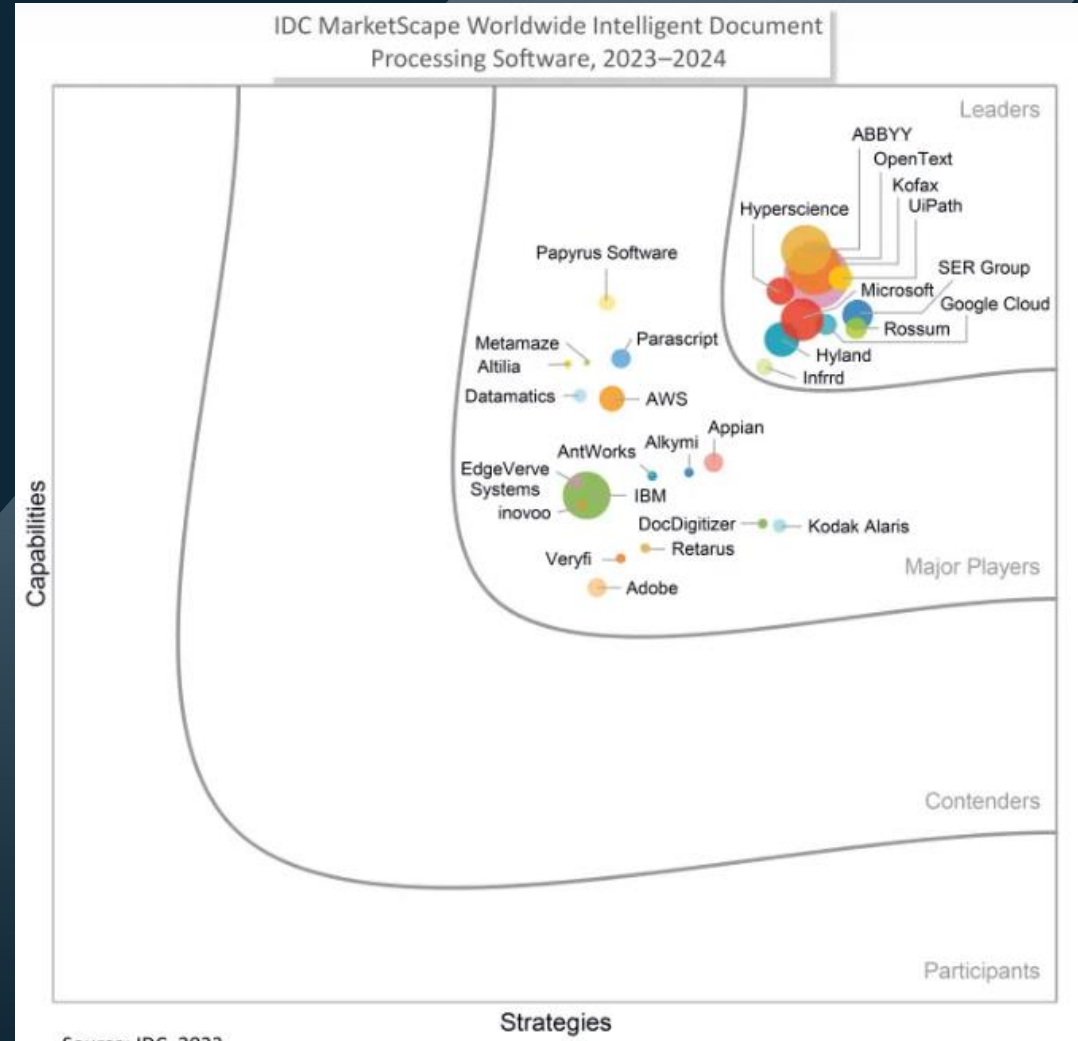
# Winner ROSSUM

- » Best in Class UI
- » Best in Class Recognition
- » Stable & Mature API
- » Data Matching
- » Enterprise Ready
- » Support
- » Dedicated & Generic Engines



### Document Information Extraction

Use machine learning to automate your document information extraction processes.



← Queue settings

- Basic settings
- Fields to capture**
- Emails

Time to choose what info you want from these documents. You can go with our ready-made list, or get creative and make your own fields.

Back 4 of 9 Next

Order Number	Purchase order identification.	Edit	Trash
Issue Date	Date of issue of the document.	Edit	Trash
Document Type	Possible values: credit_note, debit_note, tax_invoice (most typical), proforma, receipt, delivery_note or other.	Edit	Trash
Document Language	The language which the document was written in. Possible values: ces, deu, eng, fra, slk or other.	Edit	Trash
Document ID	The ID of the document.	Edit	Trash
Customer ID	The number by which the customer is registered in the system of the supplier.	Edit	Trash
Due Date	The due date of the invoice.	Edit	Trash
Tax Point Date	The date of taxable event.	Edit	Trash
Vendor Order ID	[BETA] Internal order ID in the suppliers system.	Edit	Trash
Delivery Note ID	[BETA] Delivery note ID defined on the invoice.	Edit	Trash
Place of Supply	[BETA] Place of supply (the name of the city or state where the goods will be supplied).	Edit	Trash

Automation

Access

Next, choose your level of automation. We recommend the "Confident" setting - this mode sends documents that are a sure thing (no questions asked) straight to your system. But if there's any doubt, we'll give you a nudge for a human to double-check.

Back 5 of 9 Next

### Document automation

Select the level of document automation that works best for you in your current situation. [Read more](#)

- Confident** Recommended  
When Rossum has confidently captured key fields from a document, it will be automated. Other documents will be presented for human review. You can customize the degree of automation by setting a confidence score threshold.
- Always**  
Use the "Always" setting if you want to automatically export all documents.
- Never**  
Enforces human review for every document processed by Rossum's AI.

# AIM - Queue Processing & Monitoring (within Rossum)

To review **8**
 Exported
  Postponed **22**
 Deleted
  Info
 
 Emails

<input type="checkbox"/>	Status	Document name	Received at	Exported at	Exported by
<input type="checkbox"/>	Exported	2D93369B25231EEEE3D977852948069A.PDF	04:27 PM	04:27 PM	-
<input type="checkbox"/>	Exported	2D93369B25231EEEE3D97049DE3EE55D.PDF	04:25 PM	04:25 PM	-
<input type="checkbox"/>	Exported	2D93369B25231EEEE3D967D204284366.PDF	04:23 PM	04:23 PM	-
<input type="checkbox"/>	Exported	2D93369B25231EDEA3BF9DC5EC6C22D7.PDF	yesterday	04:23 PM	dzelenjuk@
<input type="checkbox"/>	Exported	2D93369B25231EEEE3D9677E21604355.PDF	04:23 PM	04:23 PM	-
<input type="checkbox"/>	Exported	2D93369B25231EDEA3D9061DD7D98AF0.PDF	04:01 PM	04:02 PM	-
<input type="checkbox"/>	Exported	2D93369B25231EEEE3D7F31D16C2D2FB.PDF	03:00 PM	03:00 PM	-
<input type="checkbox"/>	Exported	2D93369B25231EEEE3D7DE71C46C2CF1.PDF	02:55 PM	02:55 PM	-

## AIM End-to-end Workflow

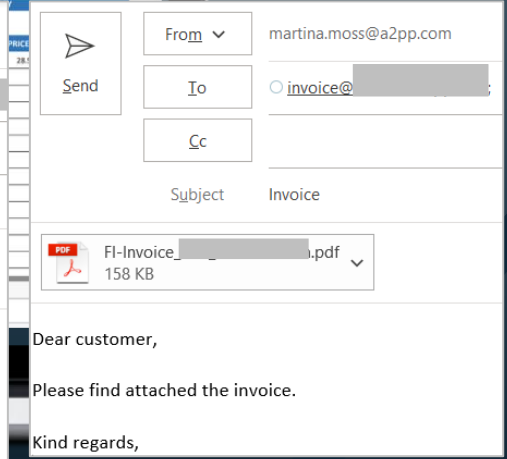
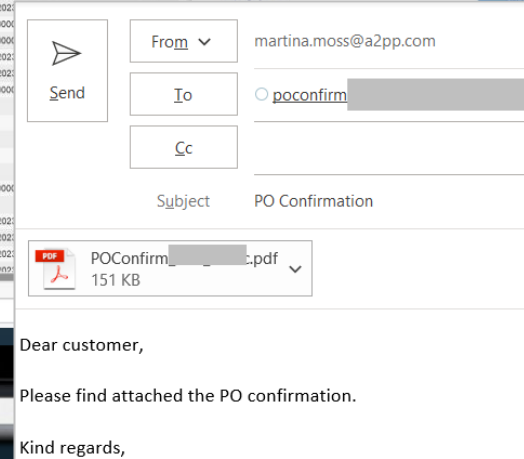
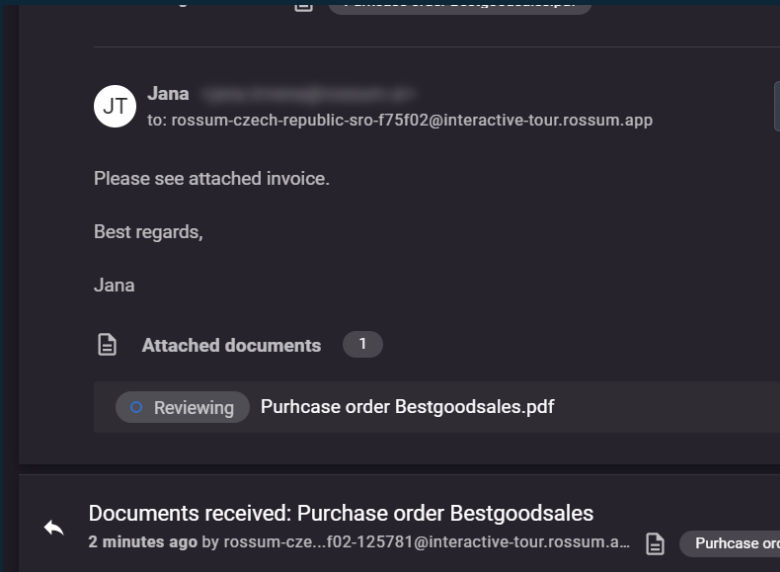
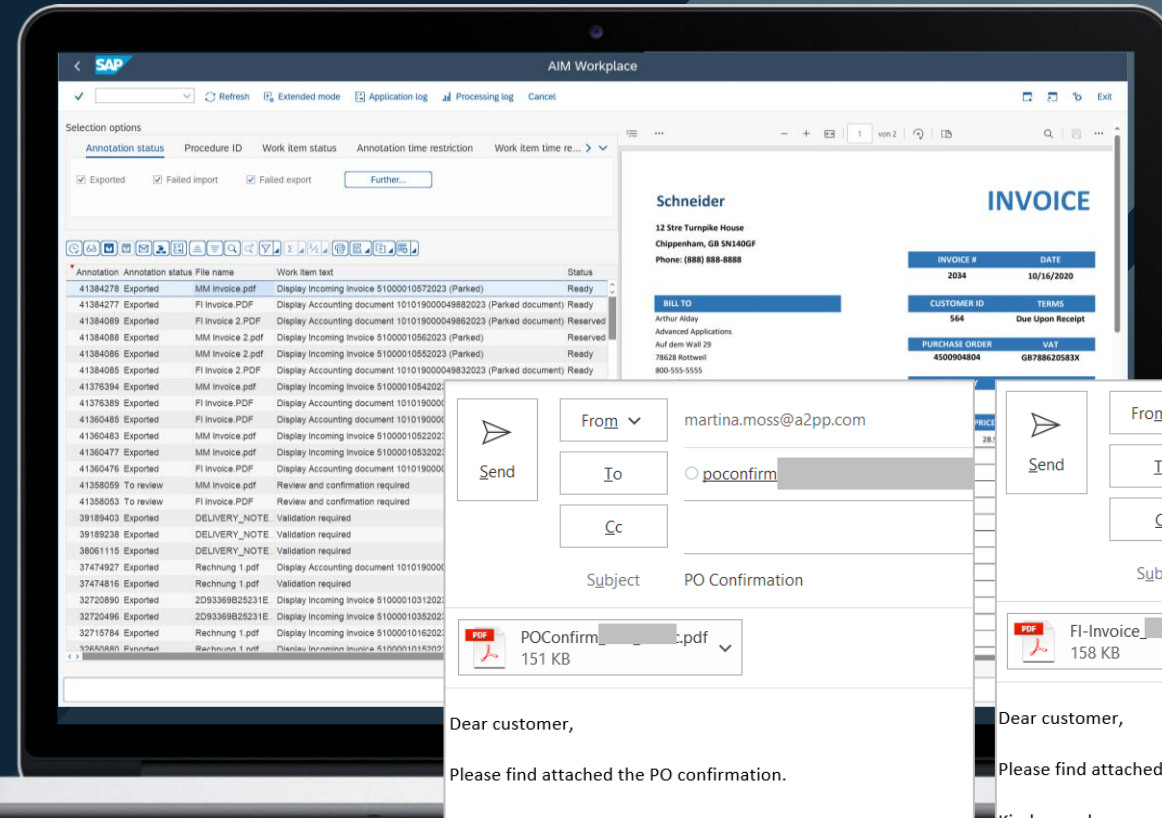


- AIM Workflow is a part of Advanced Workflow Framework that offers end to end solution within SAP Core Modules
- Standalone within Rossum



# AIM - End-to-End Workflow Example E-mail

- Send an E-Mail with an attached scanned **invoice** or **PO confirmation** in **PDF format** to a **defined E-Mail address**.
- SAP will receive and process the E-Mail.
- User will see **assigned documents** in the AIM Workplace.





# AIM - End-to-End Workflow Example Approval

- Workflow with **Approval and posting** can be started in Rossum or SAP Directly

Vendor Name	Issue Date	Total Amount	Internal Notes
Buchty & Buchtičky s.r.o.	4.1.2022	1 045 383.35	-

ISSUE DATE	ISSUE DATE
Russia	4.1.2022
Due Date	28.2.2022
Customer ID	5690887

Delivery to:  
Kurtky&Kurtki  
65/8 Litva Gavri

- Workflow has been initiated 2 minutes ago
  - Workflow step Approval Workflow (>10 000) - Step 1 started 21 minutes ago
  - Workflow has been initiated 21 minutes ago
  - Workflow step Approval Workflow (>10 000) - Step 2 started 3 months ago
  - Workflow step Approval Workflow (>10 000) - Step 1 completed 3 months ago
- Approved: Approval Workflow (>10 000) - Step 1 (Approval Workflow (>10 000))  
3 months ago

**SAP** Decision Step in Workflow

Validation required

Choose one of the following alternatives:

- Display extracted data
- Send the document for review
- Cancel and keep work item in inbox

Description

Here are the messages that occurred during the data validation process:

Start of data validation process: annotation - 41358059, work item id - 00000143124

Failed to get vendor using sender VAT number DE689374268

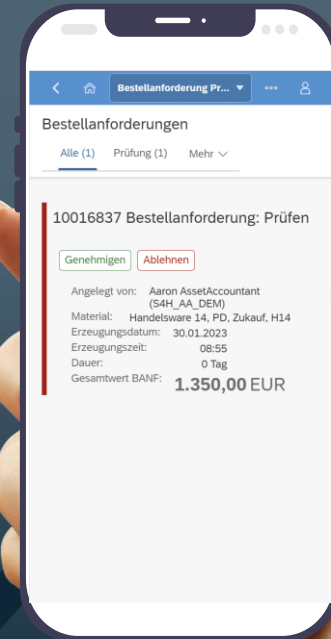
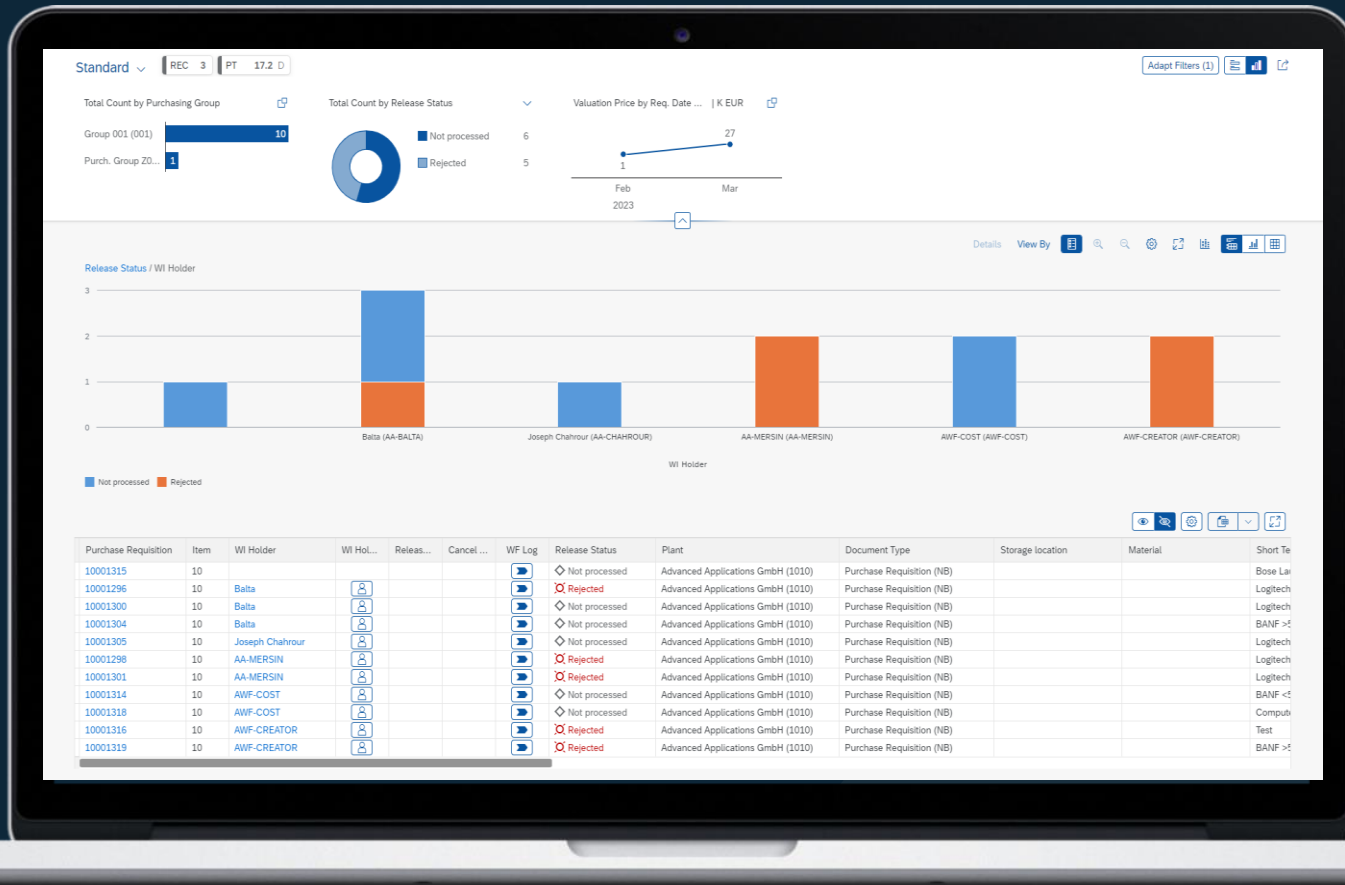
Objects and attachments

- Application log: Process annotation.41358059.log HzHRD8d(7)
- Annotation: 41358059
- ArchiveLink image: ZC47D45B3489FE1EDE9BC98A1357669A38

**SAP** Business Workplace of Zelenjuk Denis

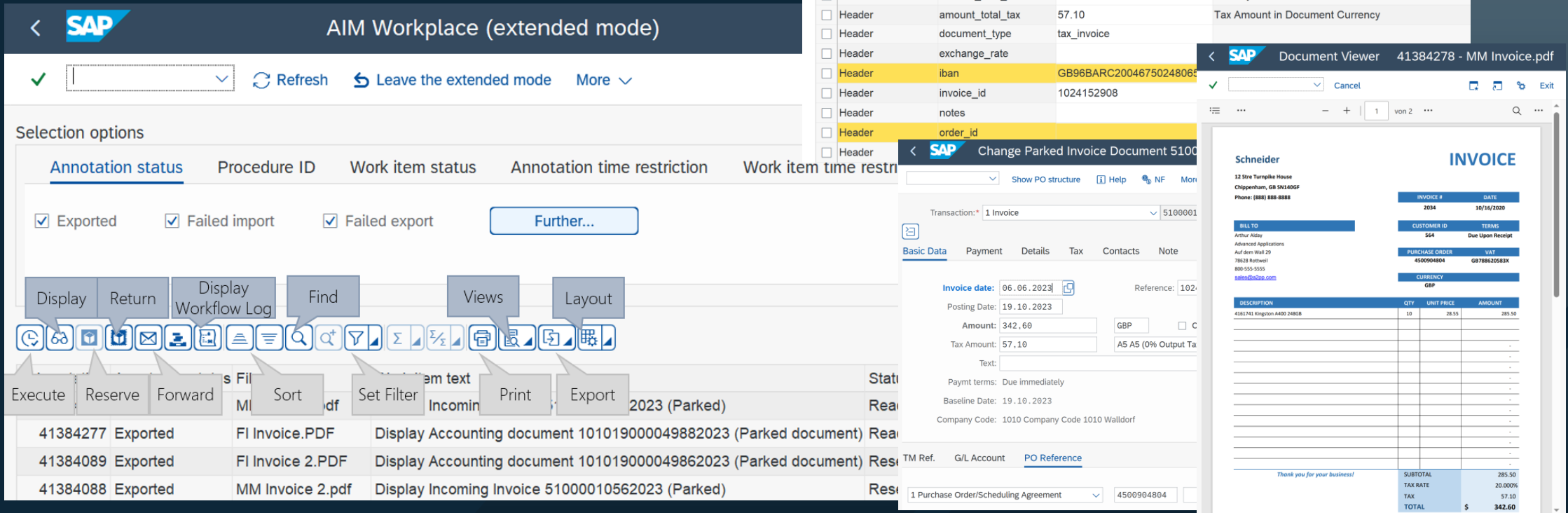
Review AIM document

Title	Status	Creation Date	Creation Time	I Atta... Con... Wor... Exe...	Work Item
Review and confirmation required	🔄	29.11.2023	12:06:05	5	199
Review and confirmation required	🔄	16.05.2023	10:52:43	5	159
Review and confirmation required	🔄	24.04.2023	14:31:01	5	156



# AIM - Queue Processing & Monitoring (within SAP)

- The AIM Workplace is a Workflow Inbox. It is a central transaction to process incoming documents (e.g. vendor invoices and PO confirmations).
- Each incoming PDF gets an annotation ID.
- The processing status can be viewed at any time.



**AIM Workplace (extended mode)**

Refresh Leave the extended mode More

**Selection options**

Annotation status Procedure ID Work item status Annotation time restriction Work item time restriction

Exported  Failed import  Failed export [Further...](#)

Display Return Display Workflow Log Find Views Layout

Execute Reserve Forward Sort Set Filter Incoming Print Export

ID	Status	Document Name	Description
41384277	Exported	FI Invoice.PDF	Display Accounting document 101019000049882023 (Parked document)
41384089	Exported	FI Invoice 2.PDF	Display Accounting document 101019000049862023 (Parked document)
41384088	Exported	MM Invoice 2.pdf	Display Incoming Invoice 51000010562023 (Parked)

**Extracted data**

Document section	Field Name	Field value	Short Description
Validated_header	BUKRS	1010	Company Code
Validated_header	LIFNR		Account Number of Vendor or Creditor
Validated_header	REPCOUNTRY		
Validated_header	SAP_OBJECT	BKPF	
Validated_header	VENDOR_VAT_ID		
Header	account_num	50247065	Bank account number
Header	amount_due	342.60	Amount in document currency
Header	amount_total_base	285.50	Net Payment Amount
Header	amount_total_tax	57.10	Tax Amount in Document Currency
Header	document_type	tax_invoice	
Header	exchange_rate		
Header	iban	GB96BARC20046750248065	
Header	invoice_id	1024152908	
Header	notes		
Header	order_id		

**Document Viewer** 41384278 - MM Invoice.pdf

Cancel

**Schneider**

12 Stee Turnpike House  
Chippenham, GB SN140GF  
Phone: (888) 888-8888

**INVOICE**

INVOICE # DATE  
2034 10/16/2020

BILL TO CUSTOMER ID TERMS  
Arthur Alday 564 Due Upon Receipt

PURCHASE ORDER VAT  
4500904804 GB78862058X

DESCRIPTION	QTY	UNIT PRICE	AMOUNT
4161741 Kingston A400 248GB	10	28.55	285.50

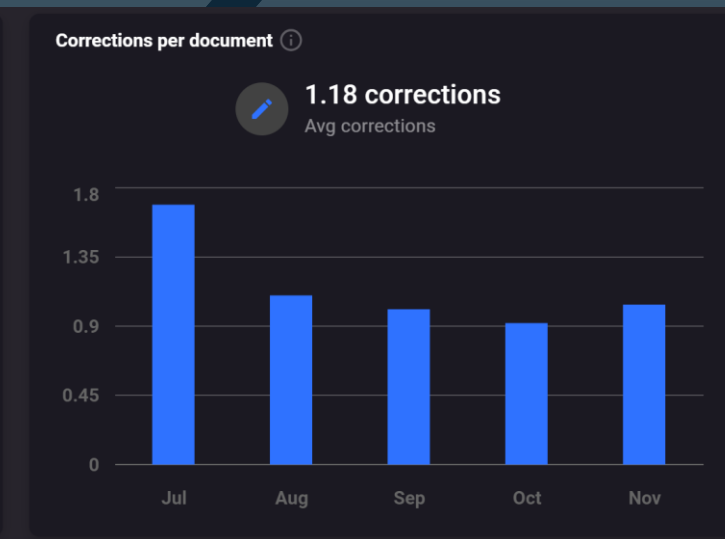
Paym terms: Due immediately  
Baseline Date: 19.10.2023  
Company Code: 1010 Company Code 1010 Walldorf

1 Purchase Order/Scheduling Agreement 4500904804

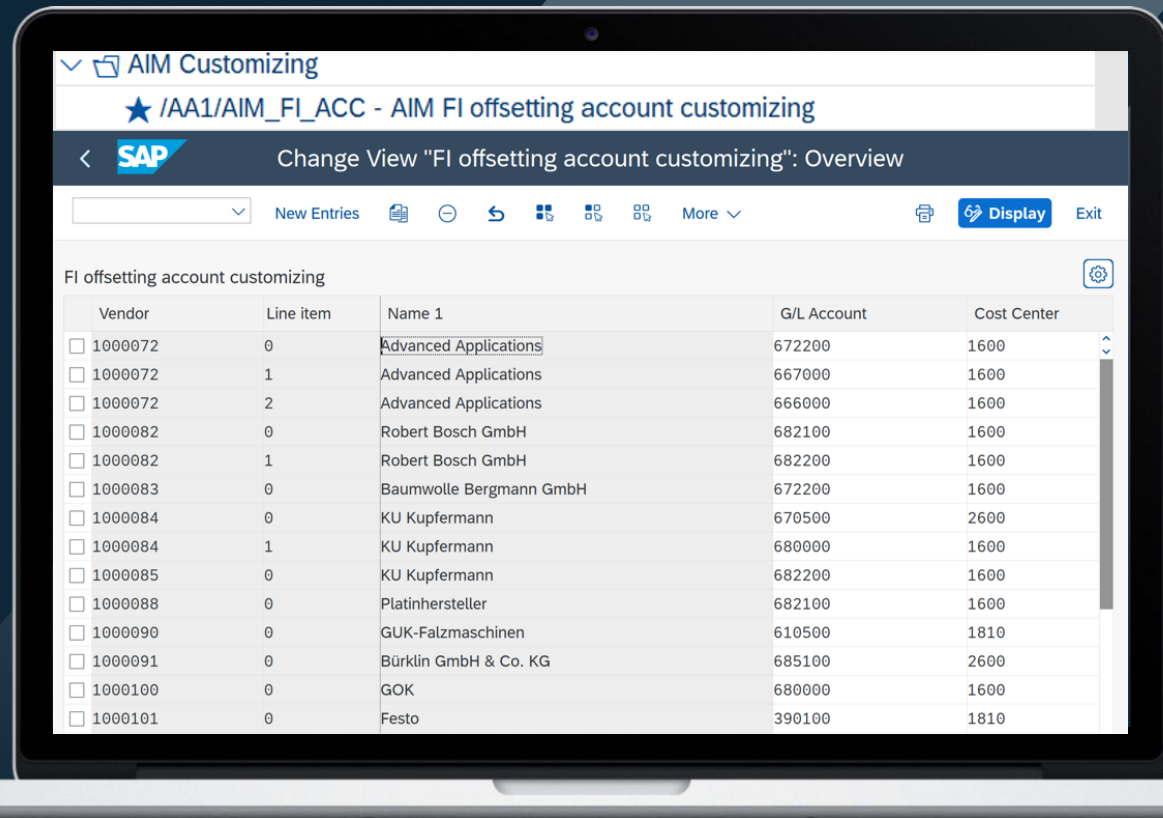
Thank you for your business!

SUBTOTAL 285.50  
TAX RATE 20.000%  
TAX 57.10  
TOTAL \$ 342.60

- Get dedicated Engine for Complex Extractions:
  - Multicurrency, Exchange Rate
  - Material Revision
  - Payment Terms
- Monitor Progress and Performance



- Flexible AI based learning for account determination
- Default Value Settings with transfer to Rossum AI:
- Use **vendor-specific defaults** for offsetting account or cost center for FI invoices
- Or use **vendor's n... last invoice posted** to determine offsetting account and cost center



The screenshot displays the SAP AIM Customizing interface for FI offsetting account customizing. The title bar shows 'AIM Customizing' and the specific configuration path '/AA1/AIM\_FI\_ACC - AIM FI offsetting account customizing'. The main content area is titled 'FI offsetting account customizing' and contains a table with the following columns: Vendor, Line item, Name 1, G/L Account, and Cost Center. The table lists various vendors and their corresponding line items, names, G/L accounts, and cost centers.

Vendor	Line item	Name 1	G/L Account	Cost Center
<input type="checkbox"/> 1000072	0	Advanced Applications	672200	1600
<input type="checkbox"/> 1000072	1	Advanced Applications	667000	1600
<input type="checkbox"/> 1000072	2	Advanced Applications	666000	1600
<input type="checkbox"/> 1000082	0	Robert Bosch GmbH	682100	1600
<input type="checkbox"/> 1000082	1	Robert Bosch GmbH	682200	1600
<input type="checkbox"/> 1000083	0	Baumwolle Bergmann GmbH	672200	1600
<input type="checkbox"/> 1000084	0	KU Kupfermann	670500	2600
<input type="checkbox"/> 1000084	1	KU Kupfermann	680000	1600
<input type="checkbox"/> 1000085	0	KU Kupfermann	682200	1600
<input type="checkbox"/> 1000088	0	Platinhersteller	682100	1600
<input type="checkbox"/> 1000090	0	GUK-Falzmaschinen	610500	1810
<input type="checkbox"/> 1000091	0	Bürklin GmbH & Co. KG	685100	2600
<input type="checkbox"/> 1000100	0	GOK	680000	1600
<input type="checkbox"/> 1000101	0	Festo	390100	1810



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*AIM - SAP*

- SAP Demo



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# Implementation Advanced Input Management

# AIM Project Phases



Analyze AS-IS  
Process

Collect &  
Analyze the  
current  
documents

Define Org.  
Structure

Determine  
Performance  
KPI

Identify  
Dependencies  
and Risks

Define Scope

Set Up SAP  
Users & Access

Prepare E-mail  
Integration

Set up AIM  
Queues &  
Models

Prepare and  
Import SAP  
Transports

Set Up first  
Demo

Determine  
Possible GAPS

Prepare  
Dedicated  
Engine  
(Optional)

Execute Demo  
with SME &  
Business Users

Define new  
Workflow Limits  
or Steps (if  
needed)

Implement  
GAPS  
/Validation  
Rules

Train the Users

Document  
Solution

Train Engine  
(Optional)

Complete Org  
Structure

Implement SAP  
Roles

Import  
Transport in  
Production

Create  
Connections

Import  
Certificates

Inform Users

Provide Training  
Material

Monitor  
Performance

Process  
Compliance

Implement  
Continues  
Improvements

Plan further  
Roll-Outs





- » SAP Configuration
  - Delivery of SAP Objects per Transport
  - Delivery of SAP Template Roles for Configuration and Testing
  - Config Guide & Documentation



- » AI Configuration
  - Set up Queues and Users per queue
  - Activate required Layout
  - Optional: Set Up Dedicated Engine and Custom Field Extractions



- » Optional: Local Infrastructure
  - E-mail Box & SAP Integration
  - Local Gateway for Outbound Communication

### » Business Challenges

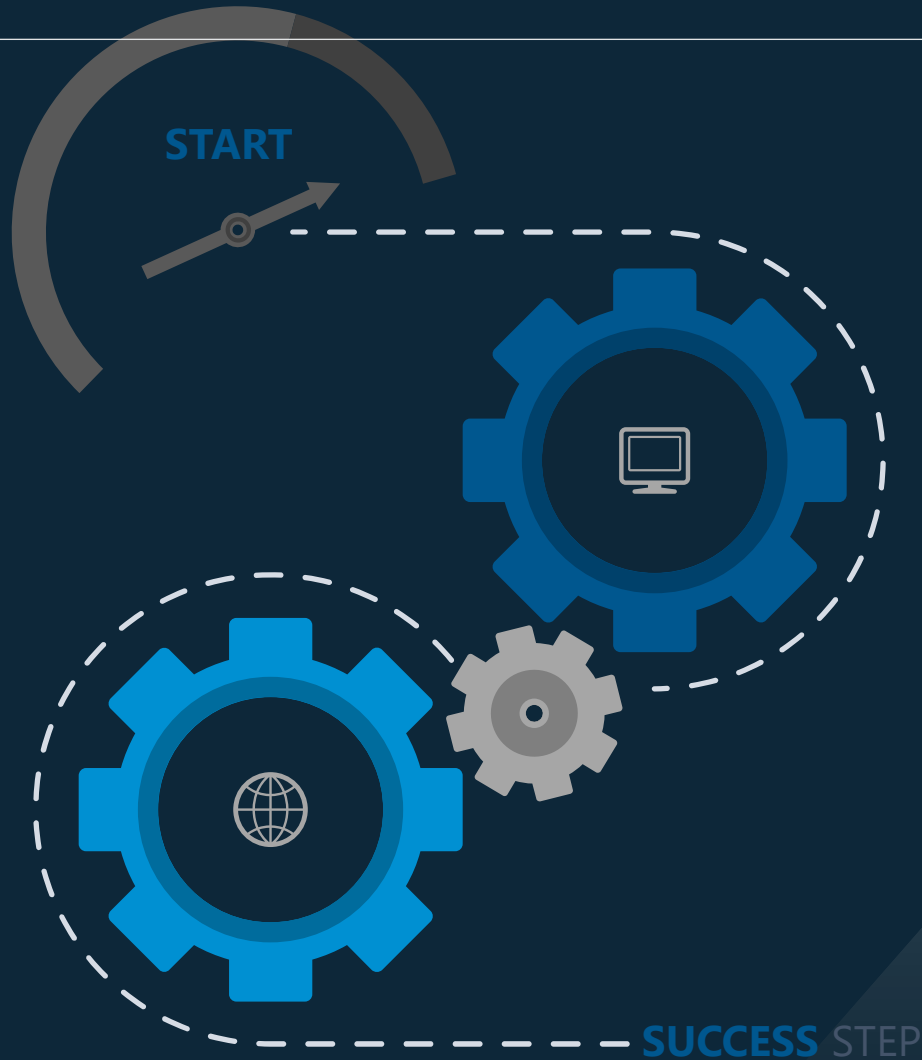
- Incomplete master data  
Quality/Duplicates of Vendor Master Data,  
Payment Term, Bank Information
- Lack of consistent Approval Process  
Every department processes the approvals  
differently
- Change Management Commitment
- SME empowerment and decision  
making

### » Technical Challenges

- Infrastructure & Network  
Set up new E-mail for invoices, Connectivity with SAP
- AI can learn in wrong way too
- Set Up SAP Org. Structure
- Change Management Process

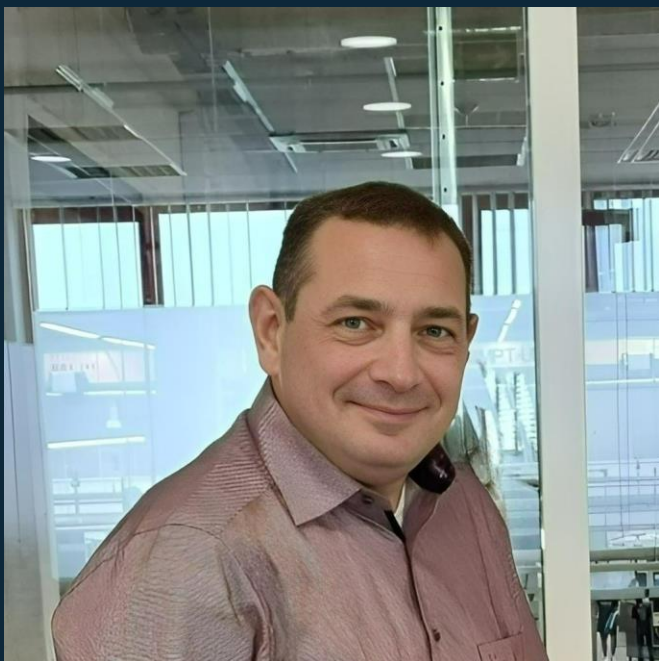
- » Think Big - Start Small
- » Involve the right team from the start
- » Define Clear Validation Rules
- » Reduce Exceptions
- » Manage Post-processing Expectations

## AIM Our Offering




- 01 Simple quarterly subscription model with a 30-Day production risk-free trial period
- 02 Fix Price installation, configuration and activation fee starting at 5,000 USD
- 03 Full support & key user training during trial period
- 04 Start document processing in SAP for as low as 500 USD per month\*

Document/Month	Price/Document
<2,000	0,35 USD
<5,000	0,30 USD
≥5,000	On request



Thank You!

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& Application Development

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*We engineer a sustainable future through automation, and digitalization*

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