

SAP BTP Webinar

Boost Operational Efficiency with SAP AI Business Services – A focus on Document Information Extraction



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Innovative Technologies Support Business Resilience



Essential AI Capabilities Future-Proof the Business



The Future of Intelligent Enterprises Demands AI Capabilities

By embracing these key technologies . . .



Artificial intelligence



Machine learning



Robotic process automation

... SAP helps intelligent enterprises benefit from these capabilities:

Analysis

Optimization

Recommendations

Automation

Data extraction

Realize Rapid Value from AI Technologies with SAP AI Business Services



Automate & Optimize Business Processes with SAP AI Business Services



Add intelligence to your applications using AI models pretrained on business-relevant data, available on SAP Business Technology Platform.



Sales Order Auto Completion





Business Challenge

- Incomplete and overdue sales orders due to missing information
- High manual effort needed to retrieve missing information
- Delay in order fulfillment in the order-to-delivery process



Solution

- **Data Attribute Recommendation**
- Feeds incomplete fields as input to service
- Offers the potential to combine with rule-based procedures
- Classifies sales order exceptions for automated processing



Benefits and Value

- Reduced manual efforts for order completion significantly
- Expedited overall sales order processing
- Leveraged extensive cost-saving potential

Learning Recommendations



AVAILABILITY

SAP SFSF Learning Management System, SAP Litmos SAP BTP – Personalized Recommendation Service



Business Challenge

Employees struggle with finding relevant courses

- Overwhelming volume of information that makes it difficult to notice and keep track of useful information
- Lack of effect tools that makes it difficult for the employees to find the most useful information



Solution

Personalized Recommendation

Connects employees with personalized learning beyond traditional course catalogues to fit their learning goals and situation.



Benefits and Value

- Connect employees with personalised learning to fit their learning goals and situation, enabling them to upskill and have personal growth.
- Make better use of vast amounts of relevant and current learning content available
- Talent development to build a better workforce
- Help organizations create a culture of learning

Intelligent lead capturing from business cards





Business Challenge

- Business cards collected at events or conferences need to be entered manually to capture leads
- Business cards typically come in various languages and formats
- Manual lead capturing might lead to errors and increases the processing time



Solution

Document Information Extraction

 Automatically extracts structured information from unstructured documents such as business cards

Business Entity Recognition

 Extract contact-relevant information via pre-trained business card model



Benefits and Value

- Reducing the manual work
- Speeding up the overall process
- Reducing extraction errors
- Focusing on value-creative tasks
- Immediately productive via pre-trained models

62% of accounts payable costs come from labor.

Source: APQC, 2015 "AP Process Cost Per Invoice Processed"



Document Information Extraction

Intelligent document processing with SAP

\$10.89

average cost per invoice - Ardent Partners



Document Information Extraction

Extract information with pretrained models for various document types and languages

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Enrich the extracted information with your master data through automated matching

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Extend the existing models with your own templates to process additional document types

"SAP captured and converted new invoices we supplied for the demo much more accurately than others, indicating superior expertise." IDC

"At Aspen Pumps, the Document Information Extraction service from SAP helps us to achieve ~90% of extraction accuracy for supplier invoices out of the box, laying a great foundation for much faster execution of Accounts Payable processes. It helps to save up to 350 hours monthly in invoice processing, so approximately £5000 per month." Aspen Pumps | Jon Curlis

Transform unstructured documents into structured information for instant value.



Accuracy

Achieve more accurate results than classical systems



Automation

Increase efficiency and enable teams to focus on strategic tasks



Cost

Reduce processing costs and leverage advantages in follow-up processes

Problem: Large Amounts of Incoming business documents



		-
Company		Enrichment
Supplier ID		nappens nanually
Invoice N°	123456	
Amount	3684.00	
Currency	USD	
Date	2013-11-01	
Position 1	Amount: 1400 Unit: PC Amount: 1684.00 Description: Apples	S
Position 2	Amount: 120 Unit: KG Amount: 2000.00 Description: Nuts	





John, spends much time on searching and matching the right information



John,

AP-Clerk

Solution: Document Information Extraction



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John, Can now do more value creating tasks



Scenario 2 – Enterprise Mail-Inbox



BUSINESS PROBLEM

- Large amount of business documents attached to emails coming from customers and partners
- Process is often slow, manual and error-prone speed and quality of processing suffer

SOLUTION

Document Classification:

Classification of incoming documents

Document Information Extraction:

- Extraction of all relevant information automatically from the document
- Enrichment of the extracted information with additional information

BENEFITS

- Minimization of repetitive
 tasks
- Focusing on value-creative tasks
- Faster and more accurate responses to the customer
- Less time bottlenecks in processing documents

SAP SOLUTIONS IN THIS USE CASE:

Scenario 3 – Shared Service Center



USE CASE:

SAP Intelligent Robotic Process Automation

Document Information Extraction

Business use cases





Document Information Extraction

Integration Architecture



"At Aspen Pumps, the Document Information Extraction service from SAP helps us to achieve ~90% of extraction accuracy for supplier invoices out of the box, laying a great foundation for much faster execution of **Accounts Payable processes.** It helps to save up to 350 hours monthly in invoice processing, so approximately £5000 per month."



Jon Curtis, Group Business Systems Consultant, Aspen Pumps Group



Aspen Pumps Apex Way, Hailsham, United Kingdom www.aspenpumps.com Industry Industrial Machinery and Components Featured Solutions and Services Document Information Extraction service (DOX), one of SAP AI Business services PUBLIC



Success story - Automate AP Processes

Canadian integrated energy company (2022)



Challenges

Several inefficiencies identified in customer's existing invoice management process, including inflexibility, high IT demands, and a poor invoice identification rate of less than 7%.



Solution and business results

Implementation of SAP Build Process Automation, powered by Document Information Extraction (one of the SAP AI Business Services on SAP BTP)

- 80% invoice recognition and posting rate
- 7,000\$ savings per day

- 20,000+ invoices processed monthly
- 120 hours savings per day

20 FTE workload

• 1,800,000\$ projected savings p.a.

KPIs	Company's lower bound	Company's upper bound	Industry avg. (<u>reference, p.16</u>)
Assumed cost per invoice (Y)	10	15	17.6
Reported saving through SAP Build + DOX (X)	7	7	7
Remaining cost per invoice	3	8	10.6
Anticipated cost reduction (X/Y)	70%	46%	40%





Reduce costs and gain control with Concur Invoice

Products

- Travel
- Expense
- Invoice

Locations

- Americas
- Europe
- Asia-Pacific
- MEA



SAP Concur Invoice consumes Document Information Extraction service and integrates it into its offering, to automate the invoice processing as part of accounts payable.

Document Information Extraction is live with 4.000 Concur customers processing more than 3.5 million invoices per month. Automate and simplify accounts payable accounting with Machine Learning

SAP AI Business Services

Document Information Extraction:

- Data Extraction
- Vendor Matching
- Employee Matching



With Concur Invoice you can reduce your average cost of processing a single invoice by more than 80%. Automate invoice processing while increasing insight and control.

https://www.sap.com/ml

Success story – Invoice Processing Automation



Document Information Extraction improves data extraction results like invoice number and vendor name and as a result frees up AP teams to focus on what matters most.



reduced invoice processing time to just **5 days** Optimizing accuracy and employee productivity leads to faster invoice turnaround times.

With improved accuracy, the Accounts Payable team focused on optimizing their payment strategies and negotiate more favorable terms with existing vendors. This improves employee morale and drives business value.

Document Information Extraction

Key takeaways

Out-of-the-box automation with pretrained models for different document types

Integrated offering available as part of various SAP applications

Focus on **improving the efficiency** of your employees

State of the art technology is used to deliver **best of breed accuracy**



Document Information Extraction

Start today



Ready to Use

- Available under <u>Free Tier</u> option on SAP BTP
- Commercially available via Cloud Platform Enterprise
 Agreement, on SAP Store or as Pay-as-you-go model
- Available as Test Demo & Development for Partners
- Available on following Data Centers: EU10, EU11, JP10, US10, AP10



Natively Available

The service is integrated into variety of SAP standard products that you use already today:

- <u>SAP Concur Invoice Capture</u>
- SAP Central Invoice Management for SAP S/4HANA Cloud
- SAP CashApplication
- SAP Business ByDesign
- SAP S/4HANA Cloud
- SAP Build Process Automation
- ...and many more (see consumption options).









Thank you.

Contact information:

ai@sap.com







www.sap.com/contactsap

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