



# Keep Core Clean powered by SAP AI and SAP Integration Suite

# Crave InfoTech's SAP BTP Success Journey



2007

## INCEPTION

- **Global Beginning:** Crave InfoTech starts its journey in India and the USA.



2008

## SAP PARTNERSHIP

- **Strategic Alliance:** Forges a vital partnership with SAP and ventures into product development.



2014

## GLOBAL EXPANSION

- **Global Player:** Ascends to SAP's global PE-build partner status, expanding across territories.



2015

## ENTERPRISE MOBILITY LEADER

- **Industry Recognition:** Earns acclaim as an Enterprise Mobility Leader.



2023

## BTP ADOPTION

- **Enterprise Trust:** Serves 50+ large enterprise clients, solidifying trust in the industry.
- **H2B Triumphs:** Sets a new standard in H2B (Head to Business) partnerships.



2022

## BTP COMPETENCE

- **BTP Excellence:** Emerges as SAP's top global BTP implementation partner with 350+ experts.



2018

## INDUSTRY EXCELLENCE

- **ACE Achievement:** Secures SAP ACE award.
- **VAR Status:** Attains SAP VAR (PE-Sell) status with 20+ apps on the SAP store.



2016

## INNOVATIVE APPS

- **Global Beginning:** Crave InfoTech starts its journey in India and the USA.



2024

## NEXT VISION

Continues pioneering innovations in the SAP Business Technology Platform (BTP) ecosystem.

# We Are In It For Joint Success!



We are an award-winning SAP PE-build, PE-Sell & PE-Services partner who can successfully implement complete enterprise solutions, minimizing total cost of ownership, with rapid deployment and a lasting impact for efficiency and total audit-ready compliance.

- 15+** Years of providing niche SAP consulting across industries
- 50+** Pre-packaged products for End-to-End process automation
- 50+** Enterprise customers served successfully
- 30** SAP BTP certified Individuals
- 25** SAP BTP initiatives delivered

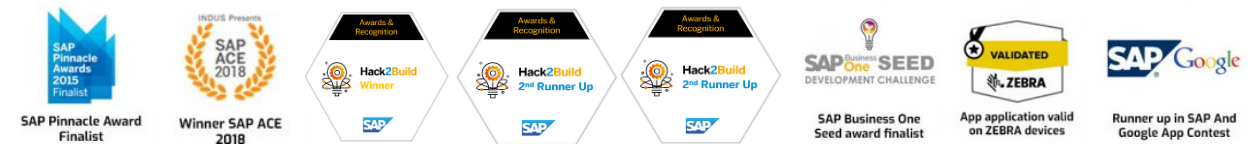
## Partners



## Certifications



## Awards



# Crave is the Right Partner to Embark with You on Your Digital Journey

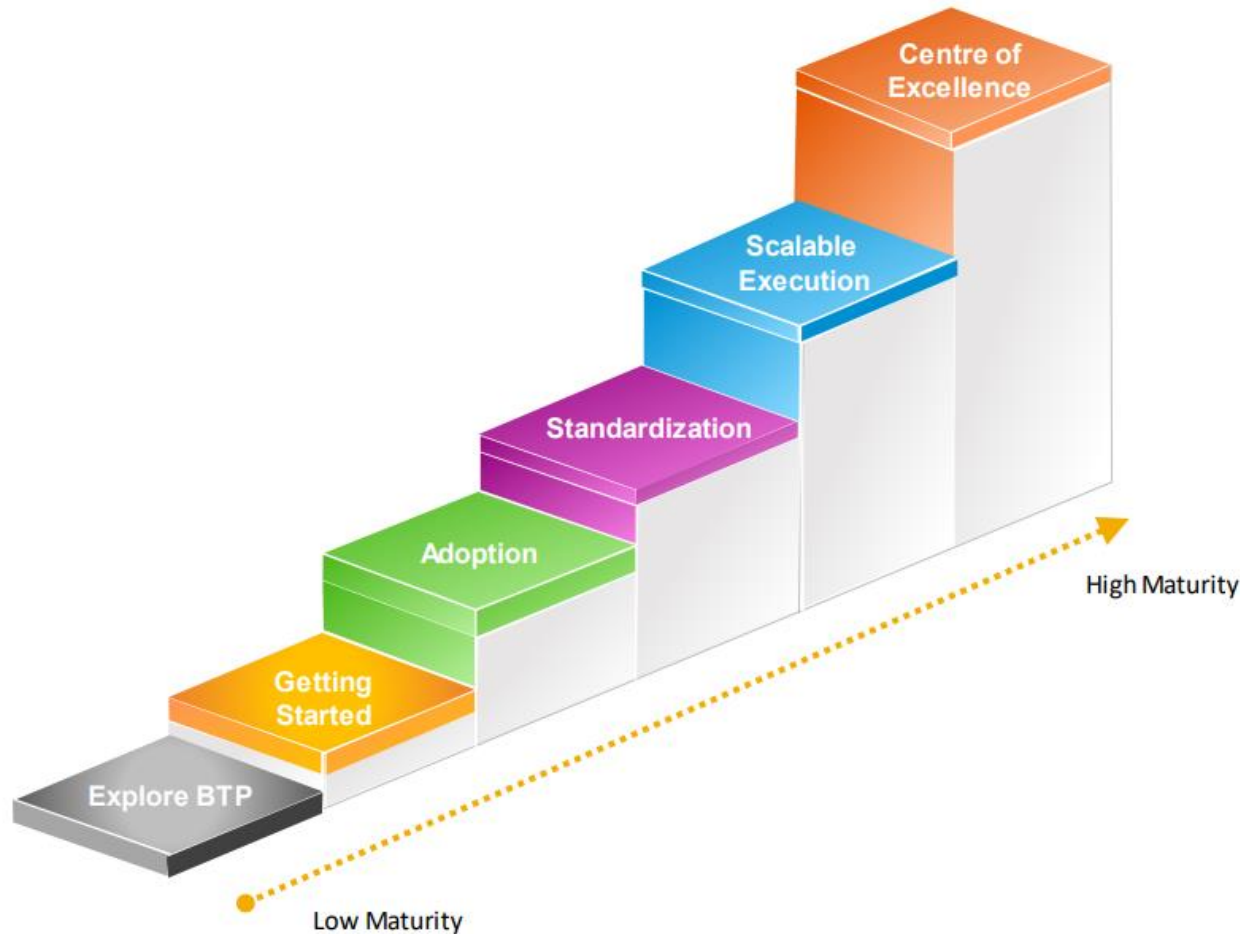


## Our Core Competencies!

ADVISORY SERVICES	E2E PROCESS AUTOMATION	BUSINESS TECHNOLOGY PLATFORM (BTP)	INTELLIGENT ASSET MANAGEMENT	INTELLIGENT WAREHOUSE & SUPPLY CHAIN
<p><b>BTP</b></p> <ul style="list-style-type: none"> <li>• Keep Core Clean Assessment</li> <li>• Future Ready Enterprise (FRE) Assessment</li> <li>• On-prem to Cloud BTP Migration Assessment</li> <li>• BTP Security &amp; Governance Assessment</li> <li>• Dev-Ops set up for BTP</li> <li>• Develop Center of Excellence</li> </ul> <p><b>Digital Supply Chain</b></p> <ul style="list-style-type: none"> <li>• Reactive to Predictive Maintenance Assessment</li> <li>• Warehouse Maturity Assessment</li> </ul>	<p><b>AI and ML</b></p> <ul style="list-style-type: none"> <li>• Freight prediction and approval</li> <li>• Demand Forecasting</li> <li>• Inventory Prediction</li> <li>• Asset predictive analytics</li> </ul> <p><b>Procure to Pay</b></p> <ul style="list-style-type: none"> <li>• Supplier Connect, Invoice verification (3-way match), RFI and RFQ process</li> </ul> <p><b>Order to Cash</b></p> <ul style="list-style-type: none"> <li>• Field Sales Order Process, Proof of Delivery, Credit management,</li> </ul> <p><b>Approvals and Workflows</b></p>	<p><b>AI and ML: Bots, Large Language Networks,</b></p> <p><b>Integration Suite Migration:</b></p> <ul style="list-style-type: none"> <li>• PI and PO and Ariba ITK</li> <li>• Boomi and Mulesoft</li> </ul> <p><b>Data &amp; Analytics:</b></p> <ul style="list-style-type: none"> <li>• BW to Datasphere Migration</li> <li>• HANA Database to HANA Cloud</li> <li>• DI &amp; SAC</li> </ul> <p><b>Automation:</b> Process Automation, Workflow and Work Zone</p> <p><b>App Dev:</b> Extensibility using CAPM and RAP</p> <p>Enterprise Mobility - SAP MDK, SDK, Fiori, UI_UX &amp; Design Thinking</p> <p><b>Security &amp; Governance:</b> SSO, Identity Authentication, Identity Propagation, Identity Governance</p> <p><b>Monitoring:</b> CALM – Cloud Application Life Cycle Management</p>	<ul style="list-style-type: none"> <li>• SAP EAM offerings – SAP PM/SM Implementation, Asset Manager, Work Manager, SAP IAM, &amp; Predictive Maintenance</li> <li>• SAP MRS</li> <li>• SAP FSM</li> <li>• Crave Field Workforce Management apps – Planner Workbench, Maintenance, Calibration &amp; Approvals</li> <li>• Barcode, QR Code and RFID enablement</li> <li>• AI powered Predictive Analytics</li> <li>• Incident Management</li> </ul>	<ul style="list-style-type: none"> <li>• Barcode, QR Code, and RFID enablement</li> <li>• RF devices in Warehouse</li> <li>• ITS Mobile</li> <li>• BTP Powered Mobile App</li> <li>• Voice-enabled order-picking</li> <li>• Smart order picking using Augmented reality</li> <li>• Proof of Delivery</li> <li>• Last Mile Tracking</li> <li>• Truck Latency Management</li> <li>• MRO Warehouse automation</li> <li>• Transport management</li> </ul>



# Future Ready Enterprise Journey Assessment



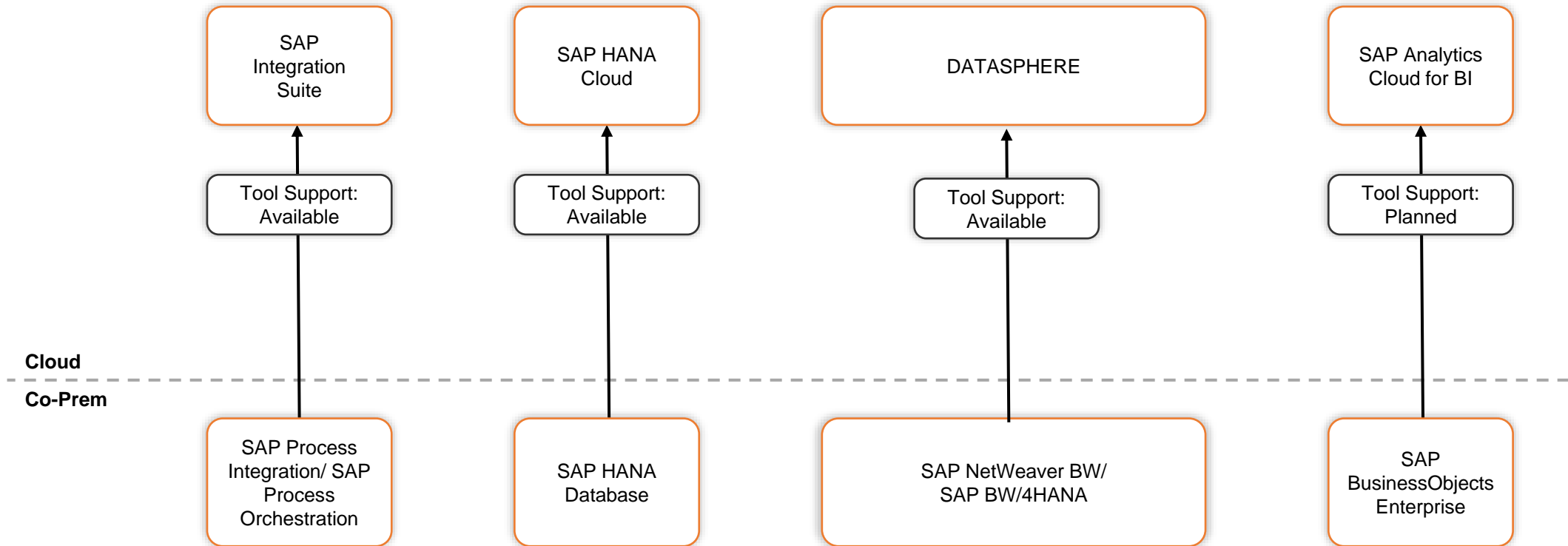
- Future Ready Enterprise readiness assessment
- Persona-based activity alignment
- Help develop BTP roadmap
- Help set up Center Of Excellence
  - BTP Governance
  - BTP COE
  - BTP Security

# SAP On-Premise to Cloud Migration



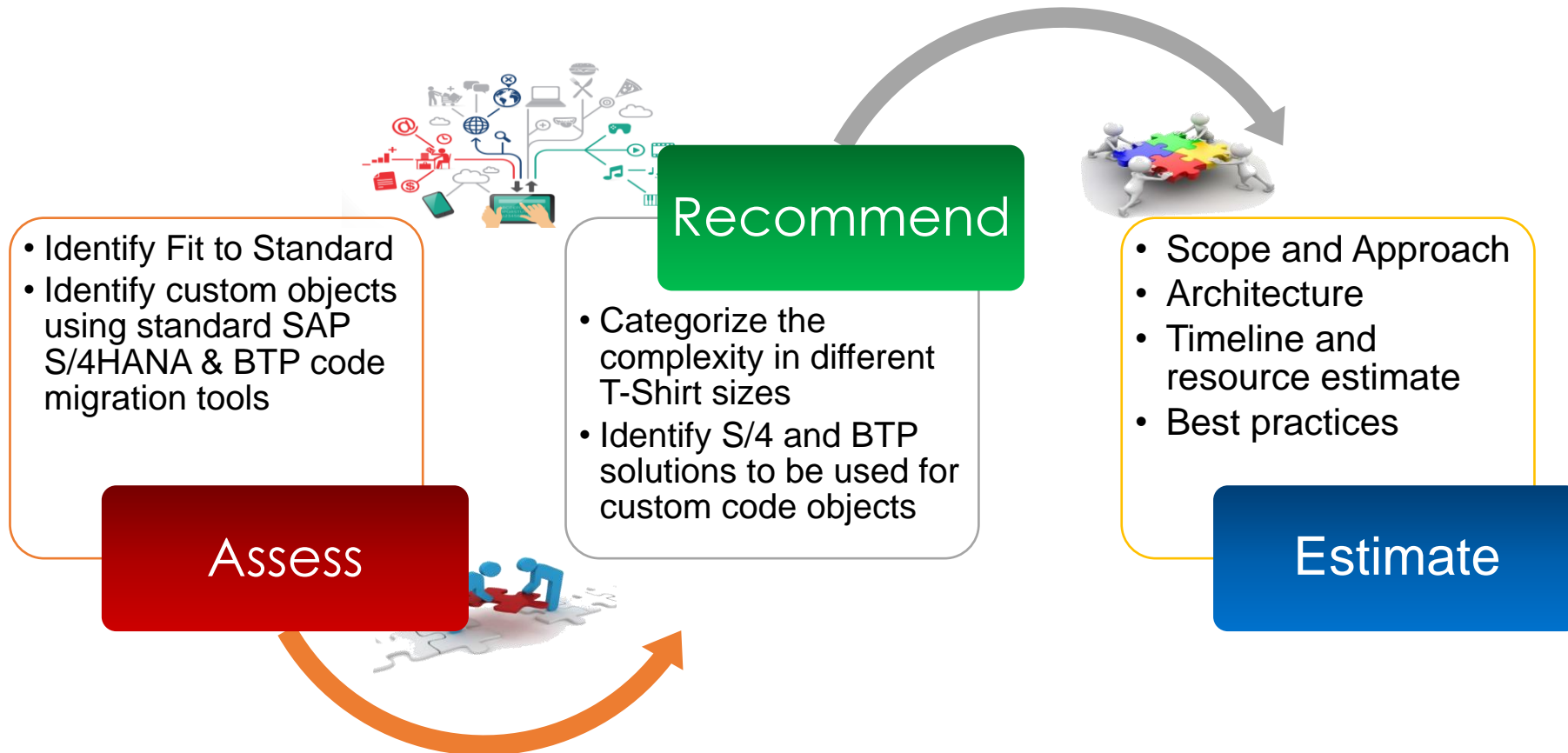
## SAP BTP Customer Evolution

What?

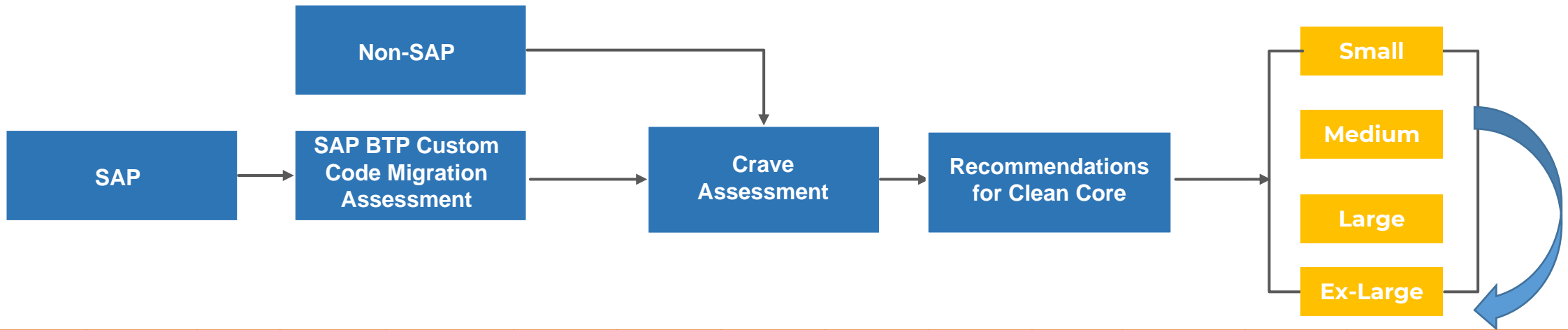


**Cloud architectures are non-compatible with on-premise architecture & full automated migration can't achieved**

# Keep Core Clean for Enhancements and Interfaces



# Keep Core Clean Methodology for Integration

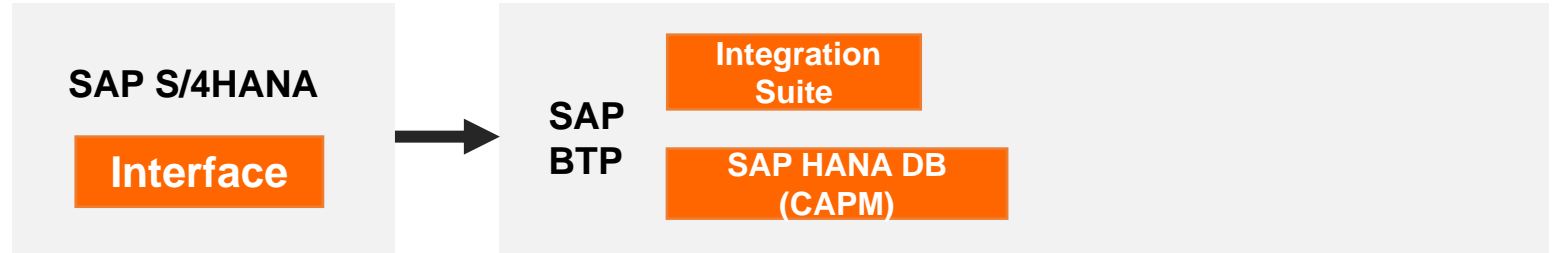
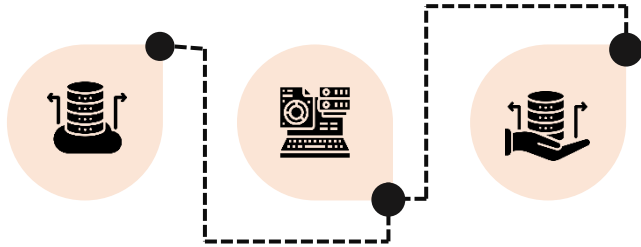


Application	Object Description	Status	Direction	RICEFW	Enhancement Type	Enhancement (/Custom /Standard)	Persistence (Custom/ Standard Table)	Other System	BTP Required	Priority	Code Remediation/Retrofit	Process Flow	Migration Options	Estimate
Sales Force	Tracking Info look up for ASN	BTP	O/B	Interface	API	Custom	New	NA	Yes	1		NA	Integration Suite	High
E2Open	IDOC data : Invoice Info.	BTP	O/B	Interface	IDOC	Standard	Standard	NA	Yes	1		NA	Integration Suite	High
EDI-820	Customer - ACH CITI bank	BTP	O/B	Interface	IDOC / Processig program)	Standard & Custom Processing Prog	Standard & Custom	NA	Yes	1		NA	Integration Suite	High
ECC	Price & Availability	BTP	Bothways	Interface	BAPI	Custom	Standard	NA	Yes	1		NA	Integration Suite	Medium
ECC - Transaction	Expended Order Clearing	BTP	Transaction	Enhancement	Automation	Custom	Standard & Custom	NA		1			SAP Build	Low

**We bring a pragmatic approach to evaluate and simplify RICEFW objects migration**



# Keep SAP S/4HANA Core Clean with Integration Suite



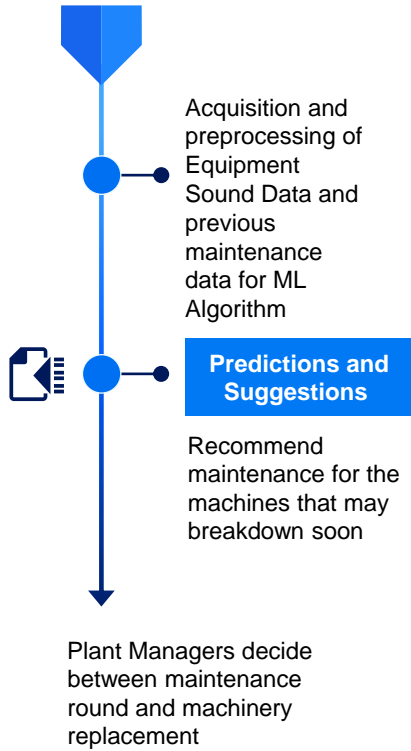
Enhancement	Description
R	Report
I	Interface
C	Conversion
E	Enhancement
F	Forms
W	Workflow

Report Scenarios	Integration Scenarios	Conversion Scenarios	Enhancement Scenarios	Form Scenarios	Workflow Scenarios
<ul style="list-style-type: none"> <li>EDI Interfaces</li> <li>Flat files</li> </ul>	<ul style="list-style-type: none"> <li>IDOCs</li> <li>Custom tables</li> </ul>				<ul style="list-style-type: none"> <li>Third party Integrations</li> </ul>

## SOLUTIONS

- Migration from PI/PO to Integration Suite
- API first VS IDOC's
- Event Mesh to capture real-time events and data trigger.
- Transfer custom logic to BTP to keep core clean.
- Data Transformation and rules in HANA DB

# Anomaly Detection & Predictive Maintenance Using SAP AI Foundation & Integration Suite.



## Challenge

- The problem at hand involves unexpected breakdowns in machines, leading to delays and incurring high costs.
- The current approach follows reactive maintenance, addressing issues only after they have occurred.
- The challenge is to predict machine failures in advance, a goal achievable through the implementation of smart technology.

## Solution

### Predictive Maintenance using equipment sound data

- The proposed solution involves utilizing a dataset of machine sounds to effectively distinguish between normal and abnormal working conditions.
- The overarching objective is to improve machine efficiency, reduce downtime, and extend the lifespan of machines.
- The associated benefits include cost savings achieved through the efficient utilization of resources.

## Benefits

- Plant Managers are intimated in advance about possible machinery breakdowns, reducing downtimes and potential losses
- Plant managers can assess the options for another round of maintenance or complete replacement of the machinery,

## Average Business Value for Customers

Calculation Method / Assumption In Notes

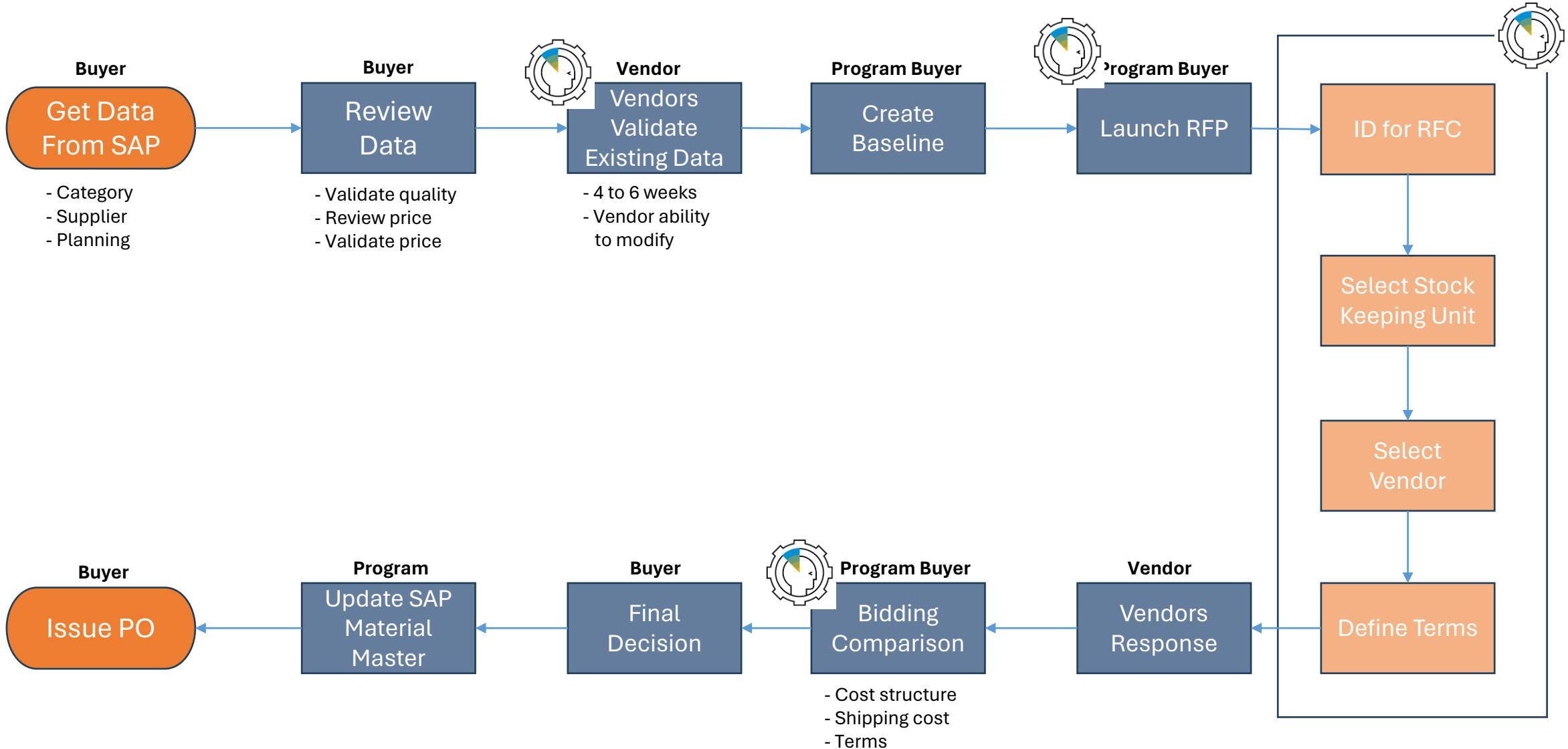
**97% - 99%**

Accuracy at anomaly detection and predicting machine breakdown

Substantial reduction in maintenance and operational costs

A step towards creating a safe environment for workers and employees.

# Sourcing Automation with SAP Business AI

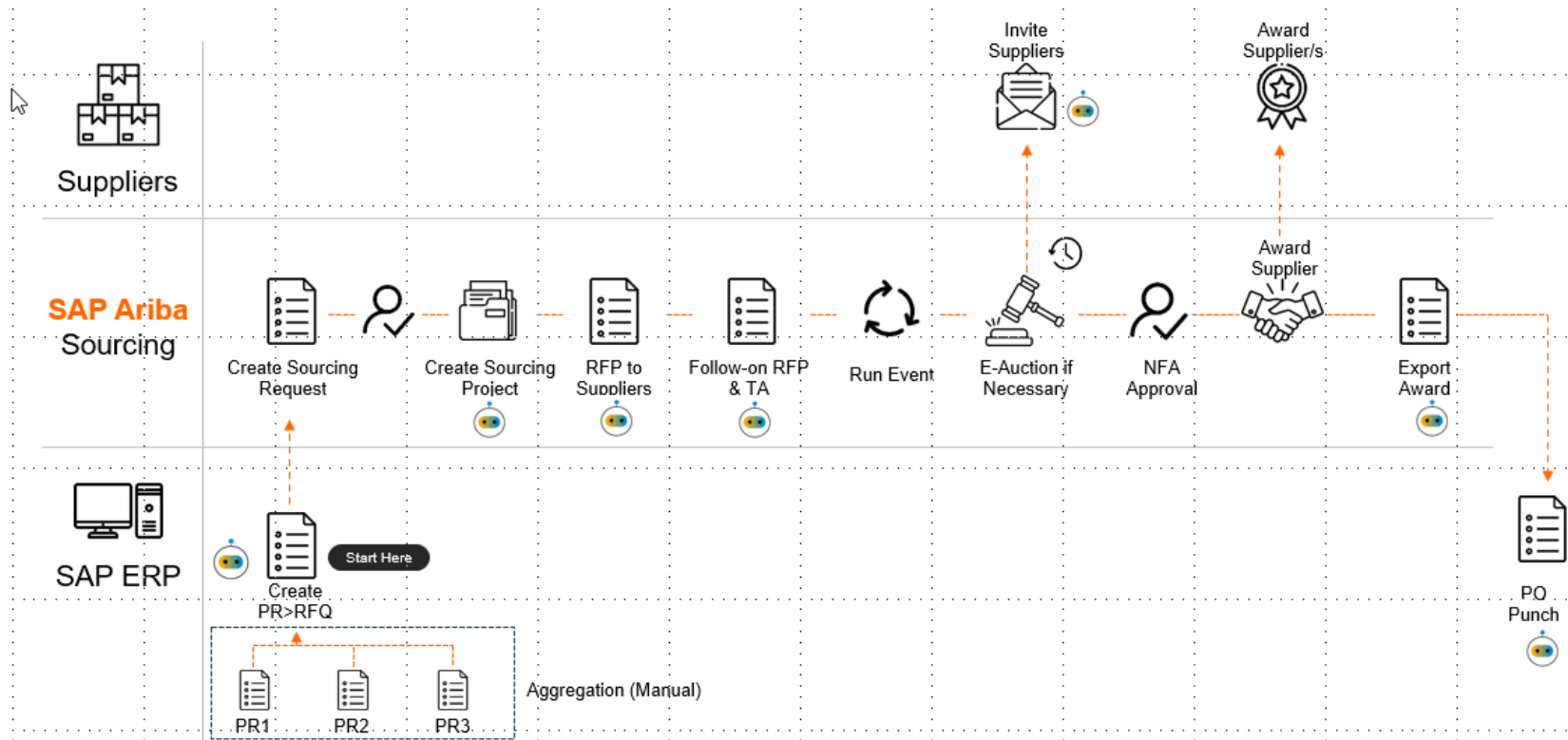


# End-to-end (Ariba & S/4) RFP Process Automation



## Use Case

The Purchase department followed the process where Purchase Requisitions were created and RFQ's were created in S4. Then RFP was floated in the Ariba system and then after multiple iterations of bidding the L1 vendor was awarded.



## Business Challenge

- Customer was looking to improve productivity procurement through automation of manual, repetitive tasks as part of digital transformation
- From creating the RFQ and floating the RFP to award & PO creation was a tedious repetitive daily activity
- The manual execution of this task takes a lot of time and is highly prone to errors.

## Solution – At a Glance

- Demand Aggregation for consolidation of PRs based on business logic.
- Bot to create the RFQ's using the aggregated PRs in S4
- RFQs imported as Sourcing request in Ariba Sourcing
- RFP events and Awards done in Ariba to create follow-on PO/Contract

## Business Benefits

- Reduction in required time from 2-3 days to less than 10-15 minutes.
- 40% productivity gain due to fully automated process.
- 60% savings on the spend for PR2PO.

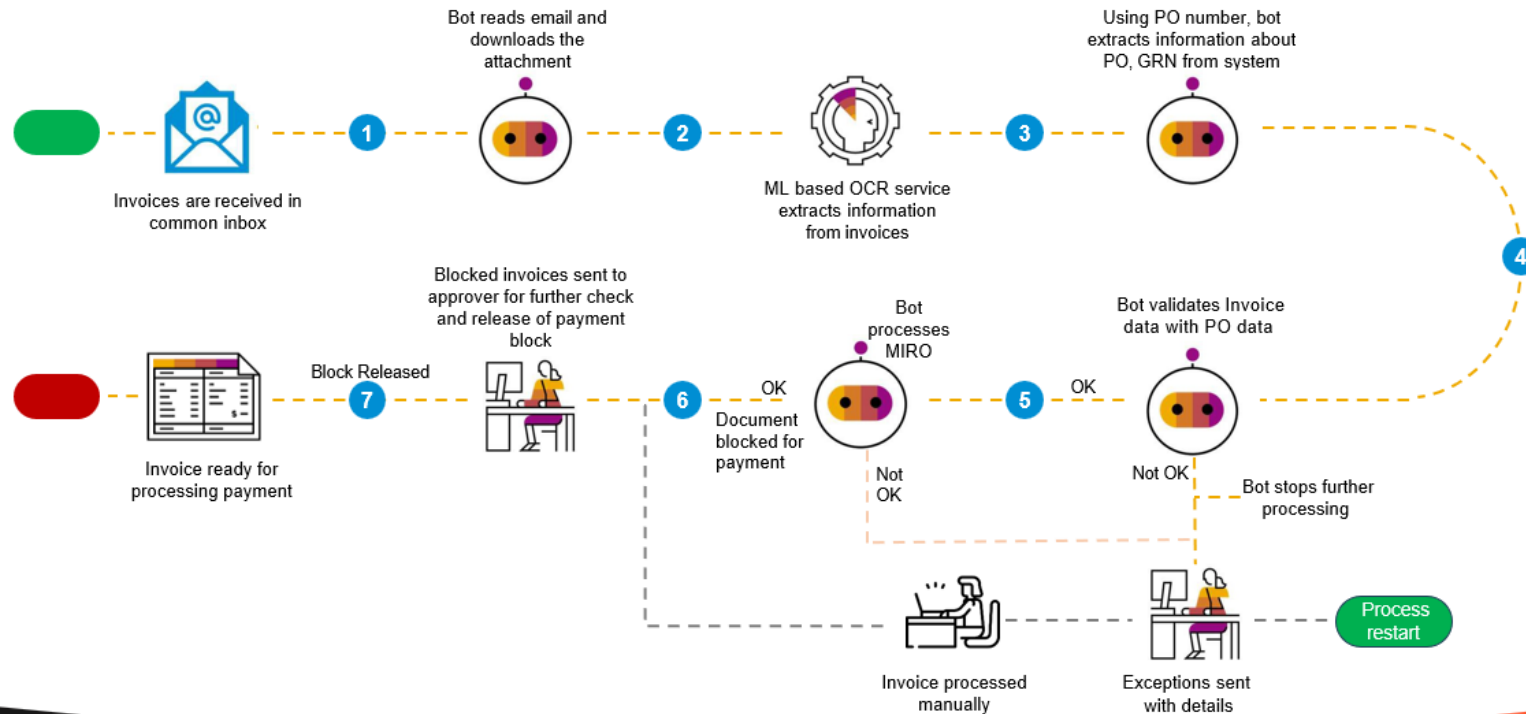
## Bill of Material (BOM)

SAP Process Automation | SAP Connectivity Service | SAP Cloud Identity Services - Identity Authentication | SAP S/4HANA | ARIBA

# Gate Entry to Invoicing Process Automation

## Use Case

Supplier invoices arriving at gate were scanned and stored in DMS folder. Via OCR tool scanning and RPA BOT, gate entry is posted in SAP. After manual goods receipt, account payable is fully automated via RPA with posting or parking the invoice, in case of value and quantity differences, posting the credit memos followed by automatic triggering the mail to respective supplier, to receive credit notes from supplier by fetching the related information from mail and post the document in SAP via BOT



## Business Challenge

- Customer was looking to improve productivity through automation of manual, repetitive tasks as part of digital transformation
- From creating manually scanning and posting gate entry to accounts payable process was a tedious repetitive daily activity
- The manual execution of this task takes a lot of time and is highly prone to errors.

## Solution – At a Glance

- Preparation of master vendor templates and it's scanning as per pre-define rules for extracting the data for automation.
- Bot to create gate entry goods receipt, account payable transactions like credit invoice posting and parking
- Bot to send and receive credit note for supplier

## Business Benefits

- 100% accurate information at gate by scanning and posting goods receipt document.
- 50% productivity gain due to fully automated process.
- 80% savings in moving the invoice files from store to record room due to process automation
- >95% automation in custom transaction posting by creating LOT automatically and segregate invoice. Manual intervention is eliminated.
- The average time from goods receipt to payment was average 3 months which is now reduced to 15 days
- Better auditability since invoices are stored in DMS repository with reference to goods receipt no.
- Vehicle No. and Bar-Code based digital stamp is used further for automating store processes like Docking, Undocking and Material Receipt.

## Bill of Material (BOM)

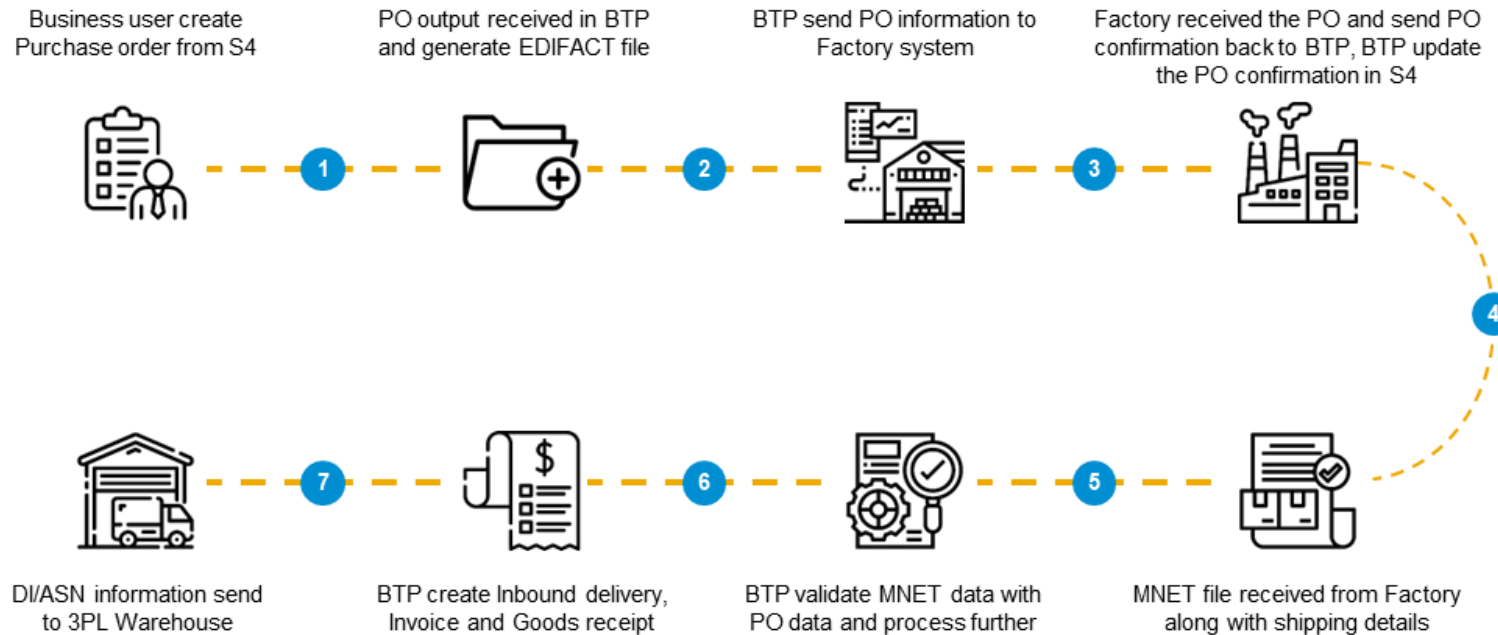
SAP Process Automation | SAP Connectivity Service | SAP Cloud Identity Services – Identity Authentication | SAP S/4HANA

# PI/PO Migration Use Case : Supply Chain Automation



## Use Case

Manual process of PO output to reflect in factory system, creation of Inbound delivery, Invoice, GR based on MMNET file received from factory. Transmit relevant documents to 3PL.



## Bill of Material (BOM)

SAP Business Application Studio | SAP Cloud Integration | SAP Cloud Identity Services - Identity Authentication | SAP S/4HANA

## Business Challenge

- Customer was migrating ECC to S4 and do not want to implement Custom tables and logics into S4HANA.
- Manual process to trigger output for factory system.
- Manual process to create Inbound delivery, Invoice and Goods receipt based on the MNET file received from the factory.

## Solution – At a Glance

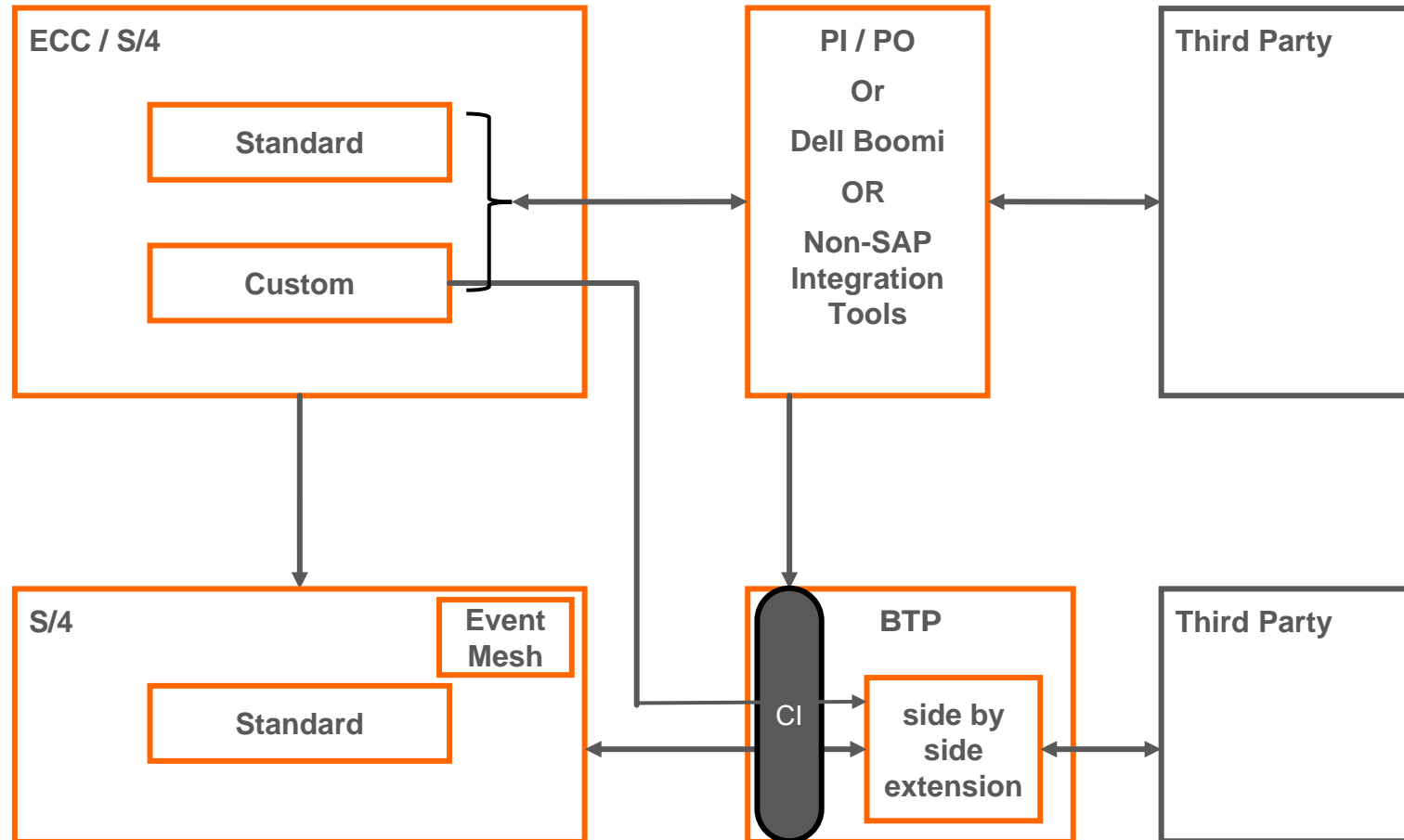
- Implemented BTP and created all custom tables, logic into it.
- Implemented CPI to validate and trigger the PO output, create EDIFACT file and send it to Factory.
- Automated the PO confirmation from Factory system to S4.
- Automated the Inbound delivery, Invoice, Goods receipt creation based on MNET file data received from factory.
- Automated the process to send Inbound delivery information to 3PL at the time of creation and change in document

## Business Benefits

- Core clean S4HANA system.
- Reduced user's manual efforts by automation.
- Enhance the process by validating any document creation.



# Keep Core Clean – Custom Interfaces





#### LOCATION

USA:

15 Corporate Pl S #104, Piscataway, NJ 08854  
[contact@craveinfotech.com](mailto:contact@craveinfotech.com)

India:

Software Technology Parks of India, Unit 2-A,  
MIDC, Hinjewadi Rajiv Gandhi Infotech Park, Phase  
1, Pune, Maharashtra 411057



SEND US AN EMAIL

[contact@craveinfotech.com](mailto:contact@craveinfotech.com)



VISIT OUR WEBSITE

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