

# **SAP ERP to SAP Cloud ERP Private Delta Scope**

based on SAP S/4HANA Cloud Private Edition 2025 FPS0

November 2025



# Purpose of this deck

## SAP ERP to SAP Cloud ERP Private Delta Scope – Master Deck – internal and Customer

### This deck is built for:

**Target audience:** SAP ERP customers who start to transform to SAP S/4HANA (Private Edition or OP) and want to understand and learn about the differences between the two products. As some innovations in this deck are available to Private Edition only, the title has changed from S/4HANA to S/4HANA Cloud Private Edition. The innovations, which are available for S/4HANA Cloud Private Edition only are marked with an icon “Cloud only”.

**Target presenters:** Internal and partner client engagement roles

**Main purpose:** This presentation shows the main innovations of SAP Cloud ERP Private compared to SAP ERP. It is structured for each LoB along the main differentiators **HANA and Real-Time Analytics, Fiori, Intelligence, New and updated business processes, Integration.**

The content is based up to SAP S/4HANA Cloud Private Edition 2025 FPS0 and can be used as pick and choose deck for customer presentations or entirely if innovations across all LoBs are of interest. It does not include standalone features in industry portfolio, SAP LoB solutions and SAP S/4HANA Cloud Public Edition.



# Update of this deck

The first version of this deck was based on SAP S/4HANA Cloud Private Edition 2023 FPS0

**This new version is based on SAP S/4HANA Cloud Private Edition 2025 FPS0**

**The changes are visible on the slides:**

New slides

NEW

Updated slides

UPDATED

SAP Cloud ERP Private only capabilities



# Agenda

**01**

Vision and Strategy

**02**

Differentiators

**03**

Compatibility Scope

**04**

Finance

**05**

Sourcing and Procurement

**06**

R&D

**07**

Supply Chain

**08**

Asset Management

**09**

Manufacturing

**10**

Service

**11**

Sales

**12**

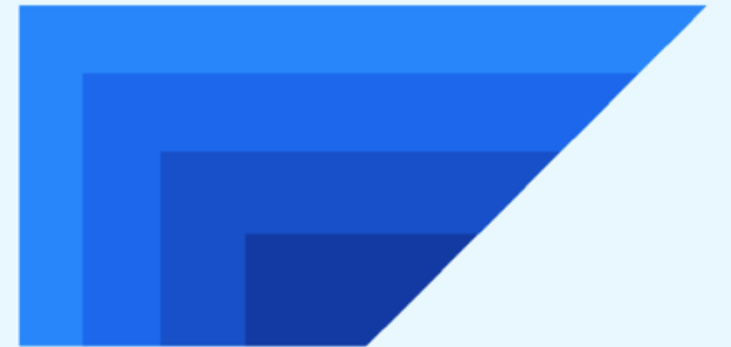
People

**13**

Cross

# Vision and Strategy

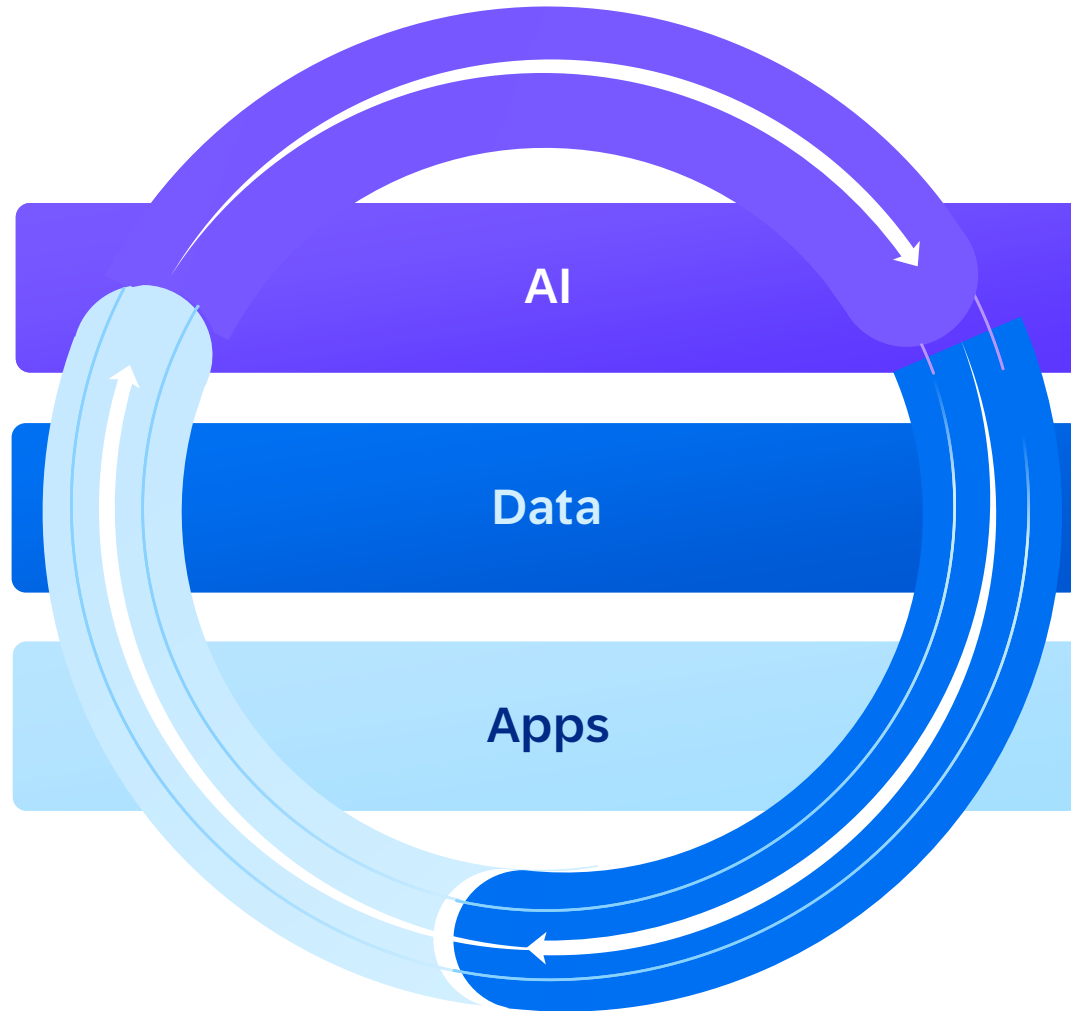
## SAP Business Suite





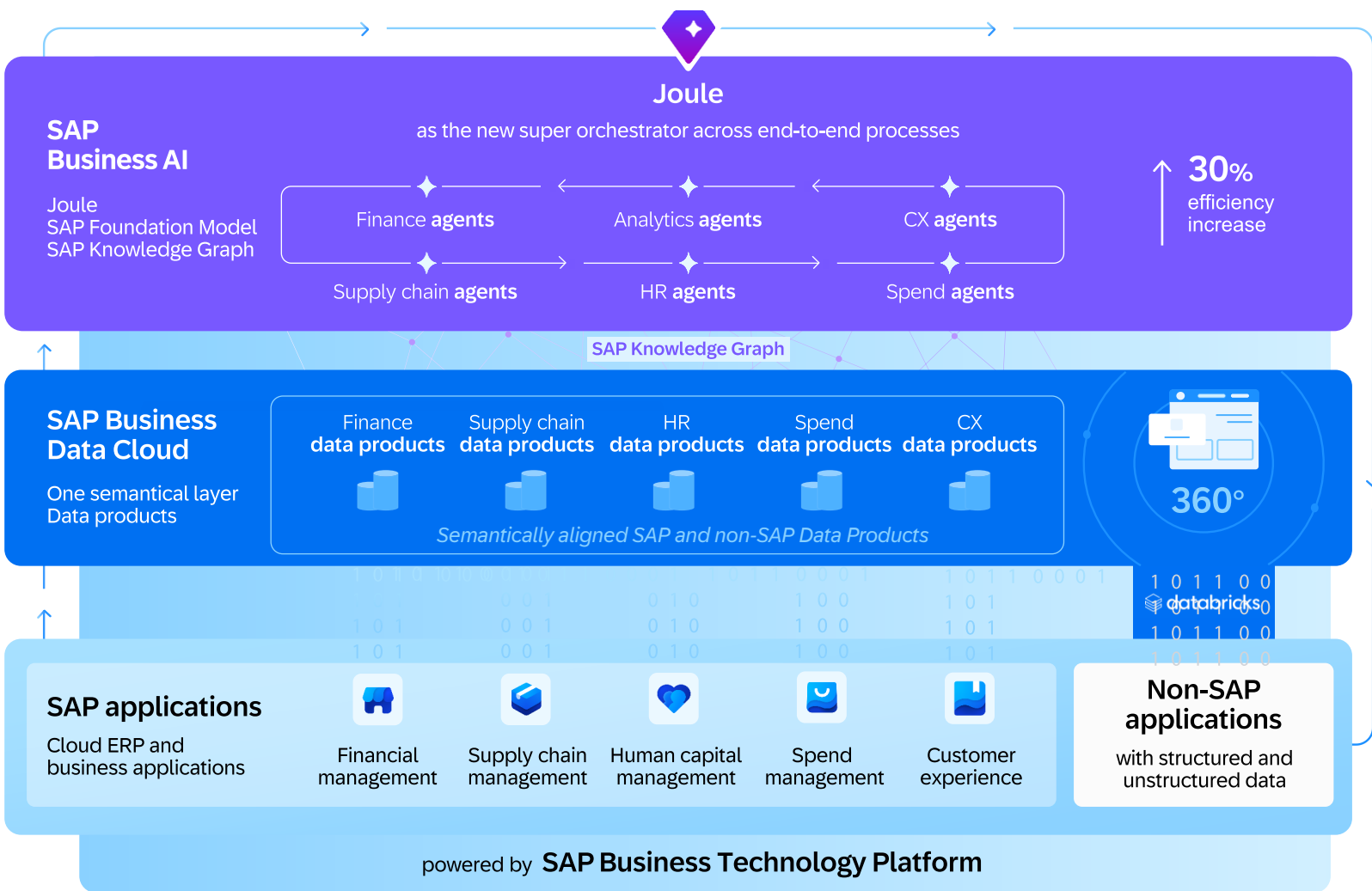
# Realizing our vision by bringing together Apps, Data and AI

Differentiate your business with access to continuous innovations



# A new era of enterprise management

SAP is uniquely positioned to lead companies in this new era of enterprise management



## Unrivaled AI

With **SAP Business AI** collaborative agents are deployed and orchestrated to enhance operations, drive real-time insights, and optimize decision-making at scale—unlocking capabilities others can't match

## Unmatched Data

With **SAP Business Data Cloud**, the most valuable business data from every part of the business turns into a semantically-rich data treasure that fuels unrivaled AI-powered value

## Unparalleled Applications

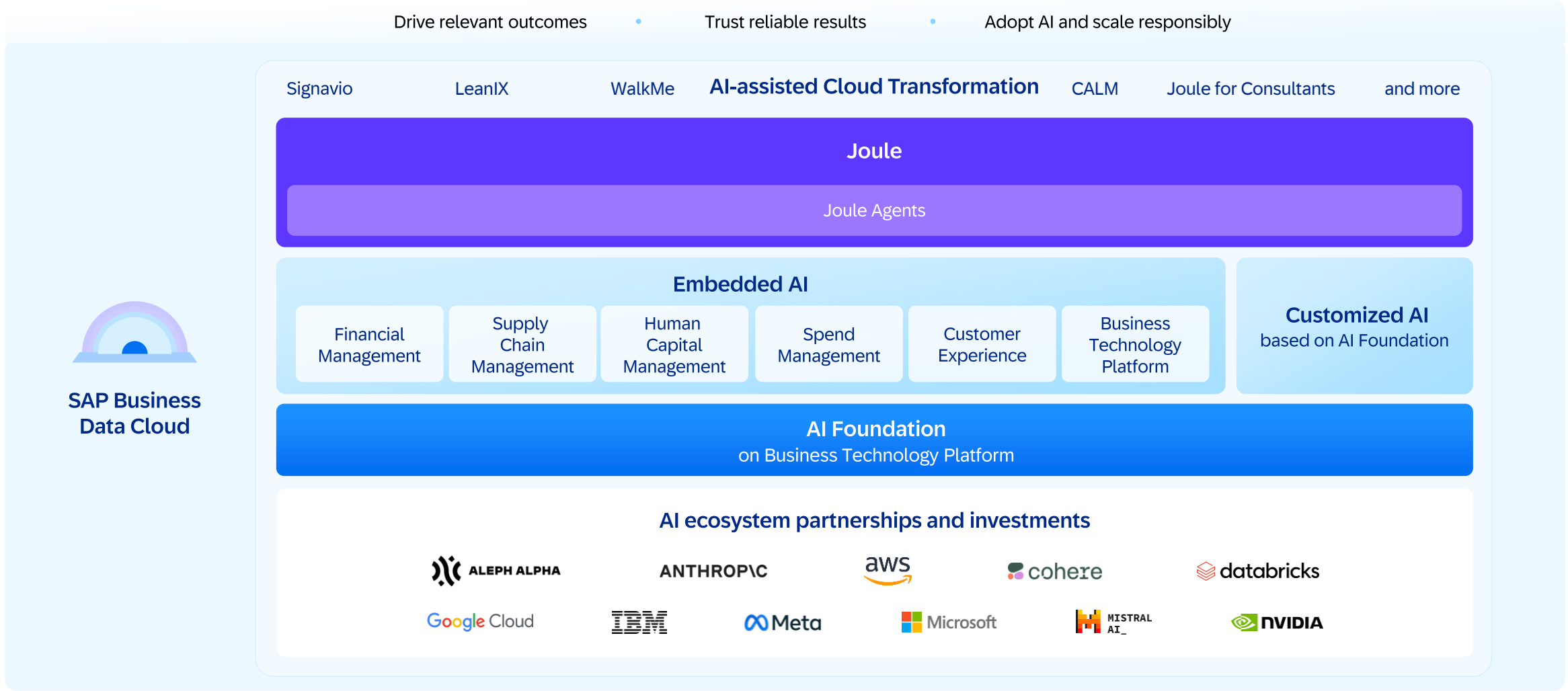
With **SAP's applications** and our **SAP Business Technology platform**, every part of the business is deeply connected, delivering end-to-end transformational value to business processes

# Unrivaled AI

Deploying collaborative AI agents to optimize operations and enable smarter decision-making across the business



Drive relevant outcomes • Trust reliable results • Adopt AI and scale responsibly





# Unrivaled AI

With **SAP Business AI** enhances operations, drives real-time insights, and optimizes decision-making at scale—unlocking capabilities others can't match

AI

## Introduce AI as the new UI

Rethink user experience with intuitive and persona-based AI that guides you in every interaction while delivering unmatched outcomes, at scale.

## Accelerate Cloud Transformation

Supercharge your SAP journey with AI-powered tools that accelerate your move to the cloud, fast and efficiently.

## Innovate with Impact

Amplify your potential and innovate like never before with advanced AI agents collaborating across the entire enterprise and generative AI that understands the context of your business.

The collage illustrates the integration of SAP Business AI across various business processes. It shows a chat-based user interface for customer support, a mobile app for HR analytics, a process mining tool for workflow optimization, and an AI agent assisting with SAP financial documents.

# Unrivaled AI

Unlock additional value: Collaborative AI multi-agent orchestration layer

AI



## Joule Agents



### Specialized multi-agents

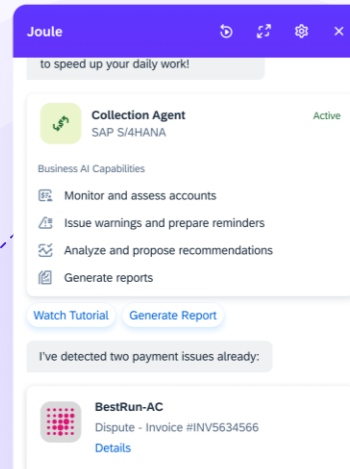
collaborate on role-based scenarios like dispute management, planning, accounting etc.

### Unique assets

access knowledge graph and SAP's foundation mode for increased reasoning and problem solving

### Extensibility

via SAP Build, Business Agent Foundation and Joule Scenario Builder



# Unmatched Data



With SAP Business Data Cloud, your most valuable business data from every part of your business turns into a semantically-rich data treasure that fuels unrivalled AI-powered value for your business

## Unleash transformative insights

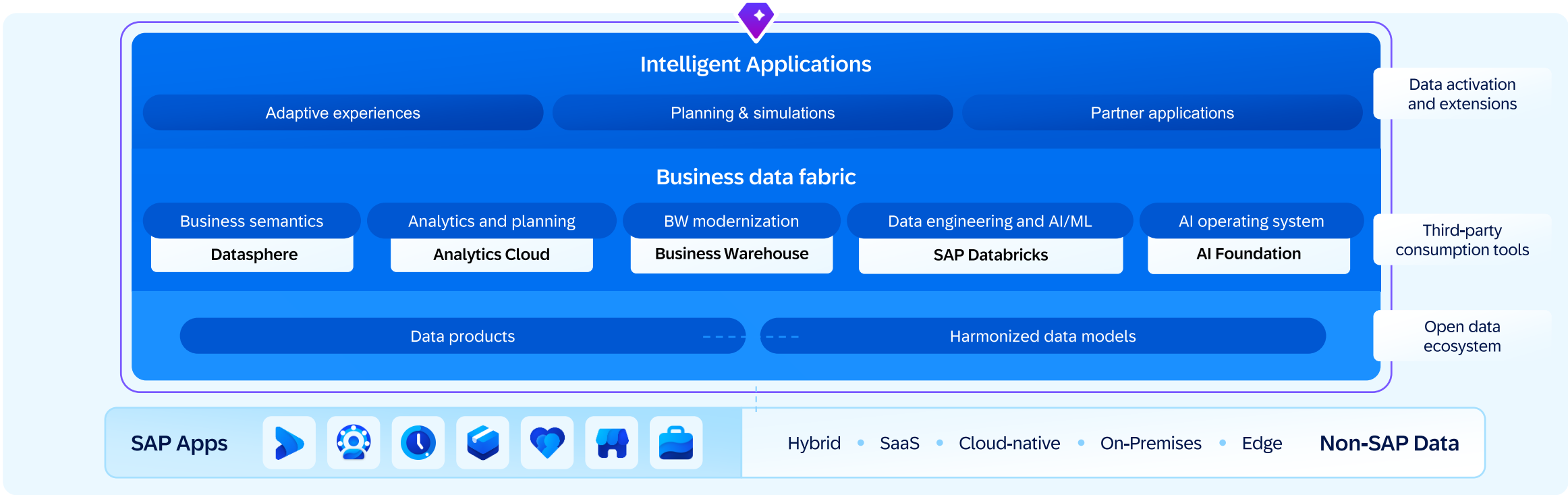
Make faster, smarter decisions with business-ready data and context grounded in industry-standard best practices

## Connect all your data

Harmonize all mission-critical data with an open data landscape and give a complete, actionable view of the organization

## Foster reliable AI

Ensure data across applications and operations have a foundation for generative AI that is reliable, responsible, and relevant





# Unparalleled Applications

SAP's applications and Business Technology Platform deliver comprehensive, connected and tailored solutions to meet your unique needs

Applications

## Comprehensive

Power end-to-end business processes with the most comprehensive, integrated portfolio of applications

## Extensible and integrated

Easily connect and extend applications with generative AI powered development, automation, and integration solutions

## Industry-specific

Tailored solutions for all industries, built to meet unique business needs

## One suite

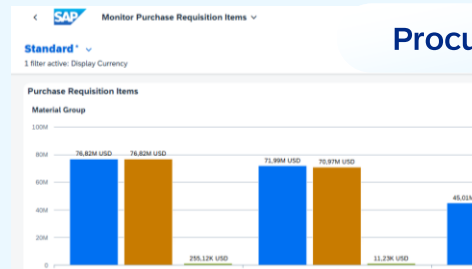
of applications with seamlessly integrated business processes

Matching Resources

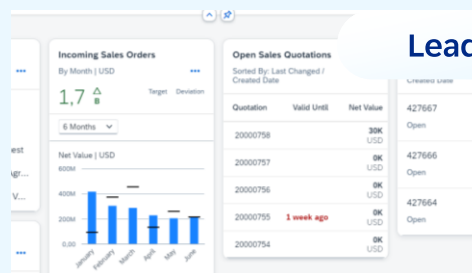
Advanced Skill Match is a score generated by the system. It is recommended to review the match score.

Name	Total Match	Availability Match
<input type="checkbox"/> Justin Holt	85.00%	100.00%
<input type="checkbox"/> Grace Morrison	41.00%	33.33%
<input type="checkbox"/> Michael Klein	95.00%	100.00%
<input type="checkbox"/> Jada Baker	95.00%	100.00%
<input type="checkbox"/> Carl Dixon	95.00%	100.00%

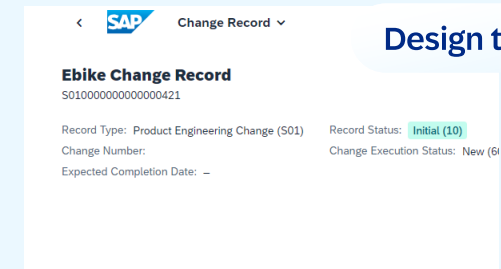
## Hire to retire



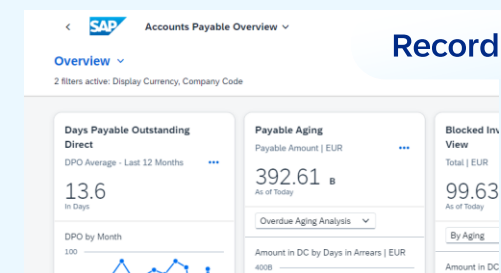
## Procure to pay



## Lead to cash



## Design to operate

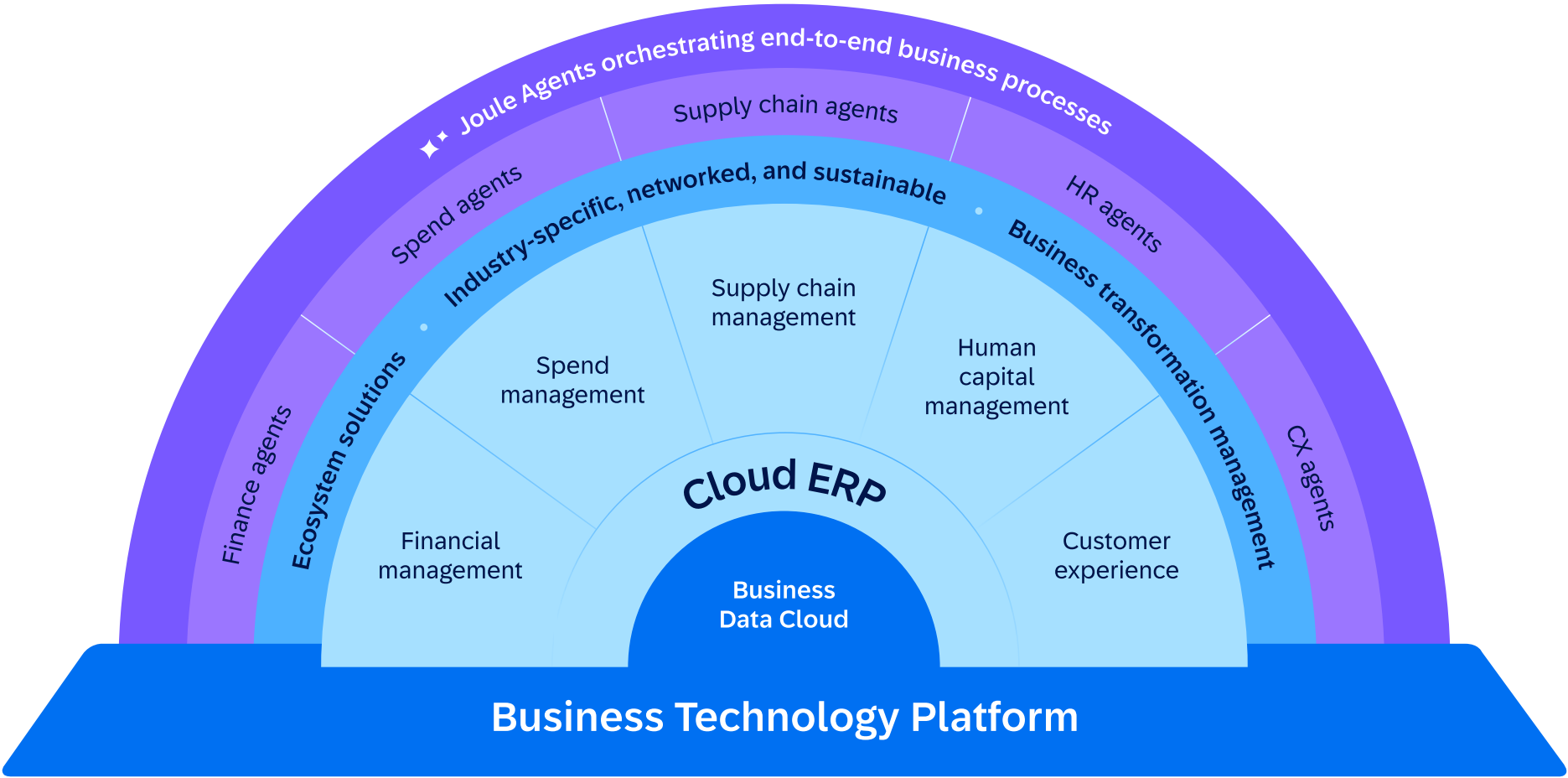


## Record to report

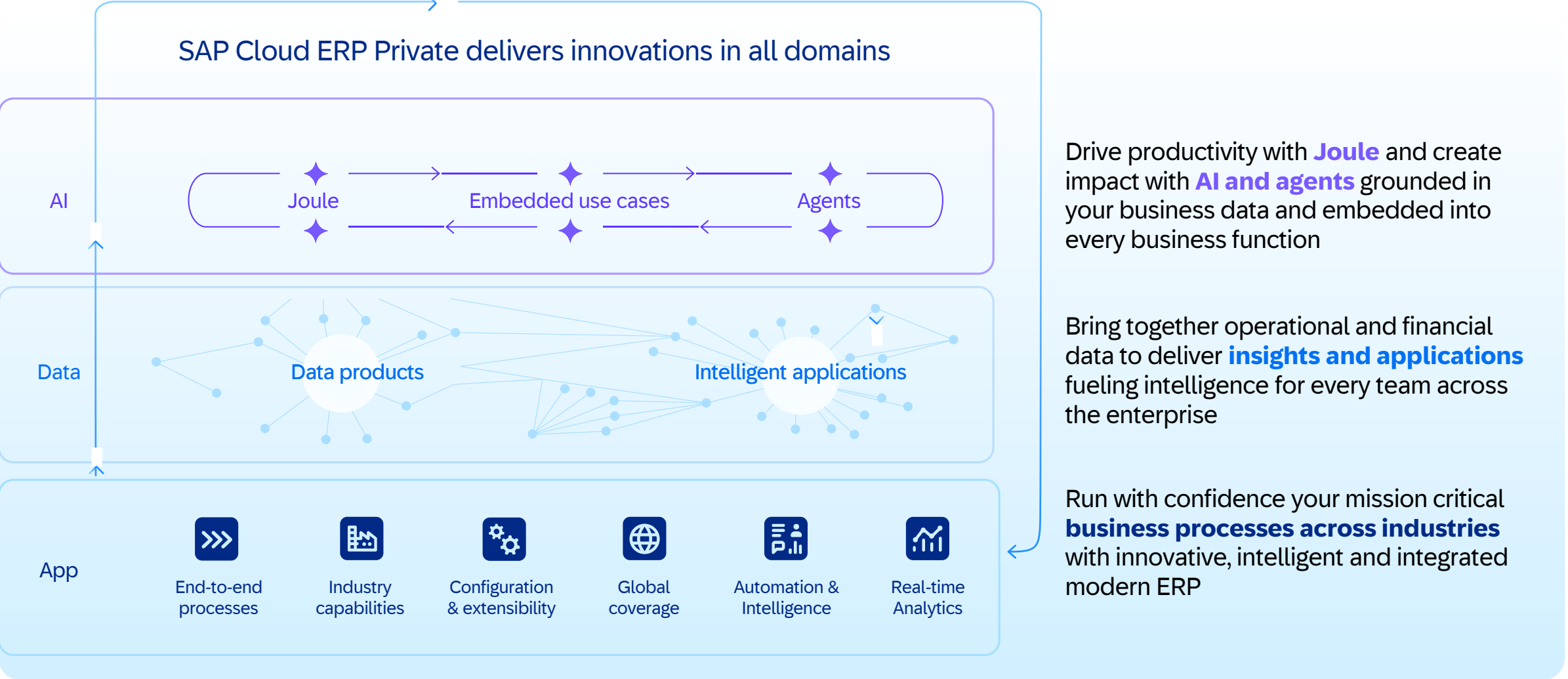
Business Technology Platform

# SAP Business Suite

The future of enterprise management

















# Innovate, adapt, and thrive at scale with SAP Cloud ERP Private – the modular, configurable modern ERP





# SAP Cloud ERP Private

<div>  Modular Cloud LoB Solutions </div>	<b>Sourcing &amp; Procurement</b> 	<b>Supply Chain</b> 	<b>Manufacturing</b> 	<b>Sales</b> 	<b>Service</b> 
	<ul style="list-style-type: none"> <li>Guided buying</li> <li>Supplier management</li> <li>Business network</li> </ul>	<ul style="list-style-type: none"> <li>Integrated business planning</li> <li>Global batch traceability</li> <li>Logistics business network</li> <li>Transportation management</li> <li>Extended warehouse management</li> </ul>	<ul style="list-style-type: none"> <li>Digital manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>E-Commerce</li> <li>Sales automation</li> <li>Customer data</li> <li>Marketing</li> <li>Customer service</li> </ul>	<ul style="list-style-type: none"> <li>Service cloud</li> <li>Field service management</li> <li>Customer relationship management</li> </ul>
<div>  SAP S/4HANA LoB Solutions </div>	<ul style="list-style-type: none"> <li>Central procurement</li> <li>Sourcing and contract (extended)</li> </ul>	<ul style="list-style-type: none"> <li>Advanced warehousing</li> <li>Advanced transportation</li> <li>Advanced order promising</li> <li>Service parts distribution</li> </ul>	<ul style="list-style-type: none"> <li>Ext. Production planning &amp; scheduling</li> <li>Ext. prod. engineering &amp; operations</li> <li>Environment, health, and safety</li> </ul>		
	<ul style="list-style-type: none"> <li>Operational procurement</li> <li>Sourcing and contract</li> <li>Supplier management</li> <li>Procurement analytics</li> <li>Invoice management</li> </ul>	<ul style="list-style-type: none"> <li>Inventory</li> <li>Warehousing</li> <li>Delivery and transportation</li> <li>Order promising</li> <li>Logistics cross topics</li> <li>Circular economy logistics</li> </ul>	<ul style="list-style-type: none"> <li>Production engineering</li> <li>Production planning</li> <li>Production operations/options</li> <li>Quality management</li> <li>Manufacturing insights</li> </ul>	<ul style="list-style-type: none"> <li>Order and contract management</li> <li>Sales force support</li> <li>Solution Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Service master data and agreement</li> <li>Service operations and processes</li> <li>Service parts management</li> </ul>
	<ul style="list-style-type: none"> <li>Accounting and financial close</li> <li>Financial operations</li> <li>Cost mgmt. and profitability analysis</li> <li>Enterprise risk and compliance</li> </ul>	<ul style="list-style-type: none"> <li>Enterprise portfolio and project management</li> </ul>	<ul style="list-style-type: none"> <li>Maintenance management</li> </ul>	<ul style="list-style-type: none"> <li>Time sheet management</li> <li>Organizational structure management</li> <li>Travel management</li> </ul>	<ul style="list-style-type: none"> <li>Application lifecycle management</li> <li>Intelligent business processes</li> <li>Business technology platform</li> <li>Extensibility framework</li> <li>Sustainability solutions</li> <li>Industry specifics</li> </ul>
<div>  SAP S/4HANA LoB Solutions </div>	<ul style="list-style-type: none"> <li>Adv. accounting, financial close</li> <li>Adv. financial operations</li> <li>Treasury management</li> <li>Commodity management</li> <li>Real estate management</li> <li>Subscription billing and revenue mgmt.</li> </ul>	<ul style="list-style-type: none"> <li>Extended enterprise portfolio and project management</li> <li>Product lifecycle management</li> <li>Product compliance</li> </ul>	<ul style="list-style-type: none"> <li>Resource scheduling</li> <li>Spatial asset management (linear asset management)</li> </ul>	<ul style="list-style-type: none"> <li>HR administration</li> <li>Time management</li> <li>Payroll, reimbursement and rewarding</li> <li>Talent mgmt. and learning management</li> <li>HR strategy and planning</li> </ul>	
<div>  Modular Cloud LoB Solutions </div>	<ul style="list-style-type: none"> <li>Governance, risk, and compliance</li> <li>Multi-Bank connectivity</li> <li>Cash application</li> <li>Analytics cloud for planning</li> </ul> <b>Finance</b> 	<ul style="list-style-type: none"> <li>Enterprise product development</li> <li>Collaborative project management</li> </ul> <b>Research &amp; Development</b> 	<ul style="list-style-type: none"> <li>Asset performance management</li> <li>Mobile asset management</li> <li>Spatial asset mgmt. (geo framework)</li> <li>Asset collaboration</li> </ul> <b>Asset Management</b> 	<ul style="list-style-type: none"> <li>Core human resources and payroll</li> <li>Time and attendance management</li> <li>Talent management</li> <li>Human capital analytics</li> </ul> <b>Human Resources</b> 	<b>Cross Functional</b> 



# SAP Cloud ERP Private Release Strategy

Executive Summary

- [1] **SAP S/4HANA 2025** released for SAP S/4HANA Cloud Private Edition and SAP S/4HANA OP with RTC on October 8<sup>th</sup>, 2025
- [2] 2 years **innovation** phase delivered via **3 Feature Package Stacks** (FPS) followed by
- [3] 5 years standard **maintenance** phase (until Dec, 2032 for SAP S/4HANA 2025)
- [4] **SAP S/4HANA 2027** planned for Oct. 2027
- [5] SAP will continue to support SAP S/4HANA until **2040**



# SAP Cloud ERP Private: Customer References



**100%** of purchases & payments moved from informal systems.

**100%** of vehicles managed throughout their lifecycle

**4x** faster quarter-end close.

[More info](#)



**15%** Increase in efficiency of reconciliation

**15%** Improvement in efficiency of warehouse management

**50%** Reduction in the time required for monthly closing

[Modern Farming: Creating Precision Livestock Farming with a 360-Degree View of Each Cow's Data \(sap.com\)](#)



**10%** Increase in production efficiency, catering to customer needs

**25%** Improved accounting and material management controls

**15%** Improvement in product quality through parameters defined in processes



**20%** faster execution of back-order processing.

**20000** tree-equivalent savings in carbon emissions

**23%** increase in developer efficiency

[Watch the video](#)



**>95%** improvement of metrics delivery to teams, from three days to on demand

**320** team members collaborating on enterprise plans

**1** source of truth across 200 profit centers



**160%** reduction in data compression costs.

**180%** increase in data load speed.

[More info](#)



**15%** Reduction in total cost of ownership

**16%** IT operating expense savings

**100%** Availability of applications and services

[More info](#)



**3,500** processes redesigned

**55** country operations transformed

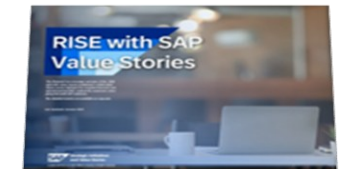
**18** months to complete the project



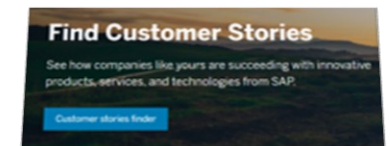
**275,000** Employees worldwide have a single point-of-entry to all SAP applications

**99.97%** Increased system availability with a simplified global IT infrastructure

**1,200+** Terabytes of data moved to the cloud



[RISE at SAP Value Stories\(flippingbook.com\)](#)



[SAP Customer Reviews & Stories](#)

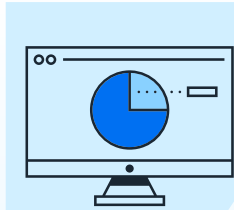
# Differentiators



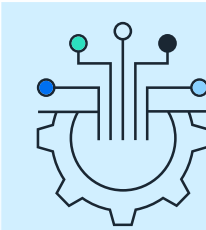
# SAP Cloud ERP Private differentiators



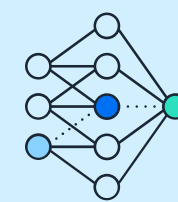
Real-time insights  
with SAP HANA,  
embedded  
analytics, data  
products and  
intelligent  
applications



Cohesive User  
Experience with  
Joule and SAP  
Fiori



Improve efficiency  
with Business AI  
and intelligent  
technologies



Transform your  
business with new  
processes and  
functionalities



Excellence in  
cloud operations  
with all-in-one  
cloud ERP  
management

Access to  
packaged  
applications

# SAP Cloud ERP Private differentiators



Real-time insights  
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## SAP Cloud ERP Private differentiators

# SAP HANA and Embedded Analytics

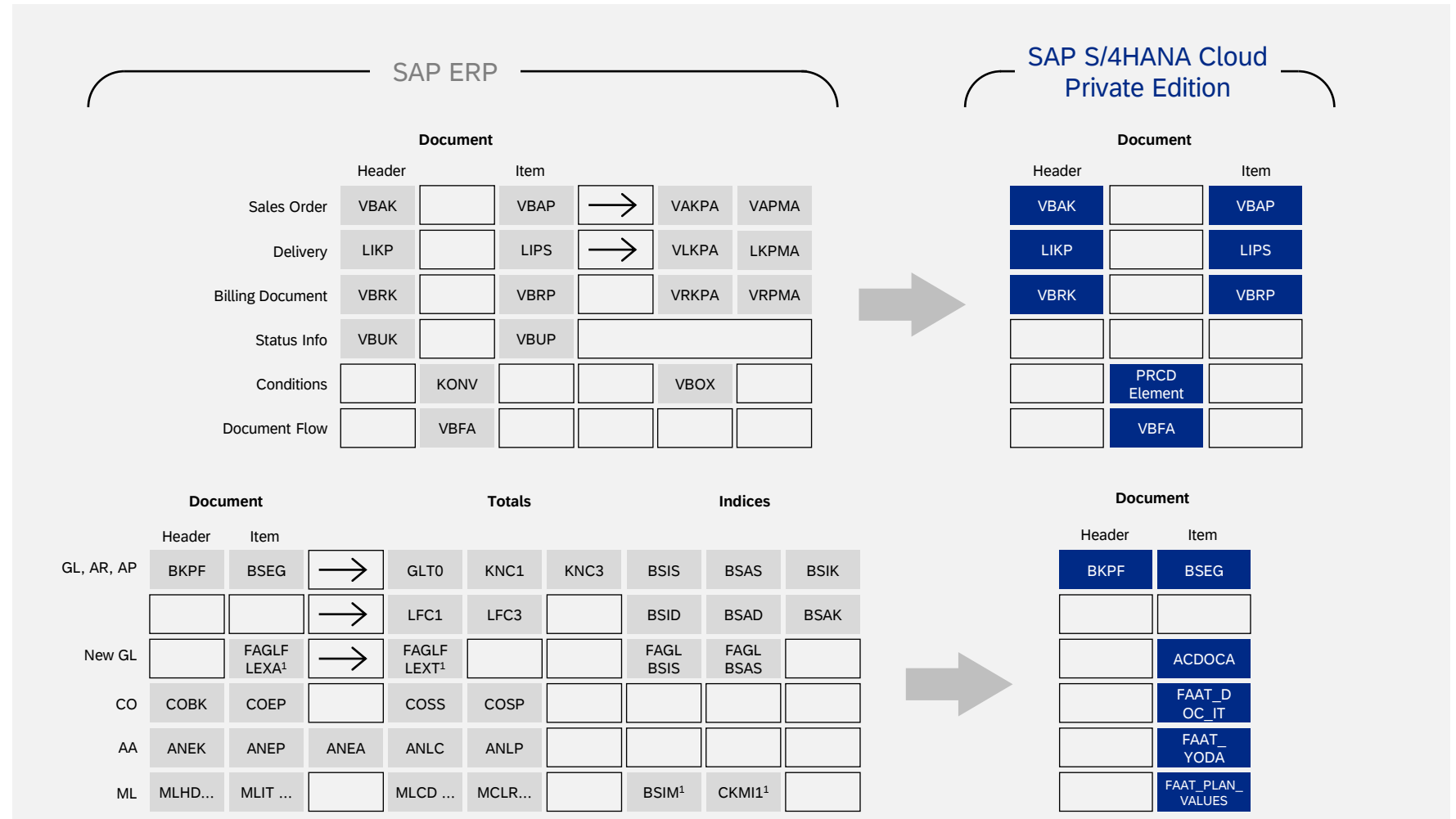
# SAP HANA

## Simplification of the data model: Examples for Sales and Finance



This simplified data model delivers immediate benefits:

- Faster access to high granular, transactional data which is now stored in memory (e.g., daily stock values, values by filter such as product)
- Data model integration (e.g., universal journal for FI/CO including 2<sup>nd</sup> cost element or MATDOCA, including all levels of stock quantity)
- Optimized to support real-time ad-hoc analytics, because aggregation is done on the fly
- Faster processing of updates because there's no requirement to update multiple index tables



# SAP HANA

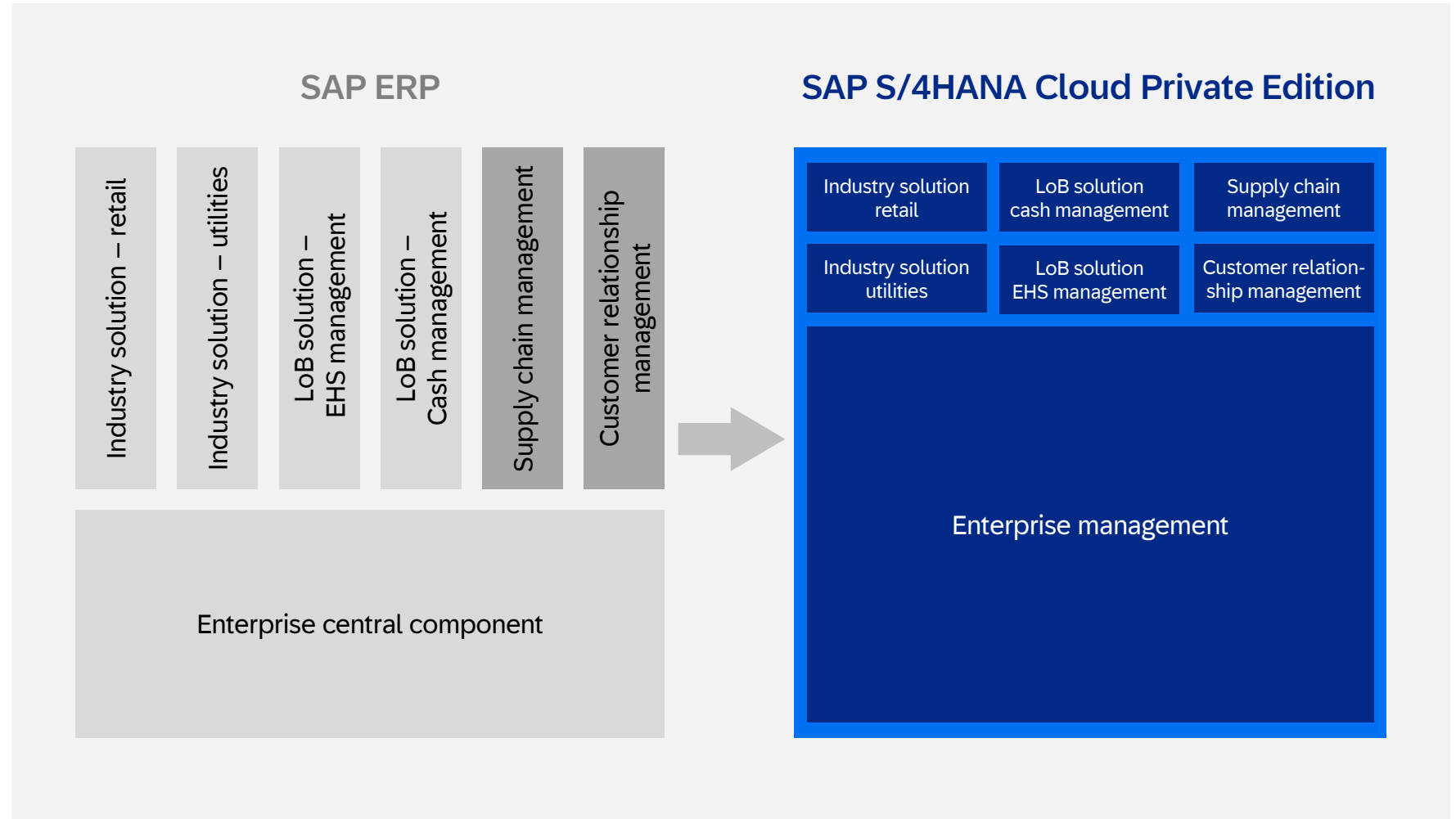
## Simplification via “Industry to Core”



SAP S/4HANA Cloud Private Edition is delivered as a consolidated software stack – not a collection of separate software packs (technical products).

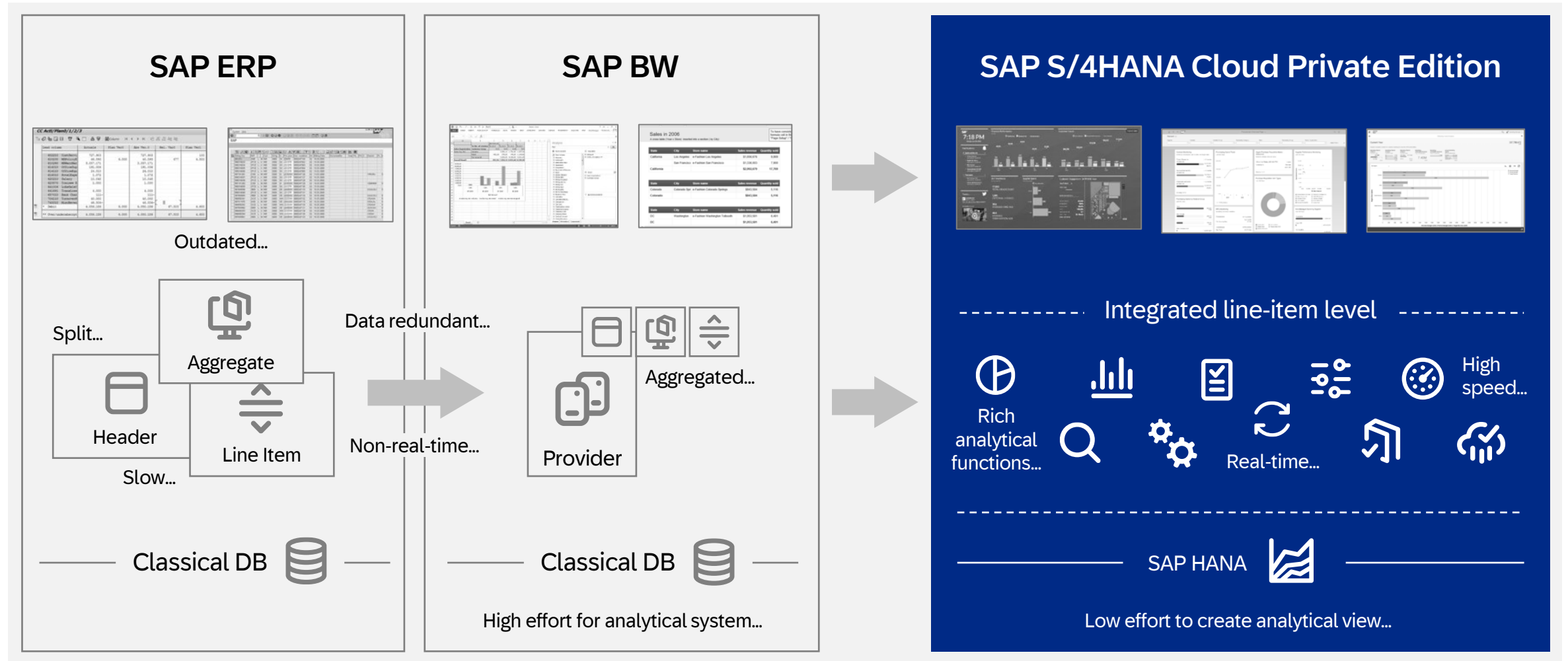
### Benefits:

- Harmonized stack allows to run a single instance across industries
- Lower upgrade complexity, faster release upgrades
- Better system performance
- Fewer interfaces



# SAP HANA

## How analytical constraints are resolved with SAP S/4HANA

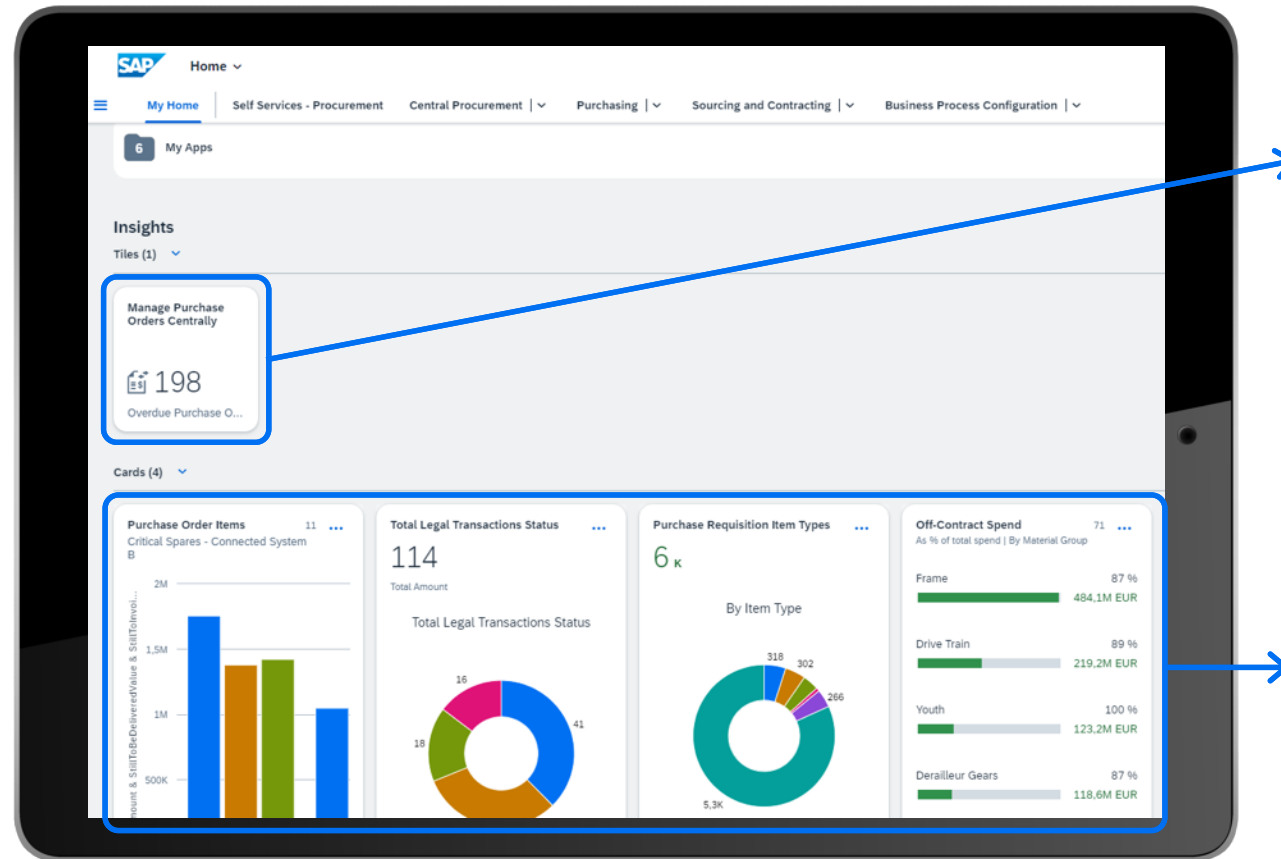


# Embedded analytics

## Analytical and transactional data in one system



### SAP Fiori Launchpad



Manage Purchase Orders Centrally

Standard

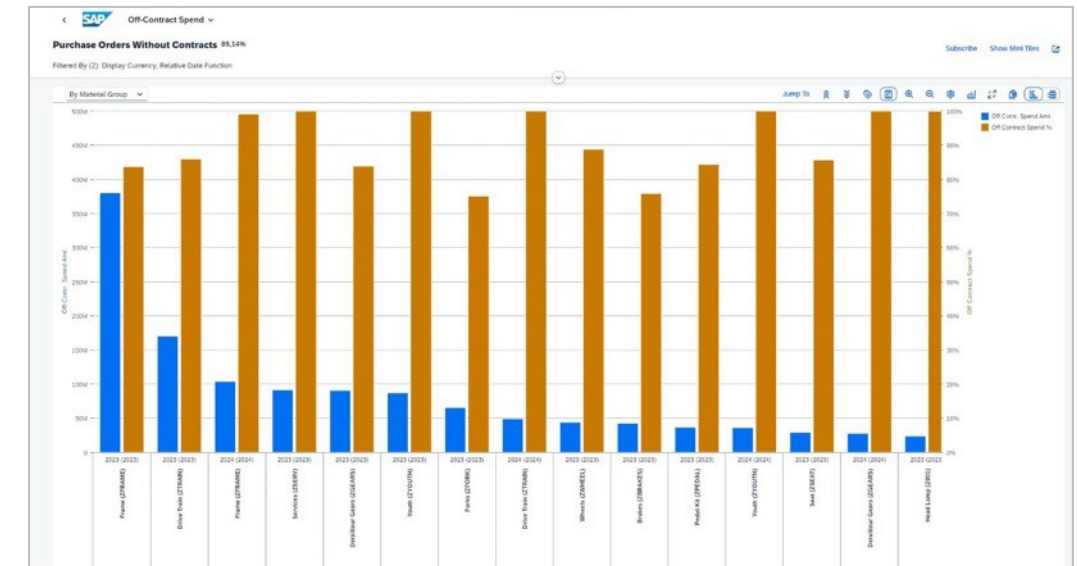
Search: [ ] Plant: [ ] Company Code: [ ] Supplier: [ ] Purchasing Group: [ ] Purchasing Organization: [ ] Purchasing Document Type: [ ] Purchase Order Status: [ ] Material: [ ]

Payment Terms: [ ] Incoterms: [ ] Connected System ID: [ ] Responsibility Management: [ ]

Adapt Filters

Purchase Orders (2,713) Standard

Purchase Order	Purchasing Group	Conn. Pur. Org. Name	Supplier	Company Code	Purchasing Organization	Purchasing Document Status	Net Value
Standard PO 4500405539	Grp 001 Rel Req'd (001)	BESTRUN US	HighTec Assembling Corp. (17300000)	BestRun US. (1710)	BESTRUN US (1710)	Not Yet Sent	94,000.00 USD
Standard PO 4500405599	Pur grp CP01 (CP1)	BESTRUN US	HighTec Assembling Corp. (17300000)	BestRun US. (1710)	BESTRUN US (1710)	Not Yet Sent	150,500.00 USD
Standard PO 4500406032	Office Suppl-Arba (245)	BESTRUN US	1000032	BestRun US. (1710)	BESTRUN US (1710)	Draft	0.00 USD
Standard PO 4500407051	Group 002 (002)	BESTRUN US	Startech Corporation (US509020)	BestRun US. (1710)	BESTRUN US (1710)	Not Yet Sent	800.00 USD
Standard PO 4500407899	Hardware - Arba (243)	BESTRUN US	HighTec Assembling Corp. (17300000)	BestRun US. (1710)	BESTRUN US (1710)	Not Yet Sent	100.00 USD
Standard PO 4500408270	Grp 001 Rel Req'd (001)	BESTRUN US	HighTec Assembling Corp. (17300000)	BestRun US. (1710)	BESTRUN US (1710)	Not Yet Sent	700.00 USD
Standard PO 4500408526	Group 002 (002)	BESTRUN US	Startech Corporation (US509020)	BestRun US. (1710)	BESTRUN US (1710)	Not Yet Sent	400.00 USD



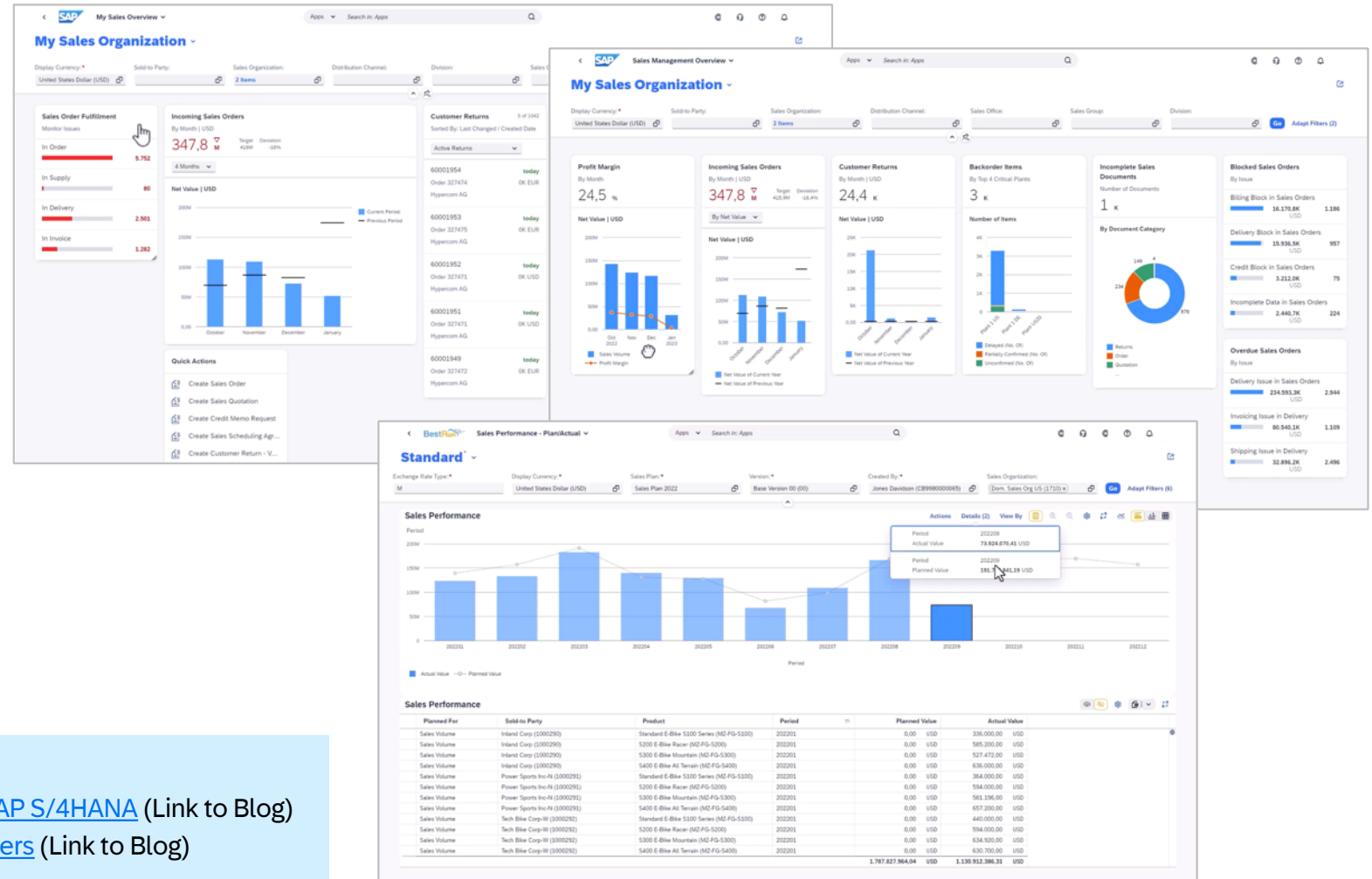
# Embedded analytics

## Analytical and transactional data in one system



Take advantage of **transactional and analytical data in one system** with:

- configurable KPIs
- role-based “overview pages” and cockpits
- insight to action capability: analyze and resolve
- historical data for simulations and predictions
- flexible drill down for maximum transparency
- availability on mobile devices



[Analytics in S/4HANA](#) (Link to Blog)

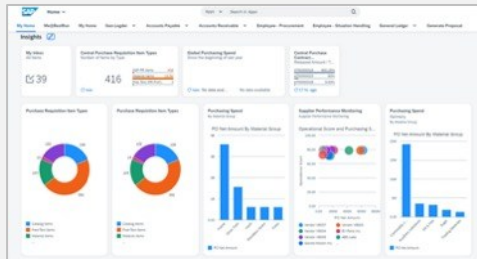
[Analytics on Universal Journal, the heart of SAP S/4HANA](#) (Link to Blog)

[Videos of S/4HANA Analytics for Business Users](#) (Link to Blog)

# Embedded analytics for the business user



## Smart business KPIs and cards



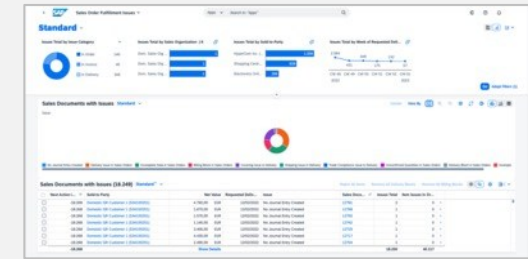
- KPI monitoring on the SAP Fiori Launchpad
- Display cards from one of your overview pages
- Customizable for user-specific needs

## Overview pages



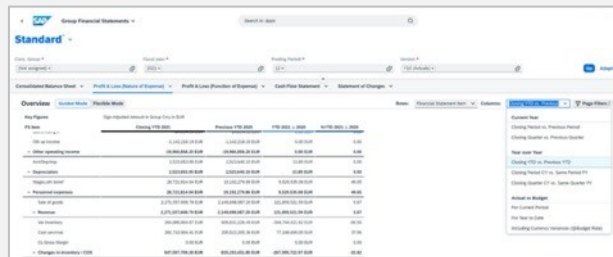
- Consolidated view on a certain domain, e.g., Sales
- Information presented in analytical tables and charts
- Take action in the same place or navigate to other apps
- Save personal variants

## Analytical list page



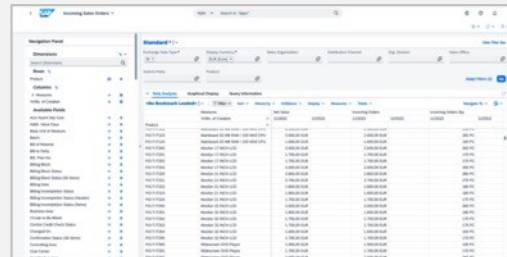
- Generic approach to mix analytical and transactional activities
- Display table or chart or a combination
- Take action directly in the same app or navigate to other apps
- Save personal variants

## Review booklets



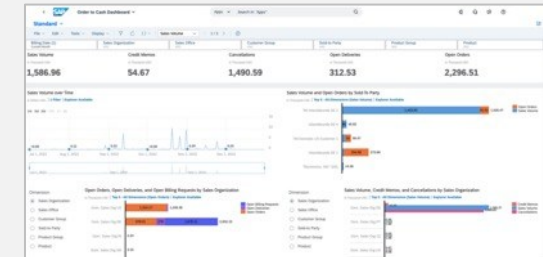
- Prepared layouts for specific business questions
- Guided and flexible analysis mode, contextual actions
- Save personalized views
- [Group Financial Statement Review Booklet](#)

## Multi-dimensional reports



- Analyze and visualize data from multiple dimensions
- Display pivot-table or chart or a combination
- Save personal variants

## Stories

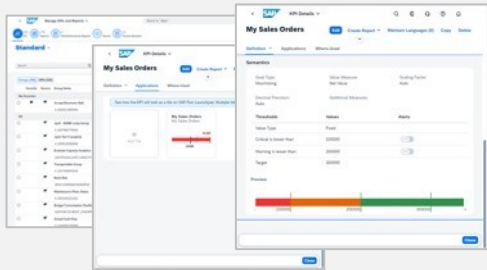


- Pre-defined dashboards based on SAP Analytics Cloud
- Can be consumed directly SAP S/4HANA Cloud Fiori Launchpad
- Can be copied as a template and adapted further

# Embedded analytics for the analytical specialist



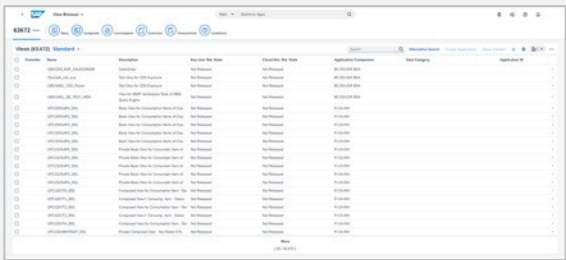
## Manage KPIs and reports



SAP Smart Business KPI and report modeler enables your company to define, manage, and leverage consistent KPIs, reports and dashboards across all your business functions.

F2814

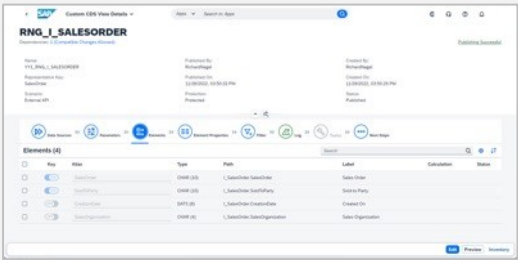
## Views browser



Search, browse, and tag analytical and non-analytical queries. This application displays all the views that are created and released by SAP, as well as the customer-created SAP views.

F2170

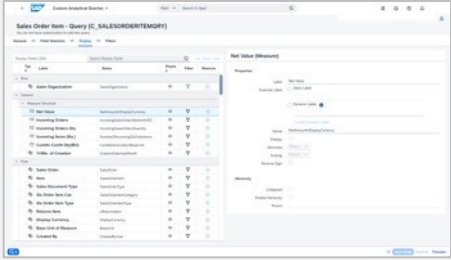
## Custom CDS view



If you need access to data in your system in a way the system does not offer so far, you can create your own data access by making use of a custom core data services view.

F1866A

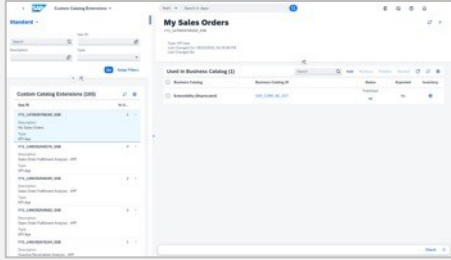
## Custom analytical queries



Custom analytical queries transforms and organizes raw data delivered from business documents into a meaningful multi-dimensional report.

F1572

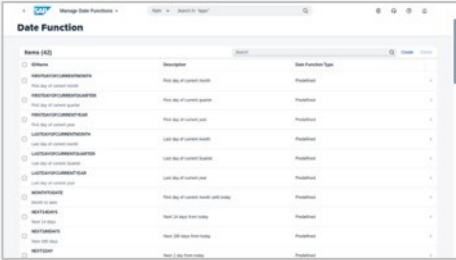
## Custom catalog extensions



With this app you assign your apps, such as new multidimensional reports or KPIs to the required business catalogs and thus to the user roles.

F1950

## Manage date functions



You use this app to view predefined and create user-defined date functions for dynamic filtering of data in analytical apps, primarily the smart business framework based KPIs.

F2595A





## SAP Cloud ERP Private differentiators

# Data Products and Intelligent Applications



# Data products



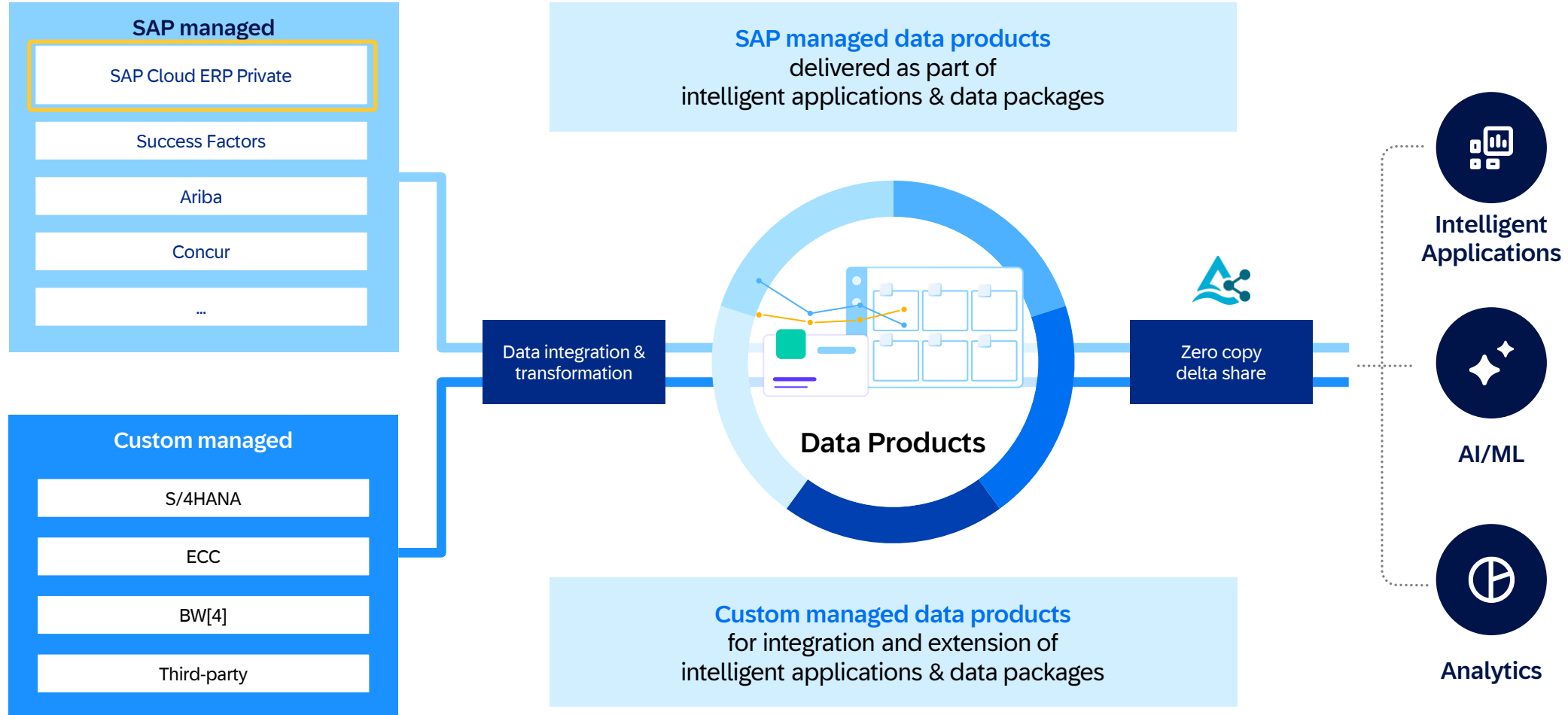
## Data products

Access all your SAP data across your most important business processes with curated data products that eliminate the high costs of data extraction and replication



# Data products

## SAP managed data products for SAP Cloud ERP Private



[Available SAP Managed Data Products](#)





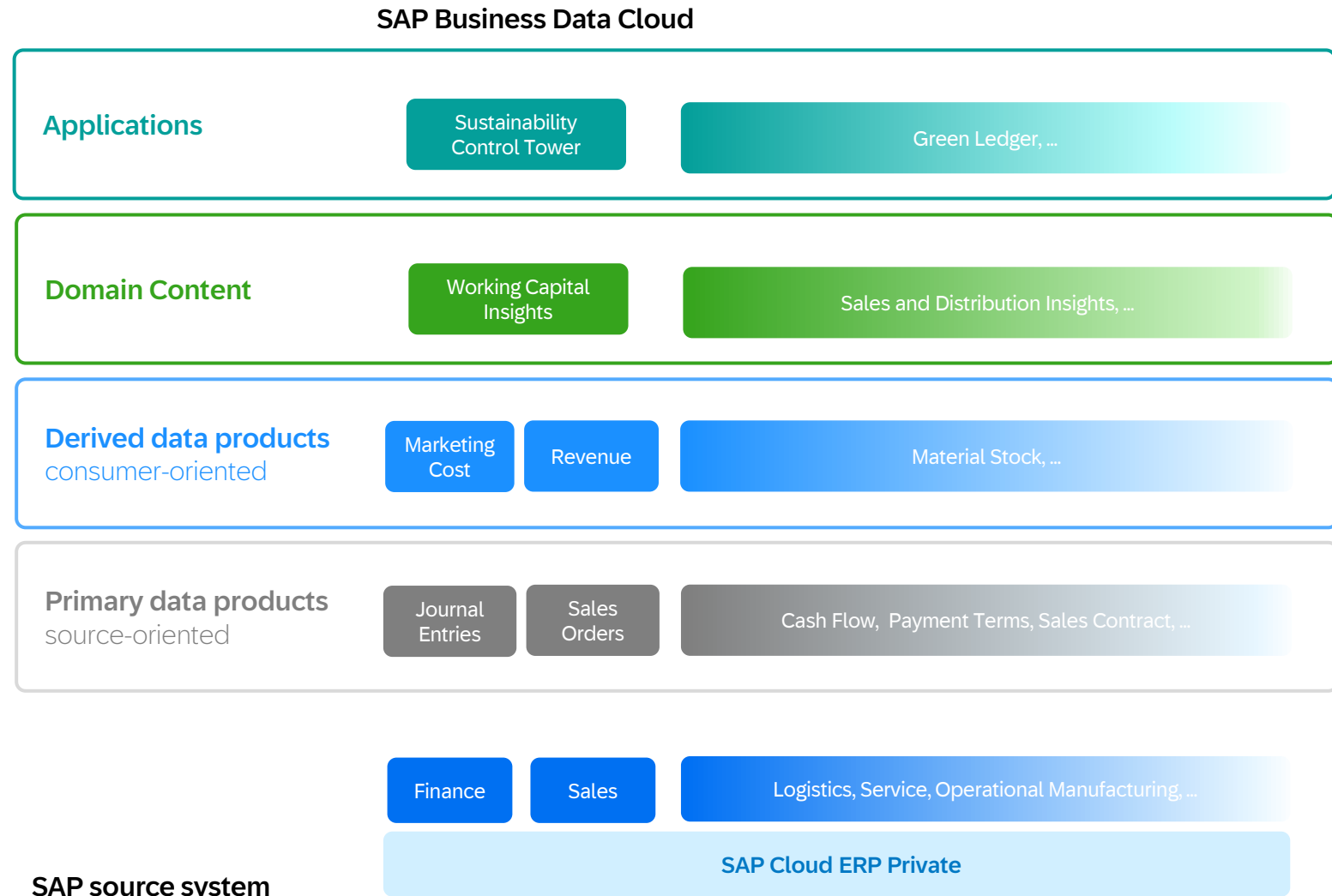
# Data products

## SAP managed data products for SAP Cloud ERP Private

Out-of-the-box **SAP managed data products** are delivered as part of intelligent applications & data packages

**Derived data products like Marketing Cost** are curated by SAP and derived from other data set(s). They deliver value-add and are based on other data products or APIs.

A **primary data product** is directly provided from applications and is not based on other data products representing the original data from a source application.





# Intelligent Applications

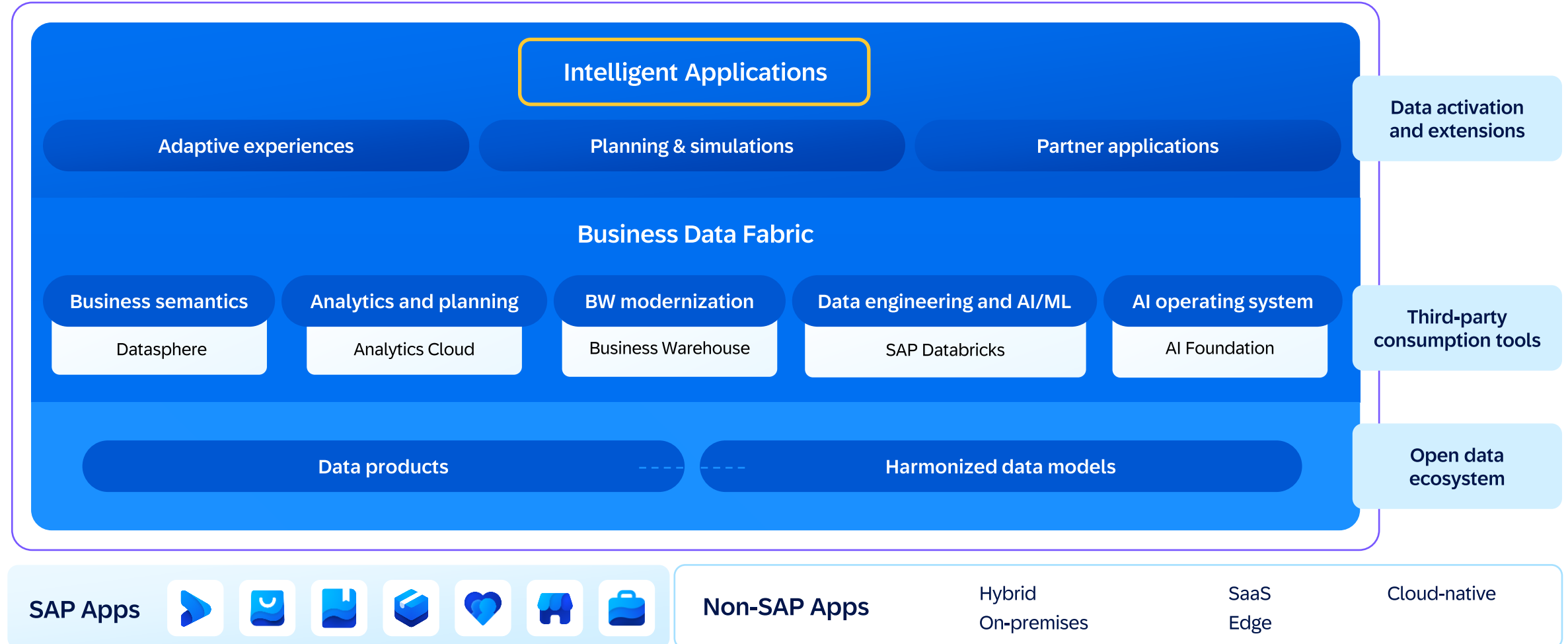


## Intelligent applications

Automate routine tasks and complex business processes with applications that learn from your data over time and can act on your behalf.



# Intelligent Applications



# Intelligent Applications

## Example: Working capital—Gain a deep understanding of your operations



### Cloud ERP Intelligence Private

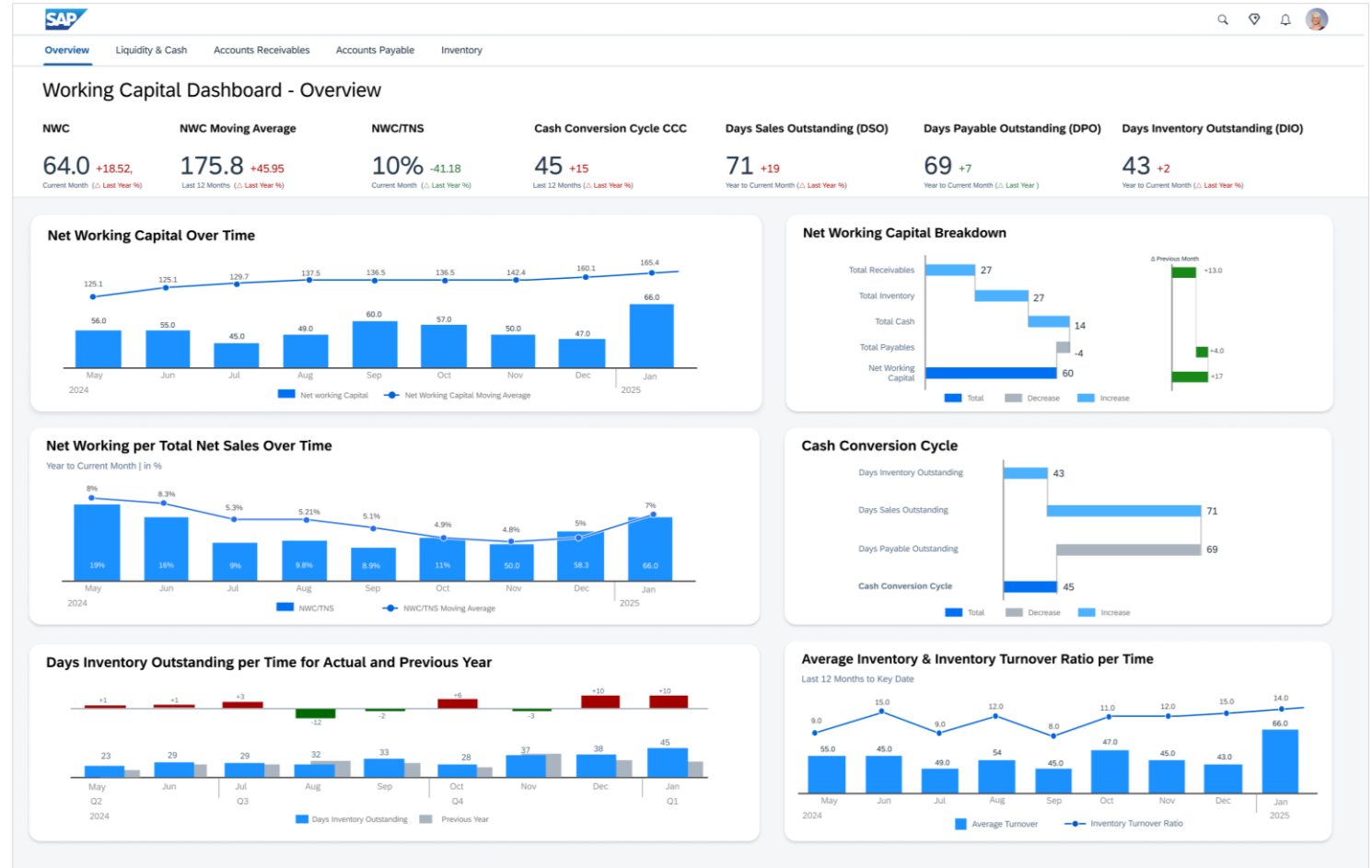
Enables companies to effectively make use of current assets and maintain sufficient cash flow to meet short-term goals and obligations.



The intelligent application helps to answer:

- How has the working capital trended over the past few periods?
- What is the average payment period for accounts payable?
- Are there opportunities to negotiate better payment terms with suppliers?
- What is my days sales outstanding?

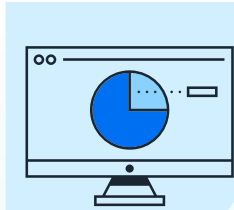
SAP Notes [3606495](#), [3606487](#)



# SAP Cloud ERP Private differentiators



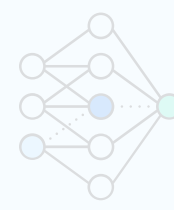
Real-time insights  
with SAP HANA,  
embedded  
analytics, data  
products and  
intelligent  
applications



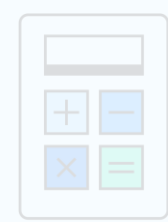
**Cohesive User  
Experience with  
SAP Fiori and  
Joule**



Improve efficiency  
with Business AI  
and intelligent  
technologies



Transform your  
business with new  
processes and  
functionalities



Excellence in  
cloud operations  
with all-in-one  
cloud ERP  
management

Access to  
packaged  
applications



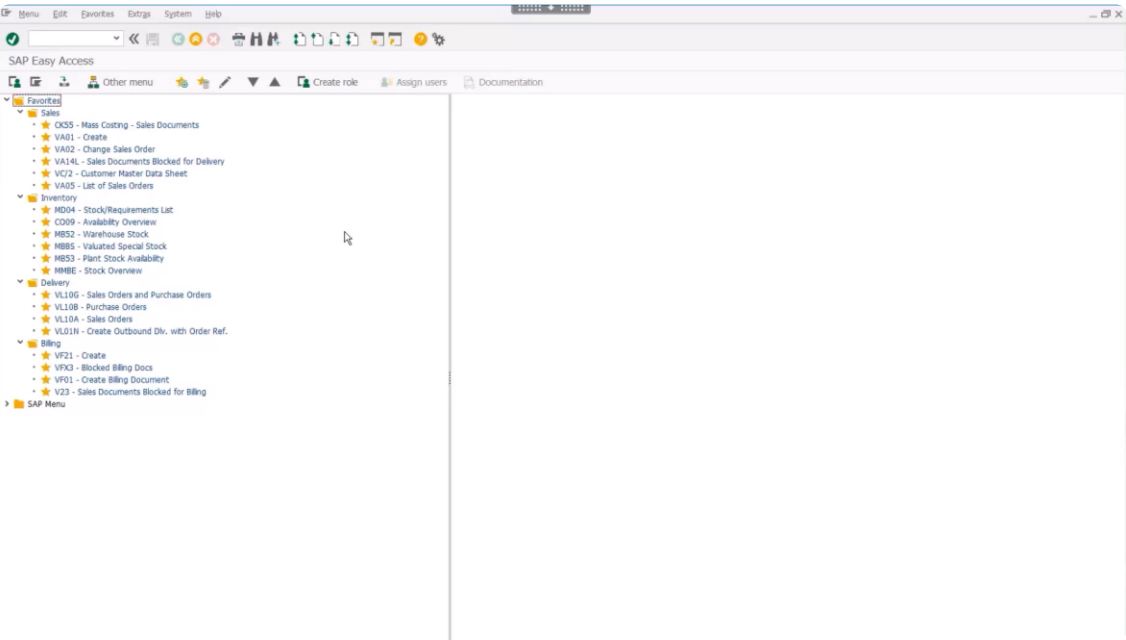
# SAP Cloud ERP Private differentiators



**SAP Fiori**

# User Interface Evolution

2014

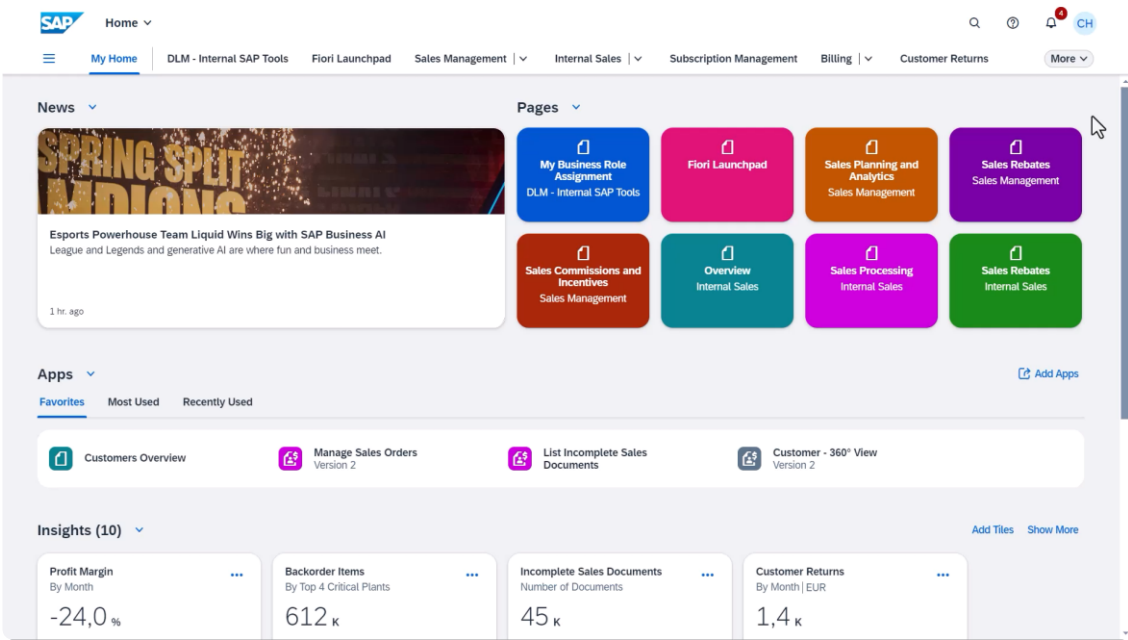


Requires expert experience

Functional

Rigid

2025

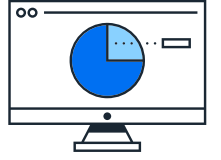


Intuitive

Intelligent, automated, self-driven

Built for agility

# SAP Fiori – Evolution



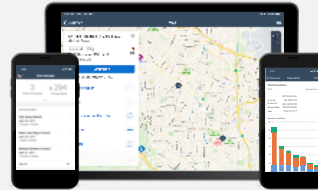
Casual users  
Self-service apps



Desktop user  
“The new face”



Native mobile  
for iOS & Android



Conversational



Next steps of SAP Fiori evolution  
SAP Fiori with Quartz



SAP Fiori with Horizon



Consistent ----->  
Intelligent ----->  
Integrated ----->  
Collaborative ----->

2013

SAP Fiori

2016

SAP Fiori 2.0

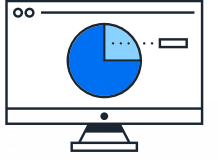
2019

SAP Fiori 3

2022+

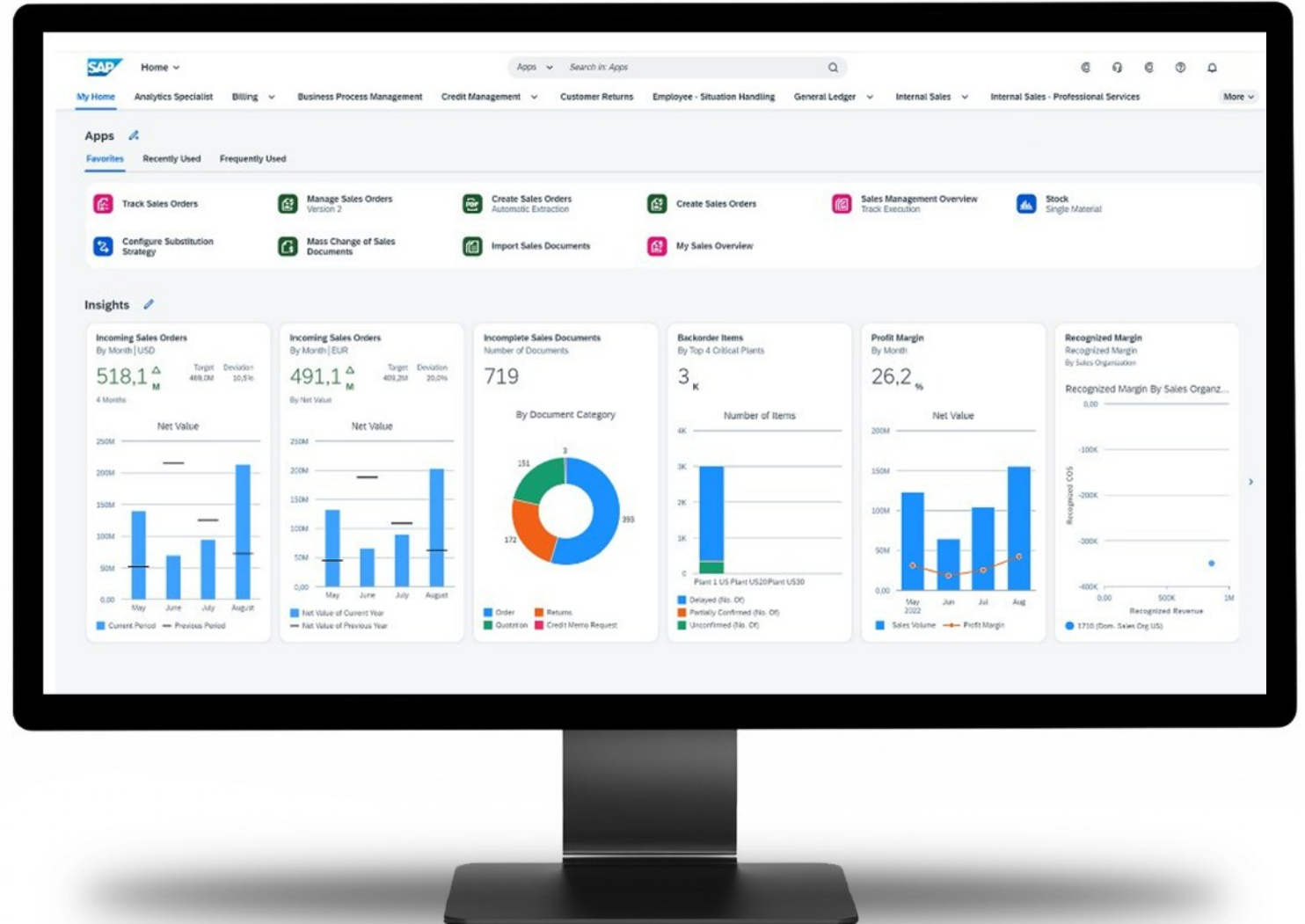
SAP Fiori with Horizon

# SAP Fiori



SAP Fiori provides an easier, more intuitive way to run SAP applications in your organization. With a focus on an intelligent, consistent, and integrated user experience, SAP Fiori can help to redefine the way you work in the age of digital transformation.

- More than 3K SAP Fiori apps
- More than 1.5K analytics
- New business models only in SAP Fiori
- More than 300 search objects
- More than 80 notification types
- More than 125 Situation Handling templates
- More than 30 machine learning scenarios
- More than 200 process automation packages in SAP Build Business Accelerator Hub
- More than 700 task tutorials
- Mix and match with more than 10K classic UIs

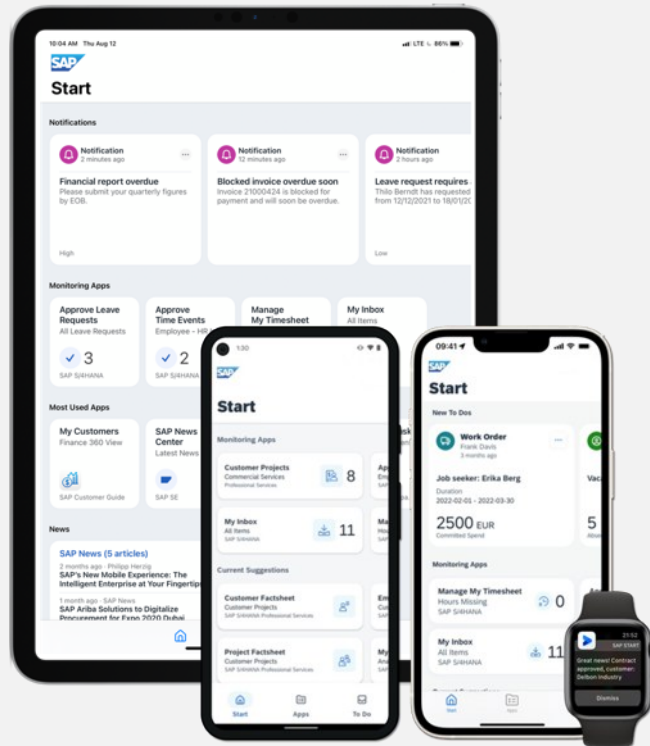


# SAP Fiori

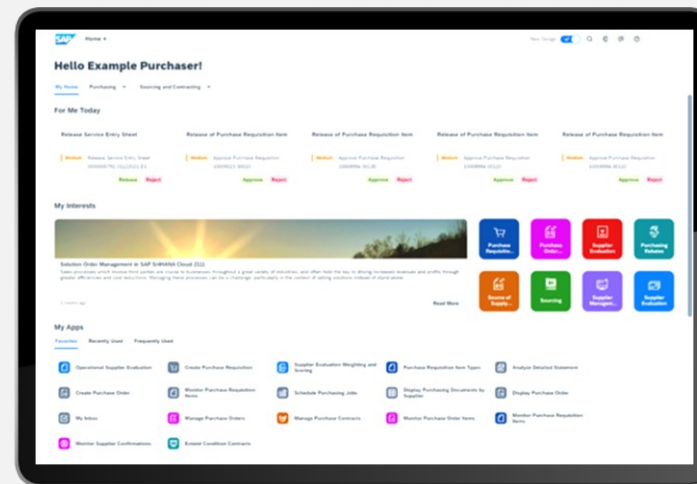
An intuitive, user-centric UX approach allowing users to connect anywhere on any device, improve productivity and adopt rapidly with built-in guidance and support



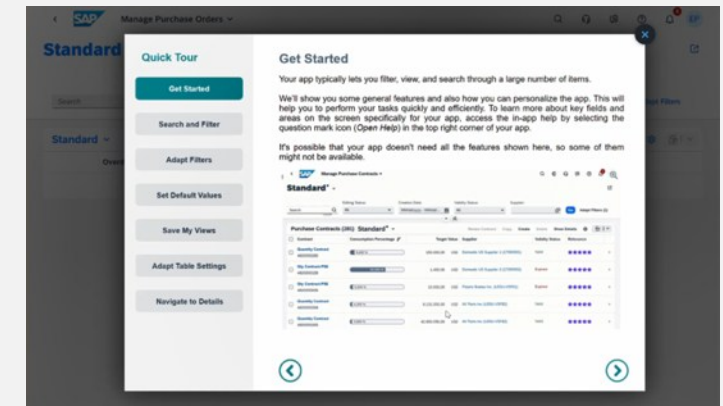
## SAP Mobile Start



## New UX – Horizon visual theme



## Embedded guidance/support



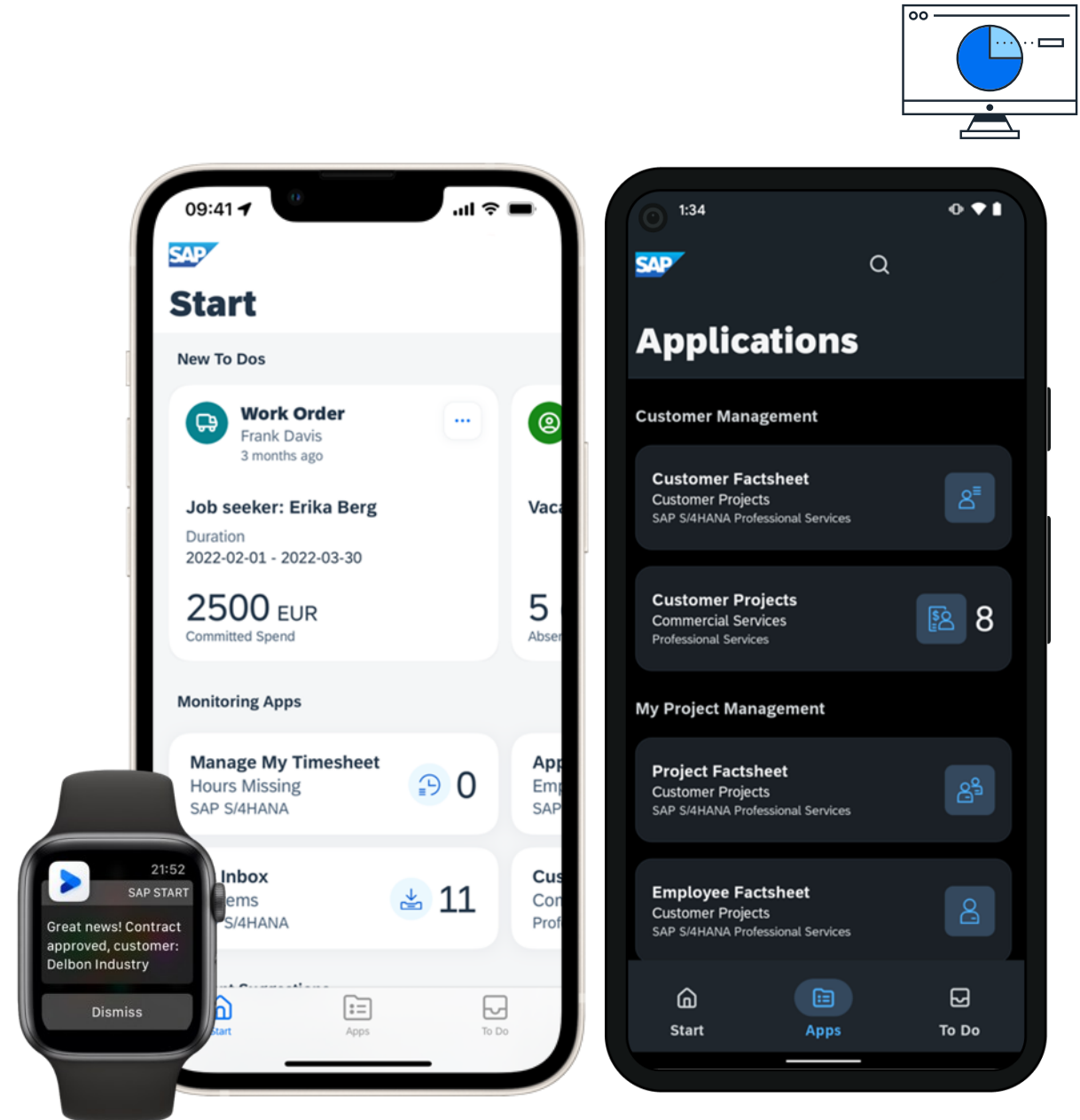
- [Learning the basics of SAP Fiori](#)
- [Discovering SAP S/4HANA embedded analytics](#)
- [Exploring the Authorization Concept for SAP Fiori on SAP S/4HANA](#)
- [SAP Fiori administration](#)
- [Learning Journey 5 Steps to Fiori](#)

# SAP Fiori – Mobile

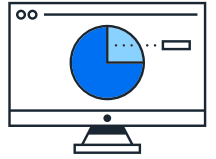
Provides a native entry point to a continuous mobile business experience for everyone, improving work agility and flexibility.

- Mobile access to native or web applications, web content, data or SAP S/4HANA Cloud Private Edition notifications to quickly address business issues
- Consumer-grade user experience designed for an intuitive and personalized native OS experience
- Integrated with SAP Task Center, enabling consolidated view on tasks and workflows for direct actions
- Enabled by SAP Build Work Zone, standard edition
- Customer-managed integration scenario
- No additional license costs

[Overview video on YouTube](#)



# SAP Fiori – New “My Home” page



Get “To Dos” list combining “My Inbox” and “My Situations” items

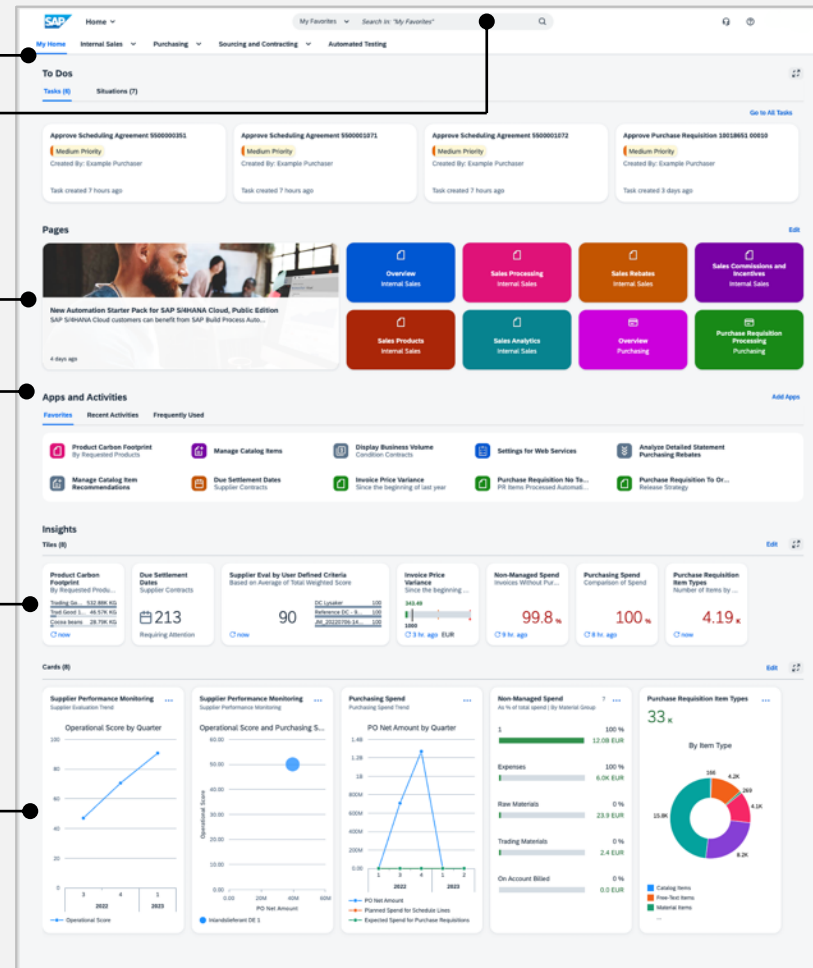
Search for and launch any of your apps instantly

Access your most critical pages quickly

Organize your most relevant apps and activities

Monitor your business thanks to dynamic or smart business tiles

Track your business trends through your pinned cards



- Access “My Home” on desktops and tablets through the product homepage
- Rely on spaces and pages
- Personalize sections, their contents, and the display order
- Identify instantly which page my app belongs to (color-coded)

What's New for SAP S/4HANA 2023 Cloud Private Edition and On-Premise (Link to Blog)

What's New for SAP S/4HANA 2025 Cloud Private Edition and On-Premise (Link to Blog)



# SAP Fiori – Collaboration

## Collaborate with your colleagues in Microsoft Teams



Share **access to critical business** issues with your co-workers **in chats**

The screenshot shows the SAP Fiori 'Manage Sales Orders' app. A Microsoft Teams sharing dialog is open, allowing the user to share the current view with a Teams chat. The dialog includes a 'Share to' field with 'Sales Processing' selected, a text area with a message, and a 'Share' button. The background shows a list of sales orders with columns for Sales Order, Sold-to Party, Customer Reference, Requested Delivery Date, and Overall Status.

Sales Order	Sold-to Party	Customer Reference	Requested Delivery Date	Overall Status
325604	SK Vision Corp-C (1000294)	20230225	02/28/2023	
325603	SK Vision Corp-C (1000294)	20230224	02/27/2023	
325602	SK Vision Corp-C (1000294)	20230224	02/27/2023	
325601	Tech Bike Corp-W (1000292)	20230224	02/26/2023	
325600	SK Vision Corp-C (1000294)	20230224	02/27/2023	
325597	SK Vision Corp-C (1000294)	20230224	02/27/2023	
325596	SK Vision Corp-C (1000294)	20230224	02/27/2023	
325591	NK Bikes-S (1000291)	20230224	02/27/2023	

Make critical business issues **part of your Teams channels**

The screenshot shows the Microsoft Teams interface with the SAP Fiori 'Manage Sales Orders' app embedded in a channel. The app displays a list of sales orders with columns for Sales Order, Sold-to Party, Customer Reference, Requested Delivery Date, and Overall Status. The Teams interface includes a search bar, a list of teams, and a chat area.

Sales Order	Sold-to Party	Customer Reference	Requested Delivery Date	Overall Status
325604	SK Vision Corp-C (1000294)	20230225	02/28/2023	
325603	SK Vision Corp-C (1000294)	20230224	02/27/2023	
325602	SK Vision Corp-C (1000294)	20230224	02/27/2023	
325601	Tech Bike Corp-W (1000292)	20230224	02/26/2023	
325600	SK Vision Corp-C (1000294)	20230224	02/27/2023	

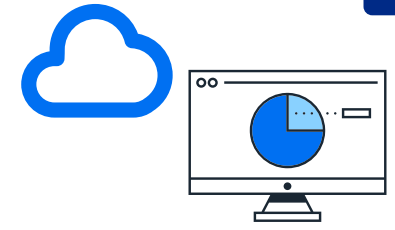


- [illegible]



# SAP Cloud ERP Private differentiators

**Joule**

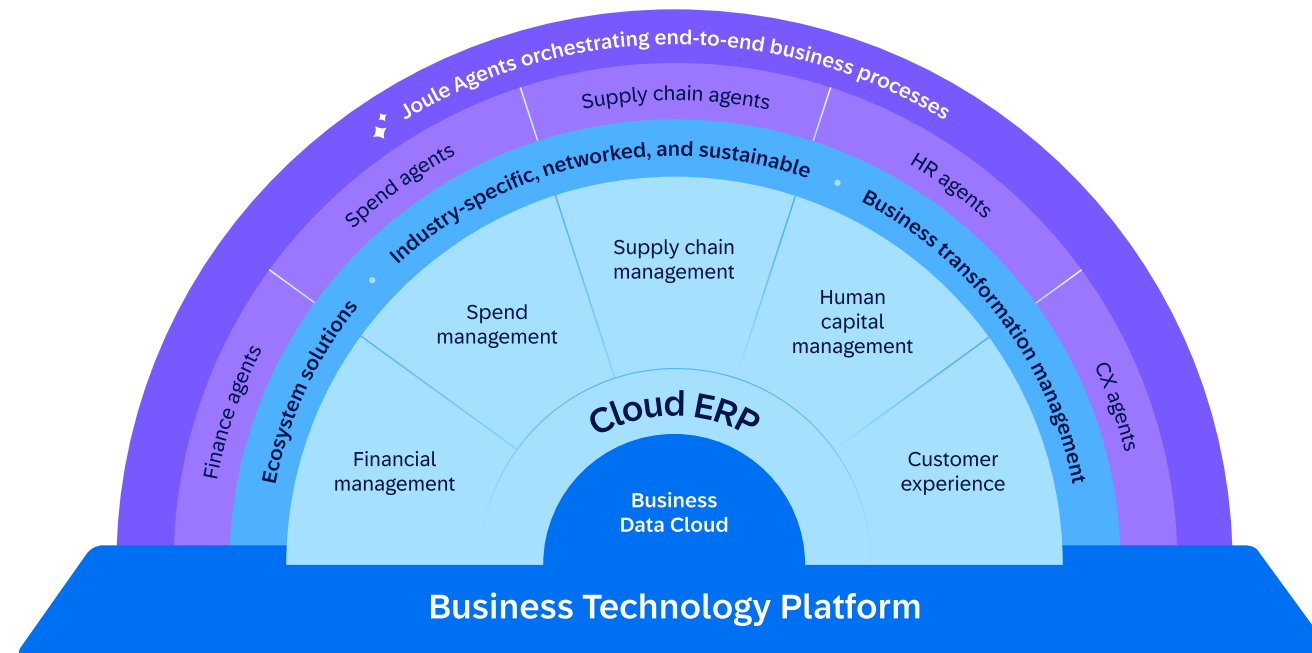


# Joule: Infused across the SAP cloud portfolio

Unified Cross User Experience

Natively Embedded Chat UI

Out of the Box Capabilities



## Agility for all

Give your people more efficient ways of working so they can get more done, faster

## Insights at scale

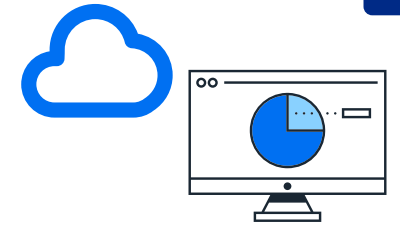
Give employees immediate, context-rich insights that connect the dots across lines of business to support more effective decision-making.

## Simple and secure

Accomplish tasks quickly across your SAP and third-party systems through a single, integrated, and secure conversational interface.

## Limitless outcomes

Break down siloes with collaborative AI agents capable of reasoning and prioritizing to solve high impact challenges.



# Joule: Infused across the SAP cloud portfolio



**Continuous Progress** to deliver a rich User Experience

**Joule's objective** is to deliver a comprehensive library of **skills & capabilities** across SAP cloud applications, significantly **enhancing efficiency for key business personas**.

As SAP **continues to expand Joule's capabilities** across all SAP cloud applications, customers will also be able to **develop their own Joule skills** using Joule's extensibility offering.



# Joule: Learn how you can interact with Joule

## Four patterns

### Informational

**Joule**

Supplier: Inlandsieferant DE (10100088)  
Net Value: 3000.00 EUR

**PO: 4500000036**  
Supplier: Inlandsieferant DE (10100088)  
Net Value: 80.88 EUR

[Open](#)

[Open in App](#) [View More](#)

What are the key rules for a team outing?

BestRun provides an allowance of 50 € per person for a team outing event organized by managers. The allowance covers travel expenses and hotel coverage if needed for colleagues from other locations. It is recommended to include at least one teambuilding event as part of the agenda. Managers should also inform employees to prefer sustainable travel options in accordance with the travel policy.

▼ Source Document

[BestRun\\_Employee\\_Policy.docx](#)  
Source: Company-Specific Document

Message Joule...


### Navigational

**Joule**

Company Best Run  
Location San Francisco, CA  
Department Product Engineering  
Cost Center 25ef

You can change something else or send the position for approval. You can also say "cancel" to exit the flow at any time.

[Send for Approval](#)



**Position sent for approval**  
Arya Smart is approving your request for Sustainability Supply Chain Consultant. View more in Org Chart.

[Go to Org Chart](#)

Message Joule...

### Transactional

**Joule**

Which other position detail would you like to amend? Say "done" when you're ready to move to next step.

[Done](#)

Below are the new position details set to be hired starting today.

**Key Position Details**

Position Name	Sustainability Supply Chain Consultant
Job Code	010405
Job Title	Sustainability Supply Chain Consultant
Regular / Temporary	Regular
Company	Best Run
Location	San Francisco, CA
Department	Product Engineering
Cost Center	25ef

[Send for approval](#)

Message Joule...

### Analytical

**Joule**

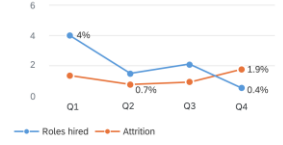
**SF006 Location Guide**

1. Ensure diverse and cross-role/ cross-skills interviewer team
2. Do not involve colleagues who are in the probationary period
3. Neutral & fact-based feedback/ recommendation...

What is the hiring versus attrition trend for this job role in the past 12 months?

**Sustainability Supply Chain Consultant**  
Attrition versus Hiring Rate, Best Run, 2024

124 Similar Roles Hired      6 Role Attrition



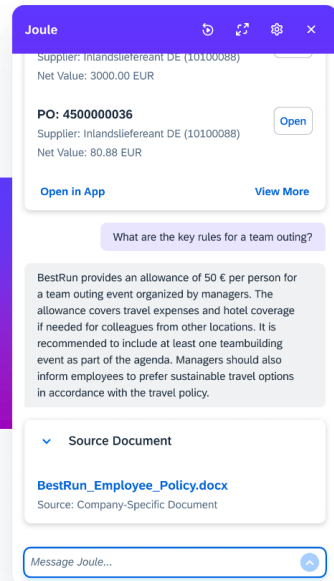
Message Joule...



# Joule: Learn how you can interact with Joule

## Informational pattern

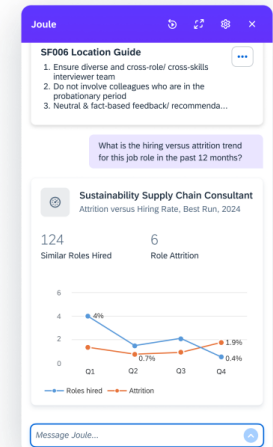
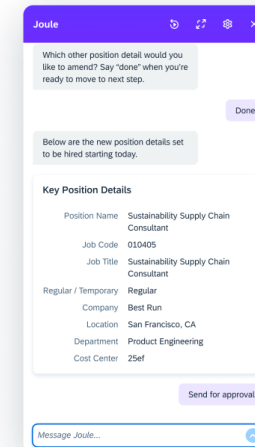
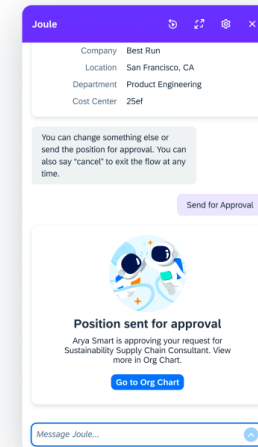
### Informational



With **informational interactions**, Joule provides knowledge-based results.

Information based on **SAP help documentation** will be available for all SAP cloud applications.

With **document grounding**, you can upload your own content, such as HR & travel policies or FAQs.

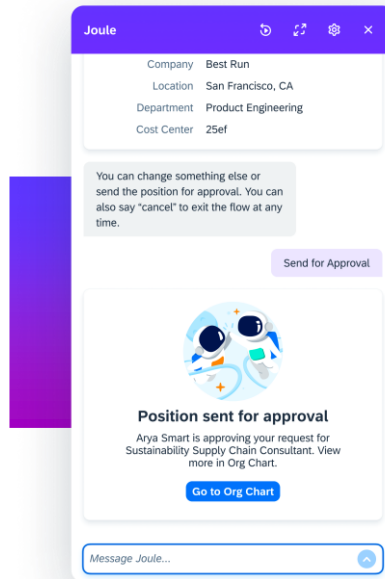
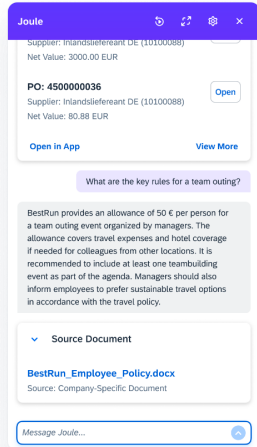




# Joule: Learn how you can interact with Joule

## Navigational pattern

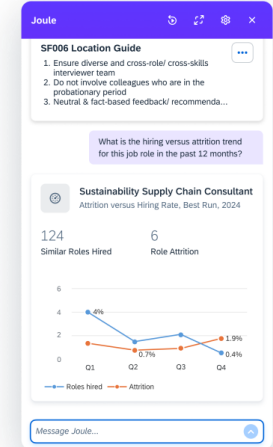
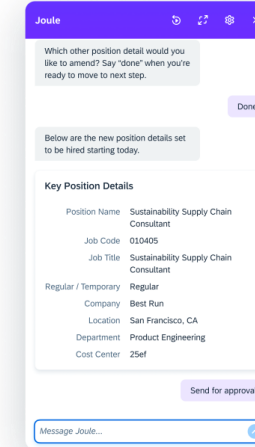
### Navigational



With Joule, you can **easily navigate across SAP products** with navigational interactions.

**Joule** offers a navigational link that opens the relevant application and interface in a new browser tab.

**At the destination**, you can continue from where you left off, with your previous conversation history and context intact.

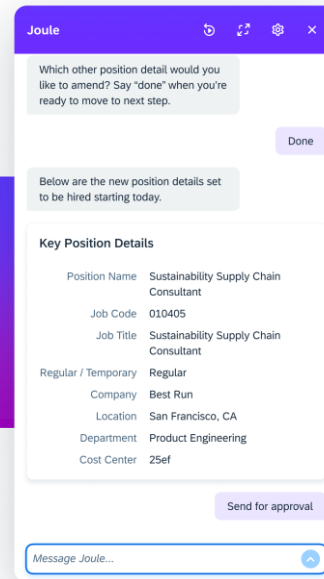
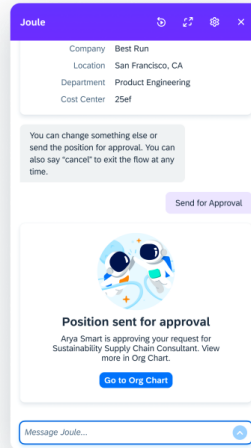
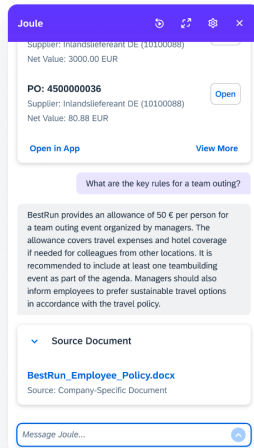




# Joule: Learn how you can interact with Joule

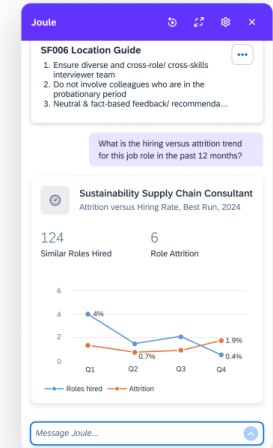
## Transactional pattern

### Transactional



**Transactional interactions** allows you to access backend systems and manage business processes through natural language and AI.

This includes tasks like **approving purchase orders, creating job positions, or other actions** (create, read, update, delete) across SAP business processes.



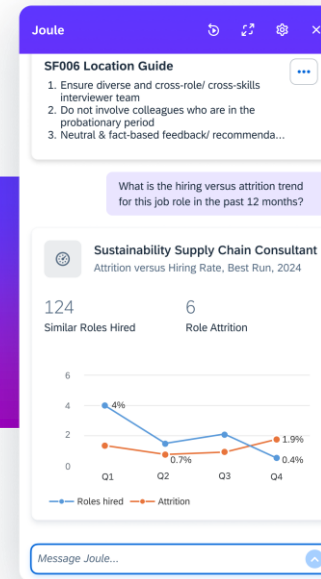
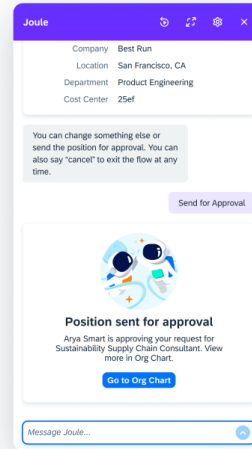
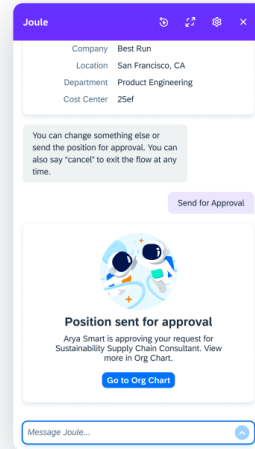
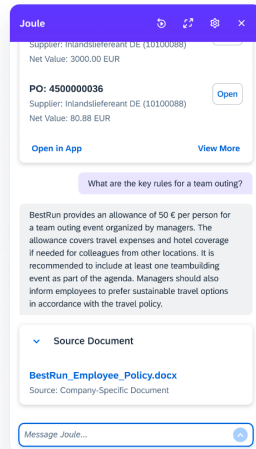




# Joule: Learn how you can interact with Joule

## Analytical pattern

### Analytical



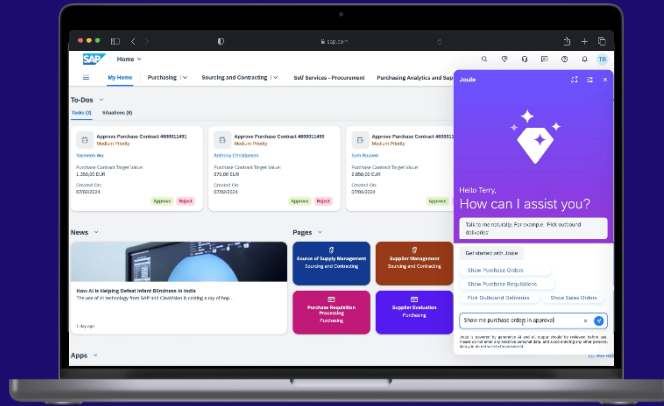
Joule supports **analytical interactions**.

You can ask analytical questions while Joule leverages **JustAsk in SAP Analytics Cloud** to provide analytical insights.\*

In 2025, we aim to integrate Joule into **SAP Analytics Cloud** and enhance Joule's analytical capabilities with the power of **SAP Business Data Cloud**.



# Joule in SAP Cloud ERP Private



## Joule for SAP Cloud ERP Private

empowers users to execute their everyday tasks more efficiently and express their business requirements in natural language.

Users can quickly navigate to applications, gain fast insights into critical business data, receive help based on SAP help documentation and run business scenarios.

## Example overview of skills

### Transactional

“Show me maintenance order 916233”

“Give me an overview of the material documents”

“Show me the master data for business partner XYZ”

### Navigational

“Where can I see overdue purchase requisitions?”

“Find apps to check item quantity in purchase order 012345678”

“Are there apps for uploading a supplier invoice?”

“Where can I see overdue purchase requisitions?”

### Informational

Answer questions on SAP help documentation with direct navigation to sources

## Links

### SAP Cloud ERP Private

[SAP.com](#) [SAP Discovery Center](#) [SAP Community Blog Post](#)

[Interactive Value Journey](#) [SAP Help Documentation](#)

[Navigational and Transactional capabilities with Joule in SAP S/4HANA Cloud Private Edition](#)





# SAP Cloud ERP Private differentiators

Joule: Learn how you can interact with Joule—Across lines of business

## Procurement



Joule for purchase requisitions, purchase orders and supplier invoices



## Supply Chain



Joule for outbound deliveries



## Manufacturing



Joule for production orders and process orders



## Sales



Fetch sales order and billing document information using Joule



Joule for sales orders, solution quotations and billing documents



Mass change of sales orders using Joule



## Service



Joule for service confirmations



Joule for service orders and in-house service objects



Release Service Orders and Service Order Items using Joule



## Finance



Joule for G/L Account Balance and Line Items



Joule for subscription order and subscription contract



Joule for accountants, cash managers and project controller



Joule for convergent invoicing and contract accounting



## R&D



Joule for BOM for transactions and navigation



Joule for change records for transactions and navigation



Joule for project assistants



## Asset Management



Using Joule for Perform Maintenance Jobs



Using Joule for Maintenance Orders and Notifications



Using Joule for create and View Maintenance Events



## Cross Functional



Manage Business Partners using Joule



Display Product Master using Joule



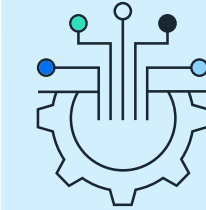
# SAP Cloud ERP Private differentiators



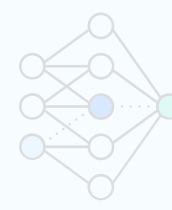
Real-time insights  
with SAP HANA,  
embedded  
analytics, data  
products and  
intelligent  
applications



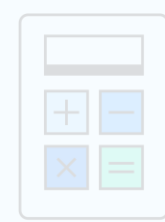
Cohesive User  
Experience with  
SAP Fiori and  
Joule



**Improve efficiency  
with Business AI  
and intelligent  
technologies**

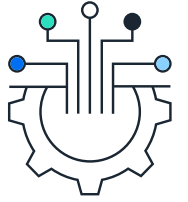


Transform your  
business with new  
processes and  
functionalities



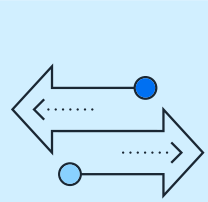
Excellence in  
cloud operations  
with all-in-one  
cloud ERP  
management

Access to  
packaged  
applications



# Intelligent technologies

Harnessing the power of artificial intelligence technologies across business processes



Interact with  
SAP Collaboration  
Manager and  
Joule Agents



Optimize with  
SAP Business AI  
embedded in  
business  
processes



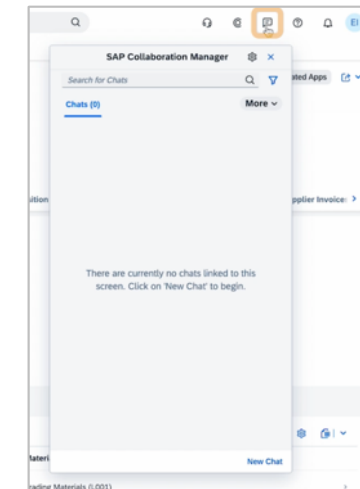
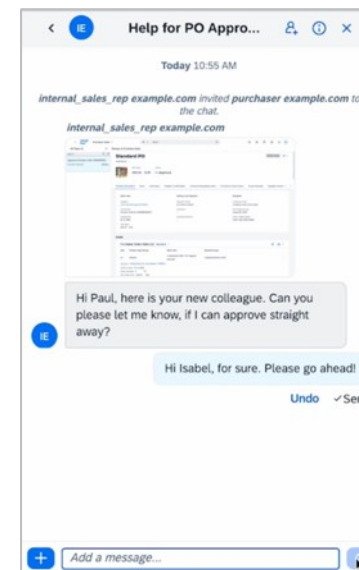
Anticipate with  
Situation  
Handling

# Intelligent technologies

## Interact

The **SAP Collaboration Manager** provides chat capabilities for Peer-to-Peer communication and collaboration, enriched with Business Context

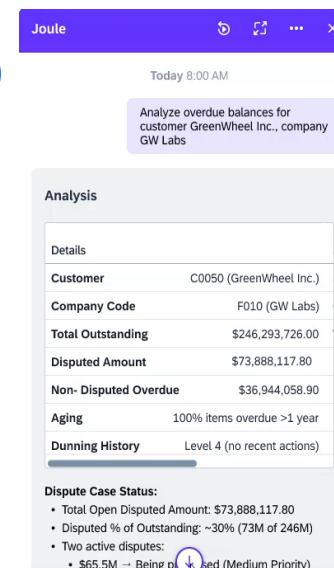
- Conversation
- Screen Capture
- Contextual Business Object Capture for real-time access



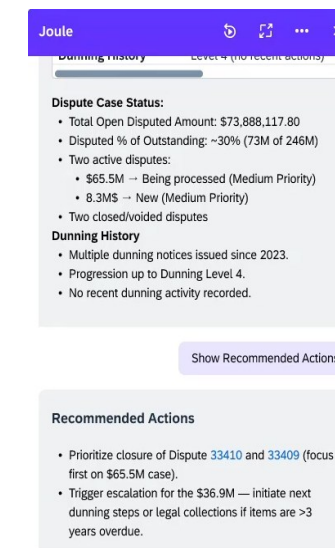
**Joule Agents** are AI agents embedded into every business function and accessed with role-based assistants. They use SAP's process expertise to automate complex workflows and deliver AI value at scale:

- Save costs in every function
- Realize AI value at scale
- Accelerate complex workflows

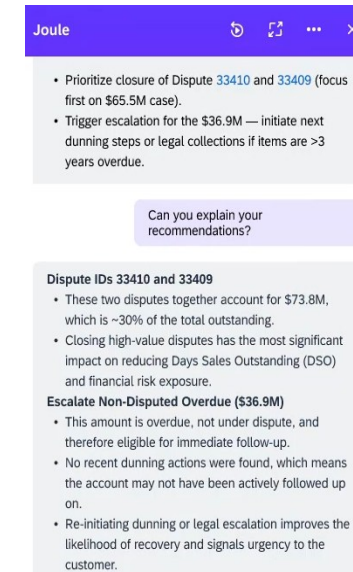
Explore [Discovery Center for Agents](#)



Analyze overdue balances



Recommend Actions



Explain recommendations

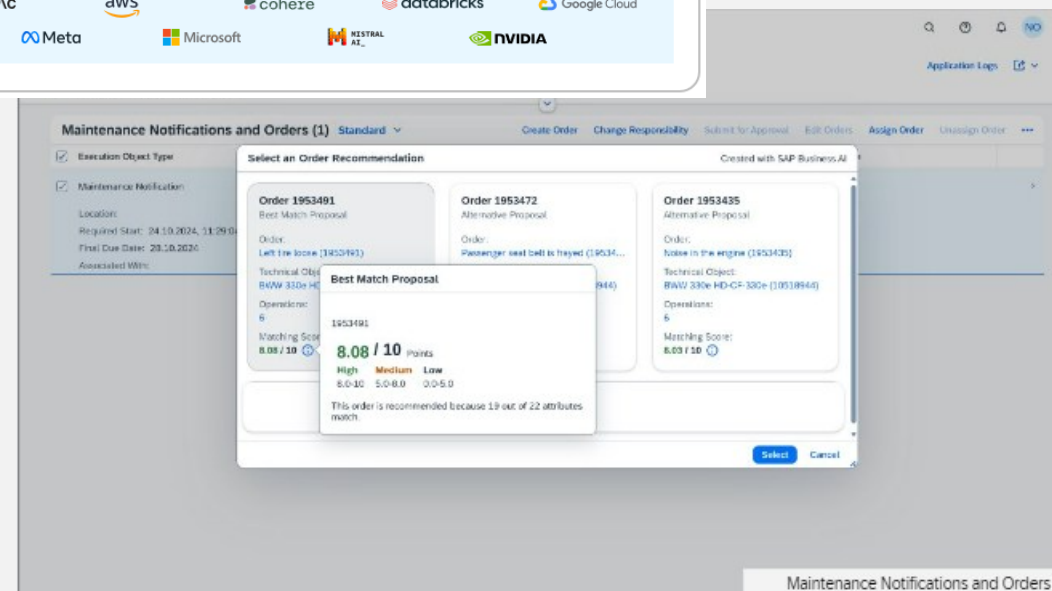
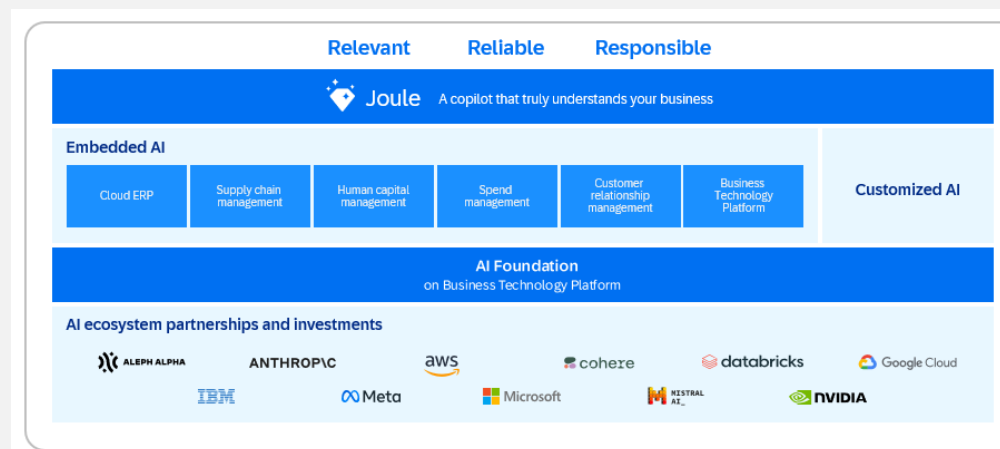


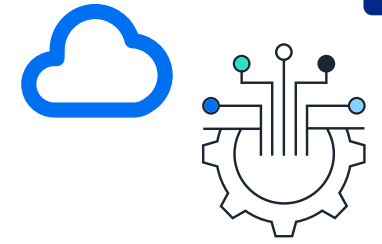
# Intelligent technologies

## Optimize – with SAP Business AI

- Learn from customer specific history and exceptions to predict, support specific steps or automate business user decisions
- Embed moderate ML requirements like Forecasting, Trending, Recommendation and Data Extraction in SAP Cloud ERP Private
- Accelerate business processes through context-aware AI and AI-augmented user experiences
- Usage of SAP AI Services like:
  - Document Information Extraction
  - Personalized Recommendation

[Link to SAP Business AI](#)





# SAP Cloud ERP Private differentiators

## SAP Business AI across the lines of business

### Supply Chain



AI-assisted creation of inbound cargo and shipping documents



Machine learning based planned execution times for warehouse tasks



AI-assisted conversational planning in Transportation cockpit



### Manufacturing



AI-based explanation assistant of "Detailed Scheduling Optimizer" results



### Sales



AI-assisted monitoring and resolving sales order fulfillment issues.



### Service



AI-assisted in-house service initiation



AI-assisted equipment summary



### Finance



Dispute Resolution Agent, and Accounts Receivables Agent\*



AI-assisted Journal Upload



### Asset Management



AI-assisted maintenance order recommendation



Maintenance Planner Agent\*



### Cross Functional



MDG: Assisted Changes and Summarization of Change Requests



MDG: Assisted Change for "Custom Objects"





# Intelligent technologies

## Anticipate – Situation Handling



### Business situations requiring attention like

- Exceeding budgets
- Nearing deadlines or pending confirmations
- Expiring or consumed contracts, ...

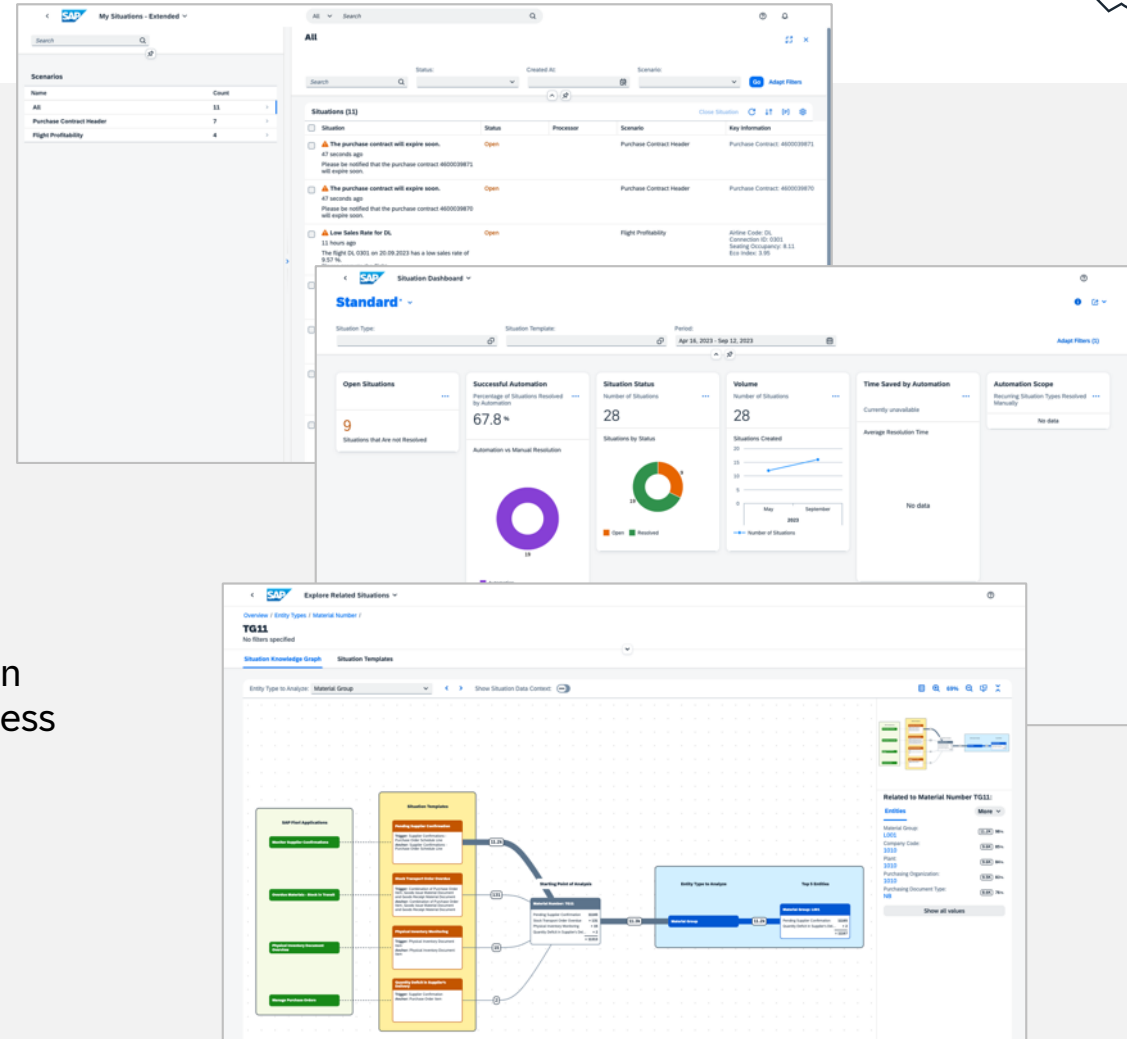
... can have severe consequences, if not handled properly and timely:

- Avoidable costs
- Frustrated staff
- Loss of customers

### Situation Handling – to Resolve Issues Requiring Attention

- Identify urgent and important business issues requiring attention
- Automatically inform the right group of users to speed up business
- Intelligent support to make the right decisions
- Optimize the business processes continuously
- Monitoring capabilities and data context creation enable advanced analytics and automation

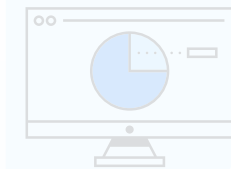
[Link to documentation](#)



# SAP Cloud ERP Private differentiators



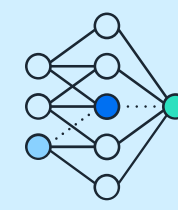
Real-time insights  
with SAP HANA,  
embedded  
analytics, data  
products and  
intelligent  
applications



Cohesive User  
Experience with  
SAP Fiori and  
Joule



Improve efficiency  
with Business AI  
and intelligent  
technologies

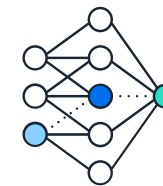


**Transform your  
business with new  
processes and  
functionalities**












Excellence in  
cloud operations  
with all-in-one  
cloud ERP  
management

Access to  
packaged  
applications



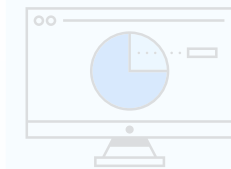
# New and updated processes and functionalities

<p><b>Procurement</b> </p> <ul style="list-style-type: none"> <li>Central procurement*</li> <li>Product sourcing</li> <li>Carbon footprint in procurement</li> <li>Service procurement</li> <li>Supplier evaluation</li> <li>Catalog buying</li> </ul>	<p><b>Supply Chain</b> </p> <ul style="list-style-type: none"> <li>Extended warehouse management</li> <li>Advanced available to promise</li> <li>Direct delivery</li> <li>Advanced shipping and receiving</li> <li>Extended service parts management*</li> <li>Greenhouse gas emissions</li> <li>Unified package builder</li> </ul>	<p><b>Manufacturing</b> </p> <ul style="list-style-type: none"> <li>Accelerated MRP (live)</li> <li>Predictive MRP</li> <li>Production engineering and operations (PEO)</li> <li>Embedded constraint-based planning (PPDS)</li> <li>Supply-creation-based confirmation</li> </ul>	<p><b>Sales</b> </p> <ul style="list-style-type: none"> <li>Advanced intercompany</li> <li>Condition contract management</li> <li>Solution business</li> <li>Sales force support</li> <li>Sales order automation</li> </ul>	<p><b>Service</b> </p> <ul style="list-style-type: none"> <li>Service with advanced execution</li> <li>In-house repair with advanced Execution</li> <li>Item-based accounting in service</li> <li>Combined field service and in-house repair</li> </ul>
<p>Universal journal</p> <p>Group reporting</p> <p>Central finance*</p> <p>Multi-bank connectivity</p> <p>Document and reporting compliance</p> <p>Financial compliance management</p> <p><b>Finance</b> </p>	<p>Product compliance</p> <p>Advanced variant configuration</p> <p>Software constraints</p> <p>Change record</p> <p><b>R&amp;D</b> </p>	<p>Phase-based maintenance Process</p> <p>Work packs</p> <p>Asset performance analysis</p> <p><b>Asset management</b> </p>	<div> <p>Key-user and developer extensibility</p> <p>Responsibility management</p> <p>Enterprise search</p> <p>Master data governance</p> </div> <div> <p>Flexible workflow</p> <p>Intelligent scenario lifecycle management</p> <p>Integrated Business Communications*</p> <p>Cross-topic</p>  </div>	

# SAP Cloud ERP Private differentiators



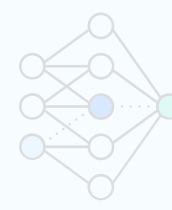
Real-time insights  
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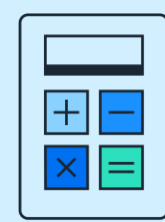
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Improve efficiency  
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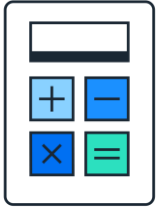


Transform your  
business with new  
processes and  
functionalities



Excellence in  
cloud operations  
with all-in-one  
cloud ERP  
management

Access to  
packaged  
applications



# Excellence in Cloud Operations

## All-in-one cloud ERP management

SAP as your one trusted partner — running, monitoring, and updating your private cloud, while giving you visibility into operations and control over your business processes.



### Management & support

Streamlined business continuity with AI-driven monitoring, support, and issue resolution.



### Security & resiliency

Built-in cybersecurity, certified compliance, and data protection safeguards.



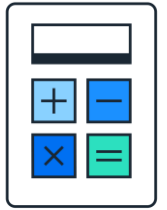
### Scalability & agility

Flexible deployments that adapt and grow with your business needs.

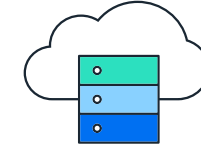
L100: SAP Cloud ERP Private | Operate with security, agility, and end-to-end support.

# Excellence in Cloud Operations

## All-in-one cloud ERP management



On-premise or IaaS



SAP Cloud ERP Private

### Management and Support

Experience One-unified-SLA from infrastructure to application



Get AI powered support with SAP Cloud ALM



10,000+ SAP experts available to manage and support



### Security and Resiliency

Benefit from SAP's security tools and 3<sup>rd</sup> party collaborations



Use SAP's purpose built backup and disaster recovery solutions



Reduce audit stress with audit-ready reporting from SAP



### Scalability and Agility

Scale infrastructure reliably — with predictable costs and no surprises



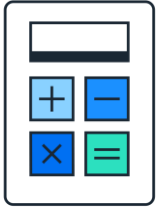
On-demand premium services from trusted SAP experts and certified partners



Truly reduce total cost of IT ownership



# Access to packaged business applications



Leverage modern cloud business applications with continuous innovation and the latest standard capabilities. Gain financial agility across your supply chain through integrated solutions, enhancing visibility, control, and a connected experience.

Advanced finance capabilities

SAP Analytics Cloud  
for planning

Shared services management

SAP Enterprise Service  
Management

Working capital management

SAP Taulia

Advanced procurement  
capabilities

SAP Business Network  
Supplier Portal for SAP  
Cloud ERP Private

[Learn more about the SAP  
Cloud ERP Private Package](#)

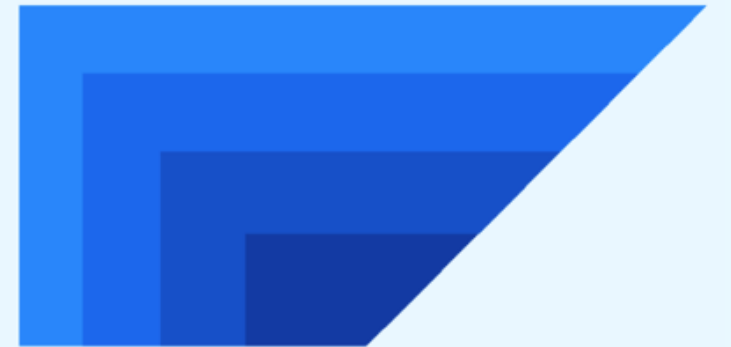


[Press release for SAP Cloud  
ERP Private Package](#)



[L100: SAP Cloud ERP Private Package](#)

# Compatibility Scope





# Compatibility Packs in SAP S/4HANA

## Overview



SAP grants a timely restricted<sup>(1)</sup> use right for specific classic SAP solution functionality<sup>(2)</sup> to SAP S/4HANA customers, at no extra cost<sup>(3)</sup>

(1) restricted until the end of 2025\*

(2) Positive list of compatibility packs as documented in note [2269324](#) and referenced in the Software Use Rights (SUR, on-premise) / Service Description Guide (SDG, cloud)

(3) condition: customer has licensed SAP S/4HANA and the classic solution

Compatibility Packs are only required for solutions which are installed on the SAP S/4HANA instance – not for side-by-side installations.

SAP has delivered and keeps developing genuine S/4HANA go-to solutions for most compatibility packs up to and with release 2023.

# Compatibility Packs in SAP S/4HANA

## CP Matrix and Licensing



A CP is an **S/4HANA compatible copy** of a “classic” = Business Suite software product.

All CPs are listed on the **Compatibility Scope Matrix**. It contains:

- complete or partial solutions
- LoB/Industry- and ERP Core solutions
- Additional information to better identify the scope and cross-link information (as applicable – application component, link to Simplification Item, ID)

The CP Matrix is **release-independent and static**. CPs exist in SAP S/4HANA **on-premise and private cloud edition**.

Licensing example: Net new customer from the Chemicals Industry:

- Customer licenses:
  - SAP S/4HANA Enterprise Management users [ 7018652, 7018653, 7018654 ]
  - SAP EHS Management, Product Safety [ 7010170 ] -> on CP matrix
- Customer may install EHS-Product Safety (a) on-stack on his S/4HANA system or (b) side-by-side

SAP S/4HANA Compatibility Scope Matrix (Expiration Date: December 31, 2025)

Item ID	Material	Classical Solutions Name	SAP S/4HANA Compatibility Pack Solutions*	Type***	Subcomponent
Part 1: Universal Compatibility Packs					
101	7002928	SAP Payroll Processing for Non-profit Organizations	CP-SAP Payroll Processing for Non-profit Organizations	U	complete solution
102	7009037	SAP EHS Management: product and REACH compliance	CP-SAP EHS Management: product and REACH compliance	U	complete solution - does not contain SAP REACH Compliance, cf. note 2267423
103	7009233	SAP Remote Logistics Management for Oil&Gas	CP-SAP Remote Logistics Management for Oil&Gas	U	complete solution
104	7009240a, b	SAP Merchandising for Retail	CP-SAP Merchandising for Retail-U**	U	AFS Integration, Power Lists, Additional POS Outbound, Sales Forecasting, Replenishment Retail Demand Management Integration, Closed loop BW scenarios Markdown Plan Bonus Buy
105	7009814	SAP Financial Closing cockpit	CP-SAP Financial Closing cockpit	U	complete solution
106	7010164	SAP Payment Engine	CP-SAP Payment Engine	U	complete solution
107	7010170	SAP EHS Management, product safety	CP-SAP EHS Management, product safety	U	complete solution
108	7011057	SAP Bank Communication Management, option for multisystem payment consolidation	CP-SAP Bank Communication Management, option for multisystem payment consolidation	U	complete solution
109	7011091	SAP Common Area Maintenance Expense Recovery	CP-SAP Common Area Maintenance Expense Recovery	U	complete solution
110	7012023	SAP Service Station Retailing for O&G	CP-SAP Service Station Retailing for O&G	U	complete solution
111	7015835	SAP SAP Enterprise Integration for Work Manager mobile app	CP-SAP Enterprise Integration for Work Manager mobile app **	U	"Mobile AddOn for ERP 6.2"
112	7016033	SAP Tax Classification and Reporting	CP-SAP Tax Classification and Reporting	U	complete solution
113	7016118	SAP Enterprise Integration for Inventory Manager mobile app	CP-SAP Enterprise Integration for Inventory Manager mobile app **	U	"Mobile AddOn for ERP 6.2"
114	7016733	Asset management for oil & gas	CP-Asset management for oil & gas	U	complete solution
115	7017275	SAP Multiresource Scheduling	CP-SAP Multiresource Scheduling	U	complete solution
116	7017276	SAP Multiresource Scheduling with Optimizer	CP-SAP Multiresource Scheduling with Optimizer	U	complete solution
117	7017373	SAP Payroll Processing	CP-SAP Payroll Processing	U	complete solution
118	7017375	SAP Shared Service Framework, Human Resources	CP-SAP Shared Service Framework, Human Resources	U	complete solution
119	7017517	SAP Equipment and Tools Management for EC&O	CP-SAP Equipment and Tools Management for EC&O	U	complete solution
120	7017524	SAP Educational Services for HER	CP-SAP Educational Services for HER **	U	Student Lifecycle Management (SLcM)
121	7017545	SAP Capital Yield Tax Mgmt, international version	CP-SAP Capital Yield Tax Mgmt, international version	U	complete solution
122	7017546	SAP Capital Yield Tax Mgmt, version for Germany / Switzerland	CP-SAP Capital Yield Tax Mgmt, version for Germany / Switzerland	U	complete solution
123	7017755	SAP Force Organization & Personnel for D&S	CP-SAP Force Organization & Personnel for D&S	U	complete solution
124	7017756	SAP Force Sustainment for D&S	CP-SAP Force Sustainment for D&S	U	complete solution
125	7018102	budget-based benefits selection	CP-budget-based benefits selection	U	complete solution
126	7018354	SAP Hydrocarbon Supply & Primary Distribution for O&G			

# Compatibility Packs in SAP S/4HANA

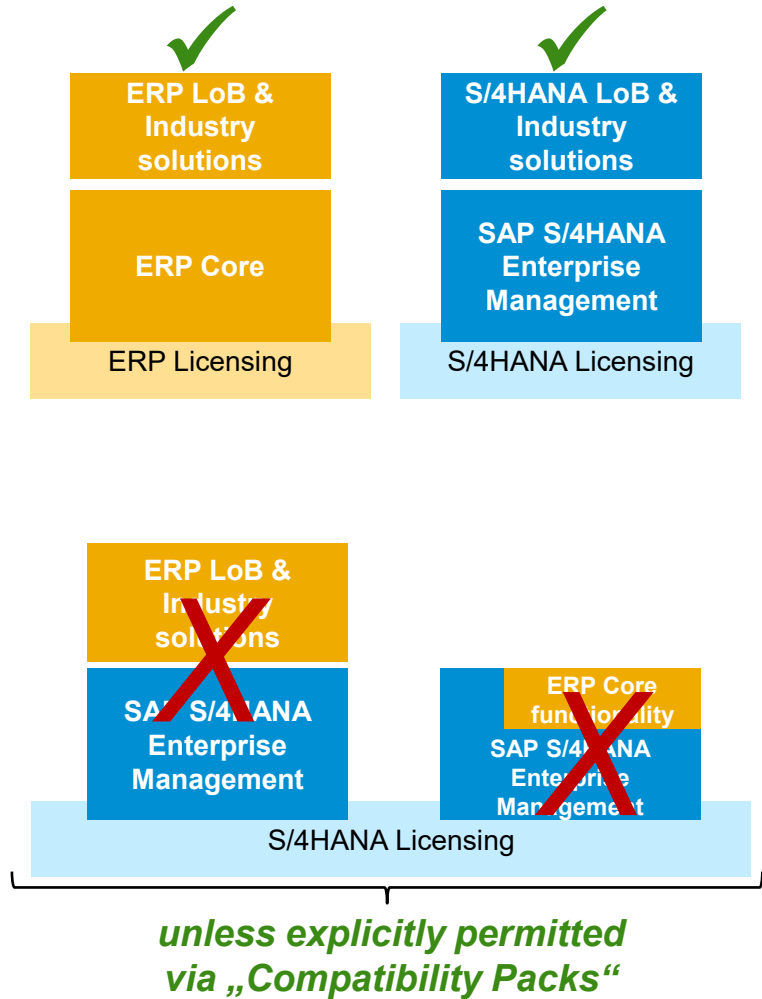
## Motivation

Why allow the use of Compatibility Packs on SAP S/4HANA?

- Make transition easier for customers using SAP ERP/Business Suite
- Allow sufficient time for redesign of business processes under S/4HANA

Only SAP S/4HANA solutions are allowed to run on an SAP S/4HANA installation

- SAP S/4HANA is a new product, not the legal successor of SAP ERP/SAP Business Suite products
- Separation of the commercial worlds is essential [via Software Use Rights (SUR)]



# Compatibility Packs in SAP S/4HANA

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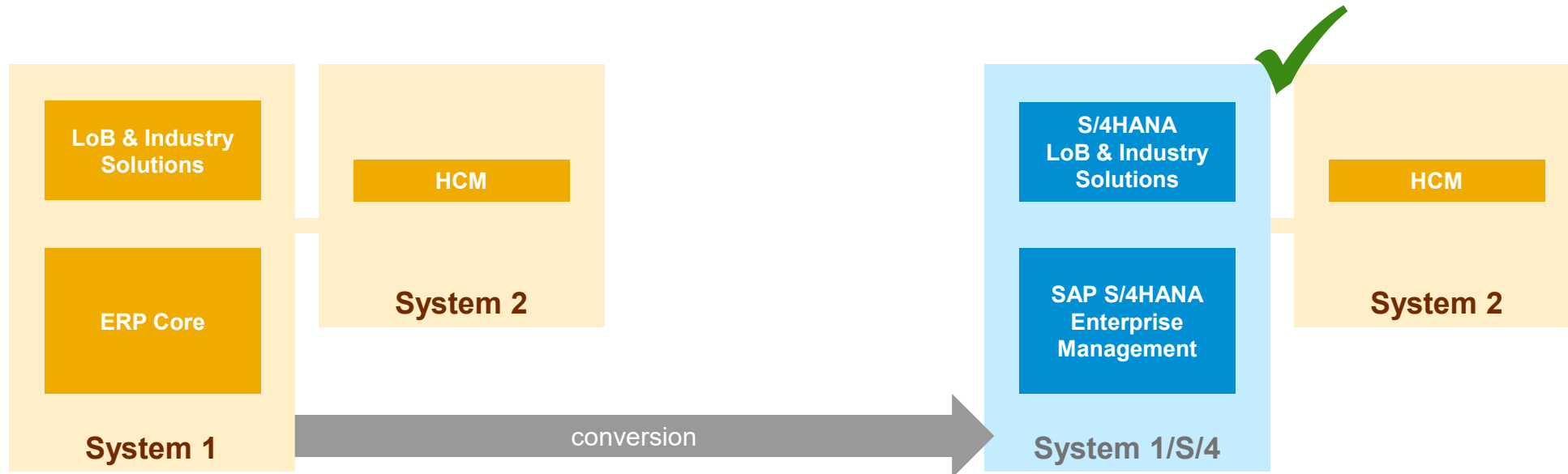
SAP has delivered and keeps developing genuine S/4HANA go-to solutions for most compatibility packs up to and with release 2023.

# Compatibility Packs in SAP S/4HANA

## A Bridge Into the New World – Side-by-side versus On-stack Installation



Running a classic SAP ERP solution side-by-side with SAP S/4HANA does not require a Compatibility Pack.

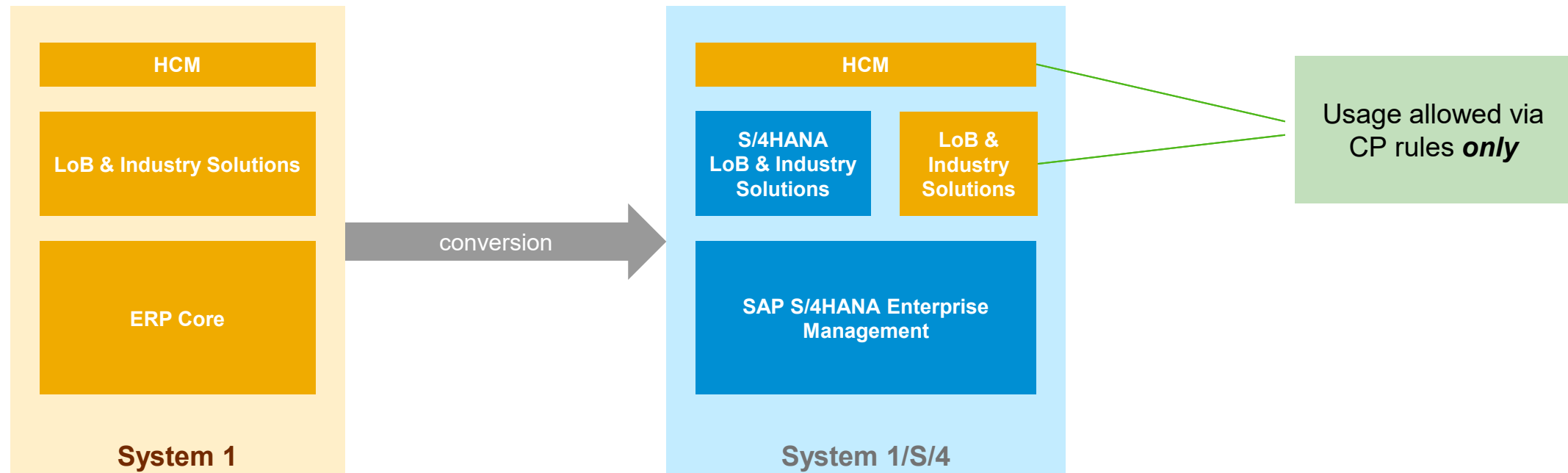


# Compatibility Packs in SAP S/4HANA

## A Bridge Into the New World – Side-by-side versus On-stack Installation



Example: HCM as **on-stack** installation



# Compatibility Packs in SAP S/4HANA

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SAP has delivered and keeps developing genuine S/4HANA go-to solutions for most compatibility packs up to and with release 2023.

# Compatibility Packs in SAP S/4HANA

## Webinars on SAP Community



(1) Overview: Recording and slides [available on youtube](#) since Sept 27, 2023

**Call to Action for SAP S/4HANA Customers: compatibility packs**

Thursday, September 27  
@10:00 CEST

 **Michael Deller**  
Senior Director Solution Management  
SAP S/4HANA Cloud

 **Roland Hamm**  
Product Manager SAP S/4HANA  
private cloud

**Compatibility Packs in SAP S/4HANA: The Way Forward in Detail**

**May 7, 2024 - 3 pm CEST**



(2) Deepdive: Recording and slides [available on youtube](#) as of May 7, 2024 in [German](#) available on youtube as of August 1, 2024



# Finance





## SAP Cloud ERP Private differentiators

# SAP HANA and Embedded Analytics

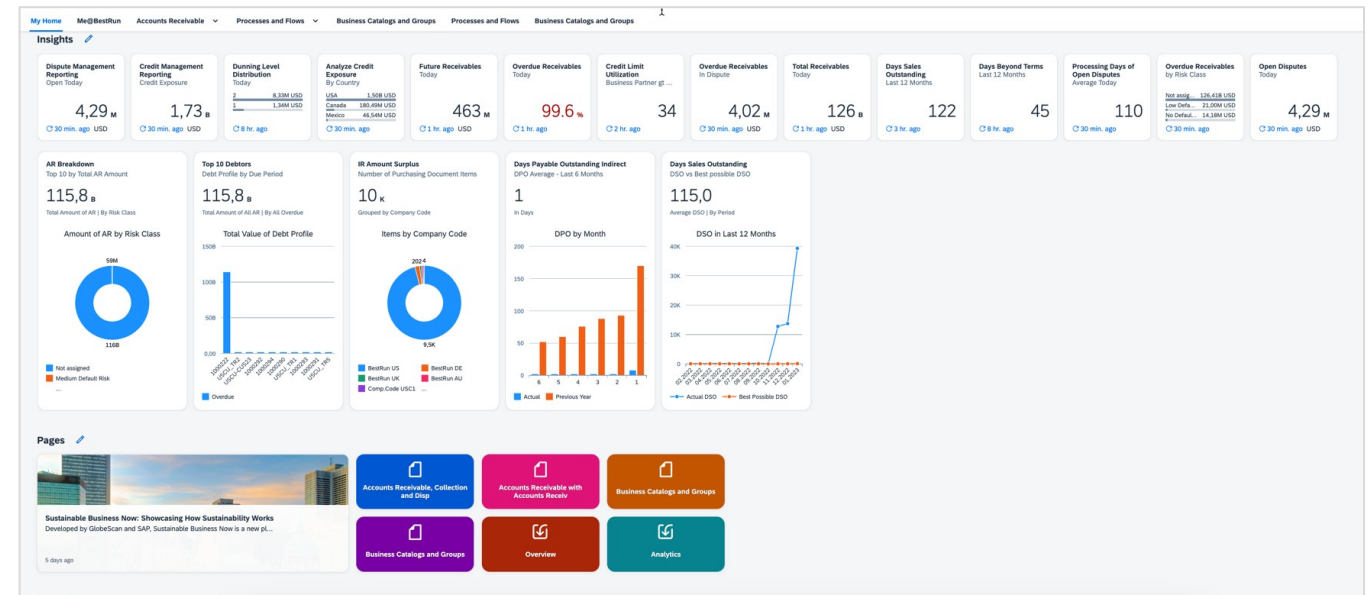


## SAP HANA and Real-time Analytics Role-based Dashboards

Control all aspects of Accounts Receivables with an embedded and real-time 360 analytics dashboard – no delay and tailored for your business

*Finance has more than 200 analytical applications – discover more [in SAP Fiori Apps Reference Library](#)!*

- **Analyze** most important **Accounts Receivables and Receivables KPIs** in one dashboard
- Out-of-the-box reports in SAP Analytics Cloud (SAC)
- Combine with other areas from Accounts Payables, Receivables Management and Treasury for instant working capital analysis
- **Real-time transactional data**
- Seamless drill down from dashboards into transactional views (**insight to action**)
- Users can **tailor the dashboard to their needs** with easy-to-use self service config tools

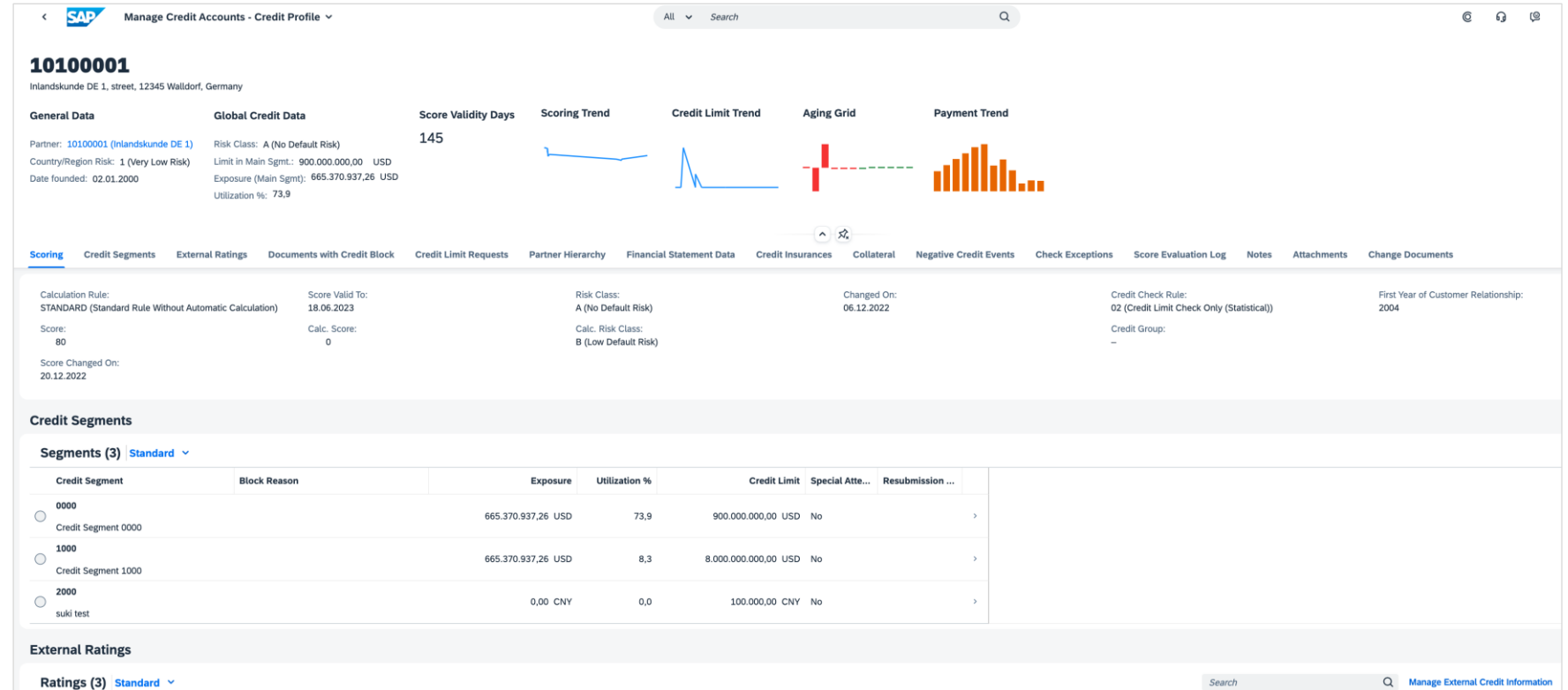




# SAP HANA and Real-time Analytics

## In-process Analytics

- Streamlined experience for the user - rather than pushing “stale” data to a separate reporting platform
- Combine analytics and processing support immediate insight-to-action processes
- Color coding and KPIs focus attention where action is needed

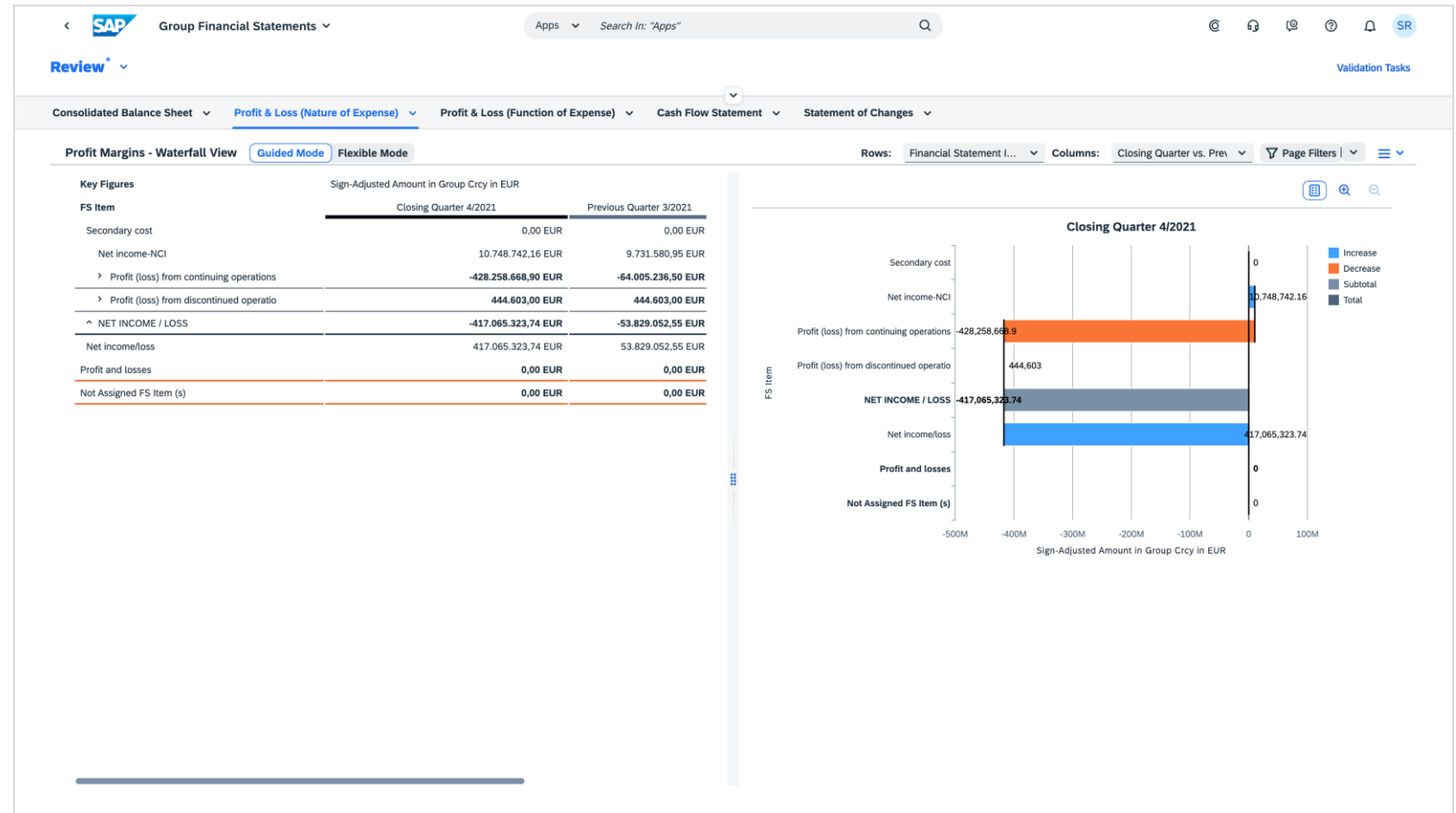




## SAP HANA and Real-time Analytics

### Review Booklet reporting format

- Group accountants need to monitor and validate multiple aspects of the financial statements during the closing process.
- Review booklets provide easier access to the data needed
- The **guided mode** with predefined pages is useful for the infrequent user
- The **flexible mode** supports interactive and expert analyses
- This paradigm for reporting is used supports other use cases as well, e.g. profitability analysis





# SAP HANA and Real-time Analytics

## Benefits of an Integrated Approach

- Build a steering model where the profit and loss statement and detailed profitability reporting are sourced from the same document
- Access asset and inventory details without jumping to a separate sub-ledger
- Improve transparency into production and maintenance thanks to additional reporting fields, such as work center and operation, in the journal entry
- Enrich project reports with customer and product details

The image displays three overlapping screenshots of the SAP HANA Analysis interface, illustrating the integrated approach to financial reporting. Each screenshot shows a different view of the same data source, demonstrating the flexibility and depth of the reporting capabilities.

**Left Screenshot:** Shows the 'Analysis' window with a 'Find' bar and a list of data sources. The 'Trial Balance' data source is selected, and a list of measures is displayed, including 'Measures', 'Account Assgmt No.', 'Account Assignment', 'Account Type', 'Activity', 'Activity Type', 'Altern. G/L Account', 'Asset Value Date', 'Assignment', 'Ast Transaction Type', 'Ast Depreciation Area', 'Billing Type', 'Budget Period', 'Bus. Transac. Type', 'Business Area', 'Business Process', 'Chart of Accounts', 'Clearing Date', 'Clearing Doc. No.', 'Clearing Fisc. Year', 'Company Code', 'Company Code CrCY', 'Completion Indicator', 'Controlling Area', 'Cost Center', 'Cost Object', and 'Country Chart'.

**Middle Screenshot:** Shows the 'Analysis' window with a 'Find' bar and a list of data sources. The 'G/L Account' data source is selected, and a list of measures is displayed, including 'Document Type', 'Elimination PrCtr', 'Equity group', 'Equity type', 'Fiscal Period Date', 'Fiscal Year', 'Fiscal Year Period', 'Fiscal Year Variant', 'Fixed Asset', 'FM Area', 'Functional Area', 'Fund', 'G/L Account', 'Members', 'Attributes', and 'Hierarchies'.

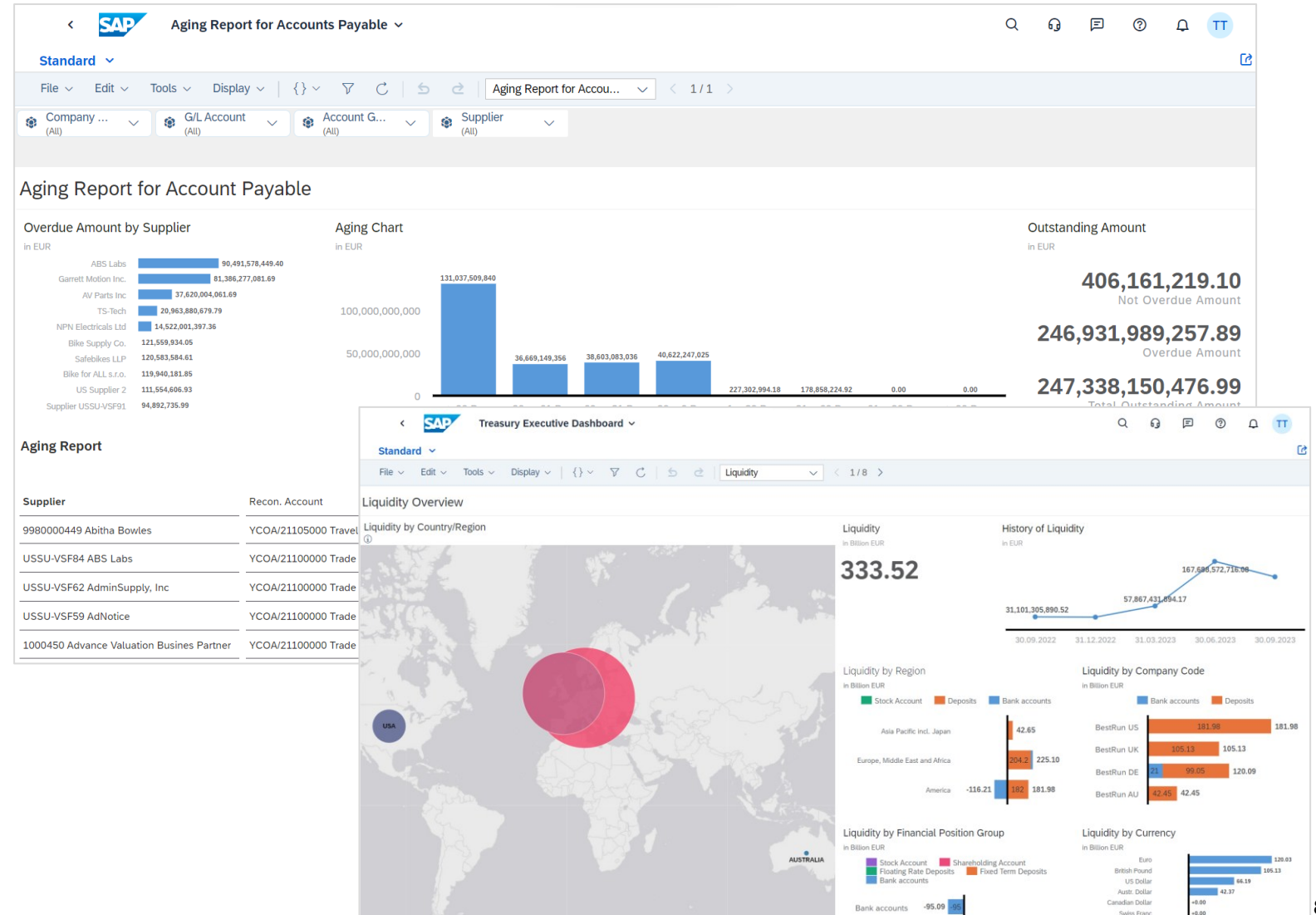
**Right Screenshot:** Shows the 'Analysis' window with a 'Find' bar and a list of data sources. The 'PPEI' data source is selected, and a list of measures is displayed, including 'Measures', 'Ending Balance', 'PPEI', 'Preced. RefTransact', 'ProfAnalys Product', 'Profit Center', 'Project definition', 'Purchasing Doc. Item', 'Purchasing Document', 'Qty Is Incomplete', 'Recovery Indicator', 'Ref. Doc. Item Group', 'Ref. Transaction', 'Reference Date', 'Sales Order', 'Sales Order Item', 'Sales Organization', 'SD Doc of Inventory', 'SD Item of Inventory', 'Segment', 'Sender Acct Assgmt', 'Sender Cost Center', 'Sender GL Account', 'Sndr AcctAssgmt Type', 'Special G/L', 'Special Stock Type', 'Stock Valuation Type', 'Subnumber', 'Supplier', 'Supplier of Inv.', and 'Tax Code'.



# SAP HANA and Real-time Analytics

## SAP Analytics Cloud (SAC) embedded scenarios

- **SAP Analytics Cloud dashboards** support management decisions
- **Ability to create ad-hoc analyses** for rules-based reports with drill-down to specific dimensions
- **SAP Analytics Cloud reporting apps** with live data connection to SAP S/4HANA Cloud without data replication:
  - Group Financial Statement
  - Group Data Analysis
  - Customer Disputes
  - AP Aging
  - and dozens more





## SAP Cloud ERP Private differentiators

# Data Products and Intelligent Applications







## Data products

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.


These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.



[Available data products](#)

Data Product Package

### SAP S/4HANA Financial Operations Data Products


Data Products for SAP S/4HANA Financial Operations



 11 Data Products

Data Product Package

### SAP S/4HANA Group Reporting Data Products


Data Products for SAP S/4HANA Group Reporting



 35 Data Products

Data Product Package

### SAP S/4HANA Accounting and Financial Close Data Products


Data Products for SAP S/4HANA Accounting and Financial Close



 29 Data Products

Data Product Package

### SAP S/4HANA Private Cloud Financial Operations Data Products


Data Products for SAP S/4HANA Private Cloud Financial Operations



 7 Data Products

Data Product Package

### SAP S/4HANA Real Estate Data Products


Data Products for SAP S/4HANA Real Estate

 5 Data Products

Data Product Package

### SAP S/4HANA Contract Accounting Data Products

Data Products for SAP S/4HANA Contract Accounting

 2 Data Products



# SAP Cloud ERP Private differentiators

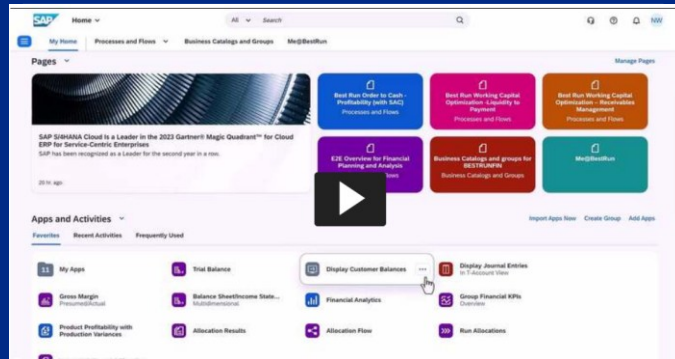
**SAP Fiori**



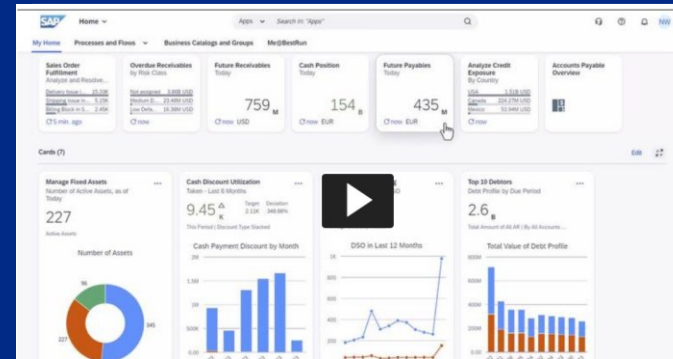
# SAP Fiori

A new user paradigm giving Finance a brilliant experience

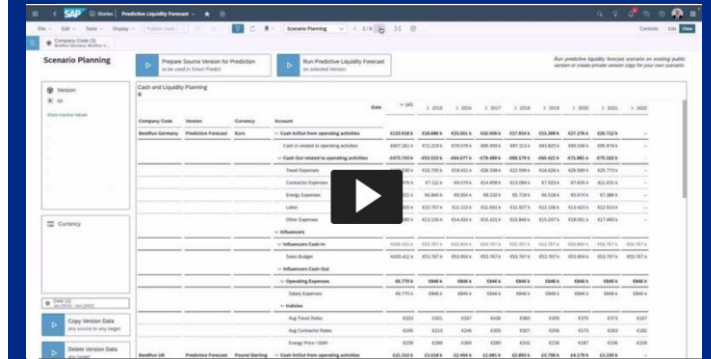
Intuitive  
Collaborative



End to end processes  
Total transparency



Predictive planning  
Augmented decision making





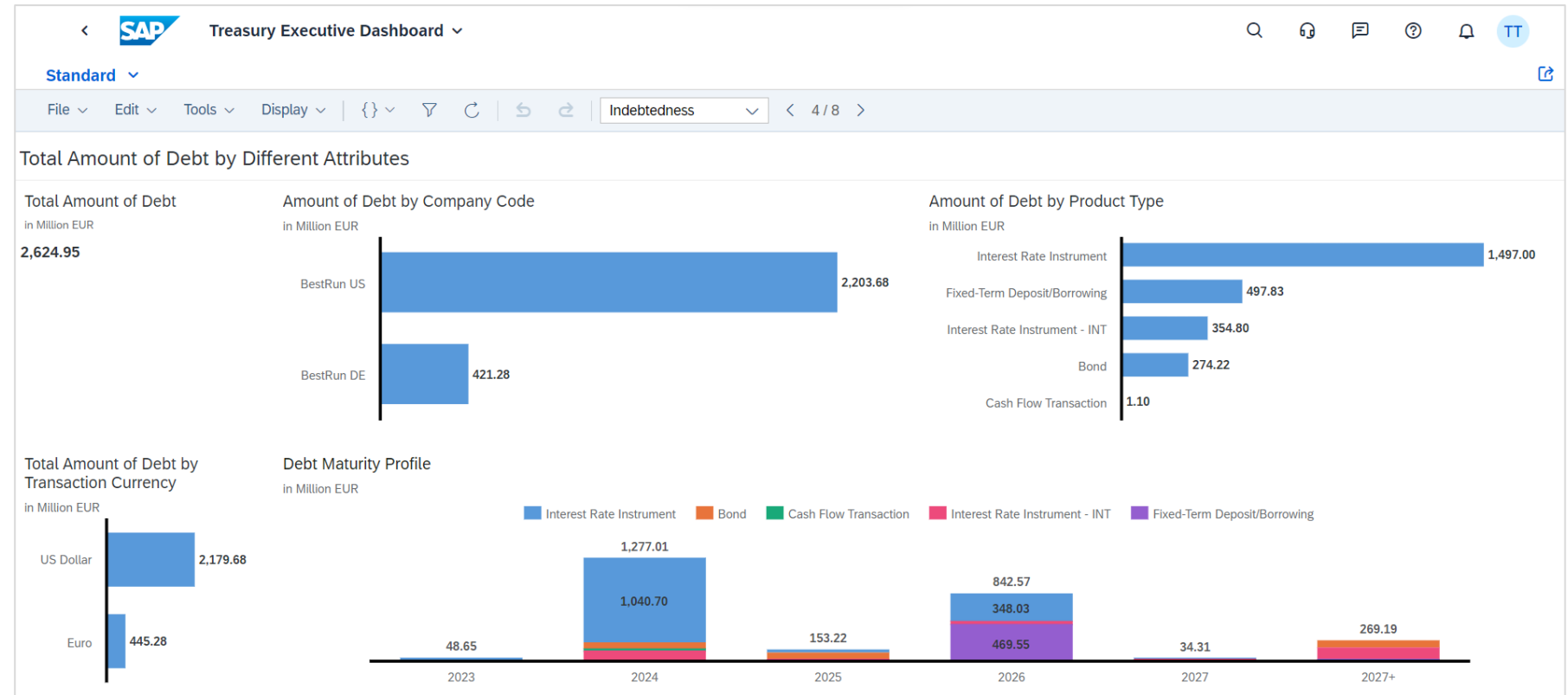
## SAP Fiori Lighthouse Apps

*Finance has more  
than a dozen  
Lighthouse  
applications –  
discover more here!*



### Treasury Executive Dashboard

- Real-time insights into treasury operations
- Includes KPIs on liquidity, cash position, debt volume and structure, counterparty limits, volume of bank guarantees, and market trends
- Live data presented from different areas, such as Cash and Liquidity Management, Treasury and Risk Management, and Financial Accounting






# SAP Fiori


## Lighthouse Apps

### Cash Flow Analyzer

- Complete cash flow status reporting
- View aggregated amounts and line item details of cash position, medium and long term liquidity forecast and actual cash flows
- Analyze the cash flows for days, weeks, months, quarters, or years for all bank accounts and liquidity items



<  Cash Flow Analyzer ▾

Liquidity Forecast\* ▾

Show Filters 

TT

Cash Flows | SG\* ▾

Display Hierarchy Switch Views < >   ▾

	Flow Direction	Planning Level	Planning Level Description	Overdue	21.12.2023	22.12.2023	23.12.2023	24.12.2023
>	Currency: AED			9,999.57 AED	9,999.57 AED	9,999.57 AED	9,999.57 AED	9,999.57
>	Currency: AUD			-67,689,335,895.15 AUD	-67,923,690,206.88 AUD	-67,923,235,365.24 AUD	-67,922,839,567.24 AUD	-67,921,848,407.10
>	Currency: BRL			26,494,400.00 BRL	26,454,400.00 BRL	26,454,400.00 BRL	26,454,400.00 BRL	26,454,400.00
>	Currency: CAD			36,046,426.44 CAD	38,937,368.94 CAD	38,937,368.94 CAD	38,937,368.94 CAD	38,937,368.94
>	Currency: CHF			-3,185,358.95 CHF	-2,724,358.95 CHF	-2,724,358.95 CHF	-2,724,358.95 CHF	-2,724,358.95
▾	Currency: EUR			-100,200,230,386.99 EUR	-79,311,453,059.74 EUR	-79,309,355,477.73 EUR	-79,307,167,277.73 EUR	-79,304,936,516.37
>	Company Code: 1010 - BestRun DE			-100,402,277,407.33 EUR	-79,784,832,461.82 EUR	-79,782,880,591.82 EUR	-79,781,215,719.82 EUR	-79,779,641,571.82
>	Company Code: 1110 - BestRun UK			201,233.00 EUR	-636,300.00 EUR	-664,125.96 EUR	-664,125.96 EUR	-664,125.96
>	Company Code: 1710 - BestRun US			-167,381,870.42 EUR	-183,645,912.96 EUR	-183,645,912.96 EUR	-183,645,912.96 EUR	-183,645,912.96
>	Company Code: 3010 - BestRun AU			15,127,652.99 EUR	-1,293,629.57 EUR	-1,293,629.57 EUR	-1,293,629.57 EUR	-1,293,629.57
>	Company Code: AUC1 - Comp.Code AUC1			-1,226,681.03 EUR	336,772,999.86 EUR	336,772,999.86 EUR	336,772,999.86 EUR	336,772,999.86
>	Company Code: DE10 - Company Code DE10			-39,636.00 EUR	14,800.00 EUR	14,800.00 EUR	14,800.00 EUR	14,800.00
>	Company Code: DE20 - Company Code DE20			-3,912,629.51 EUR	2,232.49 EUR	2,232.49 EUR	2,232.49 EUR	2,232.49
>	Company Code: DEC1 - Comp.Code DEC1			359,603,381.19 EUR	311,594,408.14 EUR	311,767,946.11 EUR	312,291,274.11 EUR	312,947,887.47
>	Company Code: UK10 - New Comp.Code UK10			-3,400.00 EUR	0.00 EUR	0.00 EUR	0.00 EUR	0.00
>	Company Code: US10 - Company Code US10			0.00 EUR	-2,000.00 EUR	-2,000.00 EUR	-2,000.00 EUR	-2,000.00
>	Company Code: US20 - Company Code US20			-745.00 EUR	-745.00 EUR	-745.00 EUR	-745.00 EUR	-745.00
>	Company Code: USC1 - Comp.Code USC1			-296,584.88 EUR	10,597,249.12 EUR	10,597,249.12 EUR	10,597,249.12 EUR	10,597,249.12
>	Company Code: UST6 - US Subsidiary 6			-23,700.00 EUR	-23,700.00 EUR	-23,700.00 EUR	-23,700.00 EUR	-23,700.00
>	Currency: GBP			-90,978,623,275.54 GBP	-90,978,030,275.50 GBP	-90,978,030,275.50 GBP	-90,978,030,275.50 GBP	-90,978,026,759.50
>	Currency: HUF			406,982,000 HUF	406,958,000 HUF	406,958,000 HUF	406,958,000 HUF	406,958,000
>	Currency: INR			-65,739,292,720.20 INR	-162,062,241,274.80 INR	-162,062,241,274.80 INR	-162,062,241,274.80 INR	-162,062,241,274.80
>	Currency: JPY			580,406,714 JPY	580,366,714 JPY	580,366,714 JPY	580,366,714 JPY	580,366,714

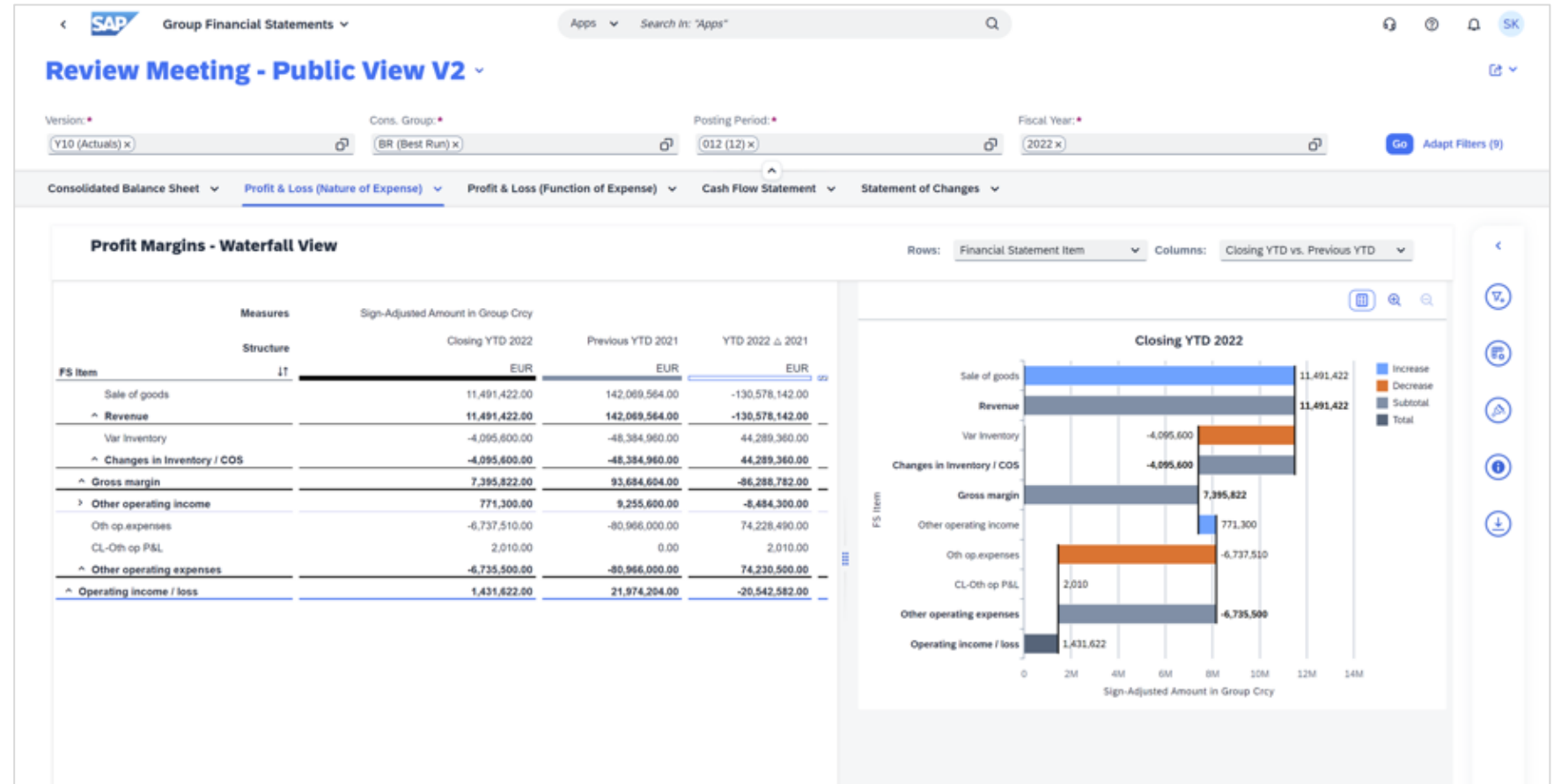


# SAP Fiori Lighthouse Apps



## Group Reporting Review Booklet

- Guided experience for business users to access key financial statements
- Expert capabilities seamlessly integrated for further analysis
- Booklet paradigm will be extended across financial reporting use cases – profitability, etc.





# SAP Fiori Lighthouse Apps

## Cost Center Review Booklet

- Display, analyze, and validate cost center data. The app displays information about actual and planned costs and groups several predefined reports under Actuals and Plan/Actuals.
- Empower users by providing a comprehensive tool for cost center analysis and reporting, enhancing data visibility and decision-making.

The screenshot displays the SAP Fiori Cost Center Review Booklet app. The top navigation bar includes the SAP logo and the app title "Cost Center Review Booklet". Below the navigation bar, there are tabs for "Standard" and "Actuals", with "Actuals" currently selected. The main content area shows a "Year-to-Date Comparison" table with the following columns: Cost Center, G/L Account, Measures Structure, Amount in Company Code Currency (Reporting Year-to-Date 2025, Previous Year-to-Date 2024, Diff. RYID 2025 - PYID 2024), and % Diff. The table is filtered by "Cost Center & G/L Account" and shows data for various cost centers and G/L accounts, including "Standard Hierarchy", "Template Store", "Demo Store 1", "Demo Store 2", "Demo Store 3", and "Demo Store 4".

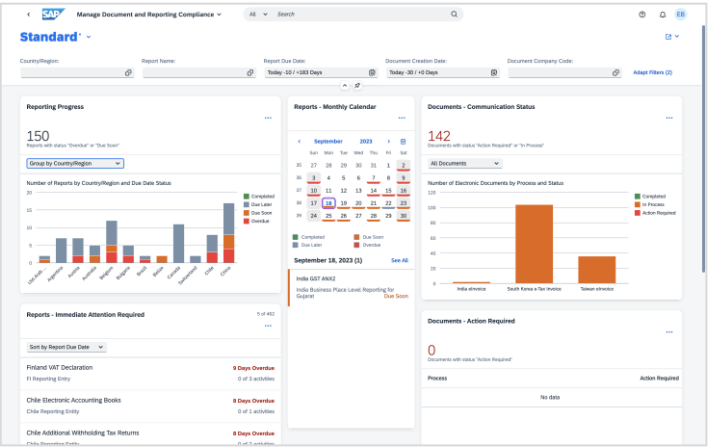
Cost Center	G/L Account	Measures Structure	Amount in Company Code Currency	Reporting Year-to-Date 2025	Previous Year-to-Date 2024	Diff. RYID 2025 - PYID 2024	% Diff.
			EUR	EUR	EUR		
Standard Hierarchy	Demo Financial Statement Version DE	01099	-87,198,557.03	21,770.00	-87,220,327.03		
	> Profit and loss statement	03000000	-85,928,186.88	19,720.00	-85,947,906.88		
	> Accounts not assigned	00NOTASSGND	133,737.00	-	133,737.00		
	> Supplement	00BSNOTES	-1,404,107.15	2,050.00	-1,406,157.15		
	> Not Assigned G/L Account (s)	REST_H	-	3,000.00	-3,000.00		
Template Store	Demo Financial Statement Version DE	01099	7,319,663.94	-	7,319,663.94		
	> Profit and loss statement	03000000	7,273,463.94	-	7,273,463.94		
	> Accounts not assigned	00NOTASSGND	49,200.00	-	49,200.00		
	> Supplement	00BSNOTES	-3,000.00	-	-3,000.00		
Demo Store 1	Demo Financial Statement Version DE	01099	6,429.56	-	6,429.56		
	> Profit and loss statement	03000000	4,429.56	-	4,429.56		
	> Supplement	00BSNOTES	2,000.00	-	2,000.00		
Demo Store 2	Demo Financial Statement Version DE	01099	1,000.00	-	1,000.00		
	> Supplement	00BSNOTES	1,000.00	-	1,000.00		
Demo Store 3	Demo Financial Statement Version DE	01099	120.00	-	120.00		
	> Profit and loss statement	03000000	120.00	-	120.00		
Demo Store 4	Demo Financial Statement Version DE	01099	3,000.00	-	3,000.00		



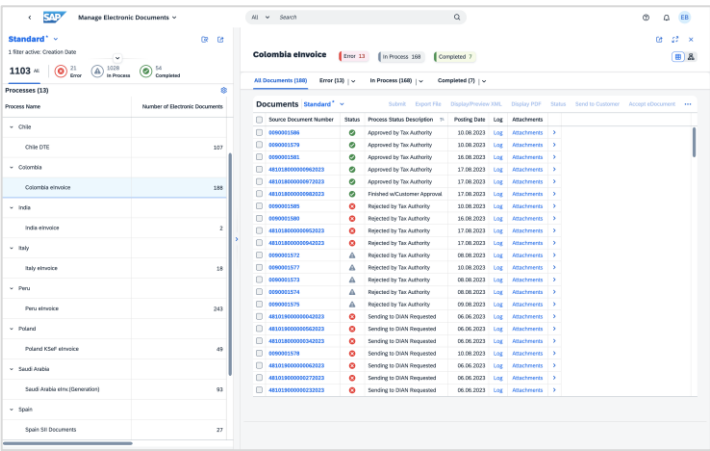
# SAP Fiori Lighthouse Apps

## Document and Reporting Compliance

Monitor Latest Compliance Status  
Worldwide



Manage Electronic Documents and  
Corrections



Manage Deadlines and Complete Statutory  
Reports







# SAP Cloud ERP Private differentiators

**Joule**



# Joule

[Display account balances](#)

[Display G/L account line items](#)

[Display Document Flow](#)

[Clearing Single G/L Open Item](#)

[Process Invoice Reminders](#)

[Manage Cost Center](#)

[Manage Internal Order](#)

[Manage Journal Entries](#)

[Billing and Revenue Innovation Management](#)

[Cash Management](#)

[Cost Center Budgeting](#)

[Manage Accounts Receivables](#)

[Finance Management Controlling](#)

Request for Subscription ...

Subscription Contracts

6 of 8

Filtered By: Sold-To Party: 1208722

Subscription Contract: 10003790

Active

Summarize

Open in App

- The contract starts on 01-01-2025 and is an evergreen contract.
- Product: ZLR\_SCR\_CLOUD\_STORAGE
- Sold-To Party: 1208722
- Recurring Net Value: 100....

Subscription Contract: 10003800

Not Active

Description: SOM Product

- The contract starts on 26-03-2025 and is an evergreen contract.
- Product: ZLR\_SCR\_CLOUD\_STORAGE
- Sold-To Party: 1208722
- Recurring Net Value: 1600...

Subscription Contract: 10003801

Not Active

Description: SOM Product

Message Joule...

Request for Subscription ...

Summarize Subscription Contract 10003790

Summary of Subscription Contract 10003790

The item 10 of the Subscription Contract 10003790 is **Active**. The contract starts on 01-01-2025 and is an evergreen contract. It consists of Product: SOM Product (ID: ZLR\_SCR\_CLOUD\_STORAGE).

- Sold-to Party:** Alpha Ltd. (ID: 1208722)
- Billing cycle:** monthly (ID: 0001)

Price Details

- The Total Contract Value (TCV) is 1200 USD.
- The recurring amount is 100.00 USD monthly.
- Monthly Subscription Fee (PSMB) is 100.00 USD.

Message Joule...



# SAP Cloud ERP Private differentiators

**Joule Agents**



# Joule Agent for Accounts Receivables\*

The agent enables accountants to significantly reduce the time spent analyzing overdue receivables and completing follow-up tasks

The accounts receivable agent empowers the accountant to analyze open receivables, **identify overdue payments**, receive a summary of analysis and **recommended possible next steps**

Fetch **outstanding balances** and **overdue amounts**, retrieve open invoices, credit memos and provide **history of dunning**

Identify **open disputes** possibly impacting overdue amounts and **recommend next steps** for managing disputed cases

Discovery Center

Joule

Today 8:00 AM

Analyze overdue balances for customer GreenWheel Inc., company GW Labs

Analysis

Details	
Customer	C0050 (GreenWheel Inc.)
Company Code	F010 (GW Labs)
Total Outstanding	\$246,293,726.00
Disputed Amount	\$73,888,117.80
Non- Disputed Overdue	\$36,944,058.90
Aging	100% items overdue >1 year
Dunning History	Level 4 (no recent actions)

Dispute Case Status:

- Total Open Disputed Amount: \$73,888,117.80
- Disputed % of Outstanding: ~30% (73M of 246M)
- Two active disputes:
  - \$65.5M → Being processed (Medium Priority)
  - 8.3M\$ → New (Medium Priority)
- Two closed/voided disputes

Recommended Actions

- Prioritize closure of Dispute 33410 and 33409 (focus first on \$65.5M case).
- Trigger escalation for the \$36.9M — initiate next dunning steps or legal collections if items are >3 years overdue.

Joule

Dunning History Level 4 (no recent actions)

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- Two closed/voided disputes

Dunning History

- Multiple dunning notices issued since 2023.
- Progression up to Dunning Level 4.
- No recent dunning activity recorded.

Show Recommended Actions

Recommended Actions

- Prioritize closure of Dispute 33410 and 33409 (focus first on \$65.5M case).
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Joule

- Prioritize closure of Dispute 33410 and 33409 (focus first on \$65.5M case).
- Trigger escalation for the \$36.9M — initiate next dunning steps or legal collections if items are >3 years overdue.

Can you explain your recommendations?

Dispute IDs 33410 and 33409

- These two disputes together account for \$73.8M, which is ~30% of the total outstanding.
- Closing high-value disputes has the most significant impact on reducing Days Sales Outstanding (DSO) and financial risk exposure.

Escalate Non-Disputed Overdue (\$36.9M)

- This amount is overdue, not under dispute, and therefore eligible for immediate follow-up.
- No recent dunning actions were found, which means the account may not have been actively followed up on.
- Re-initiating dunning or legal escalation improves the likelihood of recovery and signals urgency to the customer.

Analyze overdue balances

Recommend Actions

Explain recommendations



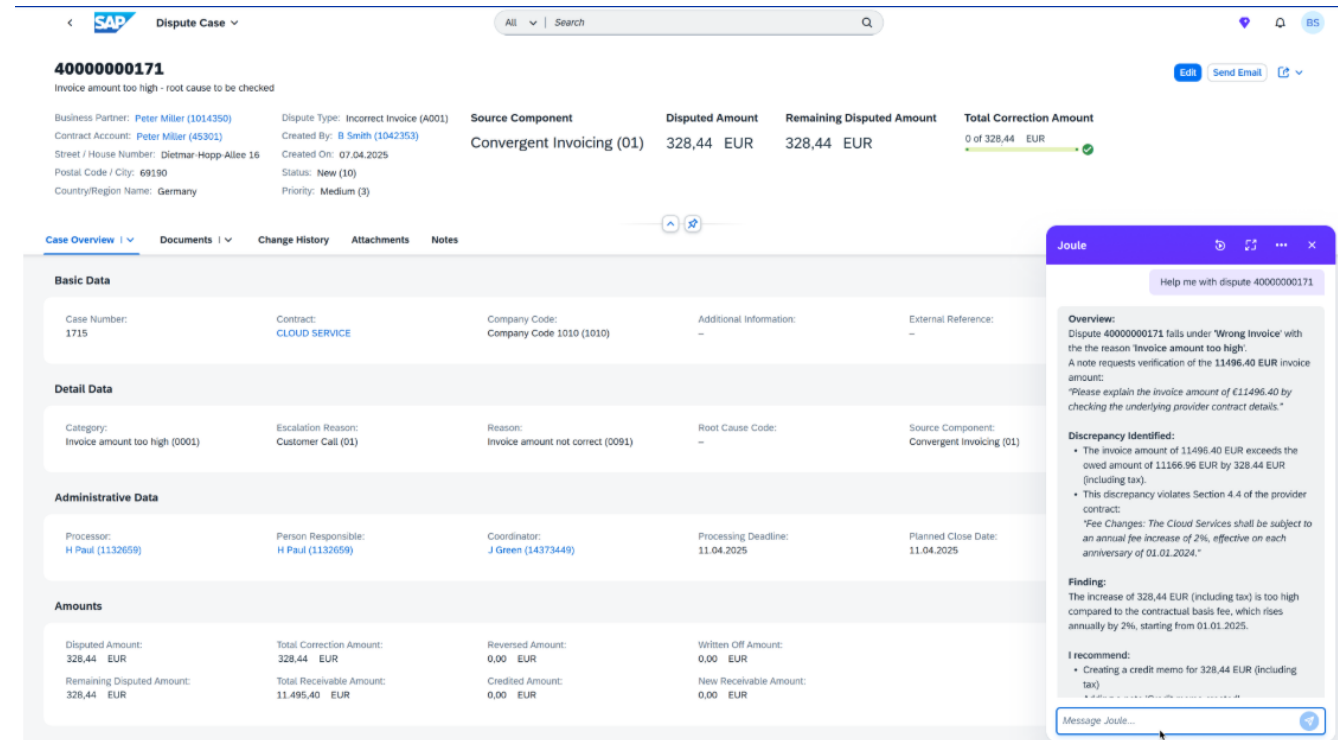
# Joule Agent for Dispute Management\*

The Dispute Resolution Agent automates the process of identifying and resolving disputes caused by incorrect invoices.

By efficiently analyzing both invoice details and contractual terms, the agent quickly uncovers **discrepancies, errors, or mismatches**

Proactively suggests the contract accountants **how to proceed** (e.g. with the creation of a Credit Memo to resolve the conflict and ensure financial accuracy)

Build trust and improve vendor relationships with **faster dispute resolution**



**40000000171**  
Invoice amount too high - root cause to be checked

Business Partner: Peter Miller (1014350) | Dispute Type: Incorrect Invoice (A001) | Source Component: Convergent Invoicing (01) | Disputed Amount: 328,44 EUR | Remaining Disputed Amount: 328,44 EUR | Total Correction Amount: 0 of 328,44 EUR

Contract Account: Peter Miller (45301) | Created By: B Smith (1042353) | Created On: 07.04.2025 | Status: New (10) | Priority: Medium (3)

Street / House Number: Dietmar-Hopp-Allee 16 | Postal Code / City: 69190 | Country/Region Name: Germany

**Case Overview** | Documents | Change History | Attachments | Notes

**Basic Data**

Case Number: 1715	Contract: CLOUD SERVICE	Company Code: Company Code 1010 (1010)	Additional Information: -	External Reference: -
-------------------	-------------------------	--	---------------------------	-----------------------

**Detail Data**

Category: Invoice amount too high (0001)	Escalation Reason: Customer Call (01)	Reason: Invoice amount not correct (0091)	Root Cause Code: -	Source Component: Convergent Invoicing (01)
--	---------------------------------------	---	--------------------	---

**Administrative Data**

Processor: H Paul (1132659)	Person Responsible: H Paul (1132659)	Coordinator: J Green (14373449)	Processing Deadline: 11.04.2025	Planned Close Date: 11.04.2025
-----------------------------	--------------------------------------	---------------------------------	---------------------------------	--------------------------------

**Amounts**

Disputed Amount: 328,44 EUR	Total Correction Amount: 328,44 EUR	Reversed Amount: 0,00 EUR	Written Off Amount: 0,00 EUR
Remaining Disputed Amount: 328,44 EUR	Total Receivable Amount: 11.495,40 EUR	Credited Amount: 0,00 EUR	New Receivable Amount: 0,00 EUR

**Joule**  
Help me with dispute 40000000171

**Overview:**  
Dispute 40000000171 falls under "Wrong Invoice" with the reason "Invoice amount too high". A note requests verification of the 11496.40 EUR invoice amount: "Please explain the invoice amount of €11496.40 by checking the underlying provider contract details."

**Discrepancy Identified:**

- The invoice amount of 11496.40 EUR exceeds the owed amount of 11166.96 EUR by 328.44 EUR (including tax).
- This discrepancy violates Section 4.4 of the provider contract: "Fee Changes: The Cloud Services shall be subject to an annual fee increase of 2%, effective on each anniversary of 01.01.2024."

**Finding:**  
The increase of 328.44 EUR (including tax) is too high compared to the contractual basis fee, which rises annually by 2%, starting from 01.01.2025.

**I recommend:**

- Creating a credit memo for 328.44 EUR (including tax)

Message Joule...











## SAP Cloud ERP Private differentiators

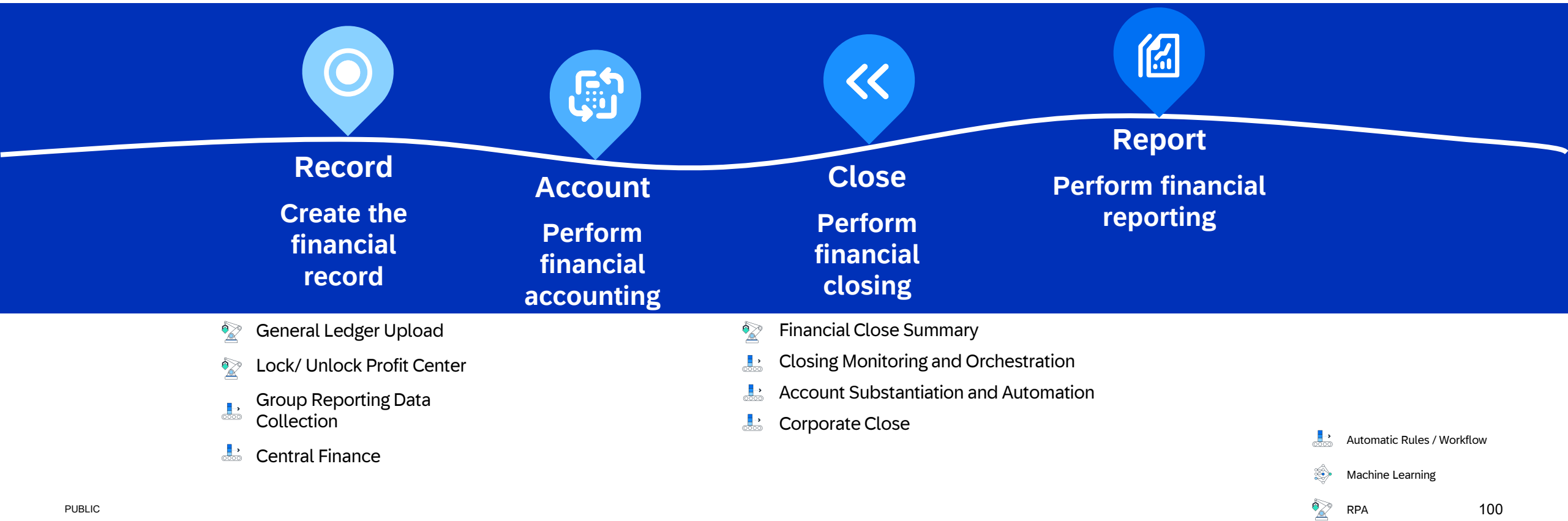
**SAP Business AI**



# Intelligent technologies

Unlock new efficiency with intelligent automation along the Record-to-Report process

-   GR/IR reconciliation
-   Intercompany Matching + Reconciliation process
-  Accrual Collector
-  Depreciation Run
-  General Ledger
-  Contract and Lease Management
- Revenue Recognition IFRS 15
- Disclosure Management





## Intelligent technologies SAP Business Integrity Screening

SAP Business Integrity Screening helps detect risk-prone 3<sup>rd</sup> parties, potential fraud and anomalies earlier, to investigate and prevent better:

- Reduction of fraud-related financial losses, compliance failures and other exceptions
- Flexible platform allowing to support multiple scenarios: business partner screening, internal fraud, anti-corruption
- Increased security of transactions in key business processes
- Reduced workload for investigation teams (less false positives)
- Reduced risk exposure on a long term basis

### Prepare, design and set up rules



Prepare data, enable rules, define detection strategies and optimize (using calibration)

### Investigate



Manage alert workload with efficient evaluation, qualification and remediation of fraud and other anomalies

### Detect



Execute mass and real-time detection and screening, and stop suspicious or anomalous business transactions

### Analyze performance



Monitor performance through dashboards, reports and KPIs for continuous improvement of detection efficiency





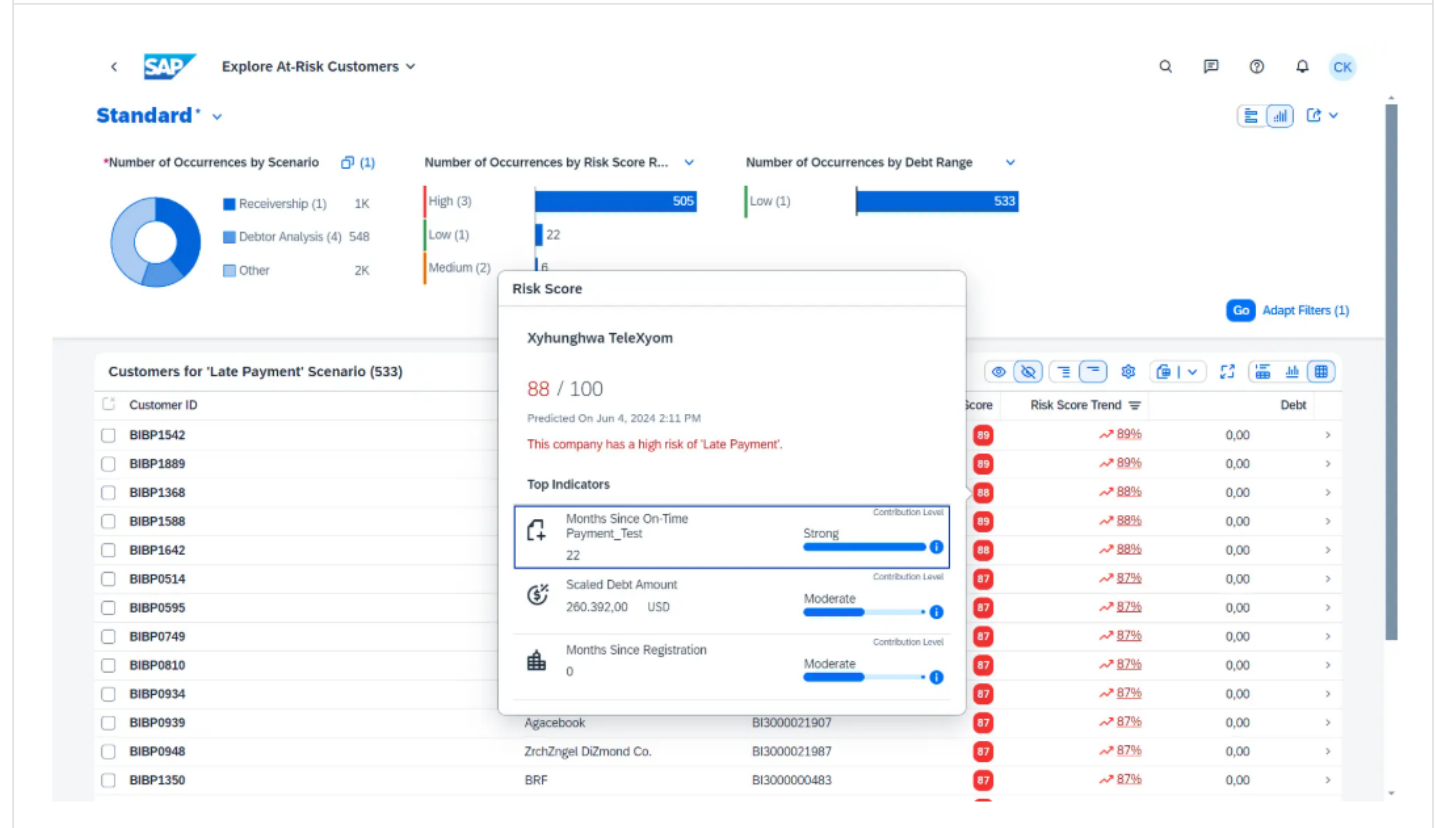
# Intelligent technologies

## Behavioral insights for contract accounting

This feature helps collection specialists predict and explain payment risks by analyzing historical customer behavior maximize collections and minimize write-offs.

- Analyze historical customer behavior and generate payment risk predictions and explanations.
- Help financial users quickly identify high-risk accounts using predictive insights
- Optimize collection strategies based on customer-specific behavioral patterns
- Reduce outstanding debt by supporting proactive, data-driven decision-making

### Explore at-risk customers: pulse tool view





# Intelligent technologies

## AI-assisted journal upload

### Accelerate Period-end Journal Entries with AI-Assisted Journal Upload

- Case categories and sub-categories to categorize posting policies and documents
- Upload the transaction data in an Excel file to create a journal case. The AI-powered journal case processing generates a posting proposal
- Review and validate the generated proposal and proceed with corrections, if required, or posting
- Save time, reduce errors, and improve consistency with your manual journal entry creation process.

Discovery Center

Innovation Example: Create travel expense accrual period-end journal entries

SAP Fiori app "Manage Journal Posting Policies"

Posting Policy	Case Category	Case Subcategory	Valid From	Valid To	Policy Status
Accrual Test Policy (58)	Accruals (SAT) (101)	Shuttles (SAT) (101)	01.12.2024	31.12.9999	Active
Demo Journals (51)	Accruals (SAT) (101)	Shuttles (SAT) (101)	01.11.2024	30.11.2024	Active

SAP Fiori app "Manage Journal Upload Cases"

Journal Entry	Posting Date	Company	Journal Entry Type	Document Date	Posting Key	G/L Account	Debit in Transaction Curren...	Credit in Transaction Currency
101990891	31.12.2024	0001 (SAP AG)	SA (G/L Account Document)	31.12.2024	40 (Debit entry)	476000 (Office supplies)	140.000,00 EUR	0,00 EUR
101990891	31.12.2024	0001 (SAP AG)	SA (G/L Account Document)	31.12.2024	40 (Debit entry)	476000 (Office supplies)	50.000,00 EUR	0,00 EUR
101990891	31.12.2024	0001 (SAP AG)	SA (G/L Account Document)	31.12.2024	40 (Debit entry)	476000 (Office supplies)	10.000,00 EUR	0,00 EUR
101990891	31.12.2024	0001 (SAP AG)	SA (G/L Account Document)	31.12.2024	40 (Debit entry)	476000 (Office supplies)	140.000,00 EUR	0,00 EUR
101990891	31.12.2024	0001 (SAP AG)	SA (G/L Account Document)	31.12.2024	50 (Credit entry)	98000 (Accrued income)	0,00 EUR	-340.000,00 EUR



# Intelligent technologies

## Enterprise Risk and Compliance: Trade classification with HANA fuzzy search

Trade classification proposals for custom tariff numbers and commodity codes will be assigned to products through a similarity search on existing product classifications using SAP HANA fuzzy search technology.

New Simulation Report to schedule the simulation of trade classification proposals with fuzzy search

New Apps:

Activate Classification Proposals – Commodity Codes

Activate Classification Proposals – Customs Tariff Numbers

Schedule Creation of Trade Classification Attributes – Fuzzy Search

Schedule Creation of Trade Classification Proposals – Fuzzy Search

[Link to documentation](#)

Numbering Scheme: EU Commodity Codes (EU\_STA)

Commodity Code: 910212

Classification From / To: 4/4/2025

Official Description: With opto-electronic display only

Concatenated Description: Clocks and watches and parts thereof; Wrist-watches, pocket-watches and other watches, including stop-watches, other than those of heading 91.01; -- With opto-electronic display only

1st Customs Unit: -

2nd Customs Unit: -

1st Unit: Piece (PS)

2nd Unit: -

Remark: -

Generate Harmonized System Code

12/31/9999

Classify Products

Commodity Codes

AI Assistant Product Classification

EU Commodity Code (EU\_STA)

The unclassified products and the corresponding proposals are displayed for the current date.

1 Product Information

2 Product Profile

3 Generated Proposals

4 Documentation

3. Analysed Headings

The trade classification agent completed its task. Trade product classifications are proposed based on the generated product profile. Find the result below. Review the generated product classification information the Fitness Wristwatch F11 and select a proposal.

Analysed Headings (4)

Search

Communicate with Joule

Additional Information

Heading	Heading Description	Harmonized System Code	Harmonized System Code Description	Justification	Notes
9102	Wrist-watches, pocket-watches and other watches, including stop-watches, other than those of heading 91.01.	9102.12	With opto-electronic display only	GRI 1, 3b, 5b, 6	Ch. 91 \$1g, \$3,\$4 <a href="#">Select Proposal</a>
9102	Wrist-watches, pocket-watches and other watches, including stop-watches, other than those of heading 91.01.	9102.19	Other	GRI 1, 3b, 5b, 6	Ch. 91 \$3,\$4
8517	Telephone sets, including smartphones and other telephones for cellular networks or for other wireless networks... <a href="#">More</a>	8517.14	Other telephones for cellular... <a href="#">More</a>	GRI 1, 3b, 5b, 6	Ch. 85 \$3
3926	Other articles of plastics and articles of other materials of headings 39.01 to 39.14.				Ch. 39 \$2v

Summary

HS Code Proposed:

9102.12: Best match due to the product's function as a watch with an opto-electronic display. Wrist-watches, electrically operated, with opto-electronic display only.

Alternative HS Codes Considered:

9102.19: Matches function and material but is too broad compared to 9102. Other wrist-watches, electrically operated.

8517.14: Matches data transmission function but not the primary function as a watch. Other telephones for cellular networks or for other wireless networks.



# SAP Cloud ERP Private differentiators

**Situation Handling**

Some examples:

## Mass Activity Exception

## Errors and Warnings in Allocation Runs

### Payment Requires Manual Repair

### GR/IR Deviation Exceeds Threshold

## Invoice Skipped in Payment Advice

## Blog series Situations Handling

## Situation templates in Finance

PUBLIC



## New Business Processes and Functionalities

### Business Area and Business Capability Overview





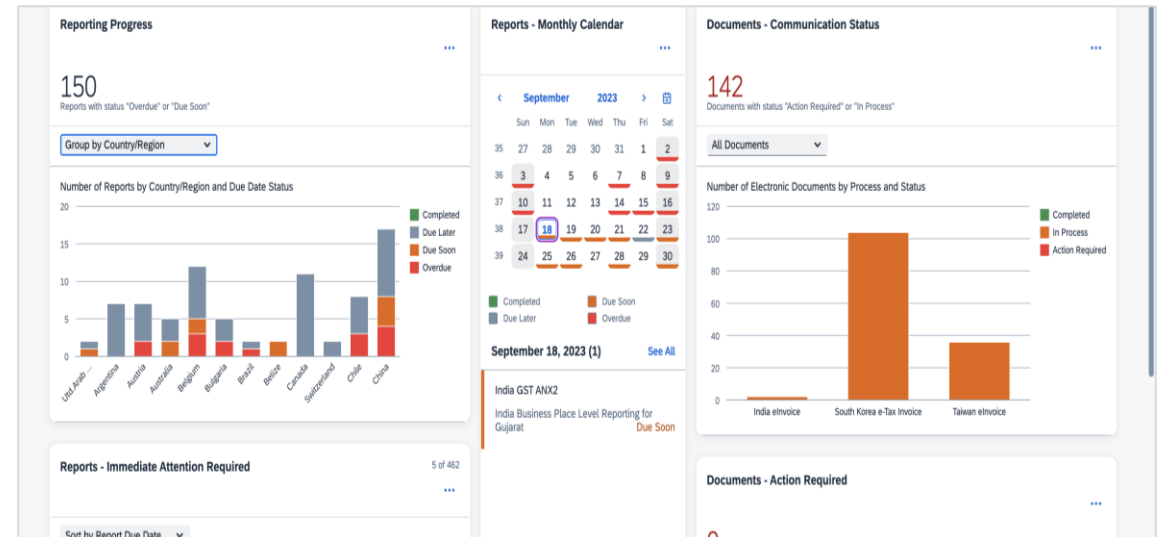
## New Business Processes and Functionalities

### Document and Reporting Compliance

#### SAP Document and Reporting Compliance

- Next generation platform to streamline compliance, from e-documents to legal reporting
- Run SAP Document and Reporting Compliance to customers to stay on top of continuously evolving e-invoicing and statutory reporting mandates driven by digitalization of authorities.
- Leverage a single cloud offering integrated across LoBs to enable the submission / exchange of documents and reports to tax authorities.
- Start with electronic documents and scale to statutory reporting worldwide.
- Additional capabilities with SAP S/4HANA:
  - Automated error notifications and checks to ensure consistency between electronic documents and authorities' portals (automated reconciliation)
  - Standardized statutory reporting, with centralized deadlines and automation of compliance operations

[Link to documentation](#)





# New Business Processes and Functionalities

## Subscription Order Management

**Comprehensive management of the subscription lifecycle with maximum flexibility in monetizing subscriptions, usage, and revenue-sharing models**

- Manage product catalogs
- Design and model offers that combine multiple pricing and billing options (e.g., recurring, usage, one-time, prepaid, installment)
- Bundle subscriptions with physical products, services, and/or projects as a single offer
- Manage subscription lifecycle, from order capture and fulfillment orchestration to renewals and contract changes
- Support complex multi-sided business models by managing partner agreements and orders
- Gain complete view of order and contract history with detailed audit trail and of trade compliance checks

[Link to documentation](#)

The screenshot displays the SAP Subscription Contract Item interface for contract 1503406, titled "Cloud Subscription Storage". The interface includes a top navigation bar with the SAP logo, contract details, and search functionality. Below the header, key contract information is presented in a summary view, including contract value (12,113.27 USD), item value (290,00 USD), technical status (Active), and contract state (Current). A horizontal menu allows navigation between various tabs such as General Information, Prices, Price Details, Billing, and Technical Resources. The main content area is divided into sections: Contract Dates, Partner, and Prices. The Prices section contains a table of contract item values and recurring values. Below this, the Price Details section provides a detailed table of price elements, including status, price element, ratio, price, quantity, end value, and reason for inactivity. The table lists various price elements like Monthly Subscr Fee, Gross, Sum Surcharges/Discounts, Net Value 1, Tax Jurisdict.Code, and A/R Sales Tax 1 through 4, along with their respective values and quantities.

Status	Price Element	Ratio	Price	Quantity	End Value	Reason for Inactivity
Active	Monthly Subscr Fee	–	29,00 USD	1 EA	290,00 USD	
Active	Gross	–	29,00 USD	1 EA	290,00 USD	
Active	Sum Surcharges/Discounts	–	0,00 USD	1 EA	0,00 USD	
Active	Net Value 1	–	29,00 USD	1 EA	290,00 USD	
Active	Tax Jurisdict.Code	6 %	–	–	17,40 USD	
Active	A/R Sales Tax 1	6 %	–	–	17,40 USD	
Active	A/R Sales Tax 2	5 %	–	–	14,50 USD	
Active	A/R Sales Tax 3	4 %	–	–	11,60 USD	
Active	A/R Sales Tax 4	3 %	–	–	8,70 USD	
Active	Rounding Off 1	–	0,00 USD	0–	0,00 USD	





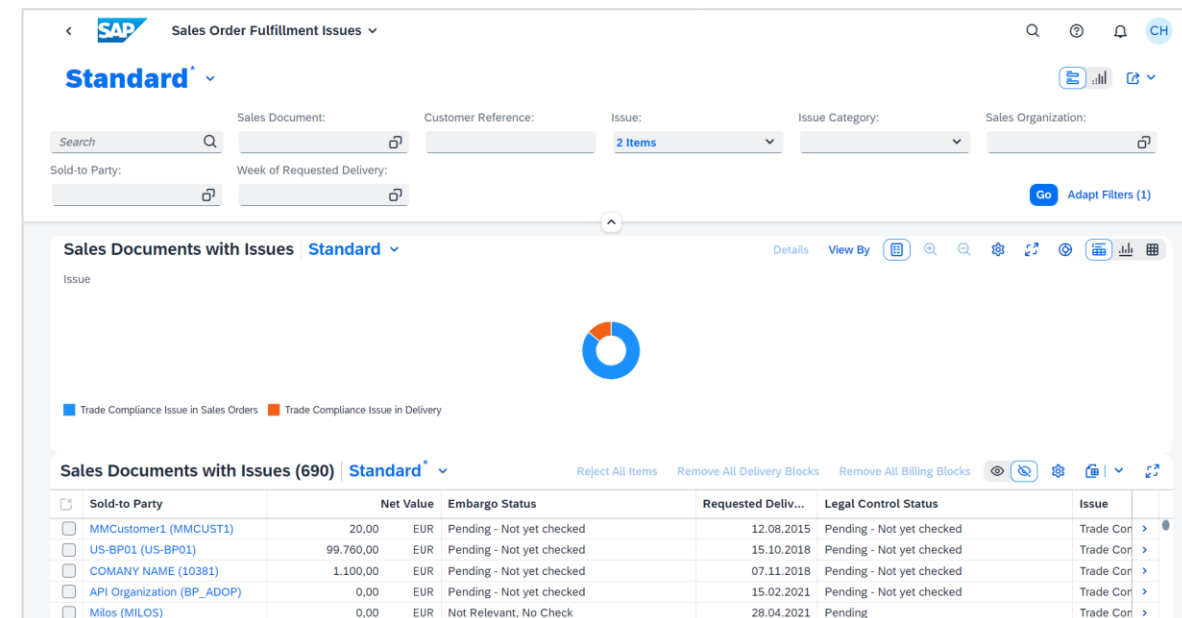
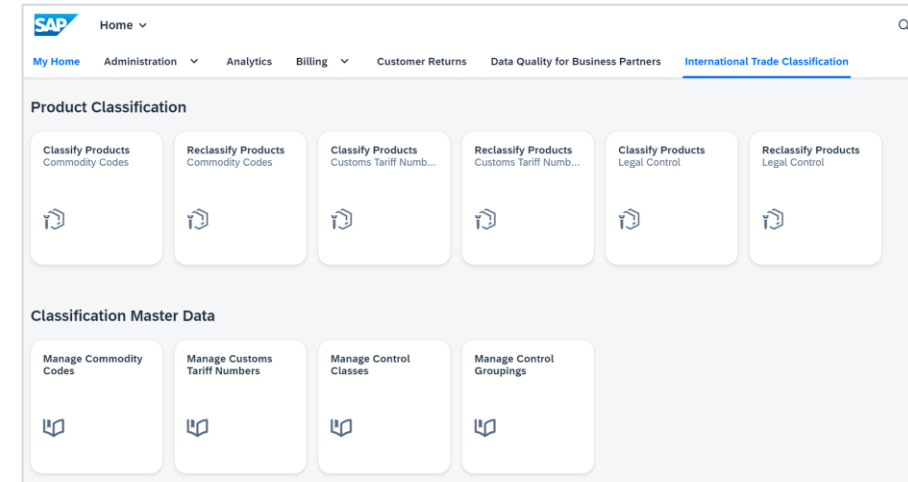
# New Business Processes and Functionalities

## International Trade Management

### Provides customers with the ability to manage basic cross-border trade requirements

- Meet regulatory requirements when exporting goods with Legal control, Embargo and SAP Watch list screening integration
- Apply product level classification necessary to support global trade processes
- Manage order-to-cash statistical reporting requirements (Intrastat) in the EU
- Additional capabilities with SAP S/4HANA:
  - SAP S/4HANA for international trade represents the new solution in S/4HANA and is one of the selected options for delivering foreign-trade functionality.
  - The new functionality replaced the former foreign trade functionality (SAP components: SD-FT and MM-FT) from the SAP S/4HANA Enterprise.

[Link to documentation](#)



**Management of trade compliance checks for service orders, service quotations, subscription order and solution quote (SAP S/4HANA Cloud, private edition) with SAP Global Trade Services is fully supported by SAP S/4HANA Service**

Manage trade compliance checks for service orders and service order quotations (SAP S/4HANA Cloud Private Edition) with SAP Global Trade Services (SAP GTS):

- Prevent service activities with embargoed countries
- Check legal control service processes
- Resolve legal control issues with blocked service documents
- Check business partner addresses in service orders and service order quotations if they are part of a denied party list





# New Business Processes and Functionalities

## International Trade Management

### Management of trade compliance checks for purchase orders and purchase scheduling agreements (SAP Cloud ERP Private) with SAP Global Trade Services

With this feature, a Trade Compliance specialist can check for each product and partner in the purchase order and the purchase scheduling agreement that all legal requirements regarding Embargo, Sanctioned Party Lists, and Legal Control are fulfilled.

This means that dedicated statuses in purchase order documents and purchase scheduling agreements suppress follow-on processes when documents are blocked.

In addition, statuses are visible in purchase order documents and purchase scheduling agreements.

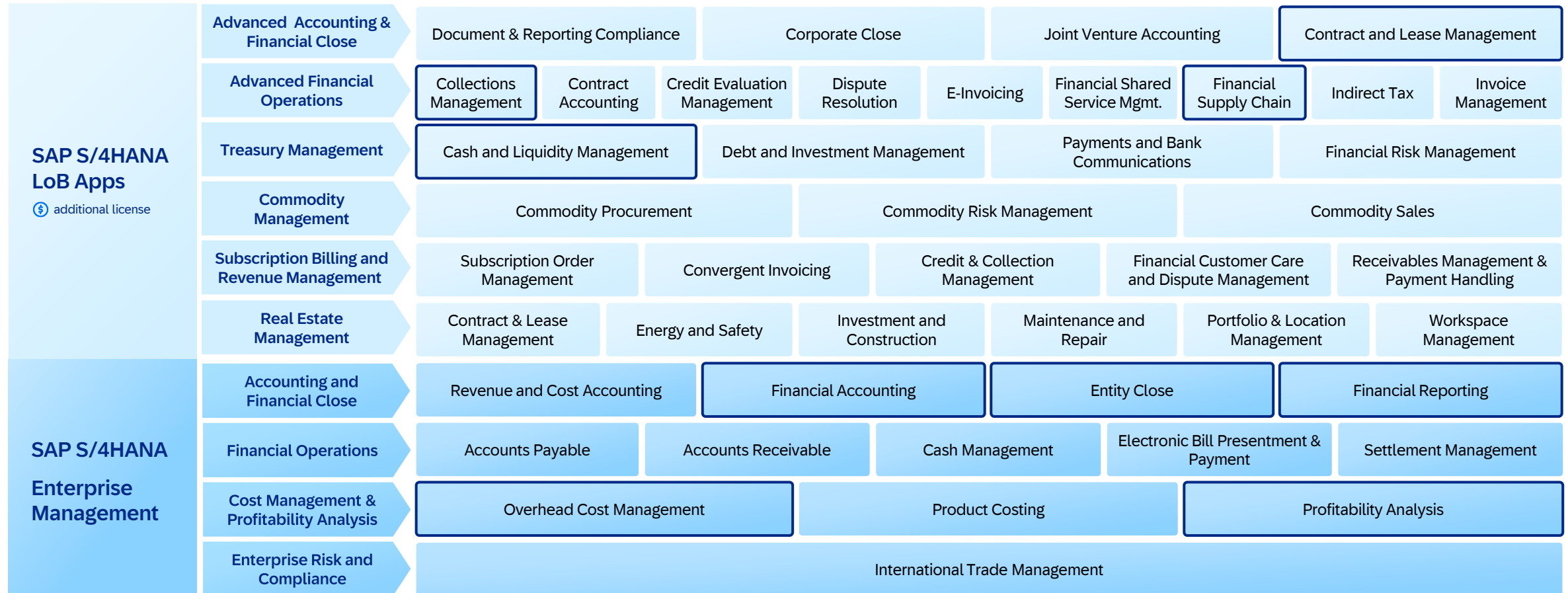
The screenshot displays the SAP interface for Purchase Order 4500005448. The 'Supplier Contact Data' tab is active, showing contact information for the supplier. Below this, the 'Product Compliance' section is highlighted with a red box, displaying the following status information:

Product Compliance			
Compliance Status			
Product Compliance Supplier Check Status:	Product Marketability Status:	Dangerous Goods Status:	Safety Data Sheet Status:
Blocked – By Supplier	OK – Not Relevant	OK – Not Relevant	OK – Not Relevant



# Updated Business Processes and Functionalities

## Business Area and Business Capability Overview





# Updated Business Processes and Functionalities

## Financial Reporting | Contract and Lease Management

Next generation platform for legal reporting: SAP S/4HANA solutions overview supporting IFRS compliance

### SAP Revenue Accounting & Reporting



- **Automate** and simplify revenue accounting
- **Assist** adoption of accounting regulations, especially in countries adhering to US GAAP (ASC 606) & IFRS 15
- **Accelerate** period-end closing
- **Embedded** analytics for better insights into profitability and revenue analysis\*
- **Built-in** tools to enable integration and migration from SAP and non-SAP systems
- **De-coupled** invoicing and revenue recognition

[Link to documentation](#)

### SAP S/4HANA Contract and Lease Management



- **Support** IFRS16 compliance and support SOX compliance
- **Manage** lease modifications ensuring reassessments are accurately reflected
- **Manage** lease renewals and early terminations, eliminating potential for “evergreen” leases
- **Manage** CPI adjustments
- **Multi-currency** valuations
- **Reclassification** of short-term and long-term liabilities

[Link to documentation](#)



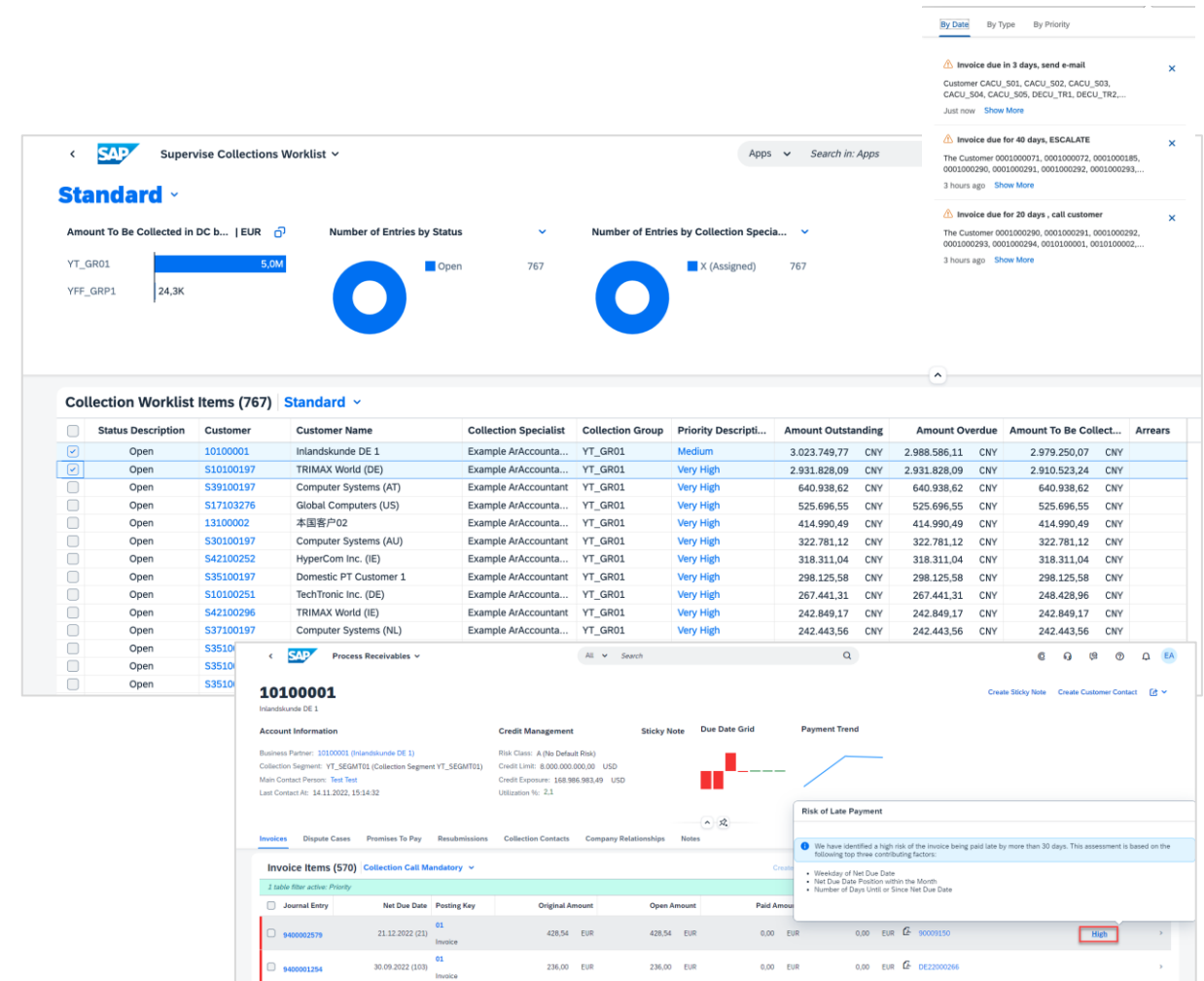
# Updated Business Processes and Functionalities

## Collections Management

Provide businesses with a single view of outstanding receivables, prioritize tasks lists and customer interactions

- **Strategy-based** and dedicated collectors' worklists for prioritized collection
- **Real-time process integration** into accounting, credit, disputes, billing, cash flow analysis and treasury
- Easy identification of overdue accounts and critical payment behavior trends using **ML based** classification of 'High risk of late payment' per invoice
- **Improved collection efficiency** through holistic customer view, increased transparency with flexible workload assignments and alerts pushed to collectors launchpad (based on situation template)

[Link to documentation](#)





## Updated Business Processes and Functionalities

### Financial Supply Chain



### Solution Capabilities

Customer credit risk assessment

Online customer billing and payments

Customer credit, collections,  
and dispute management

Cash application and reconciliation

Receivables finance

### Corresponding Solutions



**SAP Cloud for credit integration**



**SAP Cloud for customer payments**



*and*  
**SAP Digital Payments**



**SAP S/4HANA Cloud for receivables management**



**SAP Multi-Bank Connectivity**



*and*  
**SAP Cash Application**



**SAP Taulia Receivables Finance**

[Link to documentation](#)





# Updated Business Processes and Functionalities

## Cash and Liquidity Management

### Bank State Automation

Reduce manual workload and reach for high automation degree for bank statement and lockbox processing with AI-powered cash application and advanced processing rules

- Machine Learning supported, automatic invoice line item clearing or posting on account – faster and with less errors
- Learn from historical clearing data with deep learning and adapt to changing behaviors
- Automated processing rules for bank statement items and lockbox processing by allowing end users to build flexible rules
- Intelligent system suggests rule templates by evaluating historical data and consideration of User defined conditions
- Full integration with SAP Dispute and SAP Collections Management

[Link to documentation](#)

New Rule

Processing Rule Condition Clear in Sequence

Description: New Rule Journal Entry Type: DZ (Customer Payment) Rule For: Incoming Payment

Condition

Conditions (6)

Attribute	Option	From	To
Partner Name	equal to	CUSTOMER WALLDORF	
Company Code	equal to	1010	
Currency	equal to	EUR	
House Bank	equal to	DEZ12	
Memo Line	contains	202211014711	
External Transaction	equal to	051	

Clear in Sequence

Processing Instructions (2)

Processing I...	Reason C...	Creation of Dispute Case
0025		
0010		

Enable On-Account Posting as a Fallback

No Posting Posting Without Dispute Case Posting with

Details

Details

Account Type: Customer 17401710 Header Text: 0000001700005 Memo Line Version: Original

Payment Advice No.: Reprocessing Reason: Journal Entry Type: DZ

Posting Date: 01/05/2019

Payment Amount: 3.980,00 EUR

Analyze As: Business Partner Payment (0010) Analyze Memo L.

APIAR Items (-4212.02 EUR) Post on Account G/L Items Post to G/L Account Attachments (0) Notes (0) Documents (2) Log

Standard Severity: Hide Filter Bar Filters Go

Log Details Standard

Severity	Description	Time Stamp
Information	Item 0090027502 (11/10, 2019) is proposed with a confidence level of 79.3100 %	01/08/2019, 14:46
Information	The amount of the bank statement item and the sum of the invoices matches.	01/08/2019, 14:46
Information	Some numbers or words from MEMOLINE match with those from the CUSTOMERNAME	01/08/2019, 14:46
Information	Some numbers or words from MEMOLINE match with those from ACCOUNTINGDOCUMENT	01/08/2019, 14:46
Success	Document 1400001290 was posted in company code 1010	01/08/2019, 14:46

Automated & intelligent processing rules for bank statement items and lockbox

Explainable AI shows which features influenced the match, making proposals and automate clearings





# Updated Business Processes and Functionalities

## Financial Accounting

### Universal journal – the single source of truth

- Concept: take the best of all worlds (e.g. ledger, market segment, coding block, etc.)
- One line item table with full detail for all applications - for instant insight & easy extensibility (entry extension or ACDOCA derived)
- Data stored only once: no more reconciliation needed Reduction of memory footprint through elimination of redundancy
- Fast multi-dimensional reporting without replicating data to BW
- If BW is in place anyway, only one single extractor needed
- Secondary cost elements are now G/L accounts
- Multi-dimensional GL
- Extension ledger to reduce duplication of data for management reporting
- Custom defined fields
- Up to 999,999 line items per document
- Unified, extensible currencies
- Consistent parallel valuation (transfer prices)
- Up to 10 currencies per ledger
- Basic & Advanced Compliance Reporting
- Leverage Semantic Tagging for reporting on flexible hierarchies
- Integrated Planning (ACDOCP)
- Integrated Group Reporting (ACDOCU)
- Predictive Accounting

#### SAP R/3

Classic General Ledger

Special Ledger

Profit Center Accounting

Profitability Analysis

Controlling

Fixed Assets

Material Ledger

#### ERP

New General Ledger

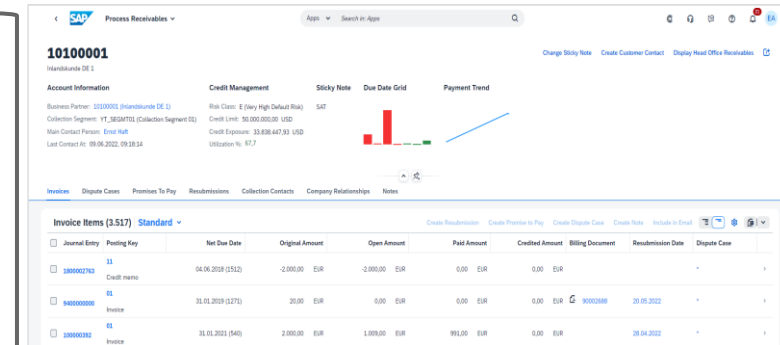
Profitability Analysis

Controlling

Fixed Assets

Material Ledger

### Finance in SAP S/4HANA Cloud



#### Process Receivables

#### Universal Journal

General Ledger

Profit Center Accounting

Fixed Assets

Material Ledger

Controlling

Profitability Analysis

**Universal Journal - single source of truth**



# Updated Business Processes and Functionalities

## Financial Accounting

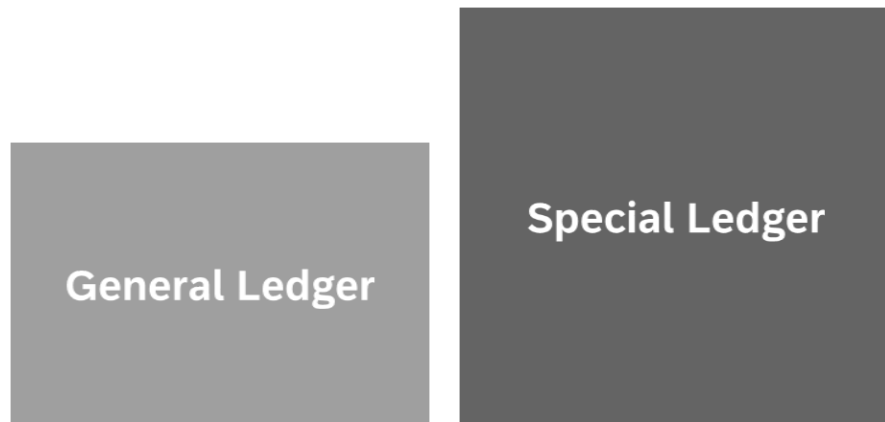
Extension Ledger – supporting the management view use case

### SAP ERP

Legal Ledger

Management Ledger

- Same legal data (95 %)
- Few adjustments (5%)
- High data redundancy

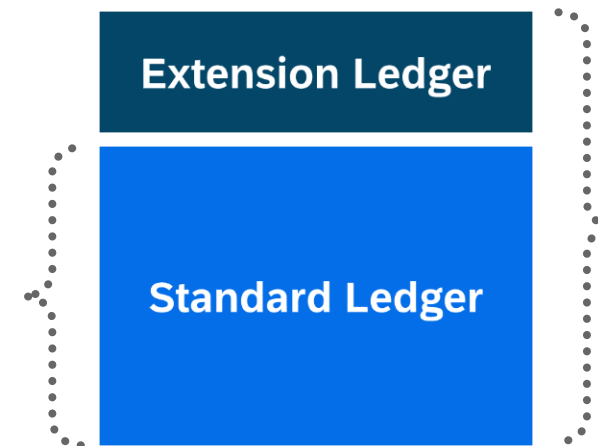


Legal Ledger

### SAP S/4HANA

Standard & Extension Ledger on top

- Separation of management data from legal data
- No data redundancy



[Link to documentation](#)



# Updated Business Processes and Functionalities

## Financial Accounting

Asset Accounting: Business value with new posting logic and new applications

### Challenges

**Manual**, time intensive and error prone reconciliation steps.

**Depreciation** calculations and posting efforts during close.

**Period runs** needed to correct and improve financial info.

**Aggregated** data only, no details available.

**Extra persistency** in dealing with parallel valuation for both, users and auditors.

[Link to documentation](#)

### Asset Accounting Overview in Fiori

Value	Start of Fiscal Year	Change	Posted Value	Due Value
APC Transaction	0.00 EUR	1,000.00 EUR	1,000.00 EUR	0.00 EUR
Total APC	0.00 EUR	1,000.00 EUR	1,000.00 EUR	0.00 EUR
Net Book Value	0.00 EUR	1,000.00 EUR	1,000.00 EUR	0.00 EUR

### Capabilities

**Reconciliation** not required.

**Speed-up** of depreciation process accelerating Financial Close.

**Fully obsolete** period runs, real-time improvement of assets available.

**Reporting** based on line items with every detail available – aggregation in reports on the fly.

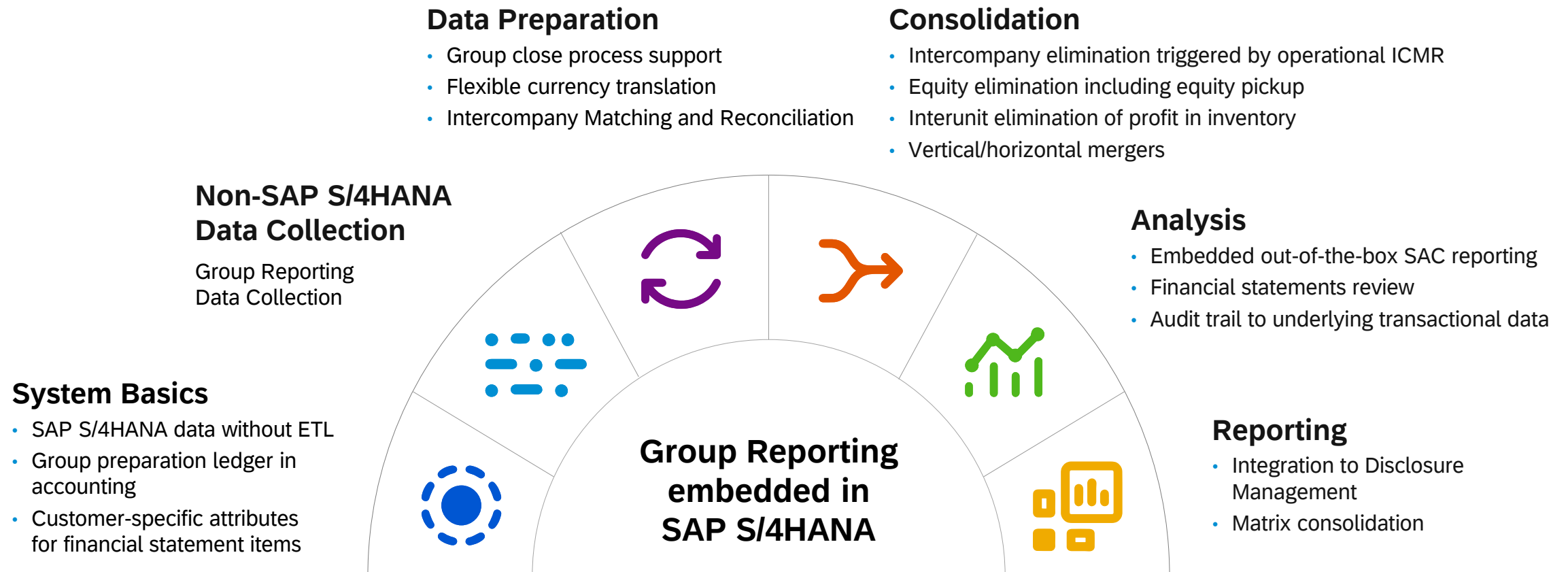
**Harmonized** approach to parallel valuation in the new architecture enables automatic integration, improves currencies, increases transparency and eliminates extra efforts.



# Updated Business Processes and Functionalities

## Financial Accounting

### Unify Operational and Group Reporting: Streamline Financial Consolidation and Close Processes



[Link to documentation](#)



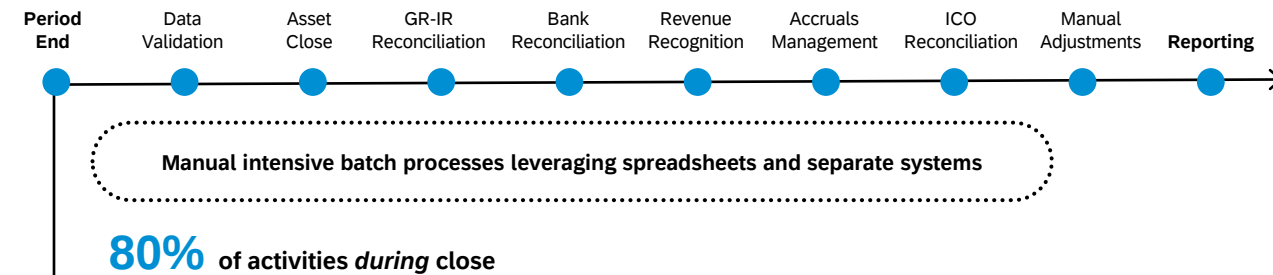
# Updated Business Processes and Functionalities

## Entity Close

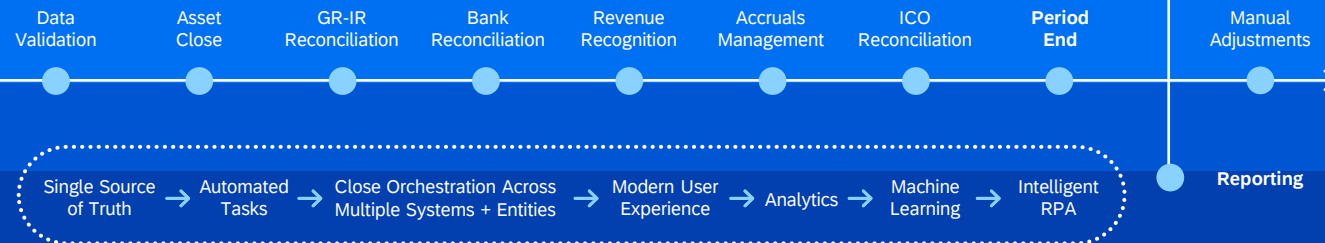
### Traditional ERP

#### Batch Process Oriented

Delayed close activities do not begin until period end. Monthly closing done for multiple operative entities leads to significant transaction volume at month end and time-intensive posting cycles.



80% of activities *before* close



### Providing Better Business Value

Automate and shorten the legal entity close cycle to achieve speed, quality, and efficiency by running a highly automated, comprehensive close for group entities with increased governance and compliance by standardizing best closing practices.



25-50%\*

Reduction in days to close annual books by supporting fast, peer-to-peer intercompany reconciliation; automating closing tasks; and increasing user efficiency.



# Updated Business Processes and Functionalities

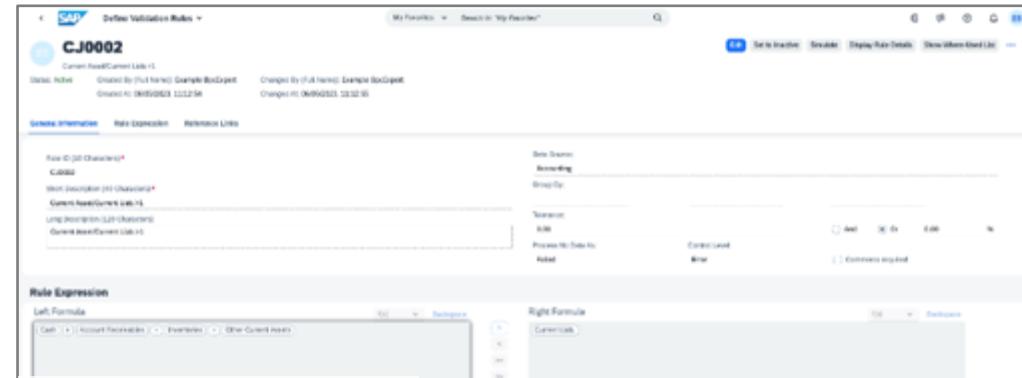
## Entity Close

### Automated supervision of closing tasks with account balance validation

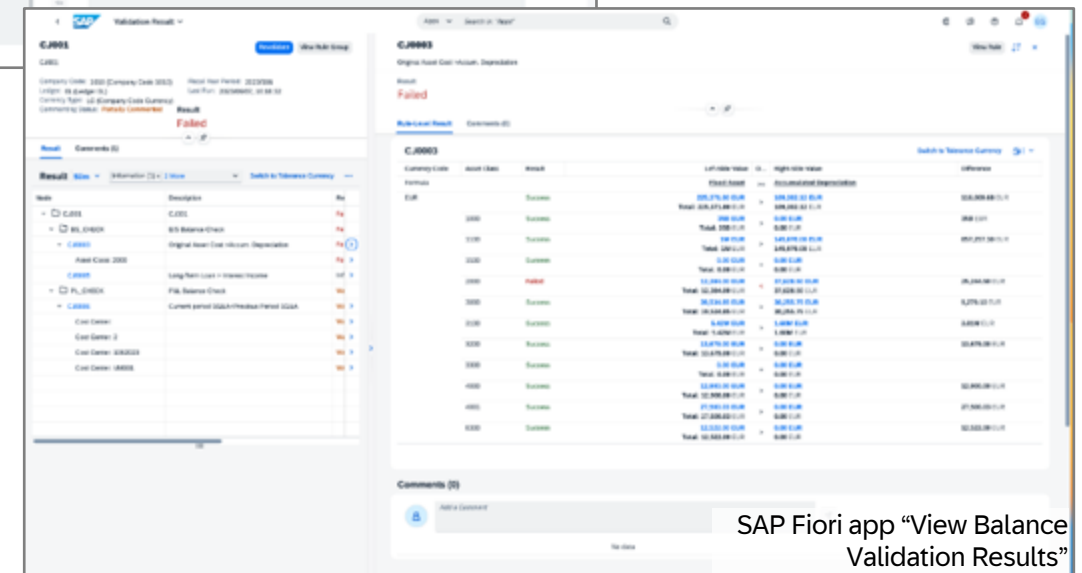
New SAP Fiori apps to maintain and execute financial closing validations such as balance verifications before and after closing tasks, detection of variances between current and previous periods and more.

In addition, these integrate with SAP S/4HANA Cloud Public Edition for Advanced Financial Closing to further automate execution and trigger prompt actions in case of failures:

- Define account balance validation rules.
- Execute validations and analyze results.
- Plan validations as part of entity close, and orchestrate the process based on results.



SAP Fiori app “Manage Balance Validation Rules and Groups”



SAP Fiori app “View Balance Validation Results”



# Updated Business Processes and Functionalities

## Profitability Analysis and Overhead Cost Management

**Universal Parallel Accounting\*** establishes a parallel value flow across end-to-end processes

### Statement of direction

Provide an accounting solution, able to value business processes in parallel and in real time, per required accounting principle and for (group) consolidation purpose.

Support of up to 10 currencies throughout different accounting processes thereby eliminating restrictions that used to apply to asset accounting and inventory valuation.

### Value proposition

- Full audit trails through consistent, parallel information across all ledgers
- High degree of automation and accuracy for parallel legal valuations
- Benefit from the flexibility of the parallel ledgers not only in general ledger accounting but also in various subledgers
- Simplified configuration settings and less manual effort
- Basis for future innovations in the area of parallel valuations

### Capabilities

- Define material prices by ledger
- Capitalization of self-manufactured assets by ledger
- Actual cost rate, overheads, settlement and universal allocation are calculated and posted by ledger
- Parallel valuation postings and analysis in production accounting for event-based production orders
- Perform valuation runs and other closing tasks by ledger, resulting in individually calculated values for financial and management accounting
- Display accurate data based on the selected ledger in many Finance apps

[Link to documentation](#)

*\*Restricted release for approved greenfield SAP S/4HANA customers*

[Introduction to  
Universal Parallel Accounting](#)



# Updated Business Processes and Functionalities

## Overhead Cost Management

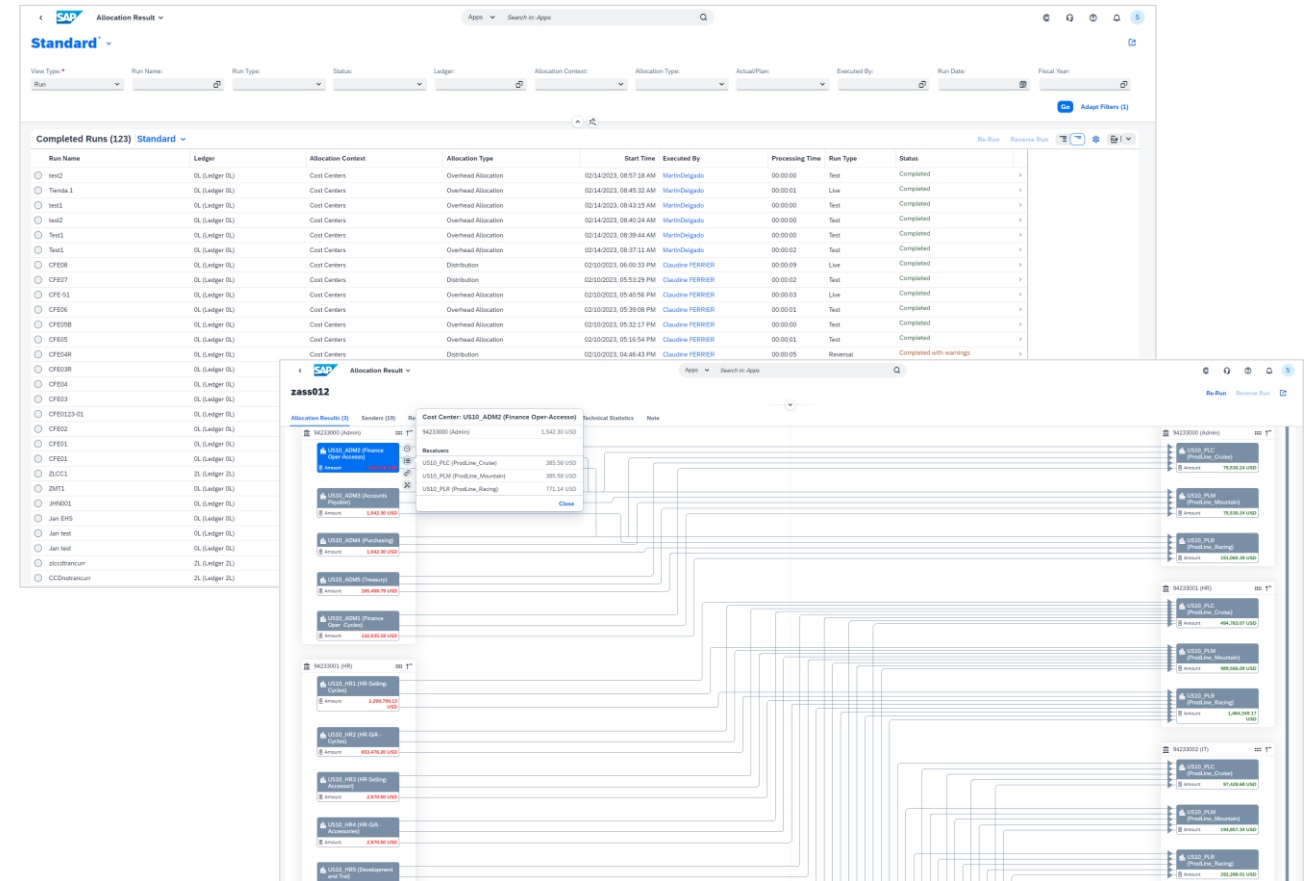
### Universal allocation

### Handle multiple accounting principles using ledgers in Controlling\*

- Controlling functions supported in the leading ledger and other ledgers
- Ledger-specific handling of activity allocation, cost distribution and allocation, and settlement\*
- Allocation tags to improve searches for allocation cycles
- High traceability, transparency and insights on the overhead allocation process
- Proven allocation functionality with improved standardization and the speed of the universal journal

[Link to documentation](#)

\*Restricted release for approved greenfield SAP S/4HANA customers





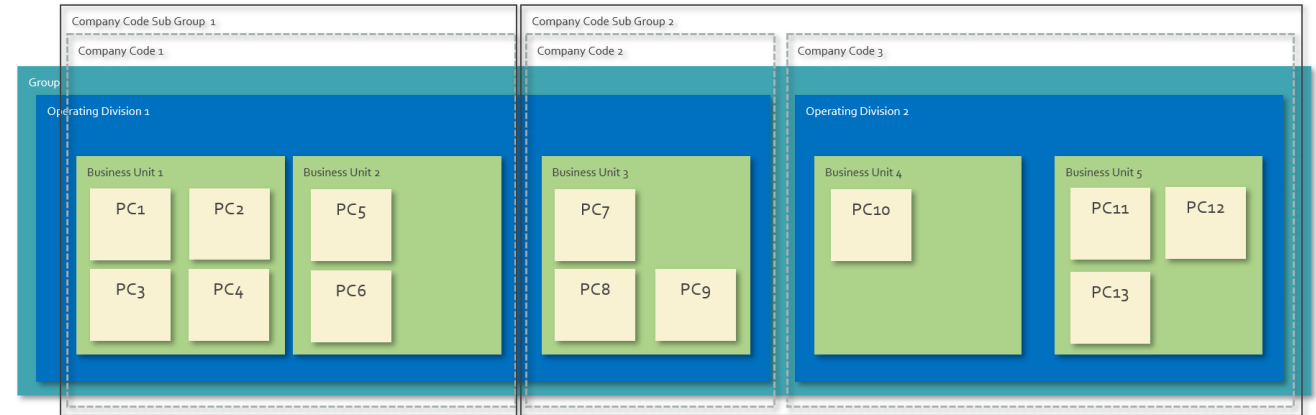


# Updated Business Processes and Functionalities

## Overhead Cost Management

### Segmentation Valuation in universal parallel accounting\*

- With Segmentation Valuation, new inventory valuation levels are introduced to systems where UPA is activated.
- For this, segmentation views utilize segmentation units that are defined as extension attributes of profit center master data. Therefore, each segmentation unit forms a group of profit centers.
- Segmentation views offer a flexible definition of new inventory valuation levels in-between group and profit center valuation levels.



- **Profit Centre (SAP)**
- **Business unit**
- **Company Code(SAP)**
- **Division**
- **Controlling Area/ Group (SAP)**

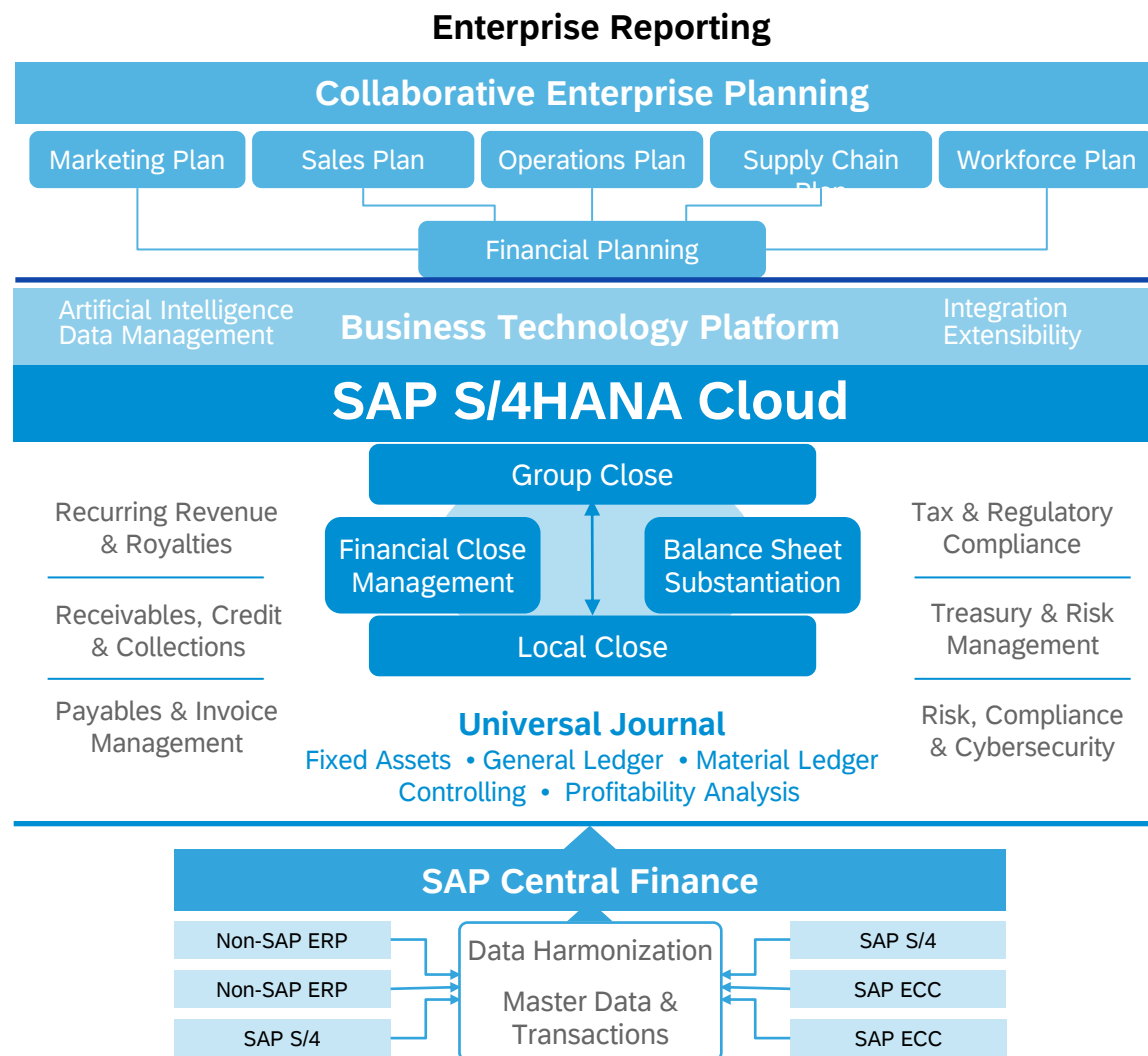
[Link to documentation](#)

*\*Restricted release for approved greenfield SAP S/4HANA customers*



## Out-of-the-Box Integration

### Core finance



SAP S/4HANA

SAP S/4HANA Cloud

SAP Analytics Cloud

SAP BTP

SAP Signavio

SAP SuccessFactors

SAP Ariba

SAP Fieldglass

SAP Concur

3<sup>rd</sup> Party / Solution  
Extensions /  
Planon, BlackLine  
& Insight Software



## Out-of-the-Box Integration

Central Finance can unlock efficiencies by centralizing financial operations, closing and planning

### Key Use Cases:

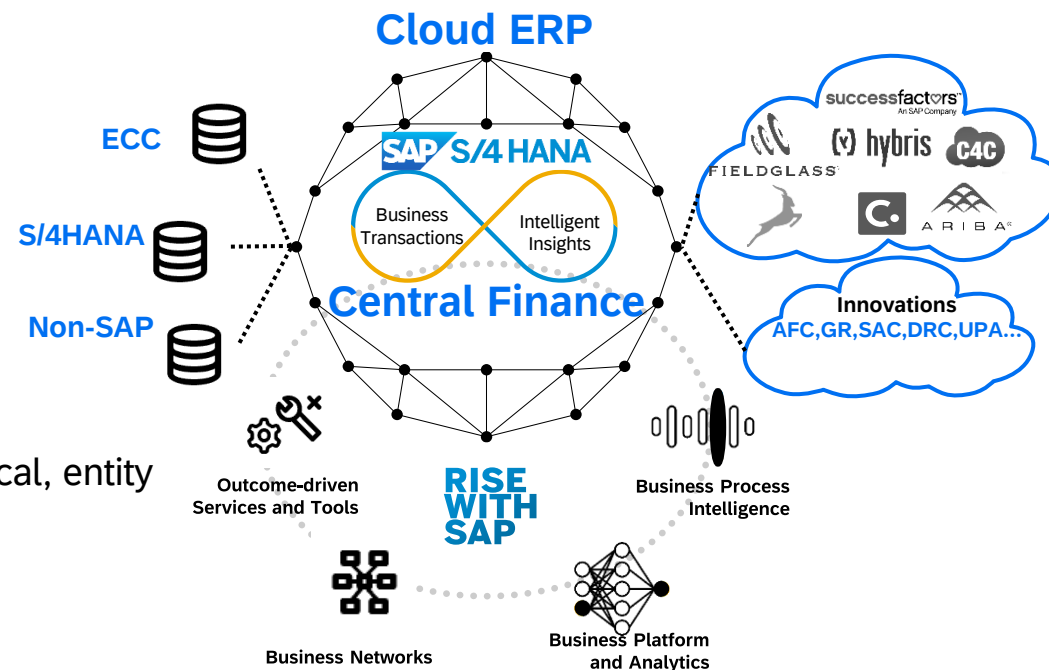
- Business model evolution
- Innovations
- Synchronization
- Simplification
- Consolidation
- Automation

### Core Capabilities

- Data Logging
- Historical Data Load
- Real-time Replication
- Business Mapping
- Inbound Postings
- Error correction
- Data Reconciliation

### Benefits

- **Transparency** – Single source of truth with harmonized financial data for local, entity and group reporting
- **Efficiency** – Improve process efficiency by integration, standardization and automation of business processes
- **Flexibility** – quickly adapt to changing business environments and M&A, Divestitures...
- **Cost reduction** – by centralizing processes and Shared Services
- **Business Continuity** – Connect your SAP and non-SAP ERP without disruption to S/4
- **Better than BW** – Reconciled transactions on line item level





## Out-of-the-Box Integration

### Central Finance: Streamlined deviation analysis with Transfer of Plan Data app

#### Central Finance reporting innovation

#### Business Background

Using this report you can transfer period-based financial plan data for cost centers / activity types from one (SAP ERP) source system at a time to the Central Finance (SAP S/4HANA Cloud Private Edition or SAP S/4HANA) system. You start the plan data transfer from the Central Finance system, that is, you run the report in the Central Finance system per cost object type, in this case for the combination of cost center and activity type to support real-time deviation analysis for accelerated business steering based on current data

#### Business Value

Seamless reporting and deviation analysis in Central Finance system of actual vs. plan data across multiple systems

#### Motivation/Background

Enabling Plan vs Actual Data Reporting in a Central Finance system

#### Solution/Feature

- Report to transfer plan data from SAP ECC source systems
- Replication and conversion of object-based plan data (table COSS/COSP to ACDOCP)

The screenshot displays the SAP 'Transfer of Plan Data for Cost Centers' application. The interface is organized into several sections for data entry:

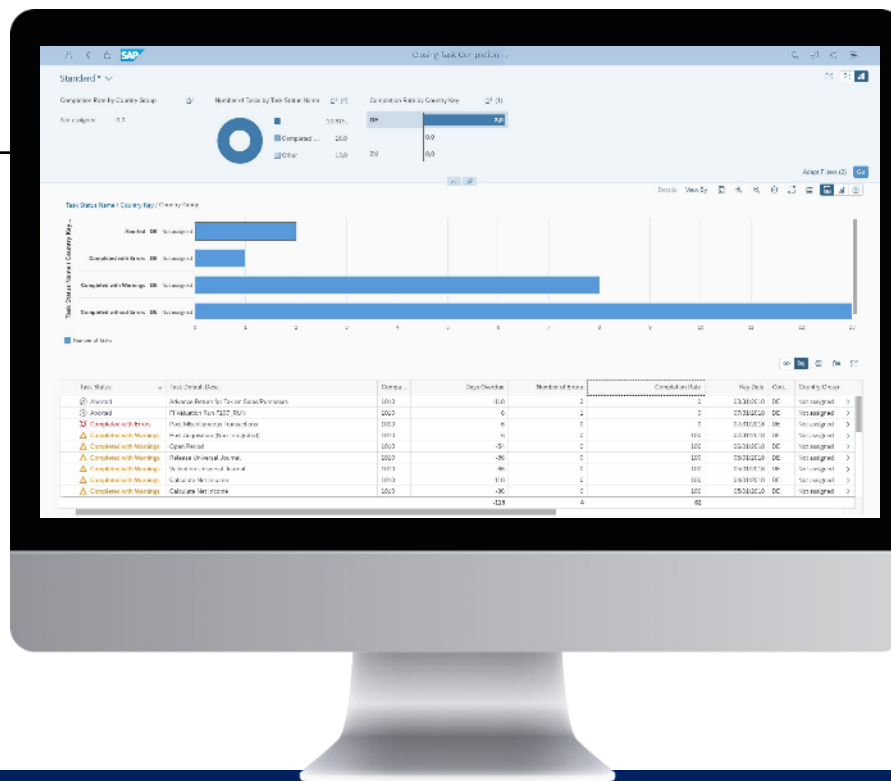
- Selection for Source System:** Includes a field for 'Source System' (MFG).
- Parameters for Source System:** Includes 'Version' (01) and 'Planning Currency Type' (Transaction currency).
- Parameters from Central Finance System for Reading:** Includes 'Controlling Area' (A000), 'Fiscal Year' (2024), 'Posting Period' (05), 'Cost Center' (17181301), 'GL Account' (42001040), and 'Transaction Currency' (USD).
- Parameters from Central Finance System for Writing:** Includes 'Ledger' (US) and 'Plan Category' (FINAL).
- Simulation:** Includes a 'Test Run' button.

The interface also features a top navigation bar with options like 'Program', 'Edit', 'Go to', 'System', and 'Help', and a right-hand sidebar with 'Exit' and 'Help' options.

Transfer Plan Data App

## Benefits

- **Faster Entity Close**  
through improved  
closing efficiency
- Governance  
and Compliance
- **Transparency**  
and **Insight**



## Capabilities

- **Automated closing tasks** and workflow-supported intuitive apps for manual tasks.
- **Collaboration**, notifications, and escalations.
- **Define a global game plan** for the entity close; serialize for multiple org units and closing cycles.
- **Audit trail**, logging, documentation.
- **Comprehensive analytics** for real-time insight into the closing status.
- **Monitoring for subsidiaries** and headquarters.

# 15-25%

**Faster closing cycle** – while ensuring high-quality compliant results.

Source: SAP Performance Benchmarking



## Out-of-the-Box Integration

### Delivering SAP's Broad Portfolio for Treasury and Working Capital



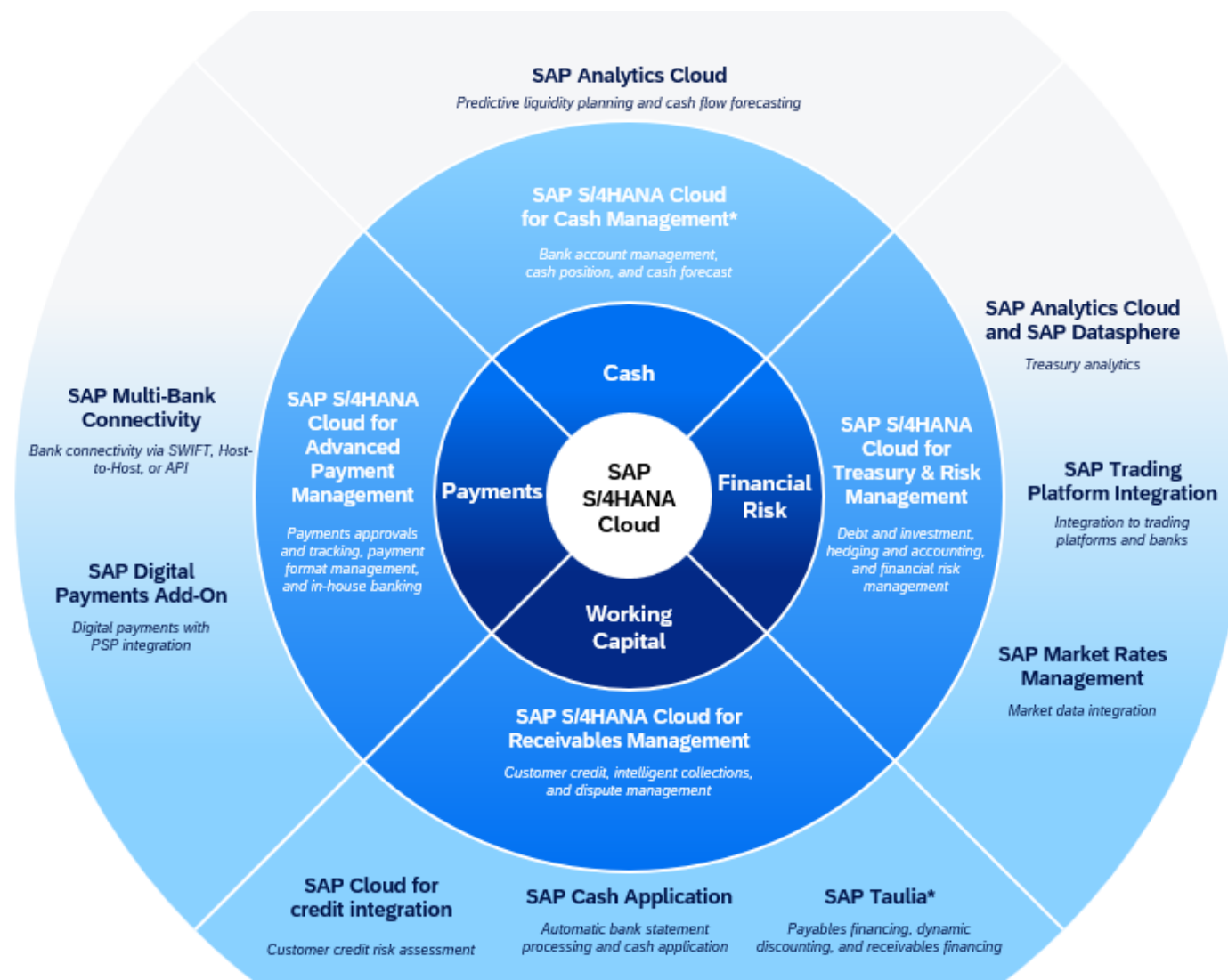
**Treasury pillars**



**Core treasury capabilities and solutions** *(additional license required)*



**Value-added capabilities and solutions** on SAP Business Technology Platform



\* SAP Taulia on its own platform, fully integrated into SAP S/4HANA Cloud



# Out-of-the-Box Integration

## SAP Multi-Bank Connectivity

### Different options to connect corporate customers and banks:

#### SWIFT

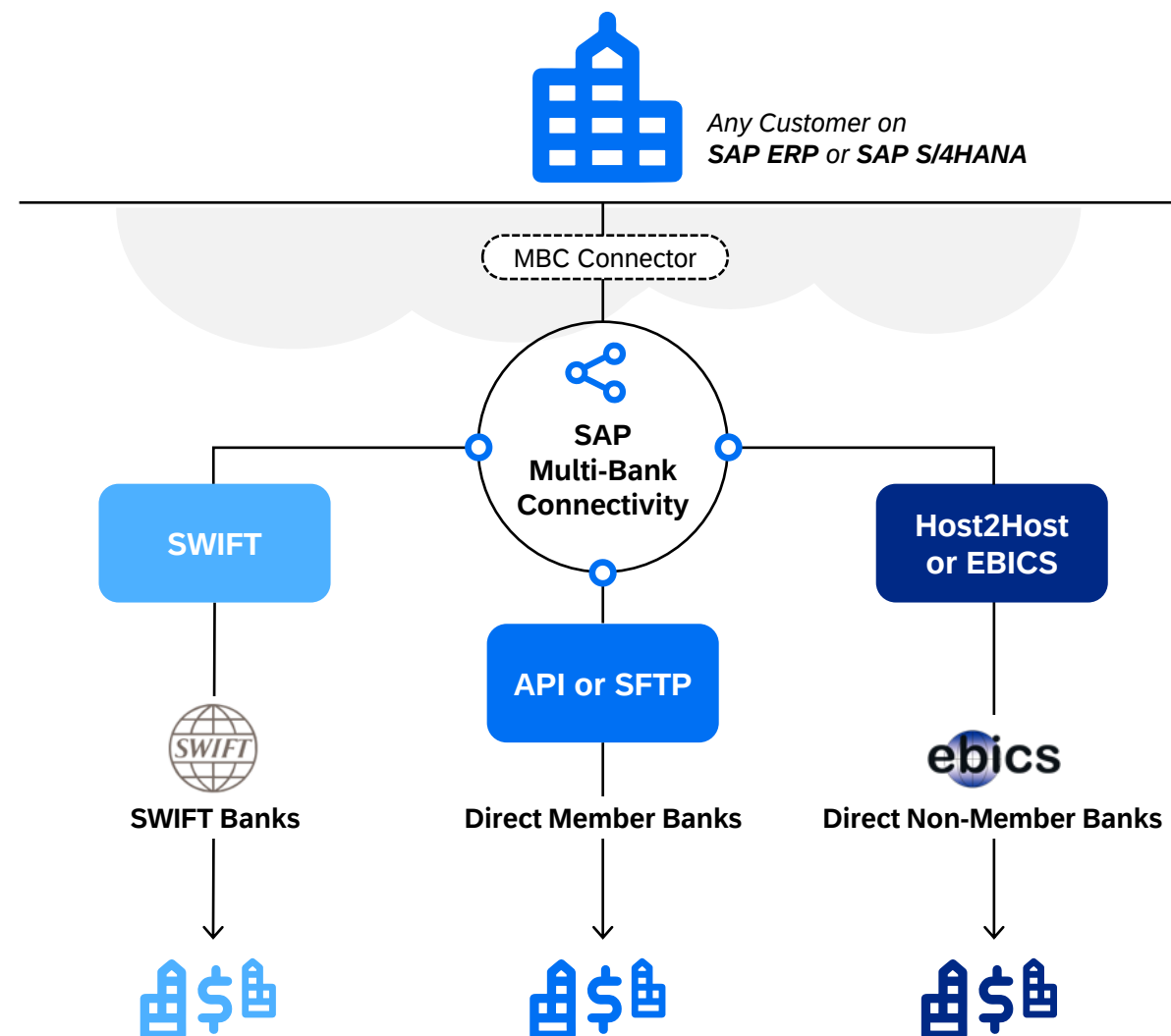
The solution is **fully SWIFT certified** as SWIFT L2BA provider and offers the possibility to connect to the extensive list of SWIFT banks throughout the world.

#### API or SFTP

**Direct Member Banks** are connected via a standardized connection using bank APIs or protocols like SFTP.

#### Host2Host or EBICS

In an instance where a corporate customer requires to have a direct connection to a bank that does not have a contractual agreement with MBC, SAP establishes a **direct connection** between corporate customer and the non-member bank.





# Out-of-the-Box Integration

## SAP S/4HANA Cloud for Advanced Payment Management / SAP Payment Factory

### Solution Capabilities

SAP S/4HANA Finance for advanced payment management allows you to centralize all payment activities of a corporate group:



**Complete cash management solution** with advanced payment management capabilities.



Fully functional **Advanced Payment Factory** in the cloud.



**Payment verification** against sanctioned party list.



**Automatic notifications** for events during payment lifecycle.



**Format mapping tools** for ISO conversion.

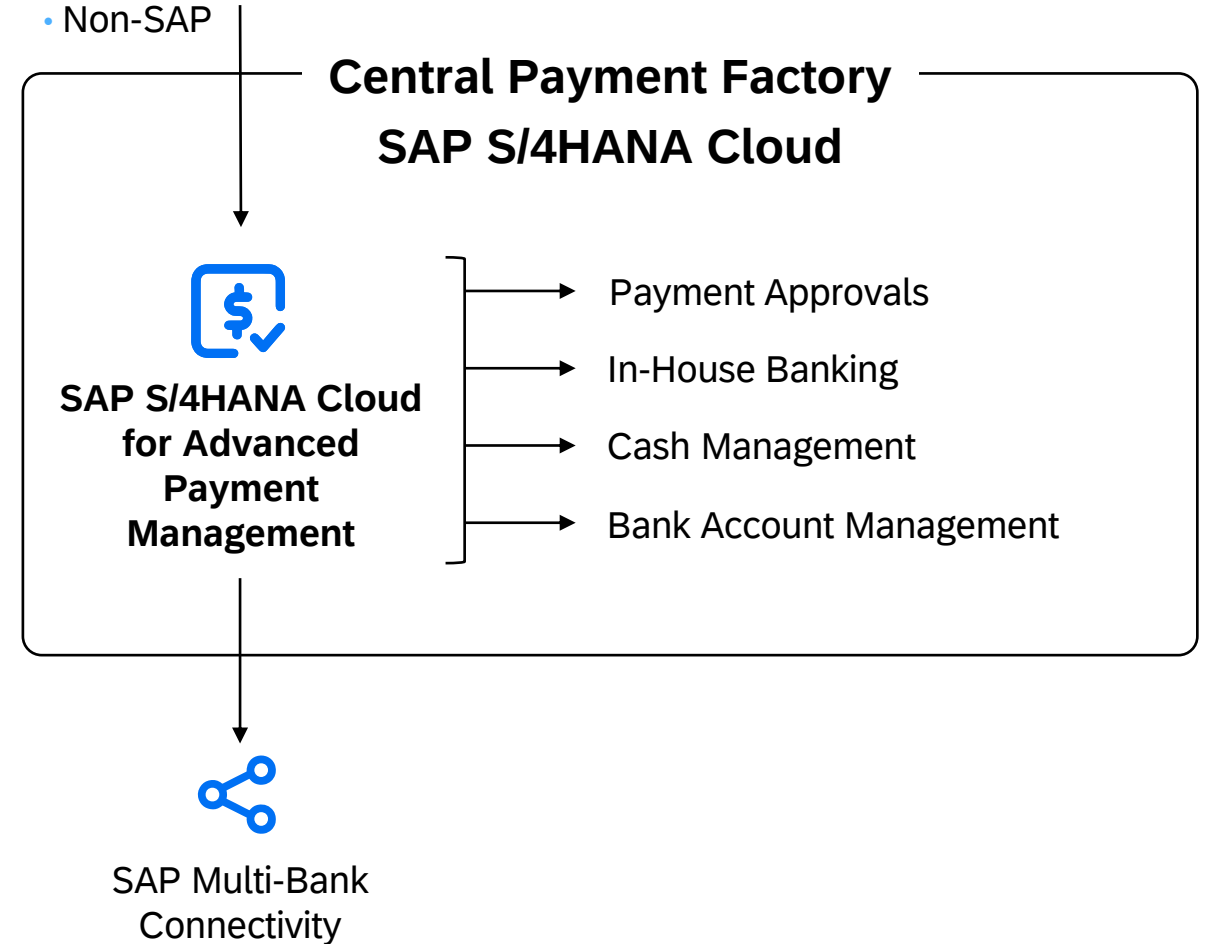


Enablement of various card payment options through **SAP digital payments add-on**.



Automated **corporate-to-bank connectivity** in the cloud.

- SAP S/4HANA
- Business Suite
- Non-SAP







## Out-of-the-Box Integration SAP Digital Payment Add-On

### Solution Capabilities



**Out-of-the-box integration** to multiple Payment Service Providers (PSPs) without implementation efforts.



**Easy enabling** of new payment methods and PSPs.



**Tokenization approach** avoids costs and risks.



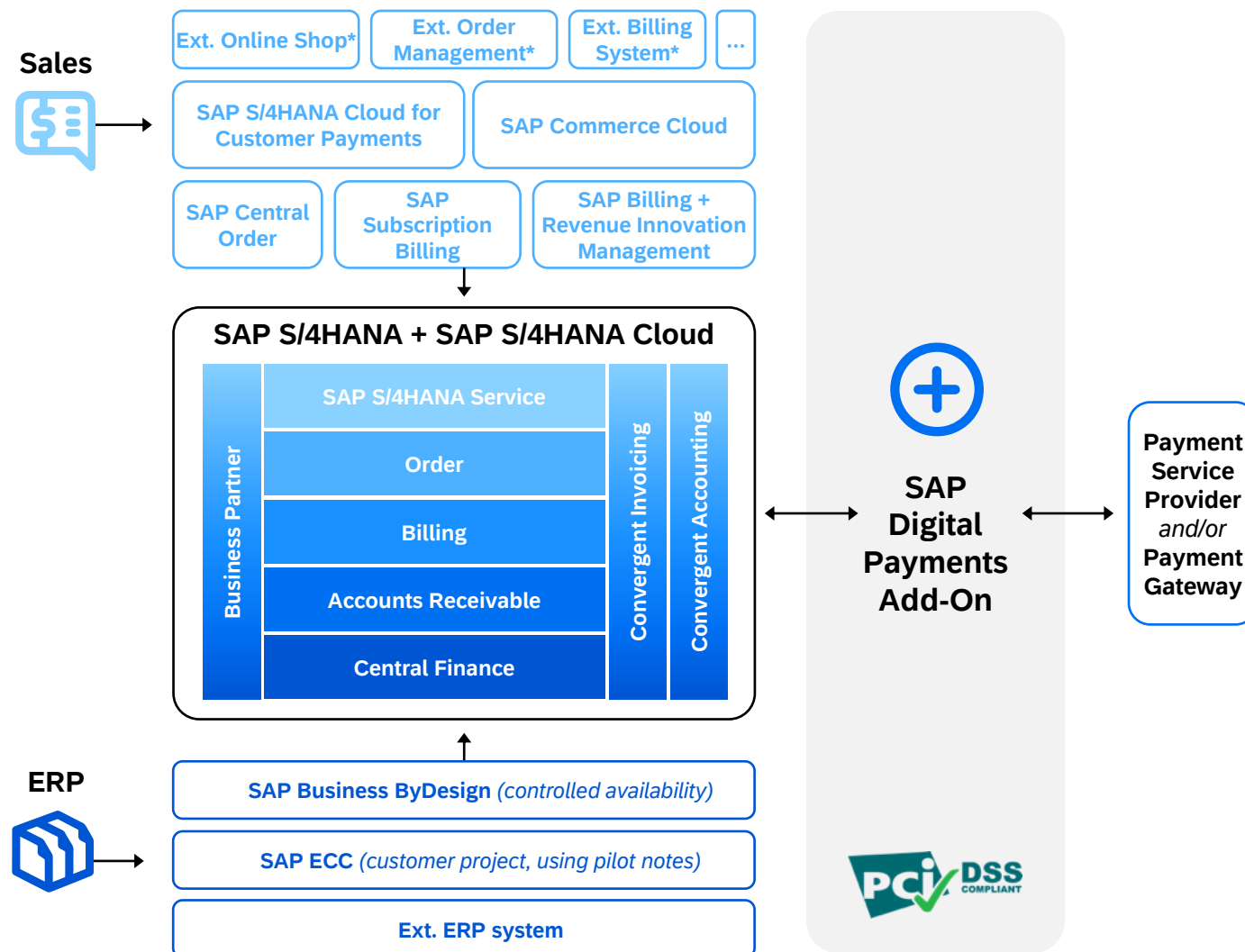
**Automated splitting** and posting of fees and taxes related to payments.



**Automated reconciliation** of payments with open items.



**Stable and harmonized** interfaces for all SAP and non-SAP solutions.



## Introducing a new way to automate customer credit risk monitoring

- Respond immediately to changing credit conditions
- Reflect external ratings updates immediately in your scorecards
- Integrates external credit data from **>18 credit agencies** into SAP Credit Management out of the box, no technical lock-in
- Link credit risk monitoring services from leading credit experts with your S/4HANA or ECC system
- Improve your scorecard accuracy





# Out-of-the-Box Integration

## SAP S/4HANA Cloud for Cash Management

### Solution Capabilities



#### Bank Account Management

Centrally manage global bank accounts, correspondence and signatories.



#### Cash Operation

Full visibility on cash positions and cash forecast.



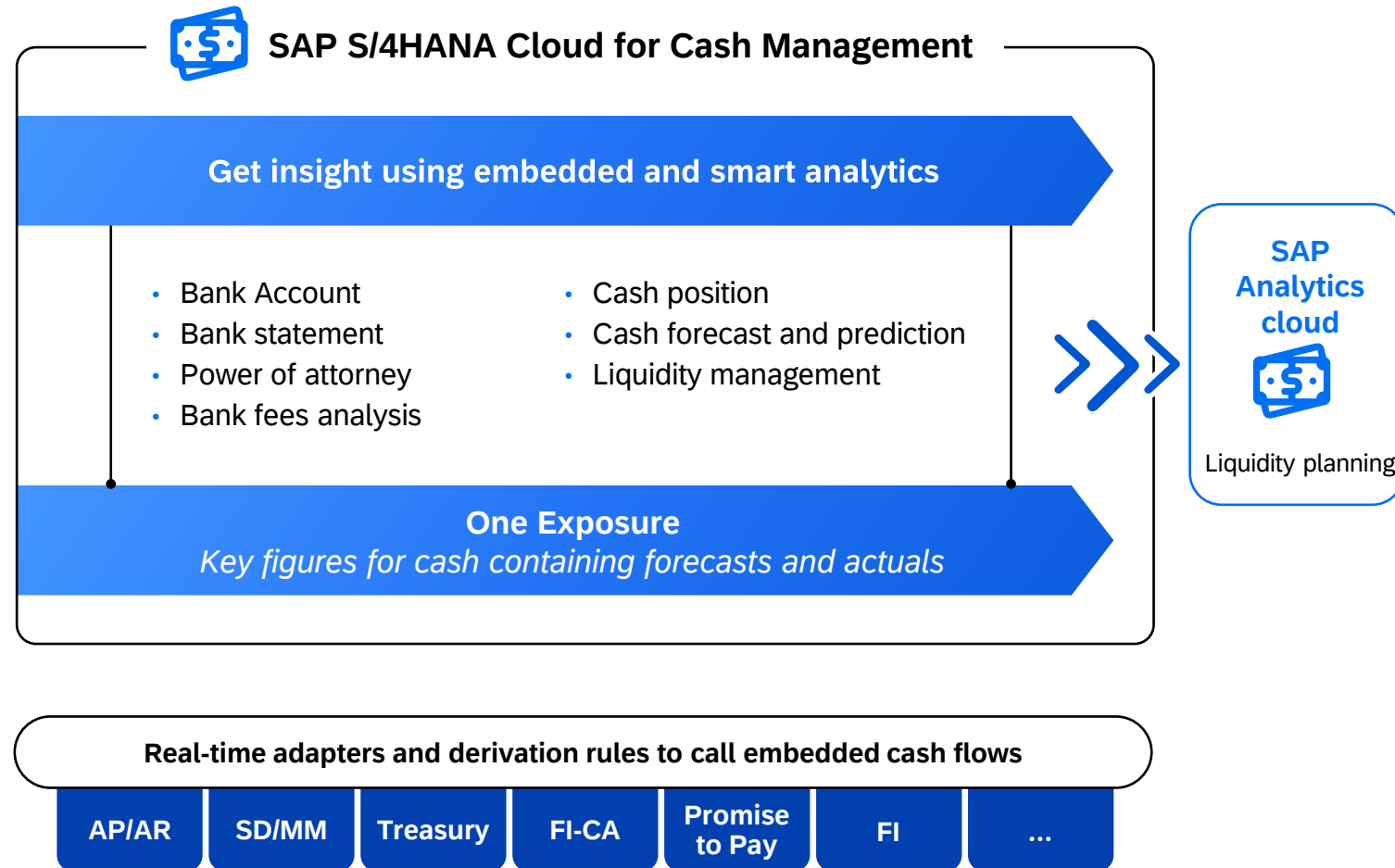
#### Liquidity Planning

Unleash the power of SAP Analytics Cloud for Predictive Liquidity planning.



#### Seamless Integration to Trading Platform Integration

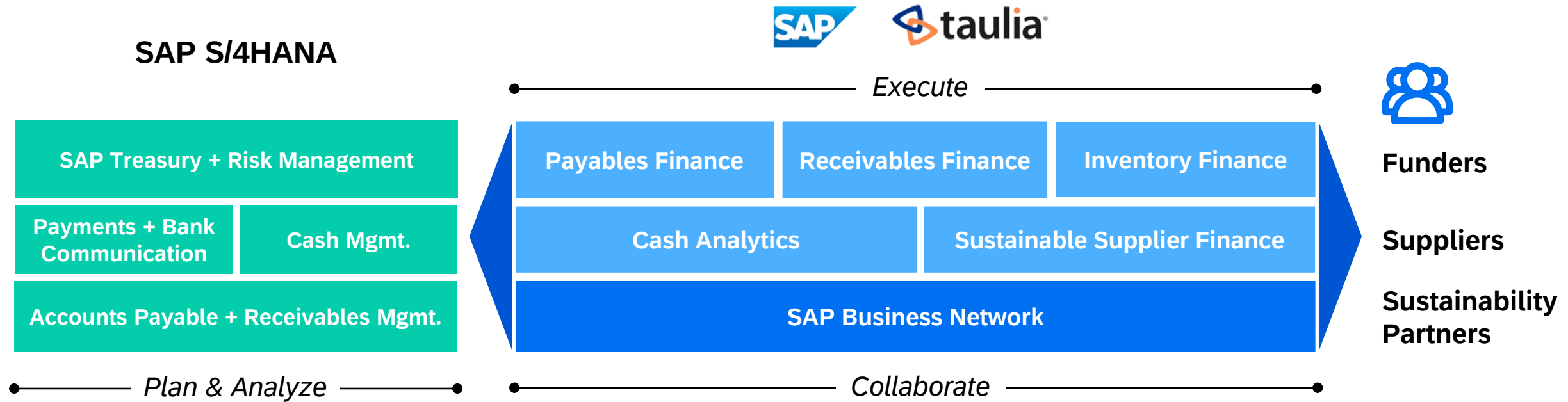
Initiate FX and MM request out of cash flow analyzer.





# Out-of-the-Box Integration

## Working Capital Management with SAP and SAP Taulia





## Out-of-the-Box Integration

### Working Capital Management with SAP and SAP Taulia



#### Dynamic Discounting

Offer suppliers early payment and earn a risk-free return for your business.



#### Supply Chain Finance

Offer your suppliers vital cash flow freedom using third-party funded Reverse Factoring.



#### Inventory Finance

This provides supply chain assurance, mitigating against long lead times, stock outages, and lost sales.



#### Receivables Finance

Receive early payment on invoices due from customers. Optimise working capital, reduce DSO.



#### Analytics & AI

An intelligent analytics suite that guides you in how to improve working capital performance.



#### Multi-Funder Platform

Access funding from your relationship banks and from our global network to get the cash you need.



#### End-2-End

SAP Treasury solutions enable detailed planning, SAP Taulia WCM enables program setup and execution, while SAP Business Network enables collaboration with funders and suppliers.



#### ESG

Reward suppliers for meeting specific ESG targets through the terms of the financing agreement, incentivizing ethical practices.



# Out-of-the-Box Integration

## Payables and Receivables Financing with SAP and SAP Taulia

With the **Payables Financing** solution, you can make early payments to your suppliers using various financing types provided by SAP Taulia, such as supply chain financing, dynamic discounting and virtual cards. This improves your cash flow while providing your suppliers with enhanced liquidity.

**Receivables Financing** allows you to get immediate cash by selling your outstanding receivables to a third party, known as the funder. With the integration of both products, you gain access to multiple funders and financing options, helping you improve working capital velocity and unlock investment capacity for growth.

SAP

Payables Financing Order ▾

🔍

🔔

💎

📄

❓

👤

270

Summarize🔗

General Information

Financing Order Items

Administrative Data

General Information

Financing Type:  
Supply Chain Financing

Due Date:  
09/05/2025

Credit Note Netting:  
No

Funder Bank Type:  
FD01

Funder:  
[10300023 \(Funder Payable Financing\)](#)

Financing Order Items (1) Sabrina ▾

Search 🔍

📄

☰

⌵

⚙️

🏠

▾

Journal Entry	Company Code	Fiscal Year	Indicator	Invoice Reference	Amount	
1900004009	1010 (Company Code 1010)	2025	Leading Invoice		-6,000.00	EUR

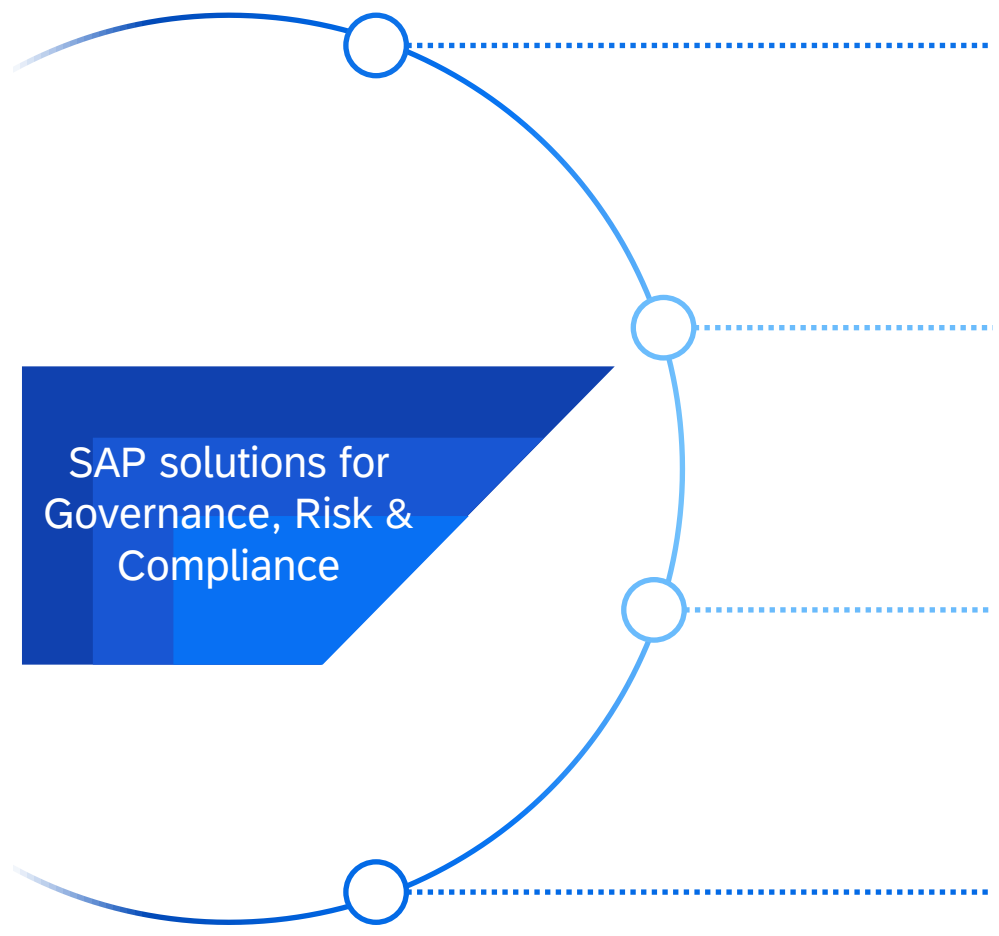
Clearing Status: Open Item

Document Reference ID: DEMO-SCF-0707



# Out-of-the-Box Integration

## One View of Risks with SAP solutions for Governance, Risk, and Compliance & Security



### Enterprise Risk Management

Assess risks



Optimize assurance



### Controls and Compliance

Execute controls, fraud and compliance



Govern global trade and taxes



### Identity and Access Governance

Manage identities and access controls



Implement user authentication efficiencies



### Security and Data Protection

Protect sensitive data



Monitor insider and outsider threats



SAP S/4HANA

SAP S/4HANA Cloud

SAP Analytics Cloud

SAP BTP

SAP Signavio

SAP SuccessFactors

SAP Ariba

SAP Fieldglass

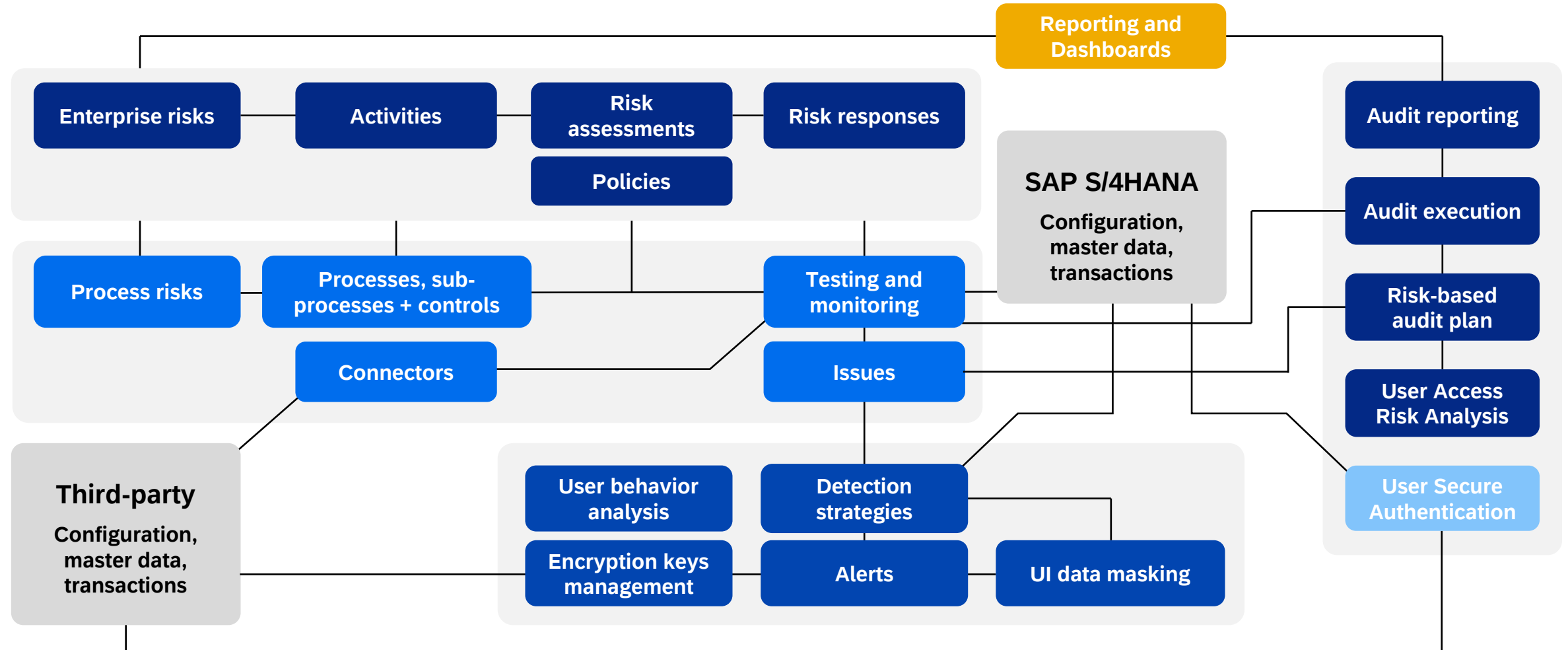
SAP Concur

3<sup>rd</sup> Party



# Out-of-the-Box Integration

## Modular GRC solutions with native integration to SAP S/4HANA Cloud Private Edition



Executive Reporting



Enterprise Risk Management



Controls + Compliance



Security + Data Protection



Identity + Access Governance





# Out-of-the-Box Integration

## SAP Financial Compliance Management: Simplifying Compliance with embedded continuous monitoring and testing of operational controls

### Benefits

Financial compliance in the cloud, with its characteristic low TCO and short time to operationalize

Take advantage and comfort in the ready to use content to rapidly build out your internal controls framework

Lower cost per control: low infrastructure cost and increased automation of controls

Single consolidated view of adequacy of financial controls reducing the likelihood of audit failures, share value erosion, fines, prison

Better demonstrate that financial objectives are being achieved, repeatably, enhancing investment and liability management

System Type	Procedure Name	Status	Last Changed On	ID
SAP S/4HANA Cloud	Journal Entries That Exceed Defined Threshold Amount	Active	Aug 11, 2021, 4:55:08 PM	54
SAP S/4HANA Cloud	Supplier Invoice 95	Active	Jul 5, 2021, 4:13:35 AM	74
SAP S/4HANA Cloud	Workorder entries in IS	Active	Jun 30, 2021, 12:55:17 PM	72
SAP S/4HANA Cloud	Manual postings created by user - with Active Fields	Active	Jun 29, 2021, 9:57:29 PM	16
SAP S/4HANA Cloud	Manual Postings Created By Shading User Accounts	Active	Jun 29, 2021, 11:26:13 AM	56
SAP S/4HANA Cloud	Duplicate Journal Entries with Same General Ledger Account and Description	Active	Jun 24, 2021, 11:41:32 AM	60
SAP S/4HANA Cloud	Duplicate Journal Entries with Same Amount and Description	Active	Jun 24, 2021, 11:50:08 AM	59
SAP S/4HANA Cloud	Duplicate Journal Entries with Same General Ledger Account and Amount	Active	Jun 24, 2021, 11:55:15 AM	58
SAP S/4HANA Cloud	Journal Entries Posted by General Ledger Accounts Not Used for Specified Amount of Time	Active	Jun 24, 2021, 12:01:34 PM	57
SAP S/4HANA Cloud	Intercompany Postings with No Trading Partner	Active	Jun 24, 2021, 12:06:35 PM	55
SAP S/4HANA Cloud	Journal Entry Items That Exceed Defined Threshold Amount	Active	Jun 22, 2021, 9:49:22 PM	53
SAP S/4HANA Cloud	Purchase Orders with Cleared Invoices and No Goods Receipt	Active	Jun 24, 2021, 2:20:27 PM	52
SAP S/4HANA Cloud	Same User Created Supplier and Purchasing Document	Active	Jun 24, 2021, 2:25:03 PM	51
SAP S/4HANA Cloud	Changes Made to Critical Fields in Purchasing Documents	Active	Jun 24, 2021, 2:22:47 PM	50
SAP S/4HANA Cloud	Purchasing Document Items With Overpaid Goods Receipts	Active	Jun 24, 2021, 2:22:04 PM	49
SAP S/4HANA Cloud	Purchase Order Items Where Delivery of Goods Receipt is Possible	Active	Jun 24, 2021, 2:21:17 PM	48
SAP S/4HANA Cloud	Blocked Suppliers with Open Items	Active	Jun 24, 2021, 12:10:59 PM	47
SAP S/4HANA Cloud	Suppliers with Duplicate Invoice Check Disabled	Active	Jun 24, 2021, 12:11:29 PM	46

### Capabilities

Predefined integration and content for SAP S/4HANA, and in future other cloud solutions

Continuous process monitoring embedded within the source system, as well as manual procedure and issue documentation

User-definable business rules and triggering conditions

Automated exception routing to the relevant stakeholder for remediation

Out-of-the-box reporting templates and support for customization

Integration with SAP Signavio for automated process and control synchronization



# Out-of-the-Box Integration

## Financial Accounting with SAP S/4HANA Cloud Private Edition and SAP Analytics Cloud

### SAP Fiori app: Manage Financial Plan data

The new SAP Fiori app **Manage Financial Plan Data**, which you can use to do the following:

- Provides a framework in SAP S/4HANA Cloud Private Edition to configure and schedule financial plan data integration jobs.
- Utilizes SAP Analytics Cloud as the data source and SAP S/4HANA Cloud Private Edition as the target system.
- Facilitates automated transfer of financial plan data and allows custom job configurations.

### Benefit

- Streamlines financial data integration between SAP Analytics Cloud and SAP S/4HANA Cloud Private Edition.
- Reduces manual effort with automated data transfer.
- Enhances planning efficiency by aligning workflows across systems.
- Supports configurable job scheduling for flexibility.

The screenshot shows the SAP Fiori app interface for 'Manage Financial Plan Data'. The title bar indicates 'Change View "Configuration ID for Financial Plan Data": Overview'. Below the title bar are buttons for 'Menu', 'New Entries', 'Copy As...', 'Delete', 'Undo Change', 'Select All', 'Select Block', and 'Deselect All'. On the right side of the title bar are search, notification, and user icons, along with 'Display' and 'Exit' buttons.

The main content area is divided into two panels. The left panel, titled 'Dialog Structure', shows a tree view with the following items: 'Tenant ID for Financial Plan Data', 'Configuration ID for Financial Plan Data' (selected), 'Mapping of Financial Plan Data', and 'Filter Settings for Financial Plan Data'. The right panel, titled 'Configuration ID for Financial Plan Data', displays a table with the following columns: 'Configuration ID for Import', 'Description', 'Active', 'Target Type', 'Tenant ID ...', 'Provider Name for Plan Data', 'Package Size', and 'Changed On'.

Configuration ID for Import	Description	Active	Target Type	Tenant ID ...	Provider Name for Plan Data	Package Size	Changed On
<input type="checkbox"/> ACCOSTRATE_TOTAL_RATE	ACCOSTRATE total CR amounts	<input checked="" type="checkbox"/>	ACCOSTRATE	CONT	SAP_FI_IFP_IM_OPEX	1	20.11.2024 16:35:00
<input type="checkbox"/> FINSSKF_PRCTR	FINSSKF with Profit Center account assignment	<input checked="" type="checkbox"/>	FINSSKF	CONT	SAP_FI_IFP_IM_OPEX	1	21.11.2024 10:15:16
<input type="checkbox"/> FINSSKF_RCNTN	FINSSKF with Cost Center account assignment	<input checked="" type="checkbox"/>	FINSSKF	CONT	SAP_FI_IFP_IM_OPEX	1	21.11.2024 10:15:16
<input type="checkbox"/> FINSSKF_RCNTN_ACTVT	FINSSKF with Cost Center Activity Type acc. as...	<input checked="" type="checkbox"/>	FINSSKF	CONT	SAP_FI_IFP_IM_OPEX	1	21.11.2024 10:15:16
<input type="checkbox"/> FINSSKF_WBS	FINSSKF with WBS Element account assignment	<input checked="" type="checkbox"/>	FINSSKF	CONT	SAP_FI_IFP_IM_OPEX	1	21.11.2024 10:15:16
<input type="checkbox"/> PNL DATA TO ACDOCP	ACDOCP P&L plan data	<input checked="" type="checkbox"/>	ACDOCP	CONT	SAP_FI_IFP_IM_OPEX	1	21.11.2024 10:15:16

At the bottom of the table, there is a 'Position...' button and a status indicator 'Entry 1 of 6'. At the bottom right of the app, there are 'Save' and 'Cancel' buttons.

SAP Fiori app: Manage Financial Plan Data

# Compatibility Pack in Finance



## CP ID 105: SAP Financial Closing cockpit

- Alternative option: SAP S/4HANA Cloud for financial closing cockpit, private edition - material code 8008936)
- [SAP S/4HANA 1909](#)
- SAP Advanced Financial Closing
- PV

## CP ID 426: FI-DataSources in Finance

- Alternative option: BW Extractors released for SAP S/4HANA, Group Reporting, Cash Management
- [SAP S/4HANA 1909](#)

## CP ID 427: EC-PCA - Classical profit center accounting

- Alternative option: "Profit Center Accounting on Universal Journal" in SAP S/4HANA
- [SAP S/4HANA 1909](#)

## CP ID 428: FI-AA / Group Assets

- Alternative option: None

## CP ID 430: Special purpose ledger; cost of sales ledger

- Alternative option: "Financial Reporting based on the universal journal (ACDOCA); special ledger use cases to be included in universal journal.
- [SAP S/4HANA 1909](#)

## CP ID 431: Schedule Manager

- Alternative option: "SAP S/4HANA Cloud for Advanced Financial Closing  
[PV](#)

# Compatibility Pack in Finance



## CP ID 433: Reporting/Analytics in Finance and Controlling

- Alternative option: Financial Reporting based on the universal journal (ACDOCA) using virtual data model and SAP Fiori.
- [SAP S/4HANA 1909](#)

## CP ID 434: Consolidation preparation - Closing Operations

- Alternative option: SAP S/4HANA Finance for Group Reporting
- [SAP S/4HANA 1909](#)

# Sourcing and Procurement





## SAP Cloud ERP Private differentiators

**SAP HANA and  
Embedded Analytics**



SAP HANA and Real-time Analytics

Supplier Management	Operational Procurement	Contract Management	Sourcing and Invoice Management	Central Procurement and Cross
<ul style="list-style-type: none"> <li>• Supplier Evaluation By Time</li> <li>• Supplier Evaluation By Price</li> <li>• Supplier Evaluation By Quantity</li> <li>• Supplier Evaluation by Quality – by Inspection Lot</li> <li>• Supplier Evaluation by Quality – by Quality Notification</li> <li>• Operational Supplier Evaluation</li> <li>• Supplier Evaluation by Questionnaire</li> <li>• Supplier Evaluation by User Defined Criteria (incl. Parts per Million)</li> <li>• Overall Supplier Evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Purchase Order Value and Scheduling Agreement Spend</li> <li>• Purchasing Spend</li> <li>• Purchase Order Average Delivery Time</li> <li>• Overdue Purchase Order Items</li> <li>• Purchase Order Changes</li> <li>• Purchase Order Output Automation Rate</li> <li>• Purchase Requisition Item Types</li> <li>• Purchase Requisition Average Approval Time – Release Strategy</li> <li>• Purchase Requisition Average Approval Time – Flexible Workflow</li> <li>• Purchase Requisition To Order Cycle Time</li> <li>• Purchase Requisition No Touch Rate</li> <li>• Purchase Requisition Item Changes</li> <li>• Product Carbon Footprint for Requested Products</li> <li>• Monitor Supplier Confirmations</li> <li>• Monitor Purchase Order Items</li> <li>• Monitor Purchase Requisition Items</li> <li>• Procurement Overview</li> <li>• Purchasing Spend Dashboard*</li> </ul>	<ul style="list-style-type: none"> <li>• Unused Contracts</li> <li>• Contract Expiry</li> <li>• Off-Contract Spend</li> <li>• Contract Leakage</li> <li>• Value Contract Consumption</li> <li>• Quantity Contract Consumption</li> <li>• Scheduling Agreement Consumption</li> <li>• Monitor Scheduling Agreement Items</li> <li>• Monitor Purchase Contract Items</li> </ul>	<ul style="list-style-type: none"> <li>• Request for Quotation Types</li> <li>• Product Sourcing Overview</li> <li>• Monitor Request for Quotation Items</li> <li>• Invoice Price Change</li> <li>• Supplier Invoice Inbound Automation Rate</li> <li>• Non-Managed Spend</li> </ul>	<ul style="list-style-type: none"> <li>• Central Purchase Contract Consumption</li> <li>• Global Purchasing Spend</li> <li>• Central Purchase Requisition Item Types</li> <li>• Spend Variance</li> <li>• Purchasing Group Analysis</li> <li>• Parts per Million</li> <li>• Material Price Variance</li> <li>• Monitor Purchase Order Items Centrally</li> <li>• Monitor Central Purchase Contract Items</li> <li>• Monitor Central Purchase Order Items</li> <li>• Monitor Purchase Requisition Items centrally</li> </ul>



## SAP Cloud ERP Private differentiators

# Data Products and Intelligent Applications





# Data products

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.

These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.

[Available data products](#)

<div><div></div><div>Data Product</div></div> <div>Purchase Requisition</div> <div>Data Product Purchase Requisition</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Purchase Contract</div> <div>Data Product Purchase Contract</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Purchase Order</div> <div>Data Product Purchase Order</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Procurement Configuration Data</div> <div>Data Product Procurement Configuration Data</div> <div>Version 1.0.1</div> <div>ACTIVE</div>
<div><div></div><div>Data Product</div></div> <div>Service Entry Sheet</div> <div>Data Product Service Entry Sheet</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Request For Quotation</div> <div>Data Product Request For Quotation</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Supplier Invoice</div> <div>Data Product Supplier Invoice</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Supplier Quotation</div> <div>Data Product Supplier Quotation</div> <div>Version 1.0.1</div> <div>ACTIVE</div>
<div><div></div><div>Data Product</div></div> <div>Purchasing Organization</div> <div>Data Product Purchasing Organization</div> <div>Version 1.1.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Purchase Scheduling Agreement</div> <div>Data Product Purchase Scheduling Agreement</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Purchasing Info Record</div> <div>Data Product Purchasing Info Record</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div><div></div><div>Data Product</div></div> <div>Purchasing Source List</div> <div>Data Product Purchasing Source List</div> <div>Version 1.0.1</div> <div>ACTIVE</div>



# SAP Cloud ERP Private differentiators

**SAP Fiori**

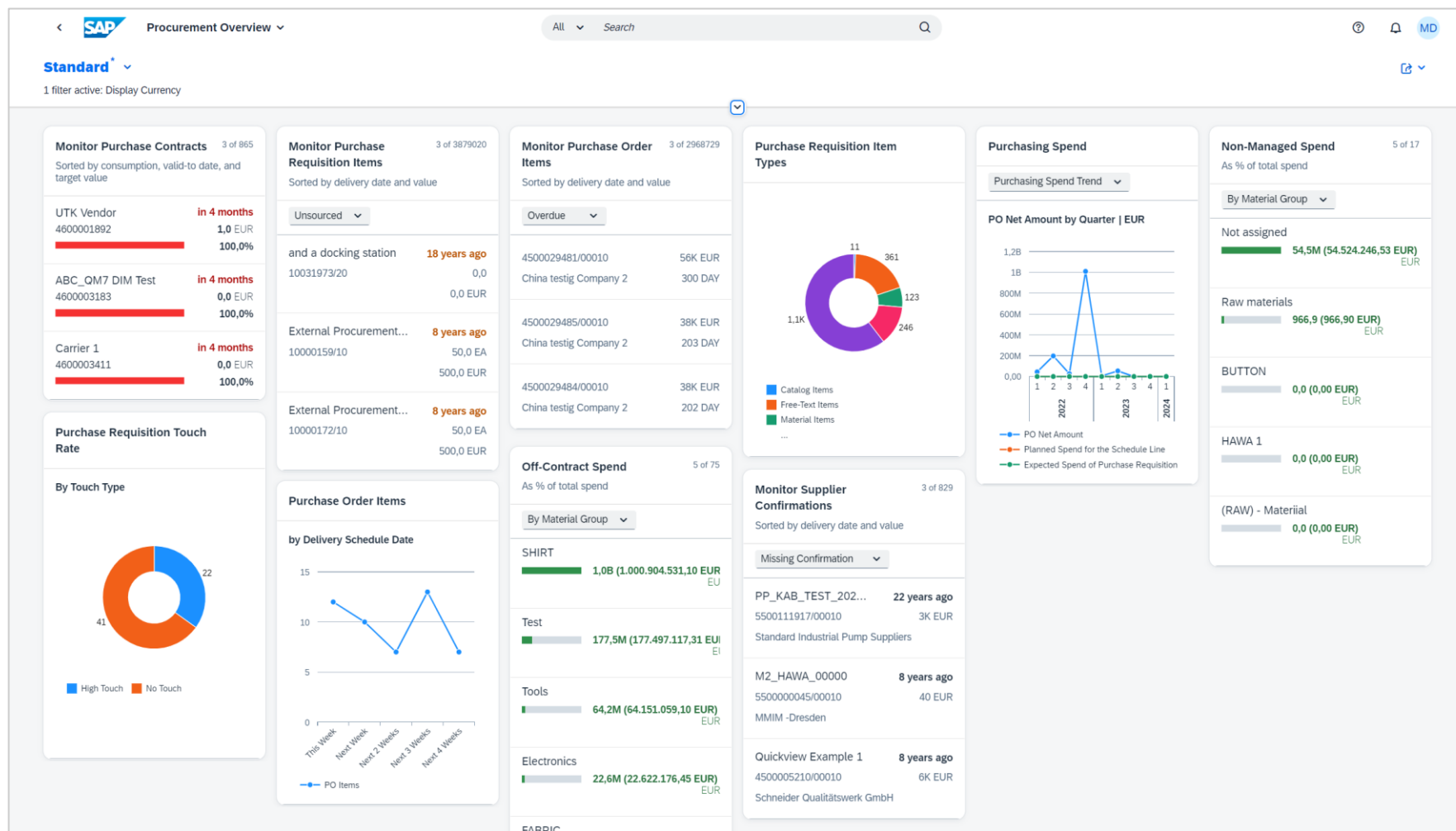


## SAP Fiori Lighthouse Apps

### Procurement Overview

- Gain an overview on your procurement items in one configurable dashboard and manage your action items in ways that focus your attention and improve prioritization
- Personalize your overview page by (un)hiding and arranging cards and applying filters to the displayed information as needed

[Link to documentation](#)





## **Process Purchase Requisitions** **(formerly “Manage Purchase Requisitions”)**

- Monitor the status of Purchase Order items based on criteria such as material, supplier, quantity, value, status etc.
- Apply filters and grouping to accommodate your requirements, and drill down immediately to resolve the issues

[Link to documentation](#)

PUBLIC



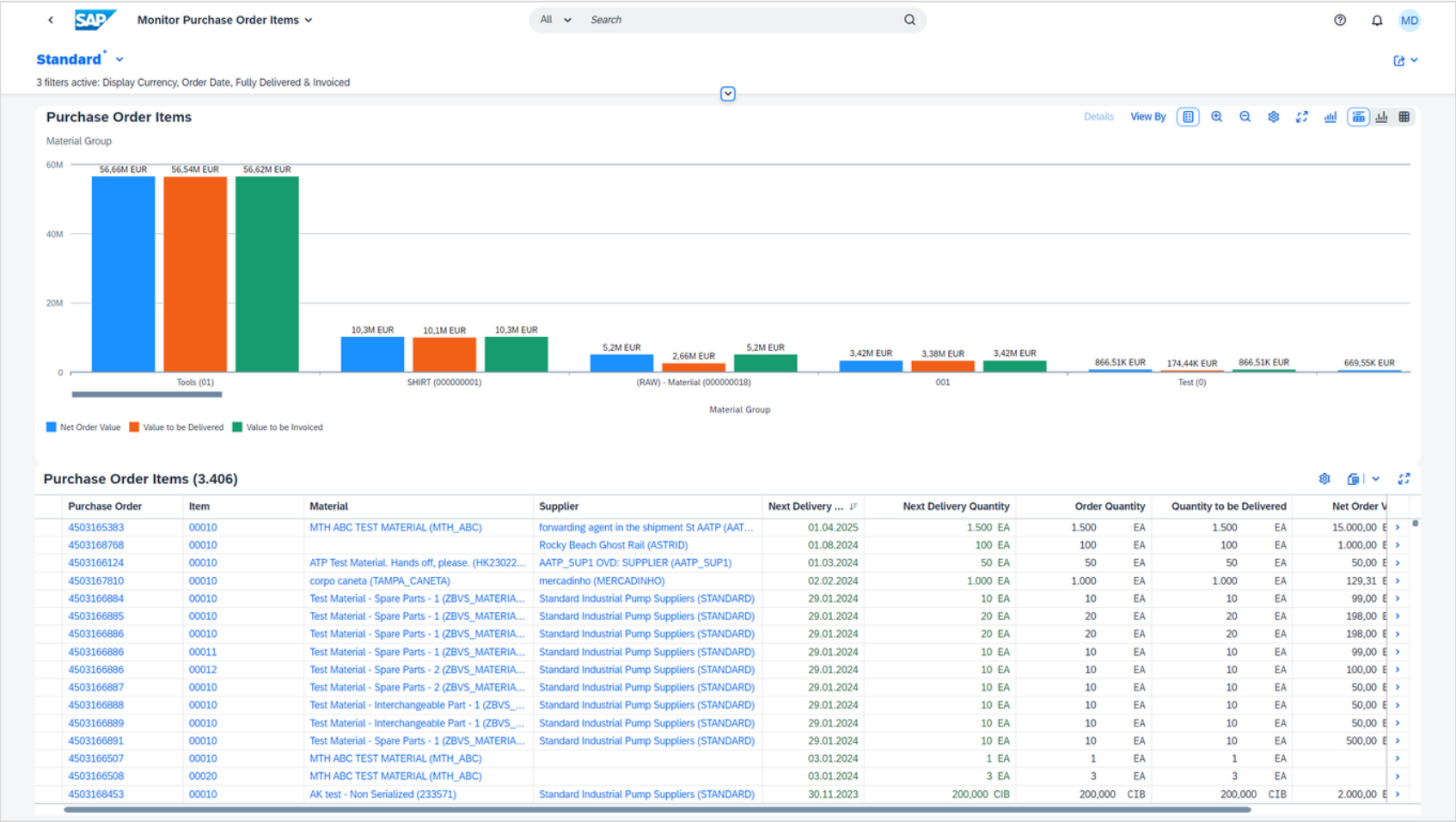
# SAP Fiori

## Lighthouse Apps

### Monitor Purchase Order Items

- Monitor the status of Purchase Order items based on criteria such as material, supplier, quantity, value, status etc.
- Apply filters and grouping to accommodate your requirements, and drill down immediately to resolve the issues

[Link to documentation](#)





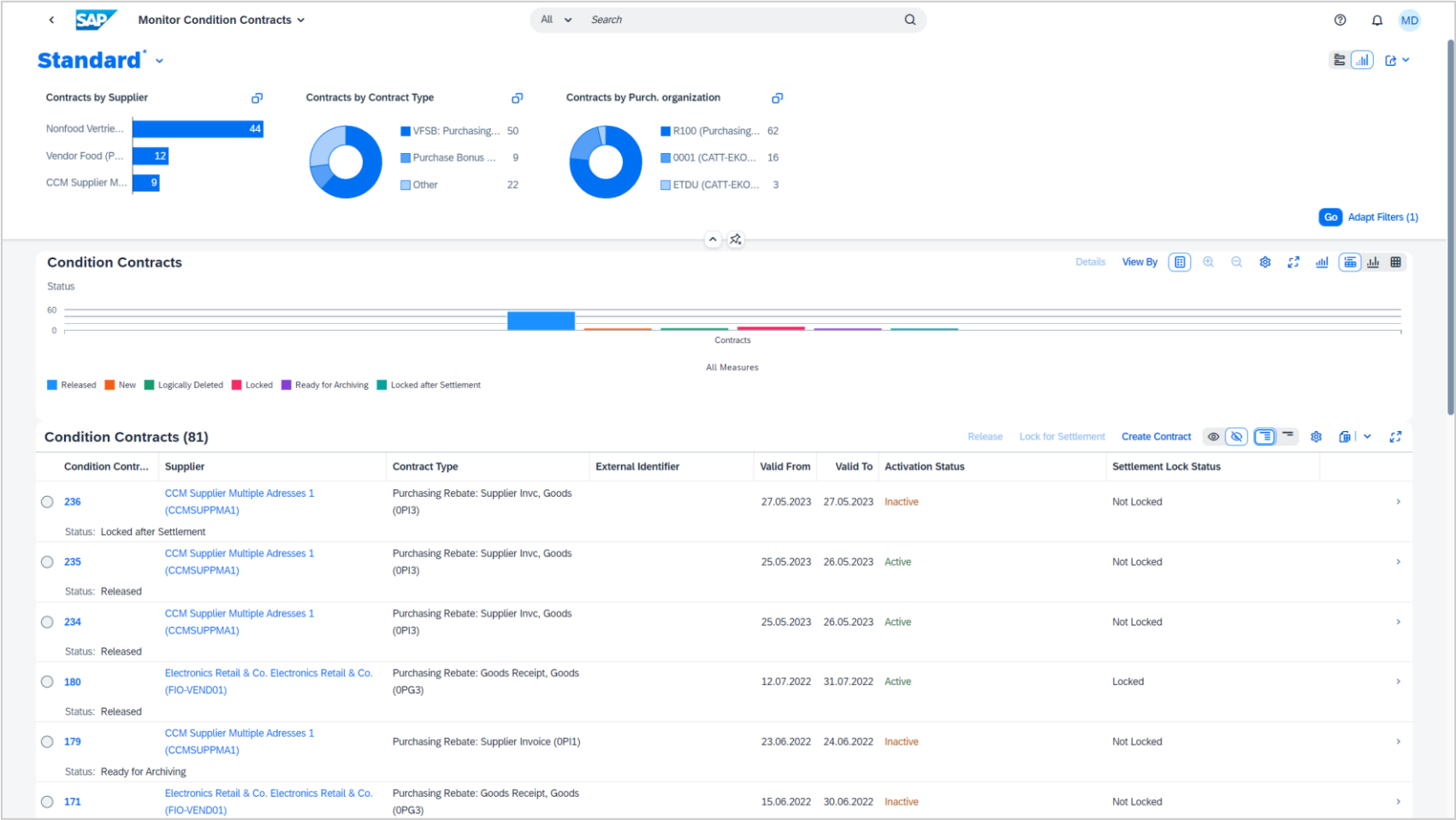
# SAP Fiori

## Lighthouse Apps

### Monitor Condition Contracts

- Benefit from the flexibility and performance of supplier rebate management capability in the private edition of SAP S/4HANA Cloud and improve transparency across your processes with SAP Fiori apps
- This functionality has been completely redesigned and re-implemented, fully leveraging workflow and extensibility options in SAP S/4HANA.

[Link to documentation](#)





# SAP Fiori

## Lighthouse Apps

### Sourcing Project

- Streamline your supplier award process when sourcing projects by structuring your RFPs and comparing incoming quotations, all the way down to detailed cost breakdowns for each supplier

[Link to documentation](#)

SAP

Sourcing Project

All

Search

Facility Services St. Leon-Rot 2024

1000000756

Copy

Complete

Cancel

General Information

Delivery and Payment Terms

Milestones

Versions

Contacts

Procurement Projects

Items

Supplier List

Supplier Quotations

Negotiations

Awarding Scenarios

Legal Transactions

Notes

Attachments

Approval Details

Supplier List

Supplier List Status: Released

Sourcing Supplier List Version: 1

Save as Favorite

Create Quotation

Create Simulated Quotation

Decline Participation

Lock Supplier

Unlock Supplier

Business Partner	Is Supplier	Supplier	Address	Country/Region G...	Pricing Proce...	Submission Deadline	Unlocking History
<input type="checkbox"/> KG Electronics (192)	Yes	KG Electronics (442)	Longueuil H3M 2M1, Canada		RM0000		<a href="#">Unlocking History</a>
<input type="checkbox"/> Benjamin Blümchen (100)	Yes	Benjamin Blümchen (100000)	Hauptstrasse 2, 69190 Walldorf, Germany	EMEA	RM0000		<a href="#">Unlocking History</a>
<input type="checkbox"/> SLP Supplier1 (31)	Yes	SLP Supplier1 (4136)	roundrock 78681, USA		RM0000		<a href="#">Unlocking History</a>
<input type="checkbox"/> Standard Industrial Pump Suppliers (STAND...	Yes	Standard Industrial Pump Suppliers (STANDARD)	eCATT Street 1, 12345 eCATT City, Germany	EMEA	RM0000		<a href="#">Unlocking History</a>
<input type="checkbox"/> ABC_QM7 DIM Test (10300001)	Yes	ABC_QM7 DIM Test (10300001)	45721 Haltern am See, Germany	EMEA	RM0000		<a href="#">Unlocking History</a>

Supplier Quotations (6)

Standard

Supplier Quotati...	Version	Name	Simulated	Status	Created On	Business Partner	ID Number	Country/Re...
<input type="checkbox"/> 2000001554	1	Facility Services St. Leon-Rot 2024	No	Submitted	24.07.2023, 19:22:59	ABC_QM7 DIM Test (10300001)		DE
<input type="checkbox"/> 2000001555	1	Facility Services St. Leon-Rot 2024	No	In Preparation	25.07.2023, 07:33:44	ABC_QM7 DIM Test (10300001)		DE
<input type="checkbox"/> 2000001537	1	Facility Services St. Leon-Rot 2024	No	Submitted	24.07.2023, 16:50:25	Benjamin Blümchen (100)		DE
<input type="checkbox"/> 2000001551	1	Facility Services St. Leon-Rot 2024	No	Revised	24.07.2023, 18:26:39	Benjamin Blümchen (100)		DE
<input type="checkbox"/> 2000001551	2	Facility Services St. Leon-Rot 2024	No	Submitted	24.07.2023, 18:30:23	Benjamin Blümchen (100)		DE
<input type="checkbox"/> 2000001561	1	Facility Services St. Leon-Rot 2024	No	Submitted	25.07.2023, 12:00:52	ABC_QM7 DIM Test (10300001)		DE

Negotiations

Standard

Negotiation	Negotiation Type	Start Date	End Date	Status
-------------	------------------	------------	----------	--------

Draft updated

Save

Discard Draft



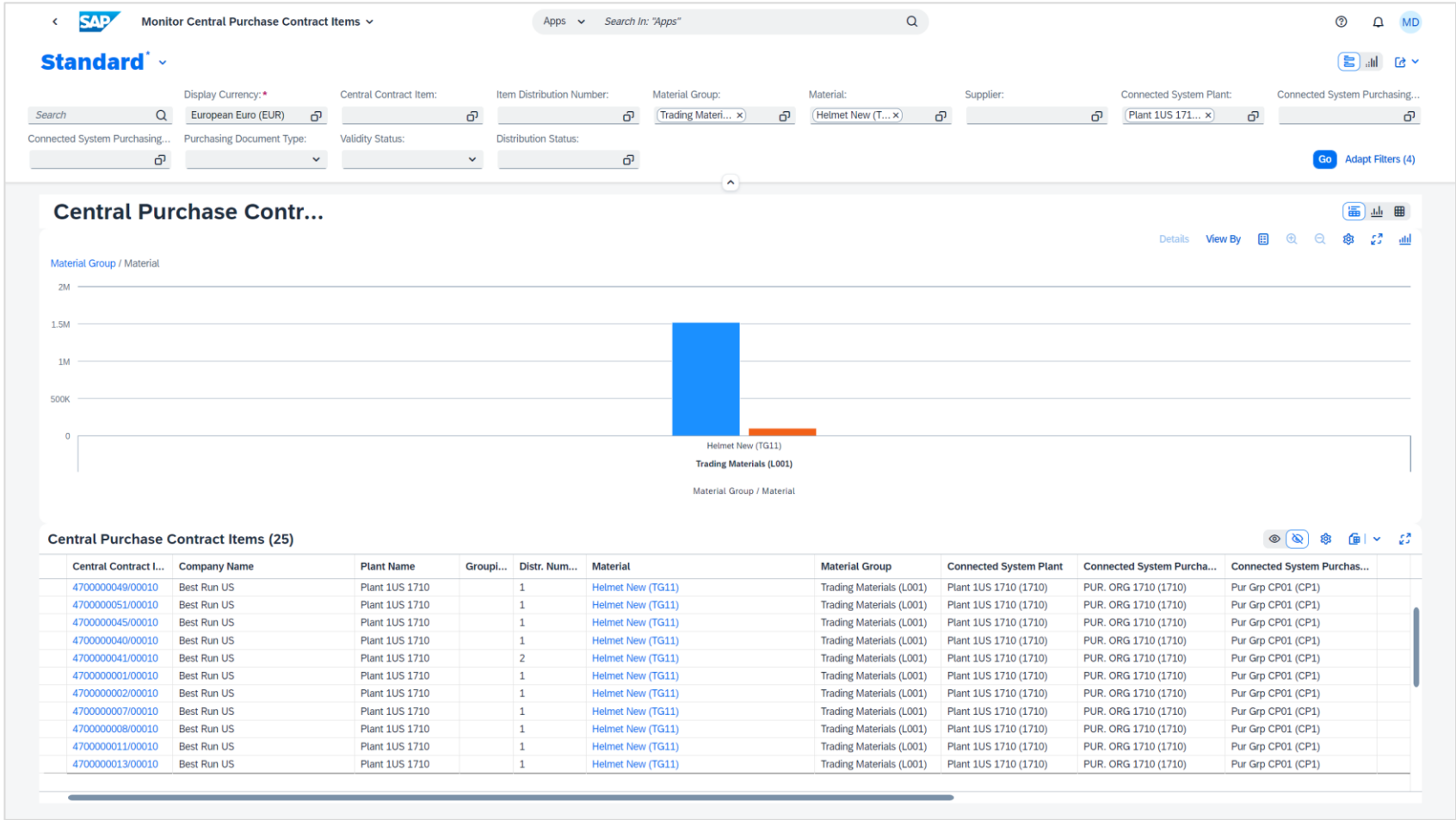
# SAP Fiori

## Lighthouse Apps

### Monitor Central Purchase Contract Items

- Leverage the chart and table view with aggregated values of central purchase contract items to recognize full utilization situations

[Link to documentation](#)







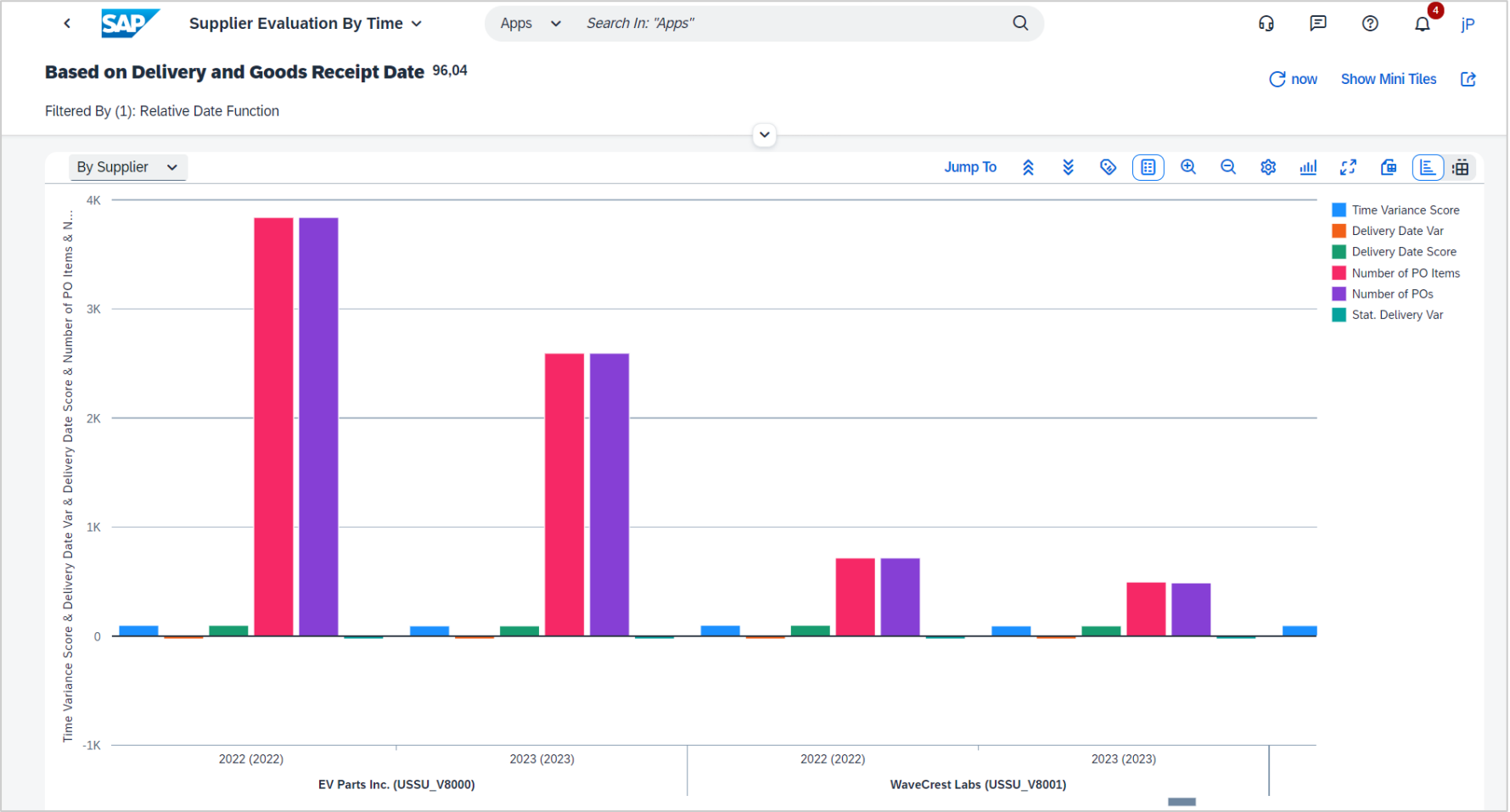
# SAP Fiori

## Lighthouse Apps

### Operational Supplier Evaluation

- Build a strong supplier network with a transparent overview of your suppliers, so you can approve the most reliable vendors and get the right mix to serve business needs with less risk

[Link to documentation](#)





# SAP Cloud ERP Private differentiators

**Joule**



Joule

[Operational Purchaser](#)

[Create Purchase Requisitions](#)

[Change Purchase Orders](#)

[Process Invoice Reminders](#)

Home

My Home

My Home

Purchasing Analytics

Inventory Processing

Warehouse Processing

Inventory Management

Accounts Payable

Search

Messages

Help

Info

Alerts

Profile

To-Dos (111)

Verify G/L Journal Entry 100105991 1710 2025

Medium Priority

Created By: SAP\_WFRT

Task created 2 wk. ago

Execute Task: Safety walk / ID: 96-2

Medium Priority

Created By: Robin Haas

Task created 2 wk. ago

Approve Purchase Order 4500582029

Medium Priority

Created By: Adriano Baroni

Task created 4 wk. ago

News

Supplier Invoices

Accounts Payable - Procurement

Purchasing

Accounts Payable

Create Purchase Requisition...

create purchase requisition

New Purchase Requisition

Paul Peterson 13.11.2025 12:24:51

General Information

Document Type

Purchase Requisition (NB)

Item Type

Choose Material or Service Item

Add Material Item

Add Service Item



## SAP Cloud ERP Private differentiators

**SAP Business AI**

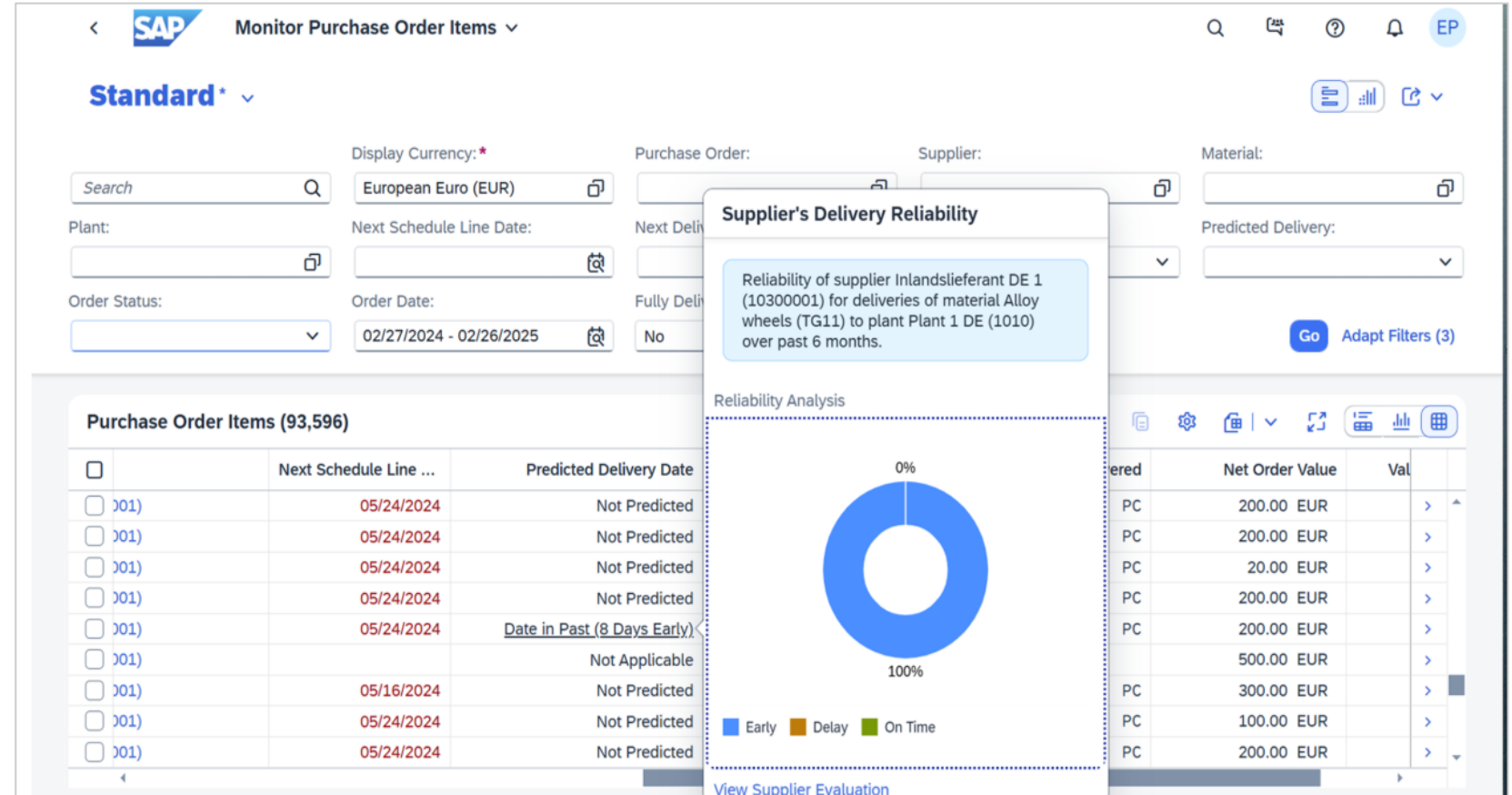


## Intelligent technologies

### Supplier delivery date prediction

Predict delivery dates for purchase order items based on historical data.

- Purchasers can predict delivery dates for purchase order items based on historical data, using Intelligent Scenario Lifecycle Management.
- Based on multiple parameters, the system can predict a date by which the supplier can deliver the material.





## SAP Cloud ERP Private differentiators

**Situation Handling**



# Intelligent technologies

## Situation Management

Some examples:

[Expiration of Purchase Contracts](#)

[Central Contract Item Consumption](#)

[Supplier Quotation Submitted](#)

[Cash Discount at Risk](#)

[Pending Supplier Confirmation](#)

Blog series Situations Handling

[Situation templates in Procurement](#)

☰

<

Central Purchase Contract ▾

Test\_CC\_29.09.2025

4700000011

Central Purchasing Organization

Supplier

Distribution Status

Status

Version

Purch. Org. 1710 (1710)

Domestic US Supplier 1 (17300001)

Distributed

Approved

Active Document (0)

Canceled Contract

No

General Information

Delivery and Payment ▾

Reference

Distribution

Header Conditions

Items

Output Control

Legal Transactions

Distributed O

General Information

Central Purchase Contract Description:  
Test\_CC\_29.09.2025

Contract Type:  
Quantity Contract (MK)

Created On:  
09/29/2025

Valid From:  
09/29/2025

Valid To:  
11/10/2025

Central Purchase Contract Hierarchy:  
—

Central Purchasing Organization:  
Purch. Org. 1710 (1710)

Central Purchasing Group:  
Pur Grp CP1 (CP1)

Target Value:  
1.000,00

Currency:  
United States Dollar (USD)

Supplier:  
Domestic US Supplier 1 (17300001)

Approver:  
Approved automatically

Flexible Distribution:  
No

Q

🔍

🔊

🗨

?

🔔

JP

Edit

By Date

By Type

By Priority

⚠️ Expiration of Central Purchase Contract

Central purchase contract 4700000012 owned by purchasing group CP1 in purchasing organization 1710 wil...

5 days ago

Show More

✕

⚠️ Expiration of Central Purchase Contract

Central purchase contract 4700000011 owned by purchasing group CP1 in purchasing organization 1710 wil...

5 days ago

Show More

✕

⚠️ Expiration of Central Purchase Contract

Central purchase contract 4700000012 owned by purchasing group CP1 in purchasing organization 1710 wil...

6 days ago

Show More

✕

⚠️ Expiration of Central Purchase Contract

Central purchase contract 4700000011 owned by purchasing group CP1 in purchasing organization 1710 wil...

6 days ago

Show More

✕

⚠️ Expiration of Central Purchase Contract

Central purchase contract 4700000012 owned by purchasing group CP1 in purchasing organization 1710 wil...

7 days ago

Show More

✕

⚠️ Expiration of Central Purchase Contract

Central purchase contract 4700000011 owned by purchasing group CP1 in purchasing organization 1710 wil...

7 days ago

Show More

✕

⚠️ Expiration of Central Purchase Contract

Central purchase contract 4700000012 owned by purchasing group CP1 in purchasing organization 1710 wil...

7 days ago

Show More

✕

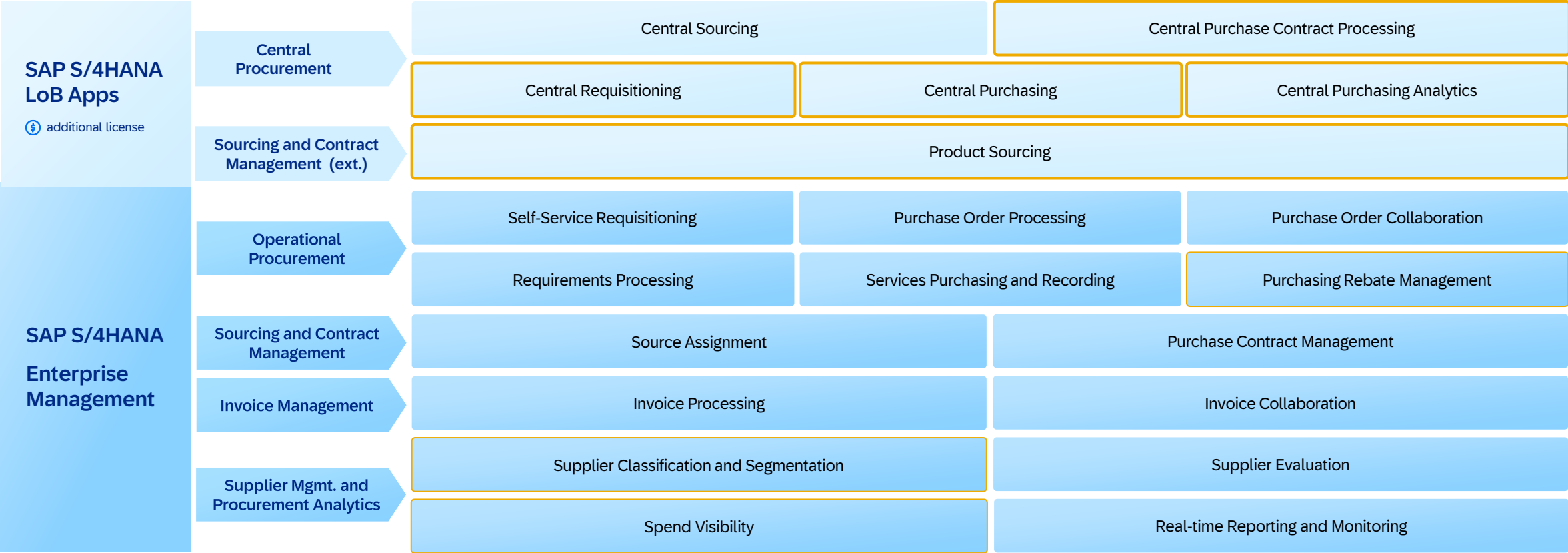
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164



# New Business Processes

## Business Area and Business Capability Overview



New business capabilities in SAP S/4HANA



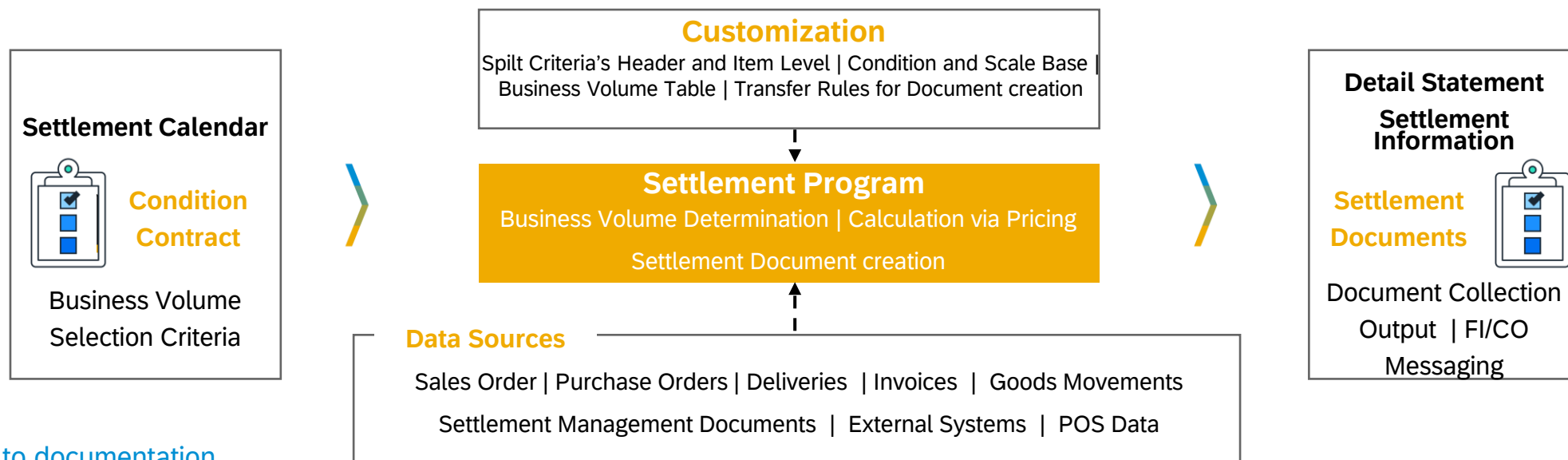


## New Business Processes and Functionalities

### Purchasing Rebate Management

**Condition Contract Management in SAP S/4HANA** (SAP Note [2481672](#)) uses **Central Contract Administration** as the single point of entry for contract data and contract related conditions for

- Full support of business volume related scenarios
- Calendar based settlement
- Accrual conditions can be defined independent from settlement conditions
- Intuitive data entry of settlement information with full transparency of involved documents



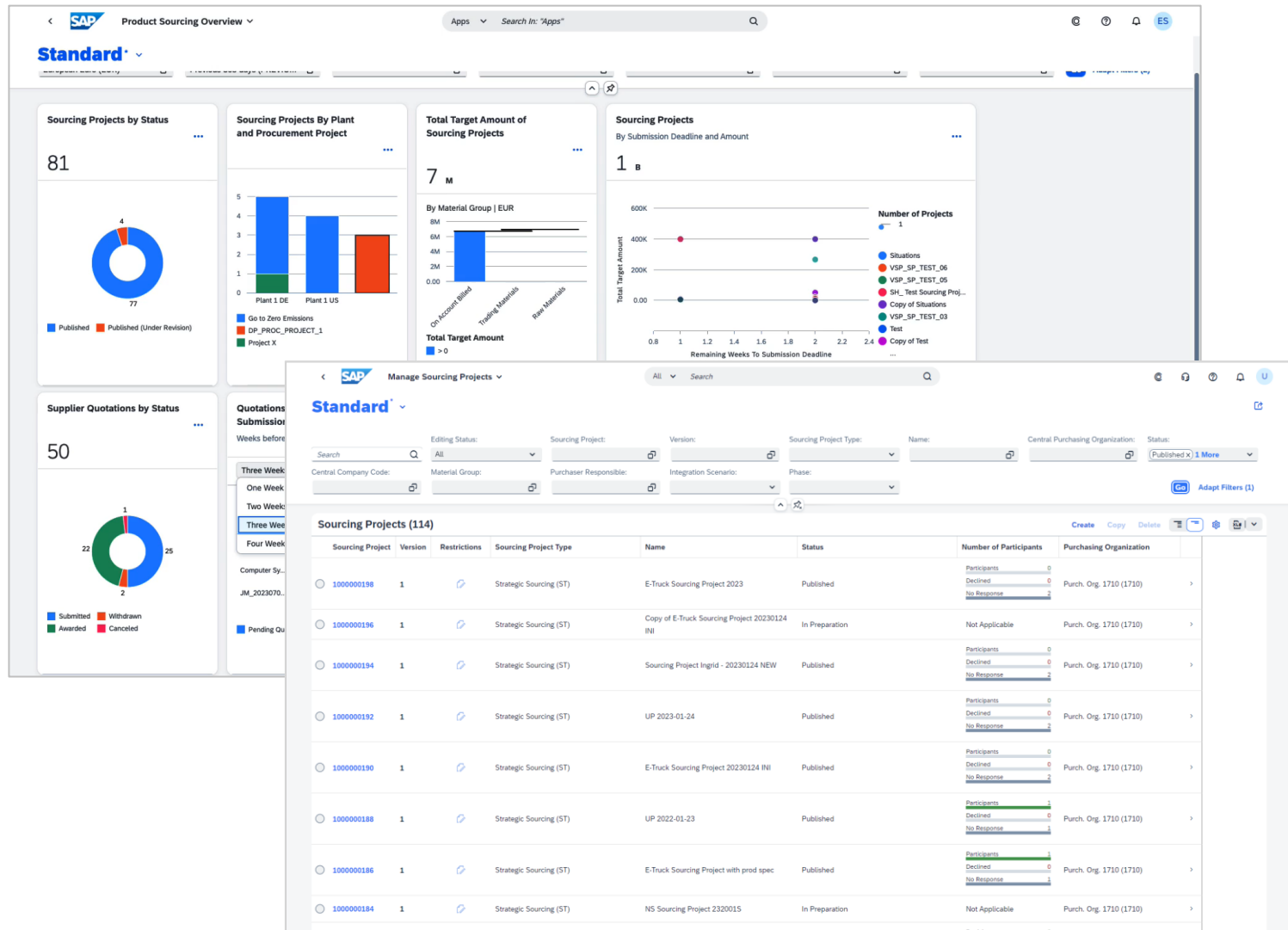
[Link to documentation](#)



## New Business Processes and Functionalities

### Product Sourcing\*

- Extended product sourcing optimizes the sourcing process by organizing it into projects. A project is the frame to invite suppliers, collect and compare key criteria (cost breakdowns, qualities, dates, sustainability data) of their quotes in a detailed and structured format, based on questionnaires. Awarding scenarios help to simulate and analyze the outcomes of different awarding options.
- Procurement projects for specific plants, negotiation processes and supplier lists are also supported in a structured way.
- As of release 2023, Product Sourcing comes with its own Overview page, to ensure a quick focus on the critical sourcing processes.



[Link to documentation](#)



# New Business Processes and Functionalities

## Product Sourcing\*

- Flexible workflows for sourcing projects, awarding scenarios and supplier lists ensure that the respective documents in the approval process are processed by the right assignees.
- Preferred supplier list can be created with a reference to purchasing organization and purchasing category
- Besides “classic” criteria like dates, qualities and costs, sustainability-related KPIs like the carbon footprint of materials and services offered can be part of the criteria list.

The screenshot displays the SAP 'Compare Supplier Quotations' interface. The top section shows the 'Compare' header for request 7000000091, with details like 'Created By: Example Purchaser', 'Status: Published', and 'Quotation Deadline: 03/23/2023'. A pie chart indicates 4 invited bidders. Below this is a table of quotations with columns for Supplier, Address, Status, Total Quotation Net Value, Quotation Date, Fully Quoted Items, and Best-Priced Items. The table lists four quotations from suppliers like DC Walldorf and inlandsieferant DE 2.

The bottom section shows a detailed view of a quotation for 'Model X\_AC Assy'. It includes a 'Carbon Footprint Data Provided' table with columns for Quantity, Share of Primary Emissions, Period Start Date, Period End Date, Boundary Condition, Country/Region of Supplier Plant, Region of Supplier Plant, Source of Emission Factor, and Supplier Plant. The data is presented for three different suppliers, showing values like 200,000 KG for quantity and 15.06.2023 for the period start date.

[Link to documentation](#)

[Link to Product Sourcing overview video](#)

\* For Automotive and Industrial Manufacturing industries only



## New Business Processes and Functionalities

### Product Sourcing\*

- Sourcing manager requests carbon footprint information for the items that are sourced through sourcing projects
- Suppliers provide carbon footprint information at the item level through their quotations
- Sourcing manager can compare carbon footprint information submitted by multiple suppliers to choose carbon conscious suppliers for award decisions

The screenshot displays the SAP 'Compare Supplier Quotations' interface. It shows three supplier quotations for 'Model X\_AC Assy' (10007649). Each quotation includes a summary card with key details and a detailed table of carbon footprint data.

Supplier Quotation	Total Amount	Net Price	Target Amount	Deviation Percent	Carbon Footprint Data Provided
100 (20006270)	1,06M EUR	280,00 EUR	250,00 EUR	12 %	200,000 KG 35 % 15.06.2023 30.06.2030 Cradle to Gate DE BB Ecovadis SUP1 PLANT1
1000320 (20006271)	1,14M EUR	300,00 EUR	250,00 EUR	20 %	210,000 KG 25 % 15.06.2023 09.06.2032 Cradle to Gate DE BB Ecovadis SUP3 PLANT 1
1010 (20006257)	988.000,00 EUR	260,00 EUR	250,00 EUR	4 %	160,000 KG 35 % 15.06.2023 26.06.2031 Cradle to Gate DE BB Ecovadis SUP2 PLANT 1

Manage Sourcing Projects



## New Business Processes and Functionalities

### Self-Service Requisitioning

- The My Purchase Requisitions app is new with release 2023 and provides a quick, intuitive, and efficient shopping experience.
- Besides managing free text and material master-based purchase requests, the app tracks status and process flow of PRs. Other features are the confirmation of goods receipts and returns in case of issues or defects.  
[Link to documentation “my purchase requisitions”](#)
- While SAP Ariba is the strategic platform for catalogs, a simple catalog functionality is also available here.  
[Link to documentation “manage catalog items”](#)

The screenshot displays the SAP My Purchase Requisitions app interface. At the top, there is a search bar labeled "Search for products" and a user profile icon. Below the search bar, there is a section titled "My Recent Purchase Requisitions" with a table of requisitions. The table has columns for Purchase Requisition, Number of Items, Status, Created On, and Total Value. The requisitions are listed as follows:

Purchase Requisition	Number of Items	Status	Created On	Total Value
john Peter 12/07/2023 Draft	0 Items	Saved	07.12.2023, 17:44:10	0,00
john Peter 12/07/2023 Draft	0 Items	Saved		
john Peter 12/07/2023 Draft	0 Items	Saved		
john Peter 12/07/2023 10083409	1 Item	Follow on Document Created		
john Peter 12/07/2023 10083408	1 Item	Approved		

Below the table, there is a "Shop By Category" menu with options like Computers and IT equipment, Machinery and Tools, Maintenance, Repair and Operations, Miscellaneous, Office Products, Promotional Items, Raw Materials, and Services. To the right, there is a "My Catalogs" section showing the Ariba Catalogue (Punch-out). Below this, there is a "Catalog Home" section with a search bar and a grid of promoted items, including Pavilion 23 英寸一体式笔记本电脑, Pavilion 23-Inch All-in-One Notebook, Screw Y9540903, and Power Drive.

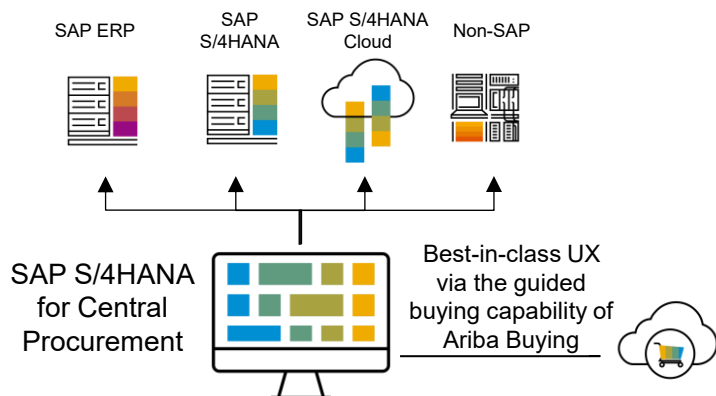


## New Business Processes and Functionalities

### Central Procurement

- In line with the improvements in Operational Procurement, Central Procurement processing takes full advantage of the new technical capabilities in SAP S/4HANA.
- As the hub instance for all centralized scenarios, no matter which operational systems are connected and which process steps are centralized, it replaces the corresponding functionality in classic SRM.

[Link to documentation](#)



**Process Purchase Requisitions Centrally**

Search: "Apps" | Adapt Filters (4)

Purchase Requisition Item	Material	Assigned Supplier	Process Centrality	Valuation Price	Open Quantity	Processing Status
0015077007 / 00020	ABC test	Assign SoS	ON	0.00 EUR	1 EA	Not edited (N)
0015077007 / 00030	ABC test	Assign SoS	ON	0.00 EUR	4 EA	Not edited (N)
0015077253 / 00010	Hydraulic Piston (TG-D010)	Assign SoS	OFF	12.00 EUR	100 EA	Not edited (N)
0015077254 / 00010	Hydraulic Piston (TG-D010)	Assign SoS	OFF	12.00 EUR	100 EA	Not edited (N)
0015077255 / 00010	Hydraulic Piston (TG-D010)	Assign SoS	OFF	12.00 EUR	100 EA	Not edited (N)
0015077349 / 00010	Hydraulic Piston (TG-D010)	12_10_John Suppliers JMA (S1030001) Change SoS Remove SoS	OFF	0.00 EUR	100 EA	Not edited (N)
0015077350 / 00010	Hydraulic Piston (TG-D010)	12_10_John Suppliers JMA (S1030001) Change SoS Remove SoS	OFF	0.00 EUR	100 EA	Not edited (N)
0015077351 / 00010	Hydraulic Piston (TG-D010)	12_10_John Suppliers JMA (S1030001) Change SoS Remove SoS	OFF	0.00 EUR	100 EA	Not edited (N)
0015077354 / 00010	Hydraulic Piston (TG-D010)	Assign SoS	OFF	12.00 EUR	100 EA	Not edited (N)
0015077413 / 00010	Hydraulic piston (HYDRAULICPISTON)	Assign SoS	OFF	716.13 EUR	1 EA	Not edited (N)

More Actions: Add to Document, Create Document, Create Purchase Requisition, Create Purchase Order, Create Central Purchase Contract, Create Central Purchase Contract Hierarchy, Create Central RFQ, Create Sourcing Project

**Monitor Central Purchase Contract Items**

Display Currency: European Euro (EUR) | Validity Status: | Distribution Status: | Adapt Filters (4)

**Central Purchase Contr...**

Material Group / Material

Trading Materials (0.001)

Material Group / Material

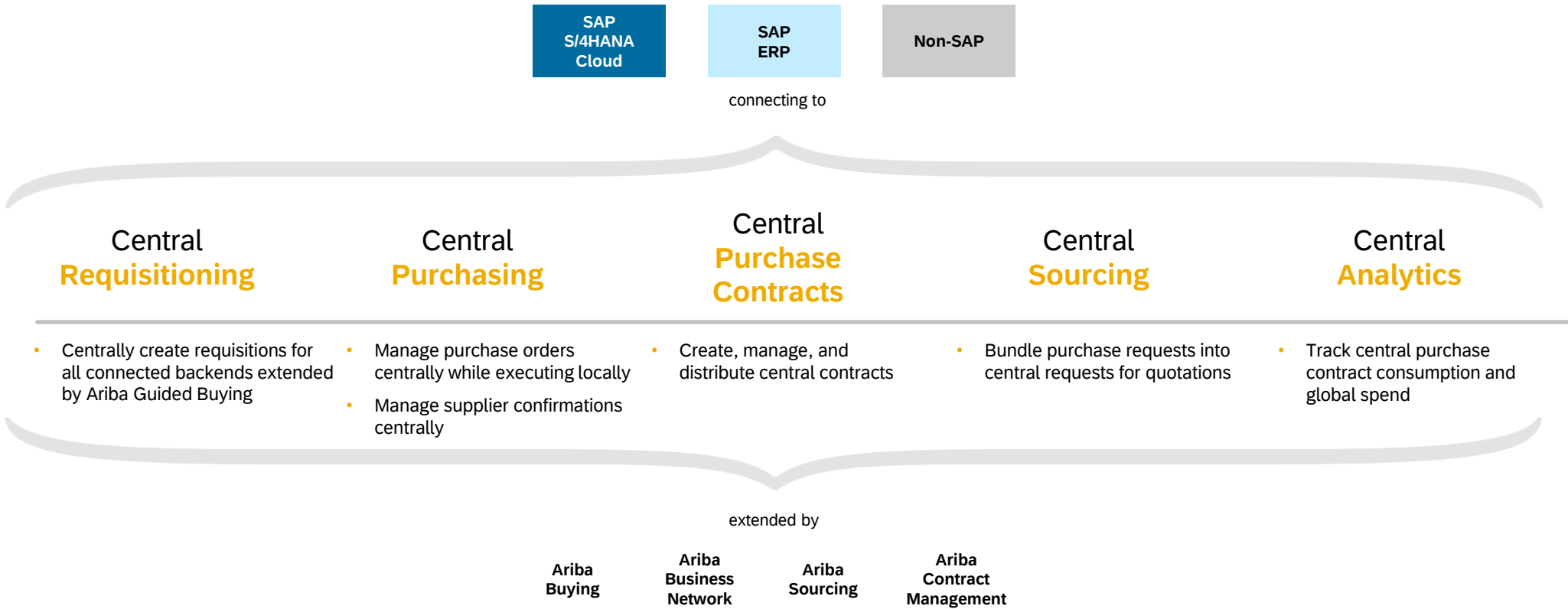
Central Contract L.	Company Name	Plant Name	Group...	Dir. Num...	Material	Material Group	Connected System Plant	Connected System Purcha...	Connected System Purcha...
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	2		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)
4700000000000000	Best Run US	Plant S15 1710	1		Helmet New (TSG11)	Trading Materials (0.001)	Plant S15 1710 (1710)	PUR ORG 1710 (1710)	Par Gp CPQ (CPQ)



# New Business Processes and Functionalities

## Central Procurement

Central Procurement is the single command center for managing centralized procurement activities of all types: Requisitioning – Sourcing – Purchasing – Contracting – Analytics, forming the hub between multiple, potentially technically diverse backend ERP systems and the SAP Ariba product suite for Sourcing and Procurement.



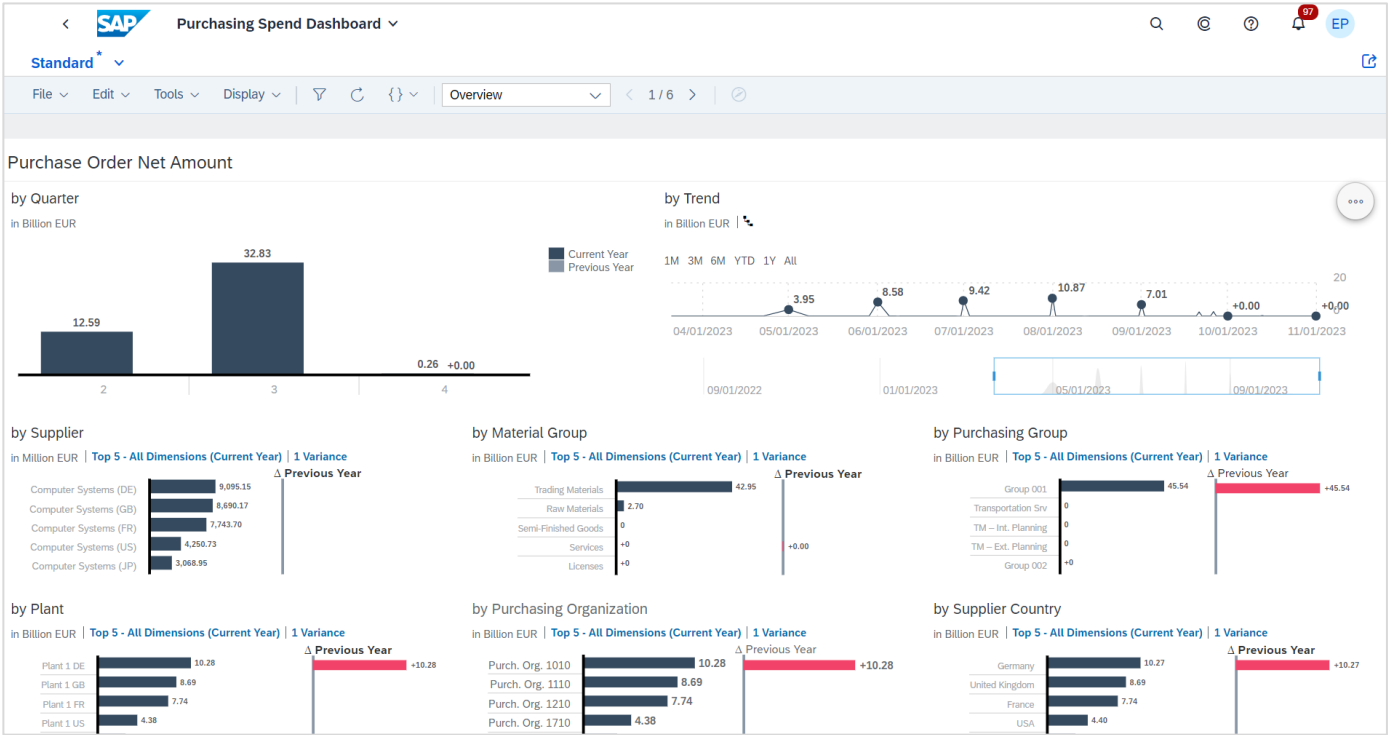


# New Business Processes and Functionalities

## Spend Visibility

- The Spend Visibility apps leverage S/4HANA Embedded Analytics to provide a multitude of configurable reports.
- They cover, out-of-the-box, typical sourcing & procurement reporting requirements like off-contract spend and contract leakage, invoice price variance, PO / scheduling agreement values, purchasing spend with a comprehensive set of perspectives (see screenshot), spend variance for PO / goods receipt / invoice receipt values, etc.

[Link to documentation](#)







## Classification and Segmentation

- A new entity “purchasing category” was introduced in SAP S/4HANA
- It allows to classify and segment by multiple criteria, giving the transparency to continuously determine the right mix of suppliers and reduce the overall supply risk
- The purchasing category can be applied to suppliers, material groups and activities, as a “bracket” to get a holistic picture of a category

[Link to documentation](#)

<
Purchasing Category ▾

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🗣️
💬
?
🔔<sup>28</sup>
jP

---

## Test purchasing Category (Test\_Purchasing\_Category)

Related Apps
🔗 ▾

11

General Information
Suppliers
Activities
Material Groups
Planned Spend

### Basic Data

Responsible: <a href="#">Paul Peterson</a>	Status: Active
---	-------------------

### Supplier Information

Total Number: 1	Preferred: 0	Blocked: 0
--------------------	-----------------	---------------

## Suppliers

Standard ▾
⚙️ 📄 | ▾

Supplier	Address	Preferred S...	Strategic Pa...	Overall Sc...	Spend (12 Months)
<a href="#">Domestic US Supplier 1 (17300001)</a>	198 S Ohio Ave, Muncie IN 47305-2757, USA	No	No	0	0,00 USD

## Activities

Standard ▾
⚙️ 📄 | ▾

Activity	Responsible	Status	End Date	Open Tasks	Total Tasks
No items available.					

## Material Groups

Standard\* ▾
⚙️ 📄 | ▾

Material Group	Assigned Materials	Spend (12 Months)
Mineral and Textile (11000000)	1	0,00 USD
Chemicals including (12000000)	0	0,00 USD



## New Business Processes and Functionalities

### Product Compliance in Procurement

- Product Compliance in the sourcing & procurement context ([link to documentation](#)) means (a) ensuring that the supplier is validated for the product, (b) checking Safety Data Sheet compliance in intercompany stock transfers, and (c) ensuring transportation / dangerous goods compliance in intra-/intercompany stock transfers as well as POs with transport responsibility.
- The new Product Compliance solution in SAP S/4HANA is integrated with purchase orders, purchase contracts and purchasing info records. Fields showing the product compliance statuses are available on header and item level, if the product is marked as relevant for compliance.
- If no supplier assessment exists for the product, a compliance request for the product stewardship specialist is triggered to create an assessment of the supplier.

[Link to documentation \(purchase orders\)](#)

[Link to documentation \(info records\)](#)

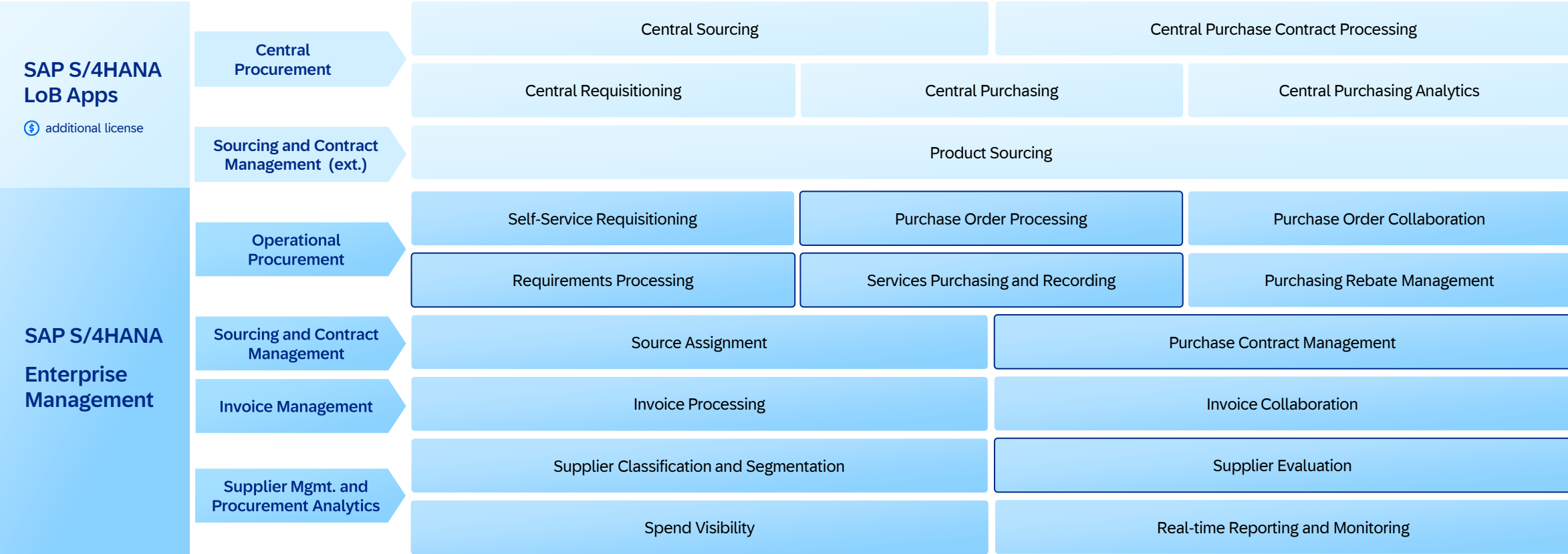
PUBLIC

The top screenshot displays the 'Raw Material - Basic Compliance Data' interface for 'P04 Solvent Mix'. It shows a table of suppliers with columns for Supplier Name, External Product Number, External Product Name, and Supplier Status for Raw Material. Suppliers listed include BasChem and ChemTrade, both with a status of 'Blocked'. The bottom-left screenshot shows the 'Compliance Information - For Products' interface for 'P69 WHO hygienic handrub(btle 12x700ml)'. It features a world map with color-coded regions indicating transport permissions: green for 'Domestic Transport is Allowed', orange for 'Domestic Transport is Restricted', and red for 'Domestic Transport is Forbidden'. The bottom-right screenshot shows the 'Compliance Information - For Products' interface for 'OP22-01 WHO handrub FG 40I'. It displays a map of Europe with a popup for 'Safety Data Sheet - Türkiye' showing 'TR Safety Data Sheet (Jun 2017)' and a 'Send' button.



# Updated Business Processes

## Business Area and Business Capability Overview



Updated business capabilities in SAP S/4HANA



## Updated Business Processes and Functionalities

### Services Purchasing and Recording

- Purpose of service entry sheets is to record to which degree ordered services have been delivered. Basis therefore is always a PO. SES can be created manually in SAP S/4HANA or uploaded from external applications. Limited items are created for unplanned services, when the exact service scope is unclear at the start (e.g. repair work).
- Consumable materials (used during the execution of a service and planned together with a service in the reference PO), can be recorded in a service entry sheet.
- Automatic, one-step, or multi-step approval workflows for SES can be defined in Flexible Workflow.

[Link to documentation](#)

[Link to blog “SAP Service Procurement – Transforming from Complex to Collaborative”](#)

[Link to “service procurement with Fieldglass” documentation](#)

The screenshot displays the SAP Service Entry Sheet (SES) interface for document 4503132689. The top section shows the 'Process Flow' with four steps: Requirements Processing, Ordering, Service, and Goods Receiving. Each step has a corresponding document and status: Purchase Requisition (Released), Purchase Order (Follow-On Documents), Service Entry Sheet (Completed), and Goods Receipt (Completed).

The main section shows the 'General Information' tab with the following details:

- Supplier:** FA1A (FA1A)
- Document Status:** In Approval (20)
- Approval Status:** In Approval (20)
- Stated Amount:** 600,00 EUR
- Stated Amount Including Input Tax:** 600,00 EUR

The 'Basic Data' section includes:

- Name of Service Entry Sheet:** 4503132689
- Reference Purchase Order:** 4503132689
- Posting Date for Goods Receipt:** 01.06.2021
- Created On (Time Stamp):** 09.11.2021, 04:15:25
- Created By:** Hazel Han (HANHAZ)

The 'Items' section shows a table of Service Entry Sheet Items (4) with columns: Purchase Or..., Product, Item Description, Product Type Group, Ordered, Performance Period, Service Performer, and Stated Quantity.

Purchase Or...	Product	Item Description	Product Type Group	Ordered	Performance Period	Service Performer	Stated Quantity
10		SSAC_LeanService_001	Service (2)	Expected: 6 EA Stated: 1 EA	09.11.2021 - 09.11.2021		1,000 EA
20		material	Material (1)	Expected: 30 EA Stated: 5 EA	30.04.2021 - 30.04.2021		5,000 EA
20		material	Material (1)	Expected: 30 EA Stated: 5 EA	30.04.2021 - 30.04.2021		5,000 EA
20		material	Material (1)	Expected: 30 EA Stated: 5 EA	30.04.2021 - 30.04.2021		5,000 EA

The 'Notes' section shows 'Notes (0)' with a message 'No Notes Available'.



## Updated Business Processes and Functionalities

### Services Purchasing and Recording

- With SAP S/4HANA a new material master concept is introduced. The master data elements are now being represented as product types. The new material and service master are now based on the same data structure which allows end user to confirm services and materials on one single Fiori app.
- Service entry sheets can be created manually in SAP S/4HANA or uploaded from external applications. Limited items are created for unplanned services, when the exact service scope is unclear at the start (e.g. repair work).
- Automatic, one-step, or multi-step approval workflows for SES can be defined in Flexible Workflow.

[Link to documentation](#)

[Link to blog “SAP Service Procurement – Transforming from Complex to Collaborative”](#)

[Link to “service procurement with Fieldglass” documentation](#)

The screenshot displays the SAP Service Entry Sheet Fiori app interface. The top section shows the 'Process Flow' with four steps: Requirements Processing, Ordering, Service, and Goods Receiving. Each step has a corresponding document icon and status. Below this, the 'General Information' tab is active, showing details for Service Entry Sheet 4503132689. The 'Basic Data' section includes fields for Name, Reference Purchase Order, Posting Date, Created On, and Created By. The 'Items' section displays a table with columns for Purchase Order, Product, Item Description, Product Type Group, Ordered, Performance Period, Service Performer, and Stated Quantity. The table shows four items, each with a progress bar indicating the status of the order. The 'Notes' section at the bottom shows no notes are available.

Purchase Or...	Product	Item Description	Product Type Group	Ordered	Performance Period	Service Performer	Stated Quantity
10		SSAC_LearService_001	Service (2)	Expected: 6 EA Stated: 1 EA	09.11.2021 - 09.11.2021		1,000 EA
20		material	Material (1)	Expected: 10 EA Stated: 5 EA	30.04.2021 - 30.04.2021		5,000 EA
20		material	Material (1)	Expected: 10 EA Stated: 5 EA	30.04.2021 - 30.04.2021		5,000 EA
20		material	Material (1)	Expected: 10 EA Stated: 5 EA	30.04.2021 - 30.04.2021		5,000 EA

## Services Purchasing and Recording

- Leverage Model Product Specifications to create and categorize structured sets of related service and material items. Group items that are frequently ordered together to complete a particular task. Use model product specifications as templates to create purchasing documents, such as purchase contracts
- Easy mass creation/change of model product specifications, based on spreadsheets, is possible with up to five levels of item hierarchies, comprising products and/or services and free text

[Link to documentation](#)

[Link to Blog "Service Procurement – Import of Model Product Specifications"](#)

[Link to Blog "Service Procurement – Item Hierarchies"](#)

<
**SAP**
Model Product Specification ▾

All ▾ Search

🔍
🔔
AH

## Single Family House Construction Project

Deactivate
Create Purchase Contract
🔗 ▾

0000000010

Activation Status:

Active

General Information
Items

**Basic Data**

ID:  
Single Family House Construction Project  
(0000000010)

Name:  
Single Family House Construction Project

**Administration**

Search Term:  
Construction EFH

Language:  
English (EN)

Created On:  
13.07.2023, 11:29:46

Changed On:  
21.09.2023, 09:35:30

Grouping Code:  
Internal Number Assignment (INT)

Created By:  
F [redacted]

Changed By:  
[redacted]

**Items**

**Model Product Specification Items**

Standard\* ▾

⚙️

<input type="checkbox"/>	Hierarchy Number	Plant	Item Set	Description	Product	Product Type Group	Material Group	Quantity		
<input type="checkbox"/>	> 1 📄		Yes	Foundation						>
<input type="checkbox"/>	> 2 📄		Yes	Super Structure						>
<input type="checkbox"/>	> 3 📄		Yes	Finishing						>
<input type="checkbox"/>	▾ 4 📄		Yes	Maintenance						>
<input type="checkbox"/>	4.1	Plant 1 DE (1010)	No	Maintenance Plumbing		Material (1)	Services (P001)	100 EA		>
<input type="checkbox"/>	4.2	Plant 1 DE (1010)	No	Maintenance Electricals Services		Service (2)	Services (P001)	100 EA		>
<input type="checkbox"/>	4.3	Plant 1 DE (1010)	No	Maintenance Electricals Materials		Material (1)	Services (P001)	100 EA		>



# Updated Business Processes and Functionalities

## Services Purchasing and Recording

### Transition from MM-SRV to Lean Services

- Enable users to download an Excel template and upload service entry sheets (SES) in the SAP Fiori app “Manage Service Entry Sheets – Lean Services”
- Inclusion of the model product specifications search help into the SAP Fiori app "Manage Purchase Requisitions - Professional“
- Create the Service Entry Sheets non-valuated and post the costs only with the supplier invoice
- For limit purchase orders, and lean services ordered via these limit purchase orders, it is now possible to split the account assignment using the amount-based distribution.
- Mapping of document types and migration of master data, service purchase order, service purchase requisition to Lean Services

Manage Service Entry Sheets

Standard

Search: [ ] Editing Status: [All] Supplier: [ ] Service Entry Sheet: [ ] Name of Service Entry Sheet: [ ] Document Status: [Approved X] Approval Status: [ ] Created On: [ ]

Go Adapt Filters (1)

Service Entry Sheet (985)	Supplier	Reference Purchase Order	Stated Amount Including Input Tax	Stated Amount	Created On (Time Stamp)	Number of Service Entry Sheet
<input type="checkbox"/> 1604	Carrier T42_CARR01 (T42_CARR01)	4500008399	82,41 EUR	82,41 EUR	14.10.2025, 08:06:54	6100007850
<input type="checkbox"/> 1600	Foreign Supplier 50 (US) (10300050)	4500008381	1,00 USD	1,00 USD	10.10.2025, 12:29:48	ses_test_123
<input type="checkbox"/> 1599	Foreign Supplier 50 (US) (10300050)	4500008381	1,00 USD	1,00 USD	10.10.2025, 10:24:18	ses_test_123
<input type="checkbox"/> 1598	Foreign Supplier 50 (US) (10300050)	4500008381	1,00 USD	1,00 USD	10.10.2025, 09:16:43	ses_1234
<input type="checkbox"/> 1596	Dynamic Discounting Payable Financ. (10300001)	4500008352	1.000,00 EUR	1.000,00 EUR	08.10.2025, 10:14:22	4500008352_2

Enhanced Limits Material Data Delivery Schedule Delivery Invoice Conditions Account Assignment Texts Delivery Address Confirmations Compliance

AccAssCat: Asset Distribution: Single Account Assignment CoCode: Company Code...

Partial Inv.: Single Account Assignment

S...	A...	Quantity	Perce	Net Value	G/L Acct	SNo.	WBS Element
<input type="checkbox"/> 1				8.000,00			

Distrib. on Quantity Basis

Distribution by Percentage

Distribution by Amount

Assets

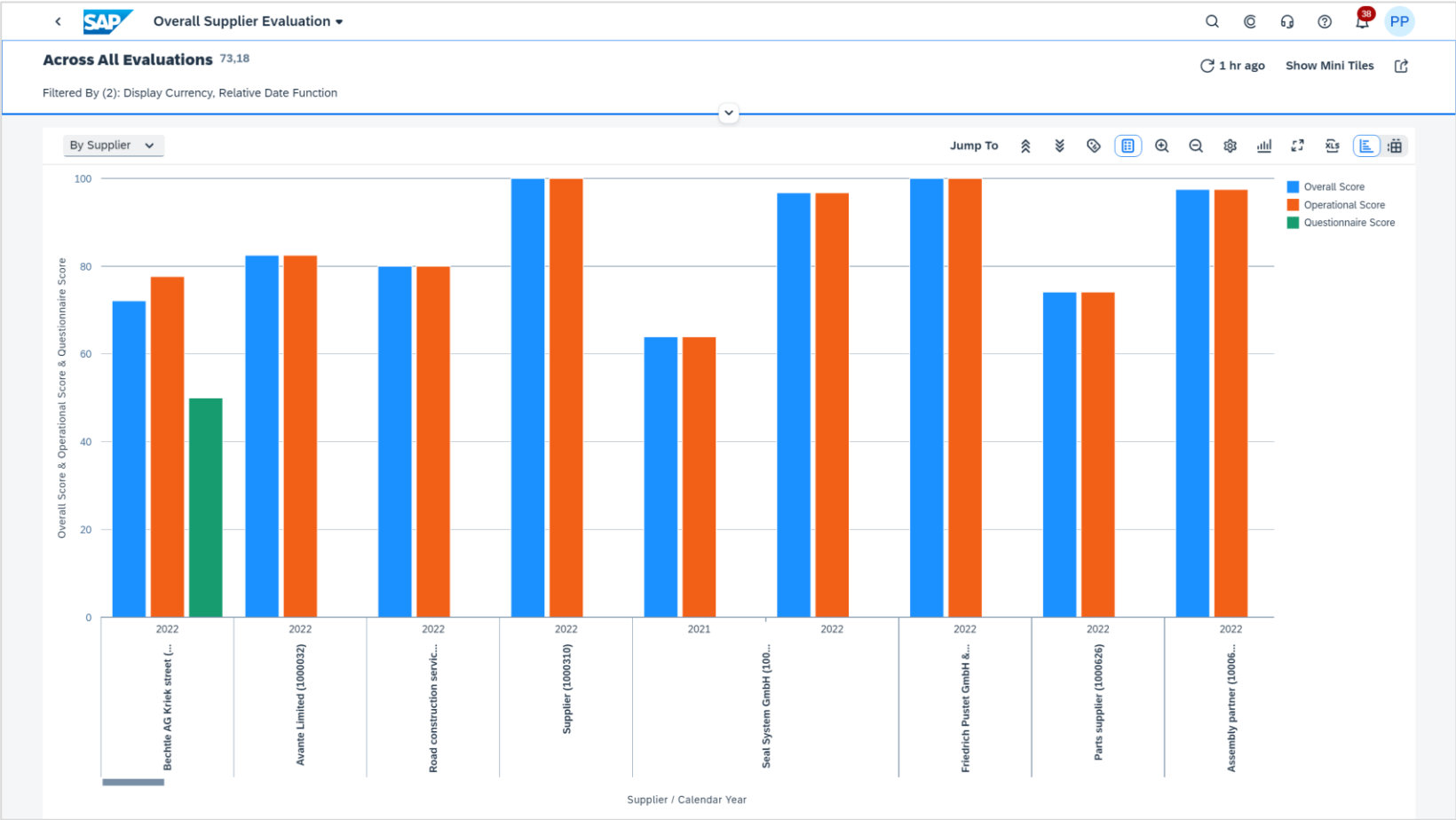


# Updated Business Processes and Functionalities

## Supplier Evaluation

- The supplier evaluation functionality in SAP S/4HANA was built on a completely new technical base to fully leverage the new architecture and performance for real-time analytics
- Next to pre-delivered criteria for time, price and quantity variance, custom specific criteria can be defined with individual weighting and scoring
- Real-time supplier evaluation analytics are automatically generated from transactional data

[Link to documentation](#)







# Updated Business Processes and Functionalities

## Requirements Processing

- The Manage/Process Purchase Requisitions Fiori app allows editing / viewing / converting PRs with an unprecedented level of efficiency.
- Purchase Requisitions are processed in SAP S/4HANA with the Flexible Workflow, no longer with the application-specific release strategy mechanism known in ECC.
- Mass changes of purchase requisitions and their monitoring are supported by dedicated Fiori apps

[Link to documentation](#)

Mass Changes to Purchase Requisitions

Standard

Purchase Requisition: Fixed Vendor: Company: Item Category:

Purchase Requisition Items (13)

	Purchase Requisition	Purchasing Group	Requirement Tracking Number
<input checked="" type="checkbox"/>	0015081178/00010	Subcontracting (004)	
<input checked="" type="checkbox"/>	0015081179/00010	Subcontracting (004)	
<input checked="" type="checkbox"/>	0015081180/00010	Subcontracting (004)	
<input checked="" type="checkbox"/>	0015081181/00010	Subcontracting (004)	

Mass Edit

Affected Documents

Purchase Requisition Items: 13

Item Description: < Keep Existing Value >

Storage Location: < Keep Existing Value >

Requirement Tracking Number: < Keep Existing Value >

Quantity Requested: < Keep Existing Value >

Delivery Date: < Keep Existing Value >

Process Purchase Requisitions

Standard

Search: Plant: Purchasing Group: Purchasing Organization: Product Group: Processing Status: Item Delivery Date: Start Date: End Date:

Release Date: Requisition Date: Delivery Date:

Purchase Requisitions (33)

	Item	Material	Product Group	Quantity	Purchase Order Quantity	Total Value	Assigned Supplier	Delivery Date	Plant	Processing Status
<input type="checkbox"/>	14274386/20	Returnable Wooden Pallet (218285)	Packaging material 000000020	20 PC	0 PC	40.000,00 EUR	0 Sources	May 23, 2025	Plant 0001 - no change allowed	Not edited
<input type="checkbox"/>	14274408/10	Returnable Wooden Pallet (MAT_PALLET01D)	Packaging material 000000020	20 PC	20 PC	10.000,00 EUR	0 Sources	May 25, 2021	Werk 1010 1010	PO created
<input type="checkbox"/>	14277769/10	Check Pump Pressure	Packaging material 000000020	1,00 H	0,00 H	0,00 EUR	0 Sources	Aug 7, 2021	Plant 0001 - no change allowed	Not edited
<input type="checkbox"/>	14277771/30	checking for equipment entry	Packaging material 000000020	1,00 H	0,00 H	0,00 EUR	0 Sources	Aug 10, 2021	Plant 0001 - no change allowed	Not edited
<input type="checkbox"/>	14277834/20	Transformer Overheating	Packaging material 000000020	1,00 H	0,00 H	0,00 EUR	0 Sources	Aug 12, 2021	Plant 0001 - no change allowed	Not edited
<input type="checkbox"/>	14277835/20	Capture details	Packaging material 000000020	1,00 H	0,00 H	0,00 EUR	0 Sources	Aug 12, 2021	Plant 0001 - no change allowed	Not edited
<input type="checkbox"/>	14277857/10	Check Pump Pressure	Packaging material 000000020	1,00 H	0,00 H	0,00 EUR	0 Sources	Aug 10, 2021	Plant 0001 - no change allowed	Not edited
<input type="checkbox"/>	14277860/30	checking for equipment entry	Packaging material 000000020	1,00 H	0,00 H	0,00 EUR	0 Sources	Aug 13, 2021	Plant 0001 - no change allowed	Not edited
		checkine for equipment	Packaging material						Plant 0001 - no change	



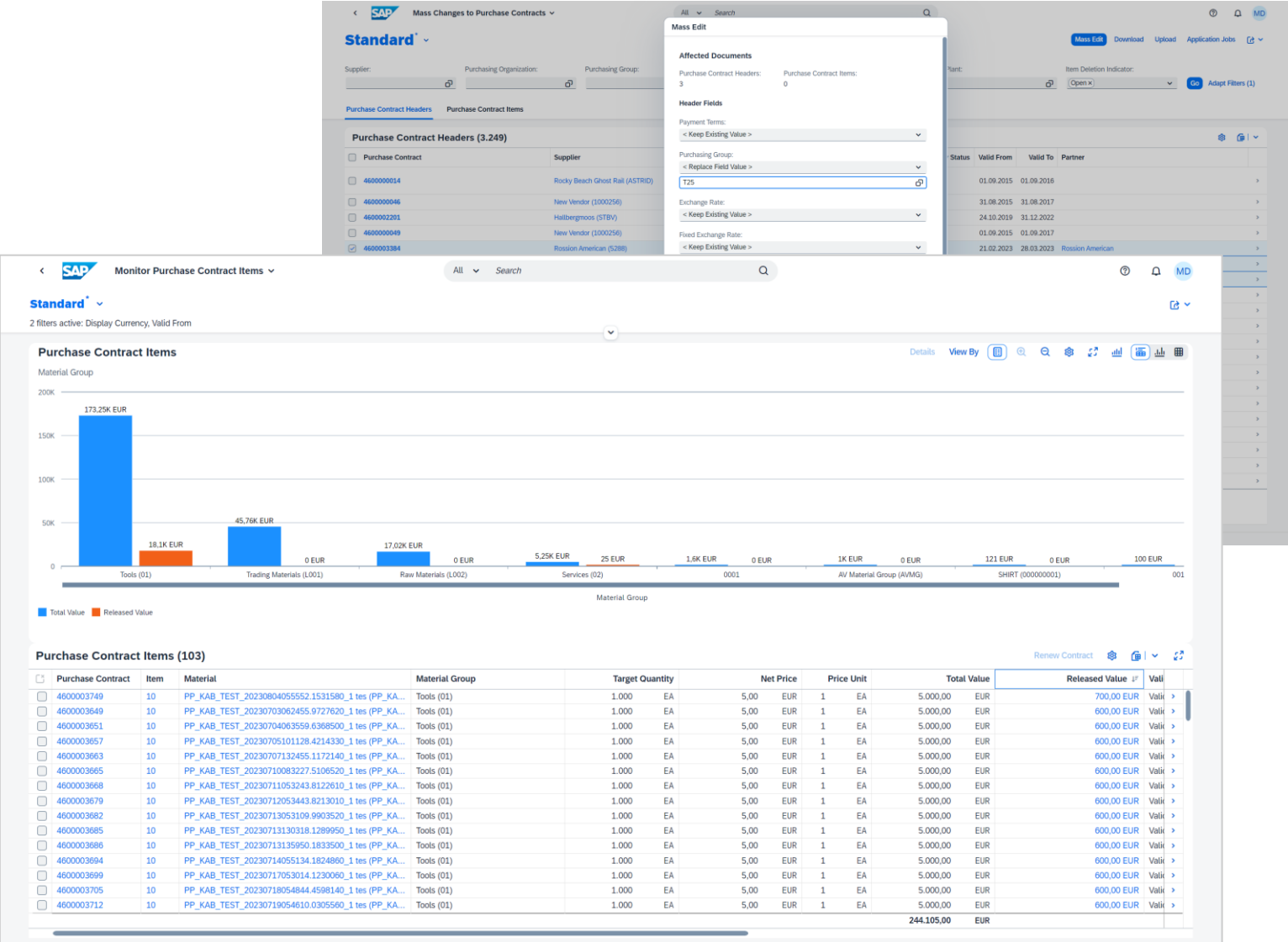


# Updated Business Processes and Functionalities

## Purchase Contract Management

- Purchase Contract Management in SAP S/4HANA relies on the same foundational elements which were applied for all purchasing documents.
- Fiori apps for mass changes / monitoring of mass changes, monitoring contract items etc. ensure a highly efficient management of all value and quantity contracts, with the item categories for standard, consignment, subcontracting and material group processes.

[Link to documentation](#)





## Purchase Contract Management

- Versioning in purchase contracts: ability to compare versions along with pricing information
- Compare changes between two document versions with respect to version-relevant fields
- Compare changes in pricing information from the historical document to the present, active document

[Link to documentation](#)

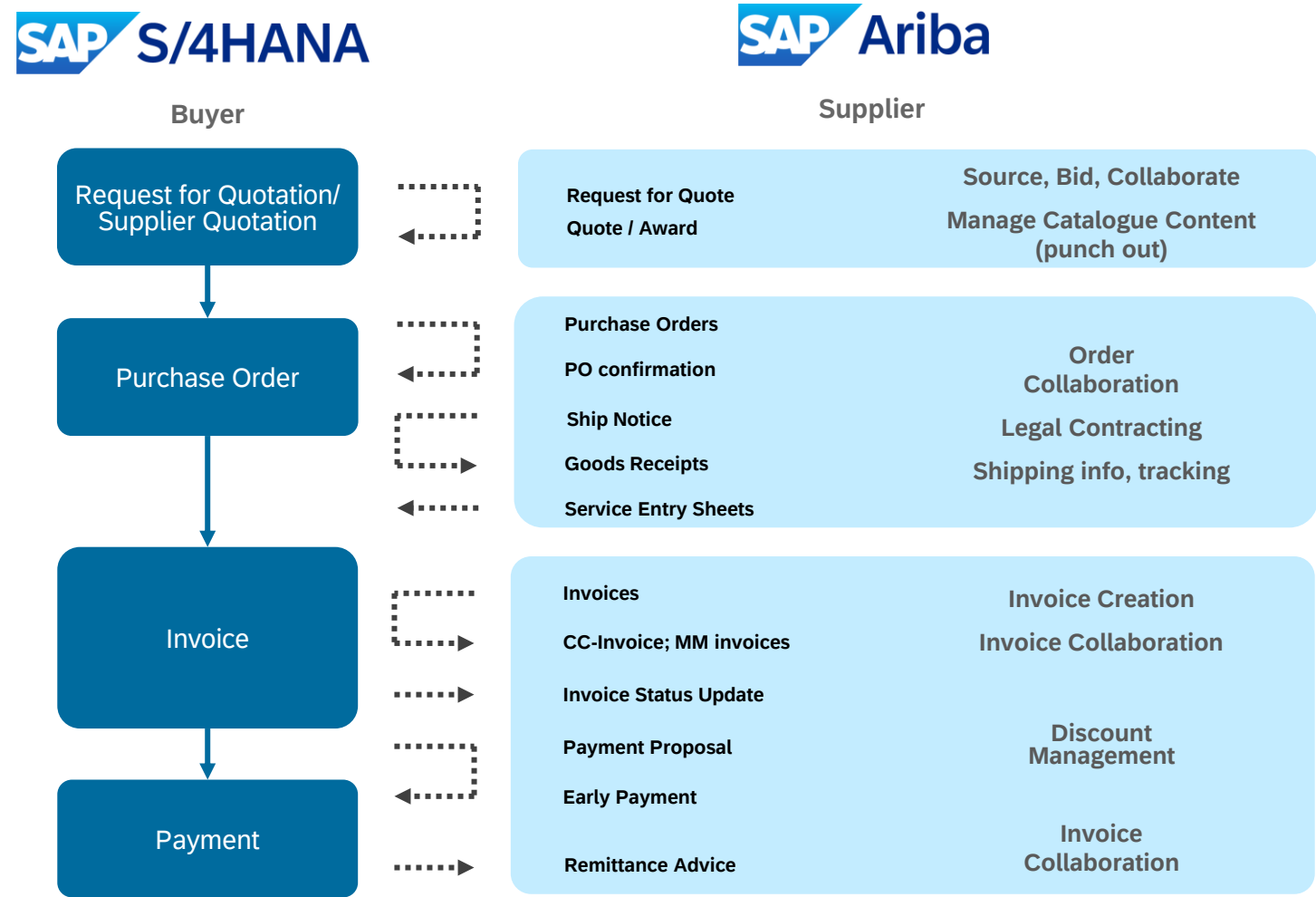
PUBLIC



# Out-of-the-Box Integration

## SAP Ariba - Example integration scenarios

- Leverage **Business Network and the intuitive guided buying capability** integrated with SAP S/4HANA core procurement processes.
- Leverage **digital handshakes** between the **buyer and supplier** to take more control of your business network in procurement.
- **Generate sourcing request** out of SAP S/4HANA and conduct sourcing events within Ariba. Bring the outcomes back to SAP S/4HANA core procurement processes as **info records** or **contracts**.
- **Resources:**
  - Central entry page <https://help.sap.com/docs/ariba-cloud-integration>
  - S/4HANA docu [https://help.sap.com/docs/SAP\\_S4HANA\\_ON-PREMISE/754a46a305c642559f21625ca2744170/593e4f56c10fc74ee10000000a44147b.html](https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/754a46a305c642559f21625ca2744170/593e4f56c10fc74ee10000000a44147b.html)





# Out-of-the-Box Integration SAP Fieldglass

## Business Partner Integration

- Replicating Business Partner vendors from SAP S/4HANA to SAP Fieldglass

## Master Data Integration

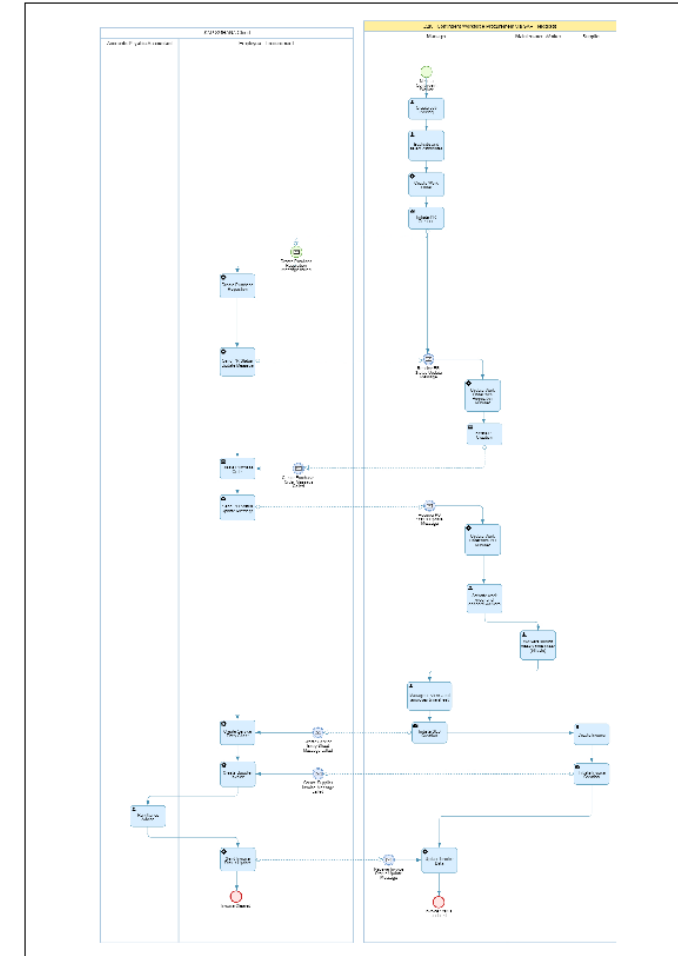
- Replicating master data from SAP S/4HANA to SAP Fieldglass
- S/4HANA objects: company code, purchase org, plant, cost center, WBS, internal order, sales order, GL accounts

## Transactional Data Integration

- Creating transactional data integrations from SAP Fieldglass to SAP S/4HANA
- Scenario Lean Service Procurement
- [https://me.sap.com/processnavigator/SolS/EARL\\_SolS-055/2022/SolP/22K?region=DE](https://me.sap.com/processnavigator/SolS/EARL_SolS-055/2022/SolP/22K?region=DE)

## Resources:

- Overview [SAP Fieldglass and SAP S/4HANA Integration](#)
- API hub: [Overview | SAP S/4HANA Integration with SAP Fieldglass | SAP Business Accelerator Hub](#)





# Compatibility Packs in Sourcing & Procurement

- CP IDs 425: FI-TV Travel and Expense
  - Implementation aspects:
    - On-premise: S/4HANA customers can use classic FI-TV as compatibility pack until the end of 2025. The functionality has been adopted to S/4HANA product standards with release 2022. FI-TV functionality on releases 2021 and older does not have these S/4HANA product qualities and therefore falls under compatibility pack rules = use right expiry in 2025. Customers who want to keep using FI-TV after end of 2025 must upgrade their productive system(s) to release 2022 or higher and activate “H4S4” by the end of 2025.
  - Licensing:
    - On-premise: Classic travel & expense is covered by Productivity Use.
    - Private Cloud: FI-TV can be subscribed via the SKUs “8016042 SAP Travel Management for SAP S/4HANA cloud, private edition” or **TBD** for Tailored Option.
- Relevant information
  - Business impact note: [2976262 - S4TWL – SAP Travel Management in SAP S/4HANA Compatibility Scope - SAP for Me](#)
  - Simplification item: [https://me.sap.com/sic/itemSet\('6CAE8B3EA08B1ED795E717ED2207E0C6','false'\)](https://me.sap.com/sic/itemSet('6CAE8B3EA08B1ED795E717ED2207E0C6','false'))
  - More details available via the “WayForward” excel in <https://me.sap.com/notes/2269324>

# R&D



[Agenda](#)





## SAP Cloud ERP Private differentiators

# SAP HANA and Embedded Analytics



# SAP HANA and Real-time Analytics

## Project Control

- Network Activity Overview
- Material Component Overview
- Network Overview
- WBS Element Overview
- Milestone Overview
- Project Definition Overview
- Project Cost Report - Overview
- Project Cost Report - Line Items
- Manage Project Procurement
- Project Cost Overview
- Project Cost Line Items

## Portfolio and Project Management

- My Projects - Project Manager
- Multiproject Overview
- Billing and Receivables Overview
- Single-Project Overview
- Procurement Overview

## Product Lifecycle Management

- Variant Configuration Overview
- Recipe Finder
- Recipe Analysis - By Source
- My Recipe Overview
- Recipe Analysis - By Search Item Quantity
- Recipe Analysis - Header Data
- Engineering Cockpit

## Product Compliance

- Analyze Packaged Dangerous Goods
- Analyze Unpackaged Dangerous Goods
- Impact of Monitoring Lists on Suppliers
- Impact of Monitoring Lists on Production
- Impact of Monitoring Lists on Sales
- Analyze Marketability Assessments

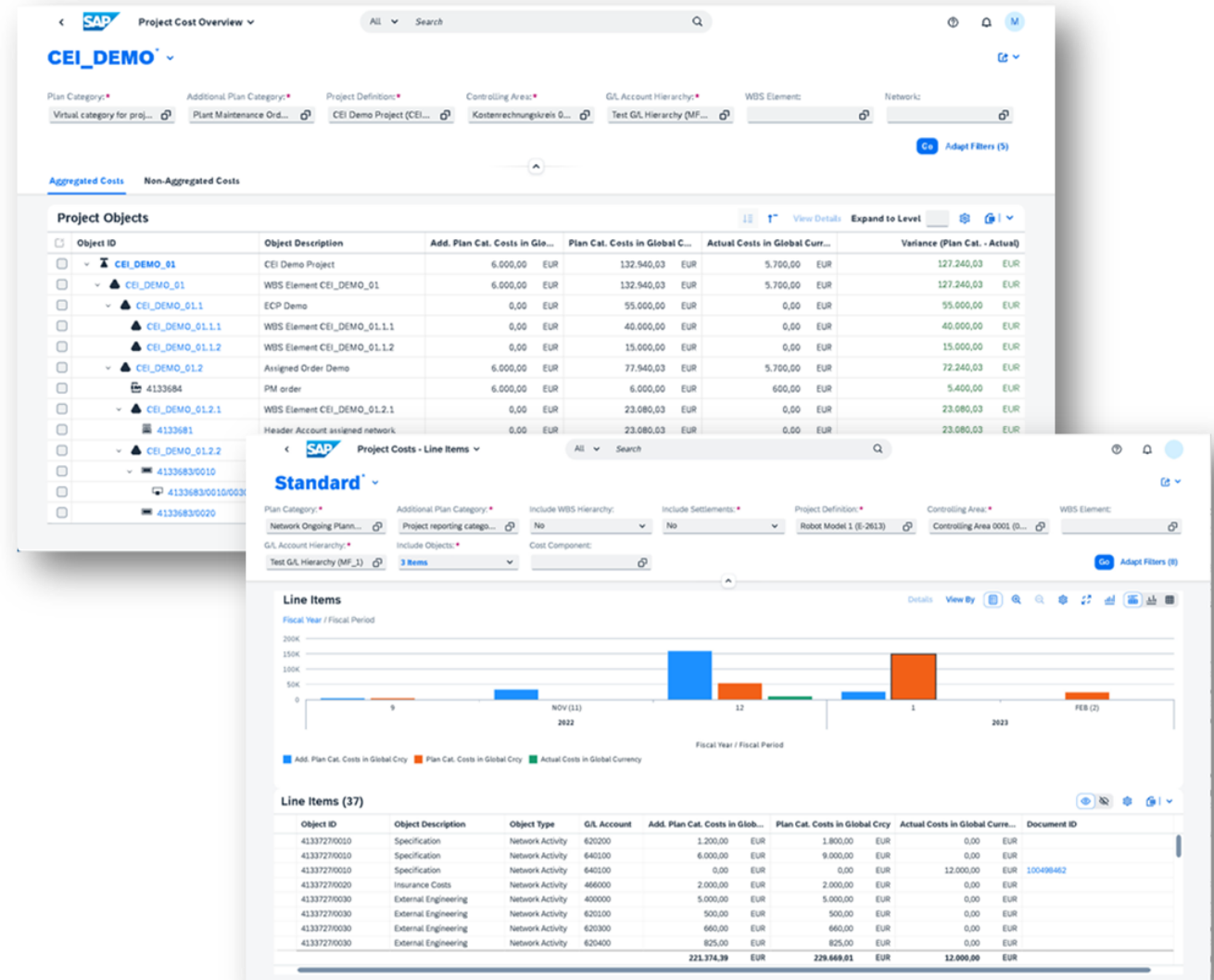


# SAP HANA and Real-time Analytics

## Financial Planning Table ACDOCP

- In addition to the classical CO tables the ACDOCP table is available in Finance to store financial plan data. Selected advantages of ACDOCP:
  - Consistency with universal journal table ACDOCA
  - Basis for new CDS view / Fiori based reports
  - Integrated Financial Planning with SAP Analytics Cloud (SAC) Functionality
- Current example usages in EPPM in SAP S/4HANA On-Premise:
  - Periodic (integrated) planning of WBS elements in SAC
  - CSV file upload of planned costs / revenues
  - Network Costing
  - Easy Cost Planning for projects
  - New Sales Pricing Source
  - Project Cost Reports

[Link to documentation](#)





## SAP Cloud ERP Private differentiators

# Data Products and Intelligent Applications




# Data products

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.


These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.

[Available data products](#)

 Data Product


**Sales Bill Of Material**  
Data Product Sales Bill Of Material

Version 1.0.0 **ACTIVE**

 Data Product


**Work Breakdown Structure Bill Of Material**  
Data Product Work Breakdown Structure Bill Of Material

Version 1.0.1 **ACTIVE**

 Data Product


**Bill Of Material Configuration Data**  
Data Product Bill Of Material Configuration Data

Version 1.0.1 **ACTIVE**

 Data Product

**Change Master**  
Data Product Change Master

Version 1.1.1 **ACTIVE**

 Data Product

**Bill Of Material**  
Data Product Bill Of Material

Version 1.0.1 **ACTIVE**



# SAP Cloud ERP Private differentiators

**SAP Fiori**

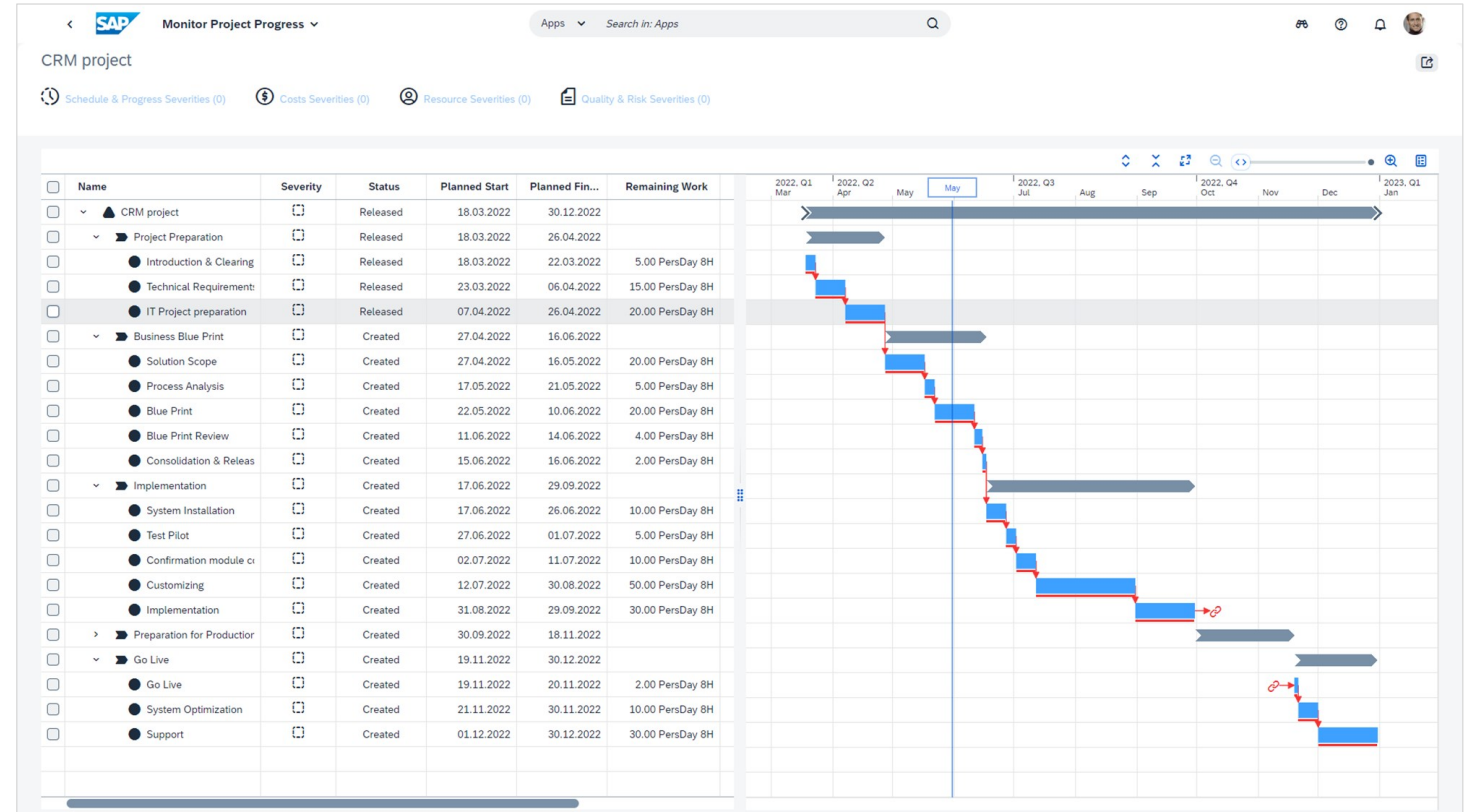


# SAP Fiori

## HTML5/UI5 based GANTT Charts in Project Management

### Monitor Project Progress

- Graphical chart (Gantt) and table to display a project
- Highlight alerts based on business rules
- Navigate to causing project element
- Contextual navigation for editing or viewing projects
- Aggregated display of milestones
- Replacement of JGANTT (Java Applet) in Project Management
- Multi Project Monitor based on UI5 GAN



[Link to documentation](#)

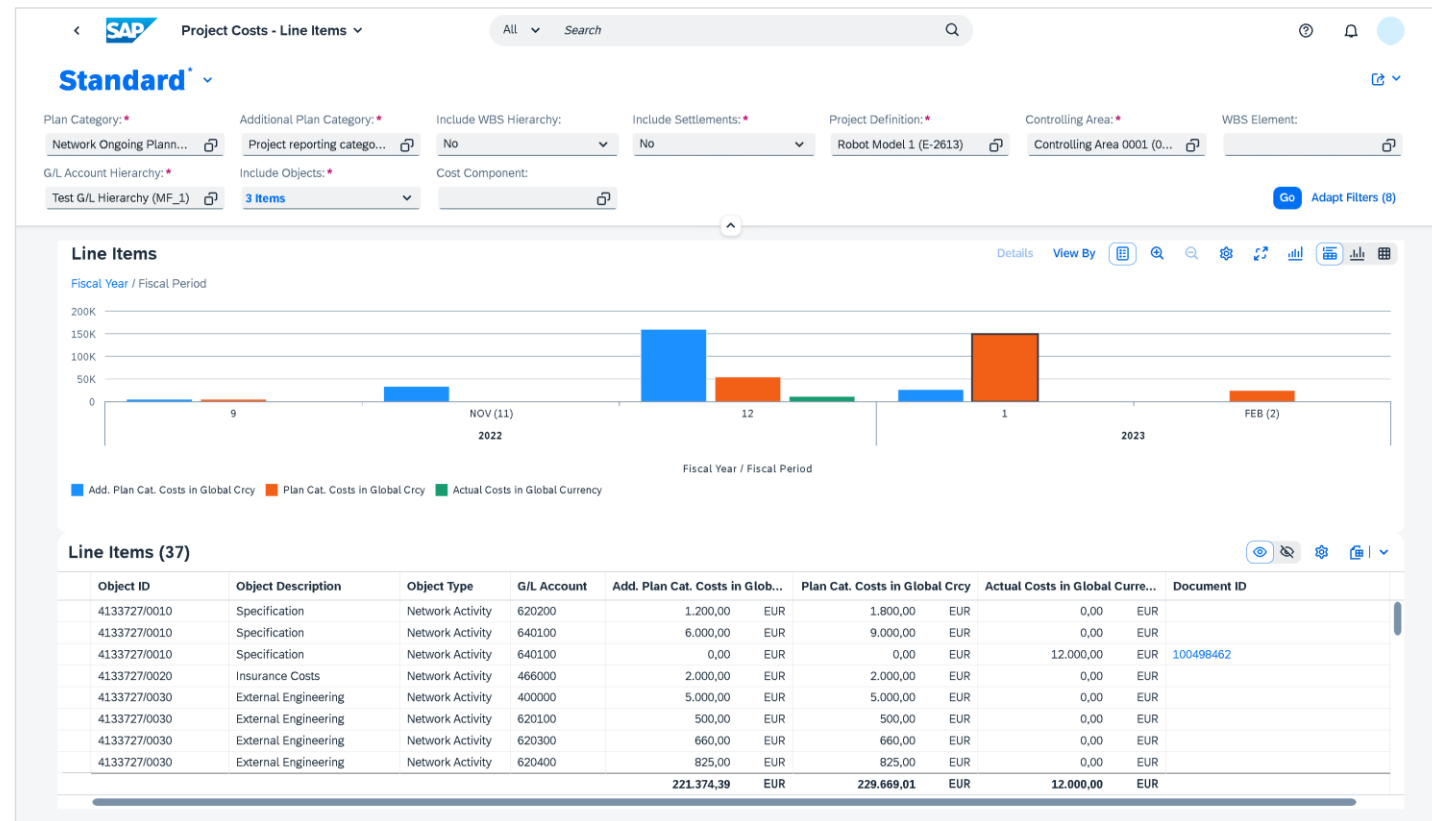


# SAP Fiori

## Enterprise Portfolio and Project Management

### Project cost overview and Project cost line items

- Enhance project reporting to include order and network costs
- Usage of accounting hierarchy for G/L account selection
- Easier access to variances from project plan that facilitates follow-up activities
- Integrates project financial planning for networks into SAP S/4HANA thereby facilitating better financial planning







# SAP Fiori

## Bill of Material Enhancements

- Enhancements to BoM driving efficiency in product development
- Understand the similarities and differences between two bills of materials (BoMs) and expedite decision making by leveraging BOM comparison analytics summary in the new SAP Fiori app Compare Bills of Material
- Introduction of new item type in BoMs to allow describing the bespoke engineered components without having the need to create material masters, providing the flexibility in early product development phase to create placeholders in BoMs
- Reviewing of multi-level BoMs across plants/usages

[Link to documentation](#)

**Multilevel Comparison Results**  
V-ENGINE-01, V-ENGINE-02

BOM 1		BOM 2		Common Components		Unique Components	
Material: V-ENGINE-01	Material: V-ENGINE-02	Total	18	Total	3		
Plant: Plant 1 US (1710)	Plant: Plant 1 US (1710)	Similar	18	BOM 1	2		
BOM Usage: Production (1)	BOM Usage: Production (1)	With Differences		BOM 2	1		
Alternative BOM: 1	Alternative BOM: 1						
Valid From: 10.02.2023	Valid From: 10.02.2023						
Status: Active	Status: Active						

BOM 1				BOM 2			
Component	Description	C...	Quantity/Unit	Component	Description	C...	Quantity/Unit
ENGINE_BLOCK	Engine_Block	1 PC		ENGINE_BLOCK	Engine_Block	1 PC	
BELT_PULLY_01	BELT_PULLY_01	1 PC		BELT_PULLY_01	BELT_PULLY_01	2 PC	
BELT_PULLY_02	Belt_Pully_02	1 PC		VALVE_COVER_PRFRM	VALVE_COVER_PRFRM	2 PC	
VALVE_COVER	Valve_Cover	2 PC		EXHAUST_VALVE	Exhaust_Valve	16 PC	
EXHAUST_VALVE	Exhaust_Valve	16 PC		CAM_SHAFT	Cam_Shift	2 PC	
CAM_SHAFT	Cam_Shift	2 PC					
BELT	Belt	1 PC					
DRIVE_BELT	Drive_Belt	1 PC					
FUEL_LINE_LEFT	Fuel_Line_Left	1 PC					

**V-ENGINE-01**  
V-ENGINE-01  
Plant: Plant 1 US (1710) BOM Usage: Production (1) Alternative: 1

Component and Component Groups	Preliminary Compon...	Component and Component Grou...	Item Category	Alternative BOM	Plant	BOM Usage
CARBURETOR	-	Carburetor	LStock Item	+	Plant 1 US (Default)	Production
ROCKER_ARM_ASSY	-	Rocker_Arm_Assy	LStock Item	1	Plant 1 US (Default)	Production
INTAKE_VALVE	-	Intake_Valve	LStock Item	1	Plant 1 US (Default)	Production
PUSH_ROD	-	Push_Rod	LStock Item	1	Plant 1 US (Default)	Production
VALVE_CONNECTOR	-	Valve_Connector	LStock Item	+	Plant 1 US (Default)	Production
ROCKER_ARM	-	Rocker_Arm	LStock Item	+	Plant 1 US (Default)	Production
CRANK_SHAFT_ASSY	-	Crank_Shift_Assy	LStock Item	1	Plant 1 US (Default)	Production
PISTON_ASSY	-	Piston_Assy	LStock Item	1	Plant 1 US (Default)	Production
CRANK_SHAFT	-	Crank_Shift	LStock Item	+	Plant 1 US (Default)	Production
FUEL_LINE_RIGHT	-	Fuel_Line_Right	LStock Item	+	Plant 1 US (Default)	Production
FUEL_LINE_LEFT	-	Fuel_Line_Left	LStock Item	+	Plant 1 US (Default)	Production
DRIVE_BELT	-	Drive_Belt	LStock Item	+	Plant 1 US (Default)	Production
BELT	-	Belt	LStock Item	+	Plant 1 US (Default)	Production
CAM_SHAFT	-	Cam_Shift	LStock Item	+	Plant 1 US (Default)	Production
EXHAUST_VALVE	-	Exhaust_Valve	LStock Item	+	Plant 1 US (Default)	Production
VALVE_COVER	-	Valve_Cover	LStock Item	+	Plant 1 US (Default)	Production
BELT_PULLY_02	-	Belt_Pully_02	LStock Item	+	Plant 1 US (Default)	Production



# SAP Fiori

## Product Compliance



### Delightful UX

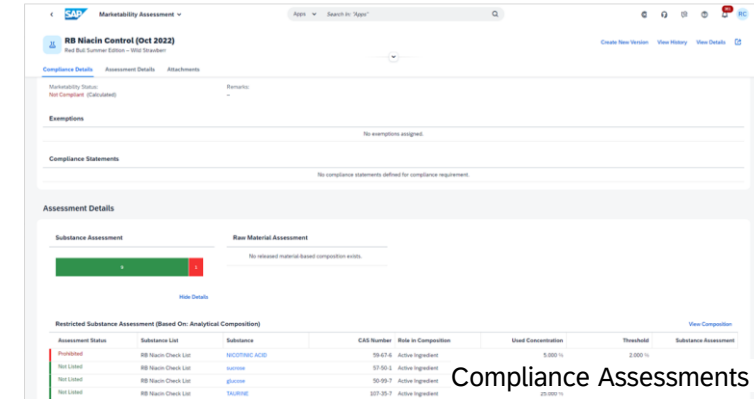
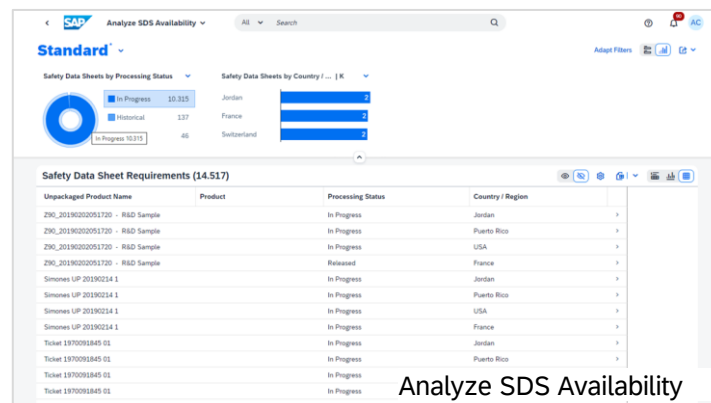
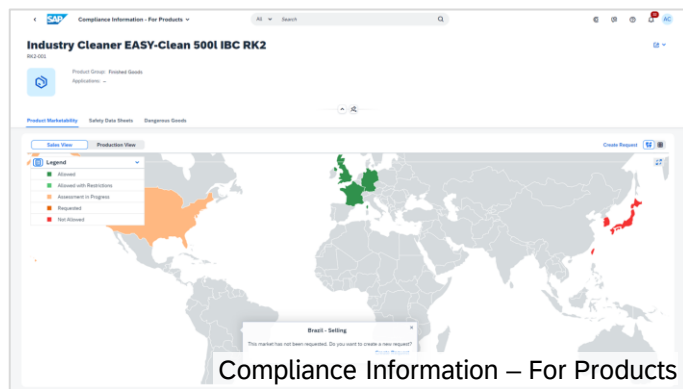
- **Role based views** providing transparency and simplified access to information
- **Overviews** available for giving actionable insights on Dangerous Goods, Safety Data Sheets, Product Marketability assessments, substances etc

### KPIs and Insights

- **Detailed insights** to analyze compliance impact on sales, suppliers, and production
- **Intuitively analyze** marketability assessments, e.g. before introducing a product to a new market

### Authorization & Process Support

- **Authorization** support ensuring relevant information is displayed for relevant users
- **Integration** into key logistics process e.g. product master, sales, delivery, procurement, transportation



[Link to documentation](#)



# SAP Cloud ERP Private differentiators

**Joule**



# Joule

Enterprise Portfolio and Project Management

[Open Project, WBS Element, and Networks](#)

[Display Missing Parts in Projects, WBS Element, and Networks](#)

[Read Sub-elements of Project and WBS Element](#)

[Summarize Changes in Project and WBS Element](#)

[Read Due or Overdue Activities in Project, WBS Element, Network](#)

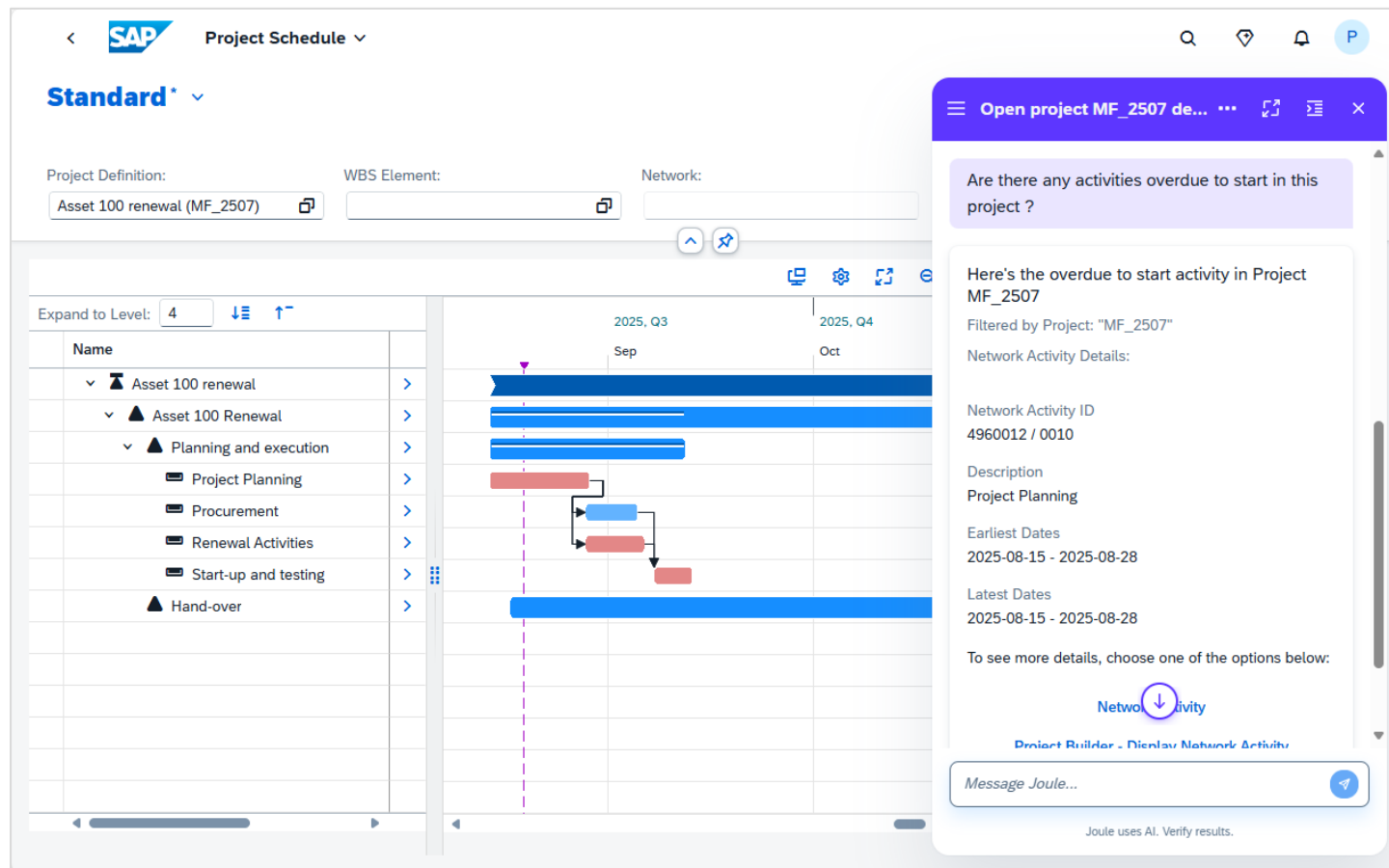
[Read Master Data of Project, WBS Element, Network](#)

Product Lifecycle Management

[Viewing Change Record Information](#)

[Summarizing Change Record Information](#)

[Viewing Bill of Material Information](#)



Project Builder



# New Business Processes and Functionalities

## Business Area and Business Capability Overview



New business capabilities in SAP S/4HANA



# New Business Processes and Functionalities

## Advanced Variant Configuration

- Design for variability and build engineering configurations
- Define variant models to support Configure, Price and Quote needs that support Omni channel commerce requirements
- Reduce time to market for new products through highly efficient simulation of new product variants and options
- Ensure data accuracy and consistency for complex product configuration needs across engineering, sales, manufacturing, service and support.

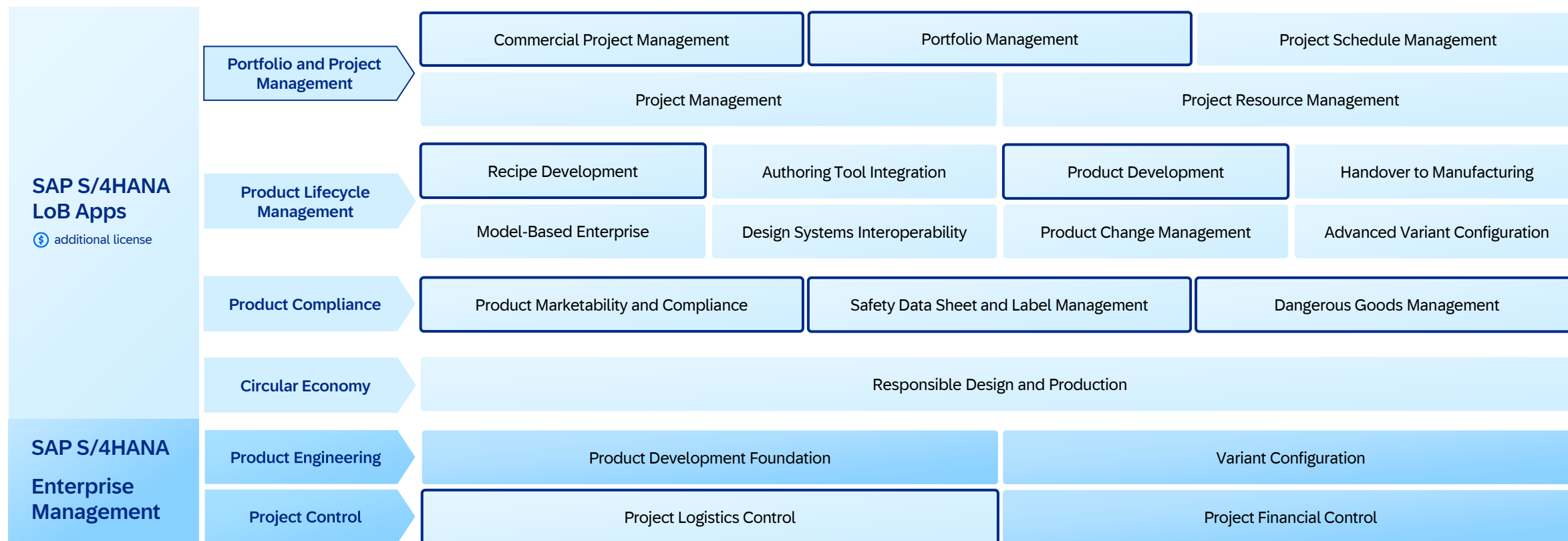
The screenshot displays the SAP Simulate Configuration Models interface for the 'ADVC EBIKE Model' (MZ-FG-E208). The top navigation bar includes the SAP logo, 'Simulate Configuration Models', and a search bar. The main header shows the model name and various configuration parameters: Configuration Status (Released), Sales Order Item (400802 / 10), Date (17.07.2023), Quantity (1), Configuration Profile (ADVC EBIKE MODEL), Plant (Plant 1 - US), BOM Application, and Simulation Context (Sales Document). Below this, a 'Bill of Material' table is visible, showing the 'ADVC EBIKE Model' as the primary component with a quantity of 1 PC. To the right, the 'Reference Characteristics' section is active, displaying a list of configurable attributes and their selected values: Variant condition (AVC\_CWEIGHT, AVC\_LARGEFORK), Bike Power Source (Manual Power), Bike Wheel Type (Tubeless Tire), Bike Frame Size (Ultra Light Frame), Region (USA), Component quantity, Bike Model (Sport Bike), Bike colour (Red), and Bike Number of Gears (3). The interface includes standard SAP navigation icons and a 'Save' button at the bottom right.

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Business Area and Business Capability Overview



Updated business capabilities in SAP S/4HANA

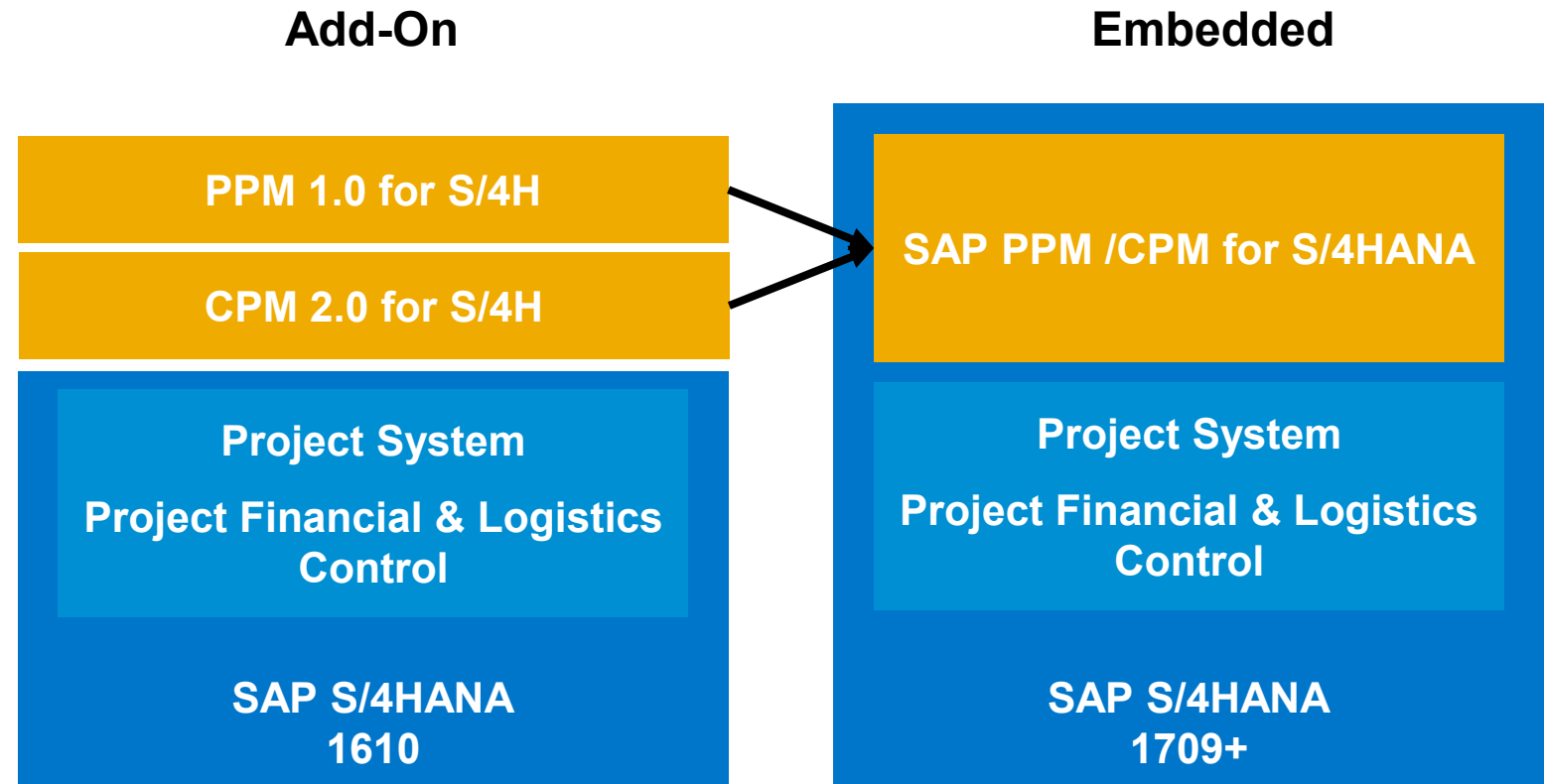


# Updated Business Processes and Functionalities

## Portfolio and Project Management

### Commercial Project Management - Changed Delivery Model

- SAP Portfolio and Project Management and SAP Commercial Project Management is as of 1709 technically delivered with SAP S/4HANA
- No longer required to install separate add-on on top of SAP S/4HANA
- Less TCO and maintenance effort



[Link to documentation](#)





# Updated Business Processes and Functionalities

## Commercial Project Management

### Lean services enablement for commercial projects

- Enable planning lean services in project financial planning for commercial projects
- Reduce efforts for planning and purchasing of lean services by leveraging new resource types in project financial planning
- Predefined transfer methods for planned lean service components to assigned projects in the project system
- Enable holistic planning, forecasting and monitoring of lean services and materials for the project

SAP Monthly Financial Planning: IT\_UGRD\_PROJECT-1

Edit You Can Also Copy Transfer Import Refresh

Financial Summary | EUR

Standard

Description	Structure Element (Description)	Cost (Plan)	Revenue (Plan)
IT Upgrade Project	IT_UGRD_PROJECT	0,00	0
Planning and Design	IT_UGRD-PLN	100.500,00	105.000
Planning and De...	IT_UGRD-PLN	0,00	0
Planning and Inst...	4054872	100.500,00	105.000
Planning and I...	4054872	0,00	0
Install Hardware	4054872-0010	100.500,00	105.000

Resource Type Summary

[Standard View] Info Drilldown Settings

Resource Type	Resource	UoM	Transaction Currency	Quantity	Cost (Transaction)	Cost (Plan)	Revenue (Transaction)	Revenue (Plan)
Planned Lean Services	ZSERVICE	Each	EUR	500,000	100.000,00	100.000,00	105.000,00	105.000,00
Unplanned Lean Services	ZSERVICE	Each	EUR	0,000	500,00	500,00	0,00	0,00

Planning Area

Standard Resource Type: OPLS Planned Resource: ZSERVICE Transaction Currency: EUR Euro UoM: EA Each Calculate Delete Distribute Valuate

Calendar Year/Month	Quantity	Rate (Cost)	Cost (Transaction)	Cost (Plan)	Rate (Revenue)	Revenue (Trans.)	Revenue (Plan)
2025 SEP	125	200,000	25.000,00	25.000,00	210,000	26.250,00	26.250,00
2025 OCT	125	200,000	25.000,00	25.000,00	210,000	26.250,00	26.250,00
2025 NOV	125	200,000	25.000,00	25.000,00	210,000	26.250,00	26.250,00
2025 DEC	125	200,000	25.000,00	25.000,00	210,000	26.250,00	26.250,00

Monthly Financial Planning

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Portfolio Management

### Risk Management in Portfolio and Project Management

- New Risk Management capabilities in PPM portfolio items:
  - Risk register for capturing risk details and activities
  - Versioning along with item versioning
- Enhanced Integration of Commercial Project Management and Portfolio Management for Capex Scenarios

▼ Risk Register [Switch to Risk Register](#)

Standard ▼ [Add Risk](#) [Delete Risk](#) [Import Risks](#) Risk Version ▼

Risk ID	Risk/Opportunity	Risk Stat...	* Risk Description	* Category	Subcate...	Identified ...	Probability	Impact	Cost	Quality	Schedule	Scope	Risk ...	Risk Level Icon	Level ...
● S-8881-RS...	Risk	New	Late deliveries of materials	Construction	Equi...	Go-Li...	Likeli...	Catastroph...	> 20...	Proje...	10-2...	Major...	-15	🔴	High Risk
○ S-8881-RS...	Risk	New	Inadequate planning for long lead items	Construction	Funct...	Not ...	Likeli...	Major Risk	5-10...	Quali...	< 5%...	Scop...	-12	🟡	Medium...
○ S-8881-RS...	Risk	New	Cash flow difficulties	Cash Flow	Curre...	Real...	Near ...	Moderate ...	5-10...	Quali...	5-10...	Major...	-15	🔴	High Risk
○ S-8881-RS...	Risk	New	Fluctuations in cost of raw materials	Cash Flow	Curre...	Clos...	Unlik...	Major Risk	10-2...	Quali...	10-2...	Major...	-8	🟡	Medium...
○ S-8881-RS...	Risk	New	Late drawings and instructions	Design	Desig...	Blue...	High...	Moderate ...	< 5%...	Only ...	5-10...	Major...	-12	🟡	Medium...
○ S-8881-RS...	Risk	New	Defective Design	Design	Desig...	Real...	Unlik...	Minor Risk	Insig...	Quali...	< 5%...	Scop...	-4	🟢	Low Risk
○ S-8881-RS...	Opportunity	New	Deficiency in drawings	Design	Desig...	Go-Li...	Unlik...	Major Bene...	10-2...	Major...	10-2...	Mod...	8	🟡	Medium...
○ S-8881-RS...	Opportunity	New	Estimate revision	Bidding	Desig...	Final...	High...	Moderate ...	5-10...	Mod...	5-10...	Mino...	12	🟡	Medium...

Potential Impact [Risk Response](#) Object Reference Risk Activity Admin. Info

Response Type: Watch ▼

Response Owner: 1000034

Response Status: Committed: On Track ▼

Response Mitigation Cost: 1,000.00 EUR

Response Due Date: 20.12.2023

Last Reviewed:

Response Description: B i U H1 H2 H3

Risk acknowledged. Mitigation activities are put in place. Actively being pursued.

Response Comments: B i U H1 H2 H3

Portfolio Item

[Link to documentation](#)



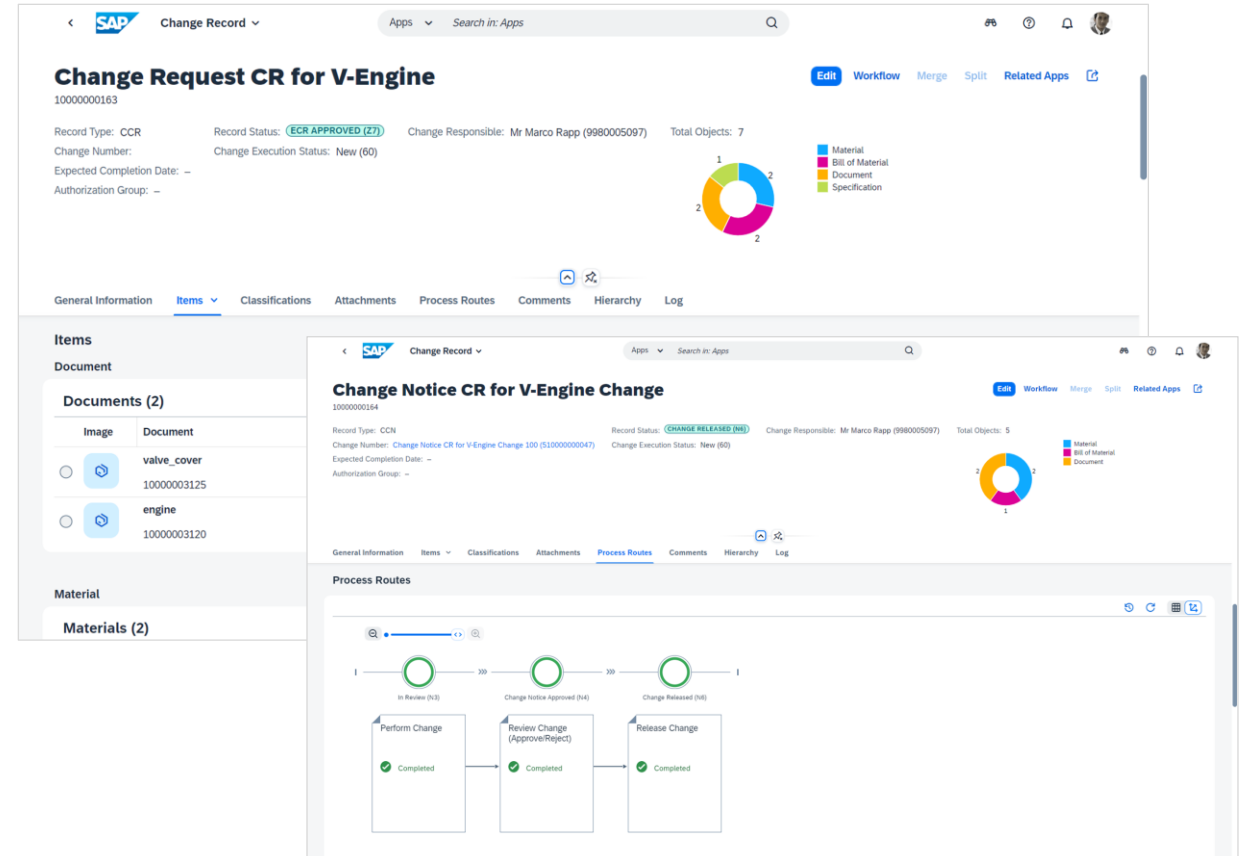
# Updated Business Processes and Functionalities

## Product Development

### Change Record

- Comprehensive change management to increase agility and responsiveness through enhancements in Change Record
- Provide transparency in change process through impact analysis to review and understand the implications of change on objects
- Redlining and comparison of redlines on changes
- Enable effective management of product changes by enhancing change record to support different Bill of Materials (BoM) types incl material BoM, equipment BoM, Functional location BoM, Order BoM, Work Breakdown Structures (WBS) BoM
- Drive efficiency in change process by supporting multiple task list types incl. general maintenance task list, rate routing, reference operation sets, rough cut planning profiles, equipment and functional task lists in change records

[Link to documentation](#)





# Updated Business Processes and Functionalities

## Product Development

### Software Constraints:

- Combine material master (software module) and document info records to represent the versions of the software
- Support software component in engineering BoM
- Manage constraints between software, and between software and hardware
- Provide overview of existing software-versions
- Support conflict check and redundant check for constraints

[Link to documentation](#)

The screenshot displays the SAP 'Manage Software Constraints' interface. The left sidebar shows the 'Software (1)' section with a list of software components, including 'SEAT\_ADJUSTMENT\_UP' in 'Draft' status. The main area is divided into three tabs: 'Hardware Constraint', 'Software Constraint', and 'Version'. The 'Hardware Constraint' tab is active, showing a table of constraints between hardware materials. The 'Software Constraint' tab shows constraints between software materials. The 'Version' tab shows a list of software versions.

No.	From	To	Rule	Hardware Material	Material Description	Actions
1	00	01	Requires (R)	RMIPD001	ARM Hardware 1	
2	00	01	Excludes (E)	RMIPD002	ARM Hardware 2	

No.	From	To	Rule	Software Material 1 <sup>1</sup>	Material Description	Minimum	Maximum
1	00	01	Requires (R)	SWNIPD001	ARM Software 1	00	01
2	00	01	Requires (R)	SWNIPD002	ARM Software 2	00	01

Version	Status	External Version	Description
00	Released		ARM software initial version
01	Released		ARM software 2nd version



# Updated Business Processes and Functionalities

## Recipe Development

- Streamline product formulation using multilevel hierarchies and real-time simulation
- Calculate product properties like ingredients, compositions, and costs
- Describe the processing of the product using stages, parameters and equipment requirements
- Leverage in place analytics to get additional information, for example on stock, compliance, and quality

The screenshot shows the SAP Display Recipe interface for CEREAL\_BAR4/000/001. The 'Contribution' tab is active, displaying a table of ingredients and their nutritional values. The table includes columns for Calcium [MG], Calories [KJ], Fiber [G], Iron [MG], Total Fat [G], Protein [G], and Sugar [G]. The ingredients are listed in a hierarchical structure, starting with '0001 Stage - Create Grainmix' and '0002 Stage - Create Liquid Mixer'. The 'Primary Output - Cereal Bar' is highlighted at the bottom of the table.

Formula Item	Calcium [MG]	Calories [KJ]	Fiber [G]	Iron [MG]	Total Fat [G]	Protein [G]	Sugar [G]
0001 Stage - Create Grainmix							
Cornflakes	1	4	10.333333		0.666667	3.333333	0.016667
Pumpkin Seed	8.296296	3.111111	3.259259			5.333333	
Almonds		12.222222		8.333333		15.740741	
0001 -	9.296296	7.111111	25.814815	8.333333	0.666667	24.407407	0.016667
0002 Stage - Create Liquid Mixer							
Dates	2.642643		6.726727	30.750751		11.891892	
Chocolate		2.702703					5.405405
Water							
0002 -	2.642643	2.702703	6.726727	30.750751		11.891892	5.405405
0003 Stage - Create Liquid Mix							
buckwheat	2.642643	2.702703	6.726727	30.750751		11.891892	5.405405
Raisins	2.972973					3.297297	
Cranberry		0.900901	3.135135	1.351351			3.72973
0003 -	5.615616	3.603604	9.861862	32.102102	0.990991	15.189189	9.585586
0004 Stage - Create Cereal Bar							
Primary Output - Cereal Bar	9.296296	7.111111	25.814815	8.333333	0.666667	24.407407	0.016667
Primary Output - Cereal Bar	5.615616	3.603604	9.861862	32.102102	0.990991	15.189189	9.585586
Primary Output - Cereal Bar	14.911912	10.714715	35.676677	40.435435	1.657658	39.596597	9.602252
Primary Output - Cereal Bar	14.911912	10.714715	35.676677	40.435435	1.657658	39.596597	9.602252
Minimum							
Target							
Maximum							

[Link to documentation](#)

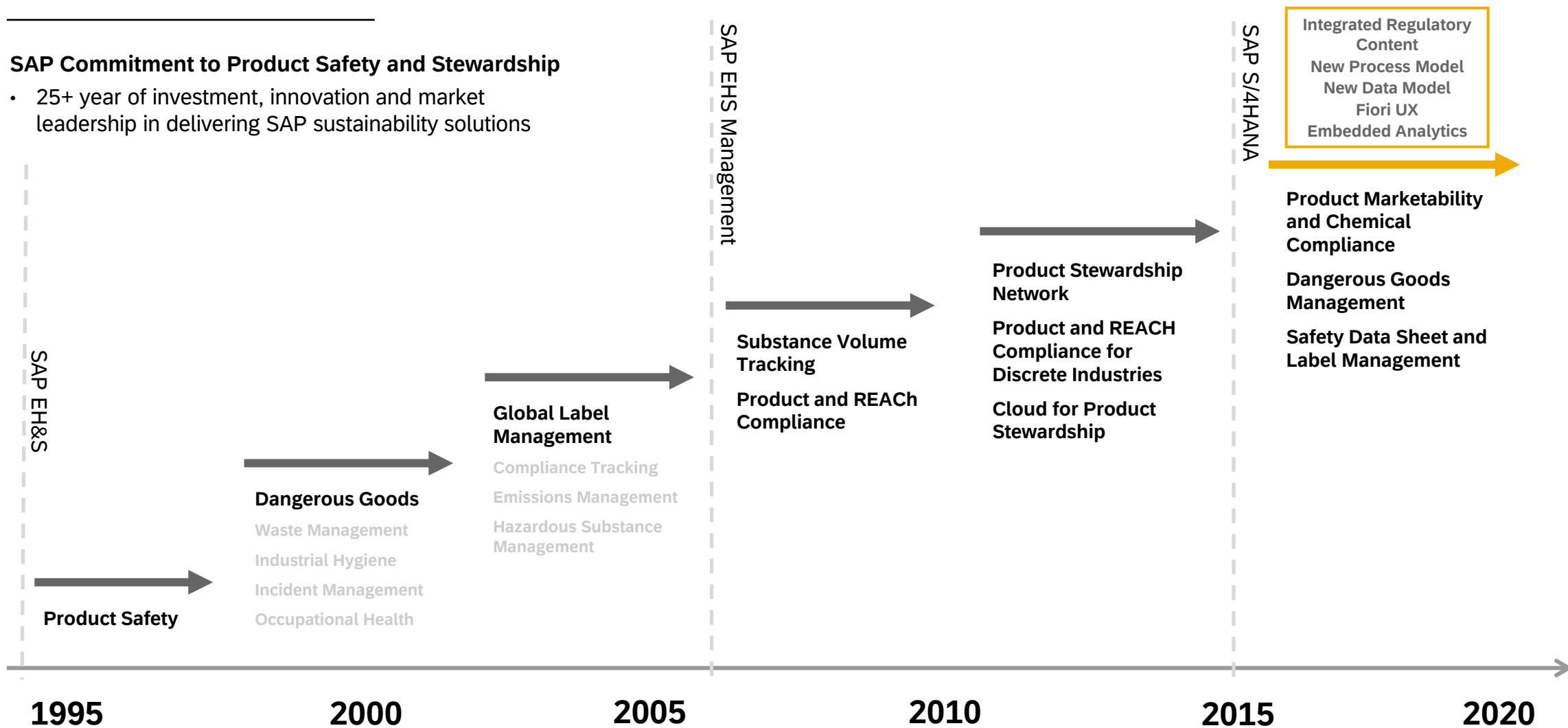


# Updated Business Processes and Functionalities

## Product Compliance

### SAP Commitment to Product Safety and Stewardship

- 25+ year of investment, innovation and market leadership in delivering SAP sustainability solutions





# Updated Business Processes and Functionalities

## Product Compliance

- Available since release SAP S/4HANA 1809: the **new, re-architected Product Compliance** solution, introduces a **new and simplified data model**
- **Completely Fiori-based**: dashboards and intuitive apps
- **Comprehensive integration** in order-to-cash and procure-to-pay processes
- **Regulation aspects** (marketability, dangerous goods (DG), etc.) implemented via **new data model**, with multiple versions at the same time
- Simple customer extensibility of regulation aspects
- **Dangerous Goods Management**: massively extended, pre-delivered regulatory DG content, incl. graphics and phrases; automated DG data maintenance
- **Safety Data Sheet (SDS) Management**: automated triggering of SDS shipment: in delivery processing and subsequent shipment for US and EU
- **Compliance checks**:
  - now in all relevant sales documents (quotations, sales orders, sales contracts and outbound deliveries)
  - now covering all check types: product marketability, dangerous goods, and safety data sheet

The screenshot displays the SAP S/4HANA Dangerous Goods Classification interface. The top section shows a table of regulations for 'P69 WHO hygienic handrub(btle 12x700ml)'. The table includes columns for Regulation, Enclosure Variant, Transport Permission, Description for Documents, Marking Text Description, Labels on Package, and Placards on Container, Tank, a... The table lists several regulations, including ADN 2021, ADR 2023, CFR 49 as of July 26th 2022, IATA-DGR 2023, IMDG Code 2020, NOM-002-SCT/2011, and RID 2021.

A detailed view of the 'Dangerous Goods Details' is shown in a circular inset. It includes the following information:

- Domestic Transport Is Allowed** (Green icon)
- Domestic Transport Is Restricted** (Orange icon)
- Domestic Transport Is Forbidden** (Grey icon)
- Dangerous Goods Details** (Dropdown menu)
- Classified As**: Dangerous Goods
- UN Number**: UN 1170
- International Transport** (Dropdown menu)
- Aircraft Cargo**: Allowed
- Aircraft Passenger**: Forbidden
- Deep Water**: Allowed

The bottom right of the screenshot shows a world map with a legend for 'Domestic Transport Provisions' and a table of transport permissions for different modes of transport.

[Link to documentation](#)

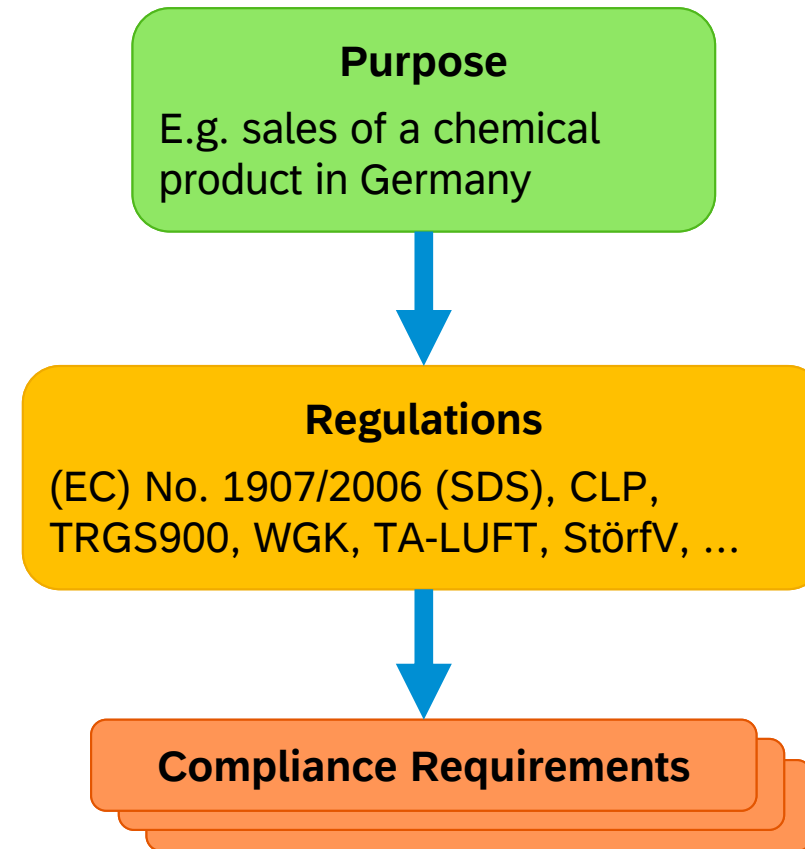


# Updated Business Processes and Functionalities

## Product Marketability and Compliance

### Compliance Requirement Concept:

- Compliance requirement as a self-contained processing & delivery unit covering requirements from a regulation, part of a regulation, or a stakeholder requirement
- Content and regulatory logic (compliance pattern) delivered as part of compliance requirement
- Own and partner compliance requirements possible (planned)
- Bundling of obligations in purposes



[Link to documentation](#)





# Updated Business Processes and Functionalities

## Product Marketability and Compliance

### Automated Compliance Assessment

- Automatic assignment of compliance requirements after assignment of a purpose to a product
- Automatic determination of compliance status for all assigned compliance requirements
- User guidance via assigned compliance requirements
- Automatic re-calculation of compliance assessments after changes, e.g. provisioning of a new compliance requirement version
- Compliance assessment app providing more information about substance list check results

[Link to documentation](#)

**RB Niacin Control (Oct 2022)**  
Red Bull Summer Edition – Wild Strawberry

Compliance Details | Assessment Details | Attachments

Marketability Status: **Not Compliant** (Calculated) | Remarks: -

**Exemptions**  
No exemptions assigned.

**Compliance Statements**  
No compliance statements defined for compliance requirement.

**Assessment Details**

**Substance Assessment**  
9 (Green) | 1 (Red)

**Raw Material Assessment**  
No released material-based composition exists.

**Restricted Substance Assessment (Based On: Analytical Composition)**

Assessment Status	Substance List	Substance	CAS Number	Role in Composition	Used Concentration	Threshold	Substance Assessment
Prohibited	RB Niacin Check List	NICOTINIC ACID	59-67-6	Active Ingredient	5.000 %	2.000 %	
Not Listed	RB Niacin Check List	sucrose	57-50-1	Active Ingredient	20.000 %		
Not Listed	RB Niacin Check List	glucose	50-99-7	Active Ingredient	5.000 %		
Not Listed	RB Niacin Check List	TAURINE	107-35-7	Active Ingredient	25.000 %		



# Updated Business Processes and Functionalities

## Product Marketability and Compliance

- Ensure compliance, reduce time to market and extend marketability of your products with embedded regulatory content
- 326.819 listed substances
- 10.971 regulatory phrases (incl. translations)
- 796 regulatory graphics
- 213 compliance requirements for product marketability, 147 with embedded content
- 94 compliance requirements for occupational exposure limits
- 102 compliance requirements for safety data sheet management
- 14 compliance requirements for dangerous goods
- Updated with every release

[Link to documentation](#)

The screenshot displays the SAP Regulatory: US-Cal Proposition 65 Status interface. The top navigation bar includes the SAP logo, the title 'Regulation: US-Cal Proposition 65 Status', and search filters. Below this, the 'Compliance Requirement Version' section shows the effective date (21.04.2023), end of transition, and name (US California Proposition 65 Status (Apr 2023)). The 'Substance Lists' section is active, showing a list of substances with columns for Name, Type of List, Listed Substance ID, Listed Substance, Substance Variant, CAS Number, Threshold, Unit, Is Group, and Additional Information. The list includes substances like 4,4'-Methylenedianiline, Di-n-butyl phthalate, di(2-ethylhexyl)phthalate, Butyl benzyl phthalate, 2,4-Dinitrotoluene, Tri(2-chloroethyl) phosphate, Acrylamide, trichloroethylene, Ethylene glycol monomethyl ether, ethylene glycol monomethyl ether acetate, Cobalt sulfate, and Ethylene glycol monomethyl ether dimethyl ether.



# Updated Business Processes and Functionalities

## Safety Data Sheet

### Updated regulatory content & structured data maintenance

- More than 100 compliance requirements in safety data sheet authoring
- Streamline safety data sheet generation with structured data maintenance
- Work view for data maintenance according to safety data sheet chapters
- Public APIs and migration objects for toxicological and ecological data, GHS classification, handling and storage, and safety related properties
- Ability to request data calculation by partners & public APIs for partners to read and write data sets
- Trigger business event from work view

**Industrial Cleaner**  
ZSDS-CLEANER-UP

Internal Name Industrial Cleaner  
Internal Number ZSDS\_CLEANER

**Logistics Roles**  
Sold, Transported, Produced

View Basic Data Switch Work View Request Calculation

**EU Safety Data Sheet (47) Standard**

Compliance Data	Processing Status	Processor/Released By
<b>Section 1 - Identification of the Substance/Mixture and the Company/Undertaking</b>		
EU Poison Centre Notification (Nov 2020)	Released	Saskia Kalmbach
Identifiers	Released	Saskia Kalmbach
<b>Section 2 - Hazards Identification</b>		
EU Specific Aerosol Labelling (Nov 2016)	Released	Saskia Kalmbach
EU GHS Labeling (Jan 2024)	Released	Saskia Kalmbach
EU GHS Classification (Jan 2024)	Released	Saskia Kalmbach
<b>Section 3 - Composition/Information on ingredients</b>		
Analytical Composition - (World)	Released	Saskia Kalmbach
EU Hazardous Ingredients (Jan 2021) Post BREXIT	Released	Saskia Kalmbach
<b>Section 4 - First aid measures</b>		
World First Aid Measures	Released	Saskia Kalmbach
<b>Section 5 - Firefighting measures</b>		
World Firefighting Measures	Released	Saskia Kalmbach
<b>Section 6 - Accidental release measures</b>		
World Accidental Release Measures	Released	Saskia Kalmbach
<b>Section 7 - Handling and storage (not yet supported by SDS generation)</b>		
DE TRGS 510 Storage class (Nov 2015)	Released	Saskia Kalmbach
World Handling and Storage (Jul 2023)	Released	Saskia Kalmbach
<b>Section 8 - Exposure controls/personal protection</b>		
World Personal Protection Measures	Released	Saskia Kalmbach
DE Components with OELs (Jun 2020)	In Progress	(No Processor)
<b>Section 10 - Stability and reactivity (not yet supported by SDS generation)</b>		
Stability and Reactivity	Released	Saskia Kalmbach

Display Work View

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Dangerous Goods Management

### Compliance Requirement Concept for Dangerous Goods

- Pre-defined compliance requirements representing DG regulations
- Definition of transport purposes as combinations of compliance requirements, e.g. according to regions: “DG Transport in Europe” combines compliance requirements UNRTDG, IMDG-Code, IATA-DGR, ADR, RID AND
- Assigned compliance requirements trigger DG classification of products

SAP Manage Compliance Requirements - Dangerous Goods Management

Recent Search

Standard

Name: Issuing Organization: Maintenance Status: Compliance Pattern: Date: 01.08.20... x DD.MM.YYYY or description Country / Region: Compliance Requirement: Content Provider: Hide Filter Bar

Compliance Requirement Versions

Standard Create New Version

Name	Compliance Requirement	Issuing Organization	Maintenance Status	Validity Period
ADG	ADG	National Transport Commission Australia	Released	30.06.2018 - Indefinite
ADG.2019	ADG	National Transport Commission (NTC)	Released	01.07.2018 - Indefinite
ADG.2020	ADG	National Transport Commission (NTC)	Released	01.10.2020 - Indefinite
ADN	ADN	United Nations Economic Commission for Europe (UNECE)	Released	31.12.2018 - Indefinite
ADN.2019	ADN	United Nations Economic Commission for Europe (UNECE)	Released	01.01.2019 - Indefinite
ADN.2021	ADN	United Nations Economic Commission for Europe (UNECE)	Released	01.01.2021 - Indefinite
ADR	ADR	United Nations Economic Commission for Europe (UNECE)	Released	01.01.2017 - Indefinite
ADR.2019	ADR	United Nations Economic Commission for Europe (UNECE)	Released	01.01.2019 - Indefinite
ADR.2021	ADR	United Nations Economic Commission for Europe (UNECE)	Released	01.01.2021 - Indefinite
ANIT	ANIT	National Agency of Transport by Land	Released	01.12.2018 - Indefinite
ANIT.2016	ANIT	National Agency of Transport by Land (ANIT)	Released	16.12.2016 - Indefinite
ANIT.2021	ANIT	National Agency of Transport by Land (ANIT)	Released	01.07.2021 - Indefinite
CER.49	49 CER	Office of the Federal Register National Archives and Records Administration	Released	19.06.2018 - Indefinite
CER.49 as of May 11th 2020	49 CER	Department of Transportation	Released	11.05.2020 - Indefinite
CER.49 as of Oct. 1st 2019	49 CER	Office of the Federal Register National Archives and Records Administration	Released	01.10.2019 - Indefinite
IATA-DGR	IATA-DGR	International Air Transport Association (IATA)	Released	01.01.2019 - Indefinite
IATA-DGR.2020	IATA-DGR	International Air Transport Association (IATA)	Released	01.01.2020 - Indefinite
IATA-DGR.2021	IATA-DGR	International Air Transport Association (IATA)	Released	01.01.2021 - Indefinite
IATA-DGR.2022	IATA-DGR	International Air Transport Association (IATA)	Released	01.01.2022 - Indefinite
IMDG-Code.2018	IMDG-Code	International Maritime Organization (IMO)	Released	01.01.2019 - Indefinite
IMDG-Code.2020	IMDG-Code	International Maritime Organization (IMO)	Released	01.01.2021 - Indefinite
IMDG-Code	IMDG-Code	International Maritime Organization (IMO)	Released	01.01.2018 - Indefinite
NCH382	NCH382	National Institute of Norms	Released	01.02.2017 - Indefinite
NCH382.2012	NCH382	National Institute of Normalization (INN)	Released	27.02.2017 - Indefinite
NCH382.2021	NCH382	National Institute of Normalization (INN)	Released	28.07.2021 - Indefinite
NOM-002-SCT	NOM	Secretary of Communications and Transport	Released	31.03.2011 - Indefinite
NOM-002-SCT2021	NOM	Secretary of Communications and Transport	Released	01.04.2021 - Indefinite
NZS	NZS 5433	Standards New Zealand	Released	01.03.2012 - Indefinite
NZS.2012	NZS 5433	Standards New Zealand	Released	07.03.2012 - Indefinite
RID	RID	Intergovernmental Organisation for International Carriage by Rail (OTIF)	Released	31.12.2018 - Indefinite
RID.2019	RID	Intergovernmental Organisation for International Carriage by Rail (OTIF)	Released	01.01.2019 - Indefinite
RID.2021	RID	Intergovernmental Organisation for International Carriage by Rail (OTIF)	Released	01.01.2021 - Indefinite
RS_TEST_ETL_CR_TBR.V1	RS_TEST_ETL_CR_TBR		Released	12.05.2022 - Indefinite
SANS	SANS 10228	South African Bureau of Standards	Released	01.08.2012 - Indefinite
SANS.2012	SANS 10228	South African Bureau of Standards (SABS), Standards Division	Released	21.08.2012 - Indefinite
TDG	TDG	Transport Canada	Released	11.12.2017 - Indefinite
TDG.2019	TDG	Transport Canada	Released	01.06.2019 - Indefinite

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Dangerous Goods Management

### Dangerous goods enabling a flexible packaging process

- Ensure safe and compliant packaging with packing instruction information in the View Regulatory Data – Dangerous Goods app
- Information according to dangerous goods regulations
- Packing information includes
  - Allowed single and combination packages
  - Header texts, references, and additional requirements
- Information for combination packages includes
  - Allowed inner, outer, or immediate packages
  - Maximum permitted quantity in each inner and outer packages per packing group

The screenshot displays the SAP View Regulatory Data - Dangerous Goods app interface. It is divided into three main sections:

- Regulatory Data Sets (18):** A table listing various regulations and their details.
 

Regulation	UN Nu...
ADG 2023	UN 1090
Packing Group: II	
Proper Shipping Name: ACETONE	
ADG 2024	UN 1090
Packing Group: II	
Proper Shipping Name: ACETONE	
ADN 2023	UN 1090
Packing Group: II	
Proper Shipping Name: ACETONE	
ADR 2023	UN 1090
Packing Group: II	
Proper Shipping Name: ACETONE	
ANTT 2023	UN 1090
Packing Group: II	
Proper Shipping Name: ACETONE	
CFR 49 as of May 13th 2024	UN 1090
Packing Group: II	
Proper Shipping Name: Acetone	
IATA-DGR 2024	UN 1090
Packing Group: II	
Proper Shipping Name: Acetone	
- ADR 2023:** A section for ADR Content Based Regulation, showing enclosure-specific data sets (7) and enclosure variant information.
  - Enclosure Variant:** Enclosure ...
  - Enclosure Specific Classification List:** Limited Quantity (LQ)
  - Special Provisions:** Mixed Packing Provisions: MP19
  - Vehicle for Tank Carriage:** Transport Permission: Allowed
  - Inner Packaging:** 1 l (Maximum Net Volume)
  - Outer Packaging:** 30 kg (Maximum Gross Weight)
  - Packing (P):** P001
  - Special Provisions:** Mixed Packing Provisions: MP19
  - Vehicle for Tank Carriage:** Transport Permission: Allowed
  - Inner Packaging:** Allowed
  - Outer Packaging:** R001
  - Regulation-Specific Tank:** LGBF
  - Special Provisions:** Mixed Packing Provisions: FL
  - Vehicle for Tank Carriage:** Transport Permission: Allowed
  - Inner Packaging:** Allowed
  - Outer Packaging:** T4
- P001:** A section for P001, showing combination packaging and single packaging information.
  - Combination Packaging:** The general provisions of 4.1.1 and 4.1.3 shall be met.
 

Packaging Description	Packaging C...	Maximum Quantity	Gross Weight
<b>Packaging Subtype: Inner Packaging</b>			
Inner packaging, glass		10 l	
Inner packaging, plastics		30 l	
Inner packaging, metal		40 l	
<b>Packaging Subtype: Outer Packaging</b>			
Drum, steel, non-removable head	1A1	400 kg	
Drum, steel, removable head	1A2	400 kg	
Drum, aluminium, non-removable head	1B1	400 kg	
Drum, aluminium, removable head	1B2	400 kg	
Drum, metal, other than steel or aluminium, non-removable head	1N1	400 kg	
Drum, metal, other than steel or aluminium, removable head	1N2	400 kg	
Drum, plastics, non-removable head	1H1	400 kg	
  - Single Packaging:** View Regulations Data – Dangerous Goods

[Link to documentation 1](#)

[Link to documentation 2](#)



# Updated Business Processes and Functionalities

## Dangerous Goods Management

### Dangerous Goods Classification of a packaged products & unpackaged products

- Transport permission determined based on enclosure-specific dangerous goods list data
- Enhancement in packaged dangerous goods classification: ability to automatically derive the transport permission based on the enclosure-specific dangerous goods list data
- Provide support in the determination of the transport permission to comply with dangerous goods regulations

Regulation	Enclosure Variant	Transport Perm...	Description for Documents	Marking Text Description	Labels on Package	Placards on Con...
ADR 2021 Display Basic Classification	Packaging (P)	Allowed	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, isobutyl alcohol, propylene glycol), 3, II 1 Drum x 20 l	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, isobutyl alcohol, propylene glycol)		
ADR 2021 Display Basic Classification	Packaging (P)	Allowed	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, isobutyl alcohol, propylene glycol), 3, II, (DIE) 1 Drum x 20 l	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, isobutyl alcohol, propylene glycol)		
CFR 49 as of May 11th 2020 Display Basic Classification	Packaging (P)	Restricted	UN 1993 Flammable liquids, n.o.s. (ethanol, isobutyl alcohol, propylene glycol), 3, II, ERG 120, (Flashpoint: 22°C c.c.) 1 Steel drum x 20 l (5.2035 US Gallon)	UN 1993 Flammable liquids, n.o.s. (ethanol, isobutyl alcohol, propylene glycol)		
IATA-DGR 2022 Display Basic Classification	Packaging (P)	Restricted	UN1993, Flammable liquid, n.o.s. (ethanol, isobutyl alcohol, propylene glycol), 3, II 1 Steel drum x 20 l 364	UN 1993 Flammable liquid, n.o.s. (ethanol, isobutyl alcohol, propylene glycol)		
IMDG Code 2020 Display Basic Classification	Packaging (P)	Allowed	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, isobutyl alcohol, propylene glycol), 3, II, (Flashpoint: 22°C c.c.) 1 Steel drum x 20 l	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, isobutyl alcohol, propylene glycol)		

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Dangerous Goods Management

### Dangerous Goods Checks in SAP Transportation Management:

- Automated checks integrated into the processing of transportation documents for rail, ocean, and air cargo transport:
  - Freight Unit
  - Freight Oder
  - Freight Booking
- Automatic consideration of modes of transports at freight bookings

**Edit Ocean Freight Booking 6700001855**

Document Cut-Off Date: 00:00:00 PST

**Items**

Freight Booking Item View

MyStandard | Insert: (Choose Item Type) | Insert FUs Based on Freight Unit ID | Create

Item Hierarchy	Item Type	Item ... (Desc...)	Qua...	Qua... UoM	Gross Wei...	Gross Wei... UoM	Gross Volu...	Gross Volu... UoM	Net Wei...	Net Wei... UoM	Product	Dangerous Goods Status (Description)	Freight Order for Pick-Up	Freight Order for Delivery
▼ Sales Order 21225				***	443 KG	0.442 M3	419 KG							
▼ Freight Unit 4200014565				***	443 KG	0.442 M3	419 KG							
Product 10 Firmis Löser Zitrone (20l Fass)	PRD	Product	20	DR	420 KG	0.42 M3	400 KG				P69-VARREM_PP1	OK – Transport Allowed		
Product 20 WHO byg. Handreiniger (2x500ml)	PRD	Product	10	CAR	16 KG	0.016 M3	14 KG				P69-HANDR_PP1	OK – Transport Allowed		
Product 30 Linalool (1L Flasche)	PRD	Product	5	BT	7 KG	0.006 M3	5 KG				P69-LINALOOL-PP	OK – No Dangerous Goods		

**Stages**

Standard | Intermediate Stop | Merge | Execution Status (Source) | Execution Status (Destination)

Stage	Stage Category (Description)	Transp... Mode	Transportation Mode (Description)	Source Location	UN/LOCODE (Source)	Source Location Address	Destination Location	UN/LOCODE (Desti...)	Destination Location Address	Executing Carrier	Executing Carrier Description	SCAC of Execut... Carrier	Invoicing Carrier	Invoicing Carrier (Description)
1	Pre-Carriage	01	Road	SP_1710		Shipping Point 1710 - ...	PORT_USLAX	USLAX	USLAX / 425 South Pa...					
2	Main Carriage	03	Sea	PORT_USLAX	USLAX	USLAX / 425 South Pa...	PORT_DEHAM	DEHAM	DEHAM / Kurt-Eckelm...					
3	On-Carriage	01	Road	PORT_DEHAM	DEHAM	DEHAM / Kurt-Eckelm...	0017100050		Foreign Customer 50 (...)					

Save Cancel

[Link to documentation](#)




# Updated Business Processes and Functionalities

## Dangerous Goods Management

### Output of Dangerous Goods Data on Logistic Documents:

- Automatic output of dangerous goods data on logistics documents:
  - Sales quotation
  - Sales contract
  - Order confirmation
  - Scheduling agreement
  - Picking list
  - Delivery note
- Automatic determination of countries, regulations and DG data required for output by using logistics data

Delivery: 80016083



Page: 1/2

Unternehmen  
Foreign Customer 50 (DE)  
Hauptstraße 1  
97218 GERBRUNN  
GERMANY

Delivery Date Aug 17, 2022  
SD Document 21225  
SD Document Date Aug 11, 2022  
Customer Reference Demo DG-TM  
Customer Reference Date  
Sold-To Party Foreign Customer 50 (DE)  
Ship-To Party Foreign Customer 50 (DE)  
Shipping Point 1710  
Shipping Point Name Shipping Point 1710

**Shipment Details:**  
Proposed Delivery Route  
Shipping Condition 06  
Shipping Condition Name TM - Int. Planning  
Incoterms Classification DDP  
Incoterms Classification Name Delivered Duty Paid

**Shipping Point Address:**  
Shipping Point 1710 - Address Name 1  
3475 Deer Creek  
Palo Alto CA 94304-1355

Item	Material	Description	Delivery Quantity	Gross Weight	Net Weight
000010	P69-VARREM_PP1	Firmis Löser Zitrone (20L Fass)	20 DR	420 KG	400 KG
	Volume	0.42 M3			
	Customer Reference	Demo DG-TM			
	Customer Reference Date				
	49 CFR: UN 1993 Flammable liquids, n.o.s. (ethanol, isobutyl alcohol, propylene glycol), 3, II, ERG: 128 20 Steel drums x 20 l (5.2835 US Gallon) ADR: UN 1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Ethanol, 2-Methylpropan-1-ol, propylene glycol), 3, II, (D/E) 20 Fässer x 20 l IMDG-Code: UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, isobutyl alcohol, propylene glycol), 3, II, (flashpoint: 22°C c.c.) 20 Steel drums x 20 l				
000020	P69-HANDR_PP1	WHO hyg. Handreiniger (2x500ml)	10 CA	16 KG	14 KG
	Volume	0.016 M3			
	Customer Reference	Demo DG-TM			
	Customer Reference Date				

Delivery note with dangerous goods data

[Link to documentation](#)





# Updated Business Processes and Functionalities

## Dangerous Goods Management

### Specific Dangerous Goods Documents:

- Creation of specific dangerous goods documents in SAP Transportation Management
  - IMO declaration
  - ADR dangerous goods note
- Automatic consideration of required languages

ADR Beförderungspapier für Gefahrgüter																					
1. Absender		2. Nummer des Beförderungspapiers 6600001860																			
3. Seite 1 von 1		4. Referenznummer des Beförderers 6600001860		5. Referenznummer des Spediteurs 8100001960																	
7. Beförderer TM Carrier1 DE Dietmar-Hopp-Allee 17 69190 WALLDORF DEUTSCHLAND																					
Erklärung des Absenders Hiermit erkläre ich, dass der Inhalt dieser Sendung vollständig und genau durch die unten angegebene offizielle Benennung für die Beförderung beschrieben und richtig klassifiziert, verpackt, gekennzeichnet, bezettelt und mit Grosszetteln (Placards) versehen ist und sich nach den anwendbaren internationalen und nationalen Vorschriften in jeder Hinsicht in einem für die Beförderung geeigneten Zustand befindet.																					
9. Zusätzliche Informationen für die Handhabung																					
<table border="1"><thead><tr><th>Angabe der Güter</th><th>Bruttomasse (kg)</th><th>Nettomasse</th><th>Rauminhalt (m³)</th></tr></thead><tbody><tr><td>er Zitrone (20L Fass)</td><td>420.000 KG</td><td>400.000 KG</td><td>0.420 M3</td></tr><tr><td>pylene glycol), 3, II, (D/E)</td><td></td><td></td><td></td></tr><tr><td>Handreiniger (2x500ml)</td><td>16.000 KG</td><td>14.000 KG</td><td>0.016 M3</td></tr></tbody></table>						Angabe der Güter	Bruttomasse (kg)	Nettomasse	Rauminhalt (m³)	er Zitrone (20L Fass)	420.000 KG	400.000 KG	0.420 M3	pylene glycol), 3, II, (D/E)				Handreiniger (2x500ml)	16.000 KG	14.000 KG	0.016 M3
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<b>IMO DANGEROUS GOODS DECLARATION</b> This Form meets the requirements of SOLAS chapter VII, regulation4, MARPOL, Annex II and the IMDG-Code Chapter 5.4																					
1 Shipper		2 Transportation Document Number 6600001859																			
3 Page 1 of 1		4 Shipper's Reference																			
6 Consignee Foreign Customer 50 (DE) Hauptstraße 1 97218 GERBRUNN GERMANY		5 Freight Forwarder's Reference 6700001855																			
		7 Carrier (to be declared by the Carrier) TM Carrier1 US Windgap Ave PITTSBURGH PA 15214 USA																			
SHIPPERS DECLARATION IN ACCORDANCE TO SECTION 5.4.1.6 IMDG-Code I hereby declare that the contents of this consignment are fully and accurately described below by the proper shipping name(s), and are classified, packaged, marked and labeled/placarded and are in all respects in proper condition for transport according to applicable international and national governmental regulations.																					
10 Vessel/Flight and Date		9 Additional Handling Information																			
11 Port/Place Handling PORT_USLAX																					
<table border="1"><thead><tr><th>14 Shipping marks</th><th>* Number and kind of packages; description of goods</th><th>Gross mass (kg)</th><th>Net mass</th><th>Cube (m3)</th></tr></thead><tbody><tr><td>P69-VARREM_PP1</td><td>Firmis Löser Zitrone (20L Fass) UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, Isobutyl alcohol, propylene glycol), 3, II, (flashpoint: 22°C c.c.) 20 Steel drums x 20 l For US only (CFR 49) UN 1993 Flammable liquids, n.o.s. (ethanol, Isobutyl alcohol, propylene glycol), 3, II, ERG: 128 20 Steel drums x 20 l (5.2835 US Gallon)</td><td>420.00 KG</td><td>400.00 KG</td><td>0.42 M3</td></tr><tr><td>P69-HANDR_PP1</td><td>WHO hyg. Handreiniger (2x500ml) UN 1170 ETHANOL SOLUTION, 3, II, Limited Quantity 10 Fibreboard boxes x 1 l For US only (CFR 49) UN 1170 Ethanol solutions, 3, II, ERG: 127, Limited Quantity 10 Fibreboard boxes x 1 l (0.2642 US Gallon)</td><td>16.00 KG</td><td>14.00 KG</td><td>0.02 M3</td></tr></tbody></table>						14 Shipping marks	* Number and kind of packages; description of goods	Gross mass (kg)	Net mass	Cube (m3)	P69-VARREM_PP1	Firmis Löser Zitrone (20L Fass) UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, Isobutyl alcohol, propylene glycol), 3, II, (flashpoint: 22°C c.c.) 20 Steel drums x 20 l For US only (CFR 49) UN 1993 Flammable liquids, n.o.s. (ethanol, Isobutyl alcohol, propylene glycol), 3, II, ERG: 128 20 Steel drums x 20 l (5.2835 US Gallon)	420.00 KG	400.00 KG	0.42 M3	P69-HANDR_PP1	WHO hyg. Handreiniger (2x500ml) UN 1170 ETHANOL SOLUTION, 3, II, Limited Quantity 10 Fibreboard boxes x 1 l For US only (CFR 49) UN 1170 Ethanol solutions, 3, II, ERG: 127, Limited Quantity 10 Fibreboard boxes x 1 l (0.2642 US Gallon)	16.00 KG	14.00 KG	0.02 M3	
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[Link to documentation](#)



# Updated Business Processes and Functionalities

## Dangerous Goods Management

### Delivery of Dangerous Goods Regulations via Content Service

- Consume dangerous goods regulations, through a service interface with the regulatory content service, in SAP S/4HANA Cloud Private Edition and the SAP S/4HANA solution for product compliance
- Automate updates of dangerous goods regulations when regulatory changes and enhancements occur
- Allow users to continuously consume up-to-date compliance requirements for dangerous goods management from SAP
- Simplify the process for users to receive fast and frequent updates of dangerous goods regulations independent of the solution release

[Link to documentation](#)

SAP Activate Compliance Requirements

Apps | Search In: "Apps"

Standard

Search | What's Changed: Update of Existing Version x 2 more | Status:

New or Updated (16) | Active (16) | Inactive (0)

Compliance Requirement Version	What's Changed	Effective Date	End of Transition	Status	Configuration	Action
<input type="checkbox"/> CFR 49 as of May 30th 2023	Update of Existing Version	10.05.2023	10.05.2023	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> ADG 2023	Update of Existing Version	01.04.2023	01.04.2024	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> ADR 2023	Update of Existing Version	01.01.2023	30.06.2023	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> ANTT 2023	Update of Existing Version	01.06.2023	01.06.2023	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> IATA-DGR 2024	Update of Existing Version	01.01.2024	02.01.2024	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> IMDG Code 2022	Update of Existing Version	01.01.2024	01.01.2024	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> J/T 617.3 2018	Update of Existing Version	01.12.2018	18.12.2023	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> NCh382 2021	Update of Existing Version	01.01.2023	01.01.2024	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> NOM-002-SCT/2011	Update of Existing Version	01.04.2011		Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> NZS HB 2021	Update of Existing Version	28.01.2021	28.01.2021	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> RID 2023	Update of Existing Version	01.01.2023	30.06.2023	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> SANS 2022	Update of Existing Version	16.09.2022	16.09.2022	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> TDG 2020	Update of Existing Version	19.02.2020	19.02.2020	Released	<a href="#">Edit</a>	<a href="#">Confirm</a>
<input type="checkbox"/> UNRTDG 2023	Update of Existing Version	10.08.2023		Released	<a href="#">Edit</a>	<a href="#">Confirm</a>



# Updated Business Processes and Functionalities

## Project Control

- New Object-Based Authorization (OBA) in Project System enables customers to easily control the user access to individual project objects.
- Simplified maintenance and fine granular authorization handling for projects based on the new Object-Based Authorization (OBA)
- OBAs can be assigned to the following object types in Project System:
  - Project Definition , WBS element
  - Network Header, Network Activity and Activity Element
- OBAs can be granted to user groups or individual users.
- OBAs will be inherited automatically to lower-level project objects. On the lower level, however, additional (local) OBAs can be granted.
- Optimized performance during evaluation of object-based authorizations

Identification and view selection

Activity: 4001607 0010 Int. Processing 0010

Detail:

Overview(s):

Internal Extntl Dates Assignments **Object-Based Authorization** Long Text User fields Qualification Additional data

Object-Based Authorization

☐ Show All  
☐ Show Local

Authorization Group De...	Authorization Holder Name	Authorization Type Description	Inherited	Inherited From	Create	Default Authorization
User		Admin	<input checked="" type="checkbox"/>	Q.2017	<input checked="" type="checkbox"/>	
User		Admin	<input checked="" type="checkbox"/>	000004001607	<input checked="" type="checkbox"/>	
User		Read	<input checked="" type="checkbox"/>	Q.2017	<input type="checkbox"/>	
User Group		Admin	<input checked="" type="checkbox"/>	Q.2017	<input checked="" type="checkbox"/>	
User Group		Admin	<input type="checkbox"/>		<input checked="" type="checkbox"/>	

Maintenance of OBAs for a network activity

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Project Logistics Control

Enablement of lean services procurement in project management:

- Assign functional items as well as items sets from contracts to unplanned services in project networks.
- Use the select from contract function to select unplanned services from contract
- Create service and material components by selecting item from model product specifications
- Leverage model product specifications to create lean service and material components
- Project Cost Overview and Project Cost Line Items apps have been enhanced to support service orders and service contracts

[Link to documentation](#)

Project Builder: Project MF\_05\_2024

Copy materials/planned services from model product spec

ID: 0000000180 Name: MPS\_QVL910

Sel...	Hierarchy Nu...	Description	Material	Plant	P...	Mat...	Quantity	Qu...
<input type="checkbox"/>	1	Root Node 1					0,000	
<input type="checkbox"/>	1.1	Parent Node 1					0,000	
<input type="checkbox"/>	1.1.1	Child Node (Materials)					0,000	
<input checked="" type="checkbox"/>	1.1.1.1	Test Material		0001	1	01	12	EA
<input type="checkbox"/>	1.1.1.2	Test Material		0004	1	02	12	EA
<input type="checkbox"/>	1.1.1.3	Component 2	00000000000000000295	0001	1	01	120	PC
<input type="checkbox"/>	1.1.2	Child Node (Services)					0,000	
<input checked="" type="checkbox"/>	1.1.2.1	Test Service		0001	2	02	12,0	HR
<input type="checkbox"/>	1.1.2.2	Test Services		0004	2	01	13,0	HR
<input type="checkbox"/>	1.1.2.3	Test Services		0001	2	01	13,0	HR
<input type="checkbox"/>	1.1.3	Child node (Invalids)					0,000	

Project Builder

Project Builder: Project MF\_05\_2024

Copy unplanned services from contract

Agreement: 4600003394 Agreement Type: MK Agmt Date: 02.11.2023

Supplier: 7023 JM\_20210923-234054 Currency: EUR

Sel...	Item	Hierarchy Number	I	P...	A	Material	Short Text	Overall Limit	Expected Value	Targ. Qty	OU	Net Price	Per	OPU
<input type="checkbox"/>	10	1					Root Node 1				0,000		0,00 0	
<input type="checkbox"/>	20	1.1					Parent Node 1.1				0,000		0,00 0	
<input checked="" type="checkbox"/>	80	1.2					Parent Node 1.2	10.000,00	9.000,00		0,000		0,00 0	
<input type="checkbox"/>	90	1.2.1	2	U			Test Service				10,0 HR		2.300,00 1	HR
<input type="checkbox"/>	100	1.2.2	2	U			Test				2 EA		23,00 1	AU

Project Builder



# Out-of-the-Box Integration

## Integration with S/4HANA Cloud for Projects, Collaborative Project Management

- Connect people, information and processes across intelligent enterprises and bridges processes in project planning, management and execution by connection with S4 HANA at the right point in time
- Project Collaboration / Project Networks – Digitize and automate information flow between all internal and external project stakeholders
- Multiple breakdowns in a project – Handle multiple dimensional structures according needs of different functions / phases
- Hybrid Project Management - Flexible transition from management to execution providing end-to-end transparency while enabling agile decision making



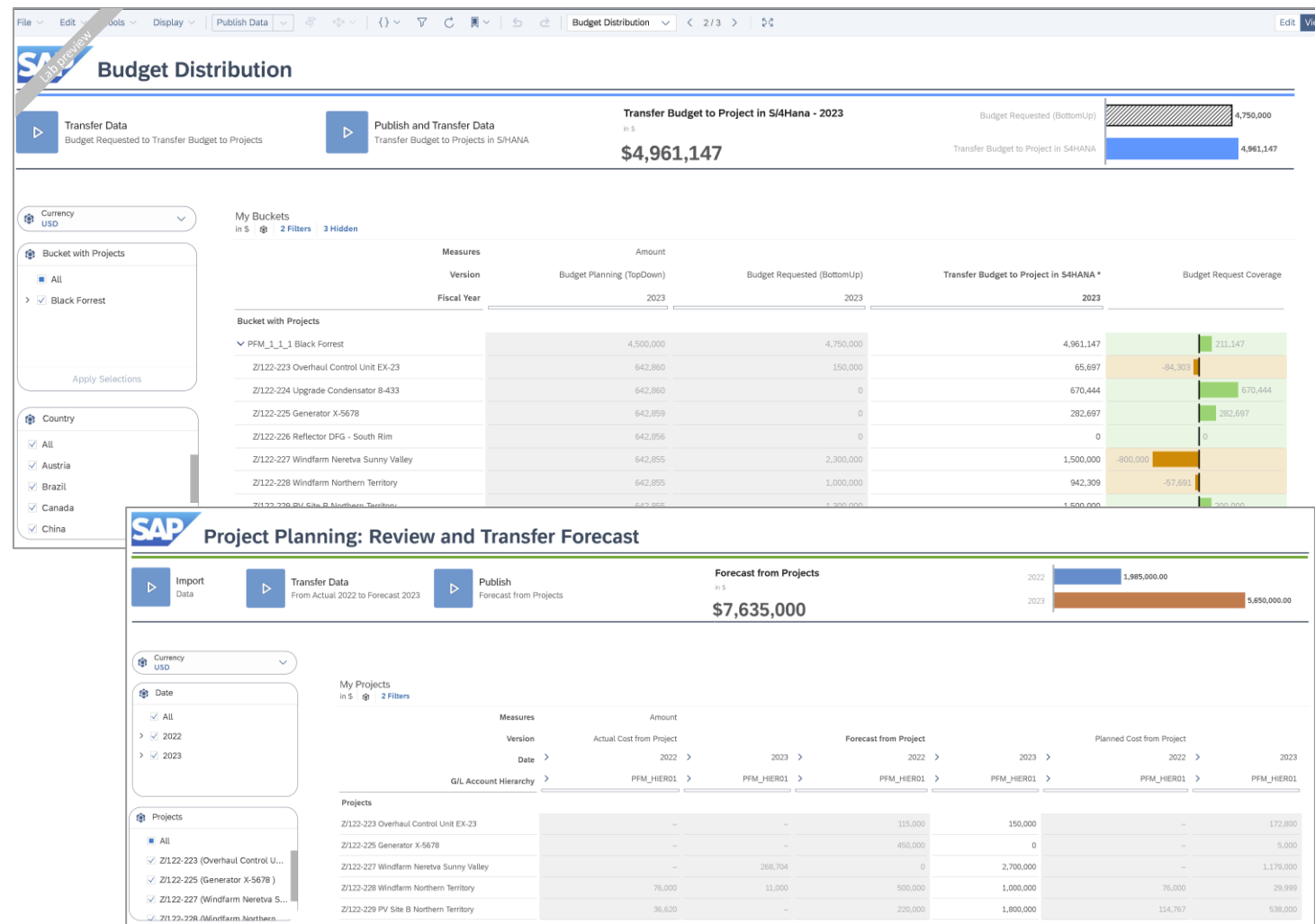
[Link to documentation](#)



# Out-of-the-Box Integration

## Planning of investments for a portfolio of projects with SAP Analytics Cloud

- SAP Analytics Cloud content package to support Portfolio Financial Planning process by aligning bottom-up and top-down planning
- Review Actual and Plan cost of projects from SAP S/4HANA
- Transfer approved financial plan to project in SAP S/4HANA





# Out-of-the-Box Integration

## Project Network in API Hub

- Synchronous inbound service enables you to create, to read, to update and to delete the master data for the Project Network and the Project Network activity
- Enables to read the Project Network Activity Element, the Project Network Activity Milestone, the Project Network Activity Material Component, and the Project Network Activity Relationship master data
- OData version 4 service published on the API hub
- Improved processing & response times and includes lightweight JSON format that reduces the size of every response

The screenshot displays the SAP Business Accelerator Hub interface, specifically the API Reference section for the Project Network and Project services. The top navigation bar includes links for Explore, Resources, Discover Integrations, and Partner with Us. The main header shows the SAP logo and the text 'Business Accelerator Hub'. Below this, the 'Project Network' service is highlighted, with a description: 'Create, read, update, and delete project network details using this synchronous inbound service'. The 'API Reference' tab is selected, showing a list of endpoints for the Project Network service. These include: GET /ProjectNetwork (Get entities from ProjectNetwork), POST /ProjectNetwork (Add new entity to ProjectNetwork), and GET /ProjectNetwork('{ProjectNetwork}') (Get entity from ProjectNetwork by key). Below this, the 'Project' service is shown, with a description: 'Create, read, update or delete the project or the WBS elements of projects using this synchronous inbound service'. The 'API Reference' tab for the Project service is also selected, showing a list of endpoints for the Project service. These include: GET /Project (Get entities from Project), POST /Project (Add new entity to Project), GET /Project('{ProjectInternalID}') (Get entity from Project by key), PATCH /Project('{ProjectInternalID}') (Update entity in Project), DELETE /Project('{ProjectInternalID}') (Delete entity from Project), POST /Project('{ProjectInternalID}')/SAP\_\_self.SetUserStatusToProject (Invoke action SetUserStatusToProject), POST /Project('{ProjectInternalID}')/SAP\_\_self.SetAndPassUserStatusToProject (Invoke action SetAndPassUserStatusToProject), POST /Project('{ProjectInternalID}')/SAP\_\_self.ReleaseProject (Invoke action ReleaseProject), POST /Project('{ProjectInternalID}')/SAP\_\_self.UnlockProjectMasterData (Invoke action UnlockProjectMasterData), and POST /Project('{ProjectInternalID}')/SAP\_\_self.UndoCompleteProjectTechnically (Invoke action UndoCompleteProjectTechnically). The interface also includes a 'Select Release' dropdown menu set to '2022 FPS02' and a 'Show API Key' button. A 'Feedback' button is visible on the right side of the Project service section.

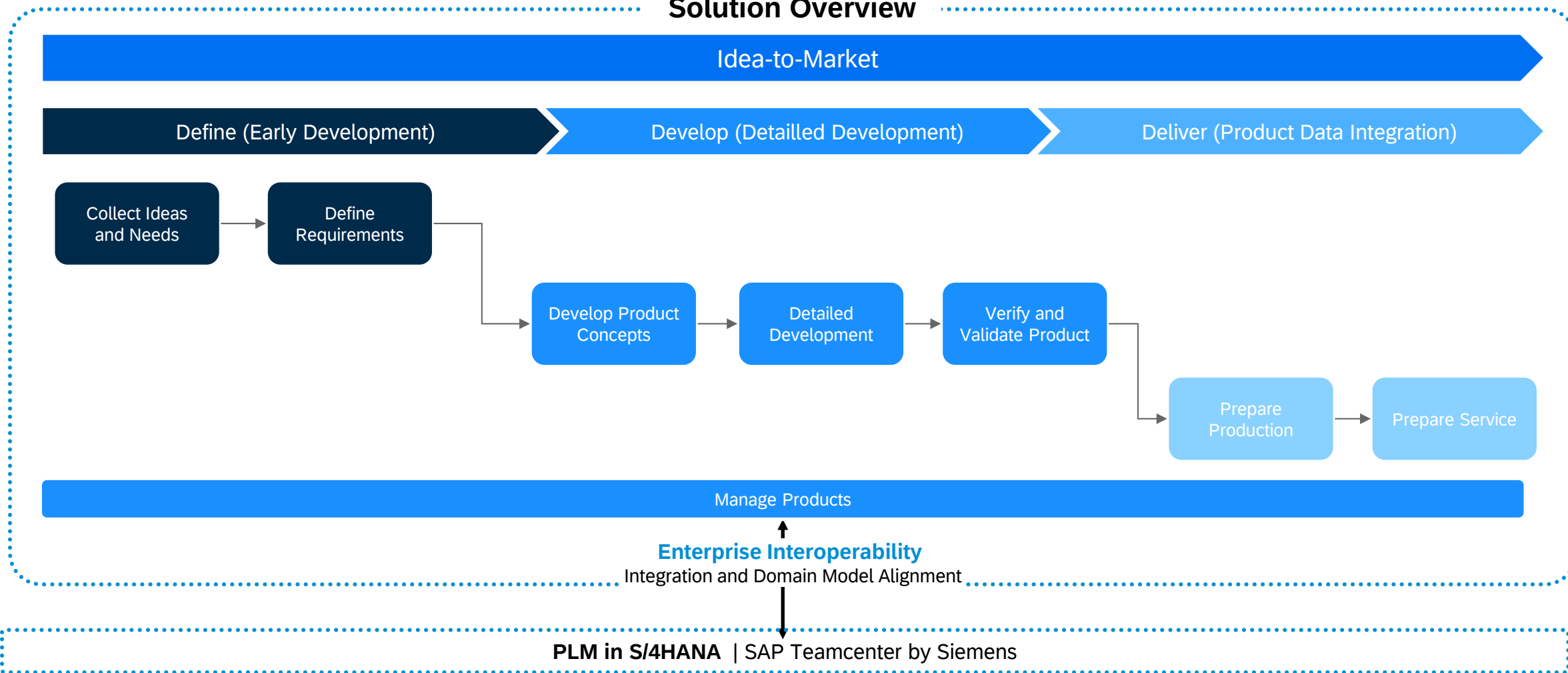
[Link to documentation](#)



# Out-of-the-Box Integration

SAP Enterprise Product Development (SAP EPD) is a public cloud solution designed to drive the digital transformation of product development processes.

## Solution Overview







# Out-of-the-Box Integration

## Effortless & secure collaboration with your extended enterprise through SAP Enterprise Product Development

- Collaborate with suppliers, development partners and contract manufacturers with SAP Enterprise Product Development
- Collaborate and share unstructured data and structured data like documents, Bills – of-Materials, Specifications, change records by leveraging out of box integration with SAP S/4HANA
- Collaborate through different stages of product lifecycles incl ideations, early design, product development, manufacturing and service with the extended enterprise
- Supplier Collaboration: Enables product teams to collaborate with Suppliers and Vendors to "exchange" product data for RFx processes

The screenshot displays the 'My Collaborations' interface in SAP. At the top, there's a search bar with 'Search In: "Apps"' and a 'Go' button. Below this, there are filter tabs for 'Standard' (selected) and 'Favorites'. A filter bar includes fields for Name, Type, Status, Created On, Created By, and Changed On, each with a dropdown or input field. Below the filter bar, there's a table titled 'My Collaborations' with columns: Collaboration Name, Type, Created By, Created On, and Status. The table lists several collaborations, all with a status of 'Created'. Each row has a star icon for favorites and a right arrow for more options.

Collaboration Name	Type	Created By	Created On	Status
Test 23Aug23	DFLT			Created
EQN_Coll_1	DFLT			Created
Workflow Due Date Test1	DFLT			Created
2307 Custom Storage without expiry	NONV			Created
System_PPX_35fcd81e-df95-44af-ae46-113d2894506b	DFLT			Created
System_PPX_ead707e8-f1f6-4467-af54-3b1aacfca556	DFLT			Created
Collab test 21Aug23	DFLT			Created
System_PPX_74a239f6-800e-46f6-a5fa-ef90613506f1	DFLT			Created
System_PPX_39492359-84fb-4989-1763-616-8-113-28	DFLT			Created

[Link to documentation](#)



# Compatibility Packs for R&D

- CP ID – 439-441 – Product Data Foundation, Product Lifecycle Management
  - **Product Structure Management** replaces Product Designer Workbench, previously accessible via transaction PDN ([SAP Note: 2226431](#))
  - **Production versions** are used for Manufacturing BOM determination ([SAP Note: 2267880](#))
  - Use **DMS with SAP Document Center** instead of Easy DMS which is not available anymore ([SAP Note: 2267866](#))
  - Use HANA enabled enhanced functionality of **Enterprise Search**
  - **Classification** is renovated so that transactions may have changed functionality or may be completely removed ([SAP Note: 2213569](#))
  - **Use Change Record** for tracking, approving and facilitating (change management) purposes. The Engineering Change Record / Engineering Change Order functionality is not available anymore, and the PLM Web UI Engineering Record (ER) is part of the compatibility package (SAP Notes [2268043](#), [2267918](#))
- CP ID – 459-472 - Project Control
  - S4TWL - **Project System** - Compatibility Scope : <https://me.sap.com/notes/3265838/E>
- CP ID – 102 – Product Compliance
  - **New Product Compliance solution** replacing EHS Product Safety over time
  - S4TWL - Add-On: SAP Product and REACH Compliance (SPRC): <https://me.sap.com/notes/2267423>
  - You need to uninstall the add-on before you do a system conversion to SAP S/4HANA. Follow SAP Note [2298456](#) to perform the uninstallation.
- Detailed notes are accessible via the WayForward excel in <https://me.sap.com/notes/2269324>
- Complete list of simplifications see [here](#)

# Supply Chain





## SAP Cloud ERP Private differentiators

# SAP HANA and Embedded Analytics



## SAP HANA and Real-time Analytics

### Inventory

- Stock - Single Material
- Inventory Turnover Analysis
- Slow or Non-Moving Materials
- Overview Inventory Management
- Dead Stock Analysis
- Inventory Analysis Overview
- Inventory KPI Analysis
- Display Serial Numbers
- Display Inventory Analytics Job Results

### Adv Available to Promise

- Product Allocation Overview
- Monitor Product Allocation Periods
- Monitor Product Allocation Characteristic Value Combinations
- Monitor Product Allocation Order Items
- Monitor Allocation Object Changes
- Monitor Allocation Sequence Changes
- Monitor Allocation Value Combination Changes

### Adv Transportation Management

- Allocation Detail Analysis - Analytical List Page
- Business Share Detail Analysis - Analytical List Page
- Freight Booking Execution Detail Analysis - Analytical List Page
- Freight Booking Execution Status Detail Analysis - Analytical List Page
- Freight Booking Quantity Detail Analysis - Analytical List Page
- Freight Order Execution Detail Analysis - Analytical List Page
- Freight Order Execution Status Detail Analysis - Analytical List Page
- Freight Order Quantity Detail Analysis - Analytical List Page
- Tendering Detail Analysis - Analytical List Page
- Transportation Costs Detail Analysis - Analytical List Page
- Transportation Invoice Blocked Detail Analysis - Analytical List Page
- Analyze Delivery Performance - Shipped as Planned

### Warehouse Management

- Material Documents Overview
- Overdue Materials - Stock in Transit
- Overdue Materials - GR Blocked Stock
- Overview Inventory Processing

### Ext Warehouse Management

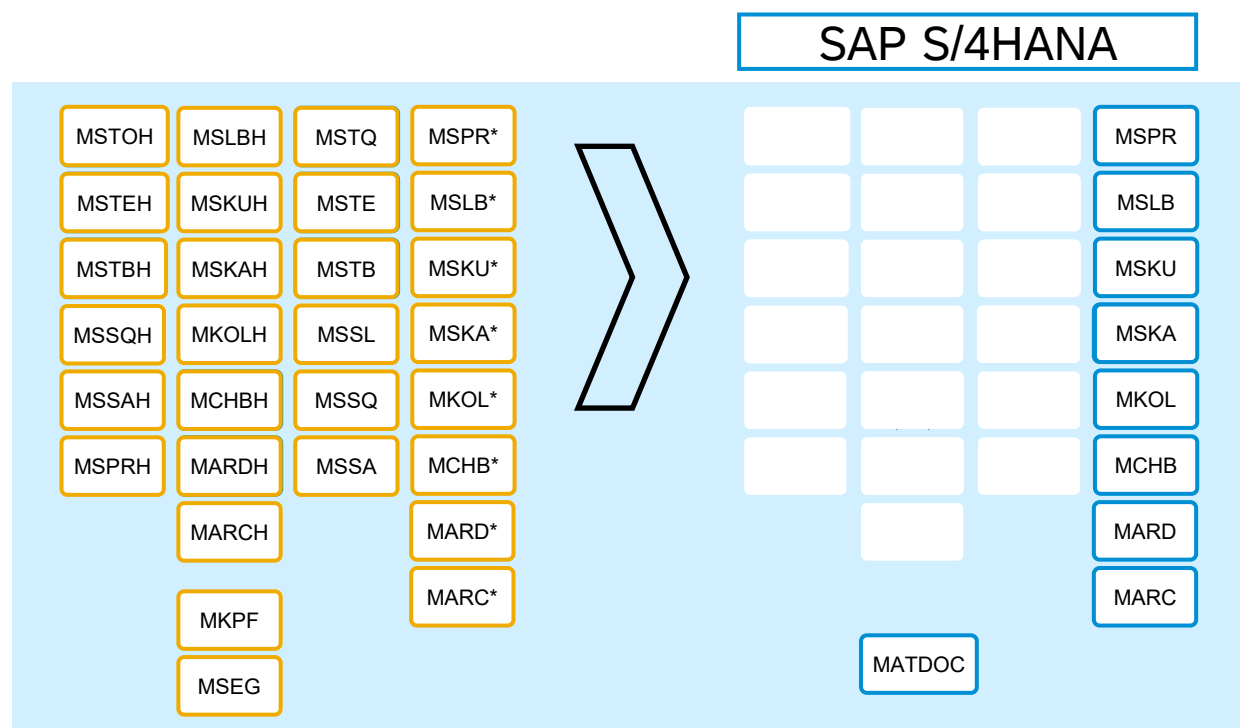
- Warehouse KPIs - Operations
- Warehouse Outbound Delivery Orders
- Analyzer Warehouse Order
- Analyze Warehouse Task

# SAP HANA and Real-time Analytics

## Inventory Management – Data Model changes

- Simplified inventory management data model
- High-volume backflush enablement with parallel posting possibilities
- No aggregates: actual stock quantity data will be calculated on-the-fly
- Fast reporting: full transactional access and most important analytical attributes are in MATDOC
- Compatibility CDS views for full compatibility with legacy code (customer, industries)

21 tables eliminated + stock aggregate columns in 8 tables\* eliminated



[Link to documentation – SAP Note 2206980](#)



## SAP Cloud ERP Private differentiators

# Data Products and Intelligent Applications




# Data products

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.

These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.

[Available data products](#)




Data Product

Inventory Management Configuration Data

Data Product Inventory Management Configuration Data

Version 1.0.1

ACTIVE




Data Product

Reservation Document

Data Product Reservation Document

Version 1.0.1

ACTIVE




Data Product

Physical Inventory Document

Data Product Physical Inventory Document

Version 1.0.1

ACTIVE




Data Product

Storage Location

Data Product Storage Location

Version 1.0.0

ACTIVE




Data Product

Shipping Point

Data Product Shipping Point

Version 1.0.2

ACTIVE



Data Product

Delivery Management Configuration Data

Data Product Delivery Management Configuration Data

Version 1.0.0

ACTIVE





# SAP Cloud ERP Private differentiators

**SAP Fiori**



# SAP Fiori

## Inventory Management



### Delightful UX

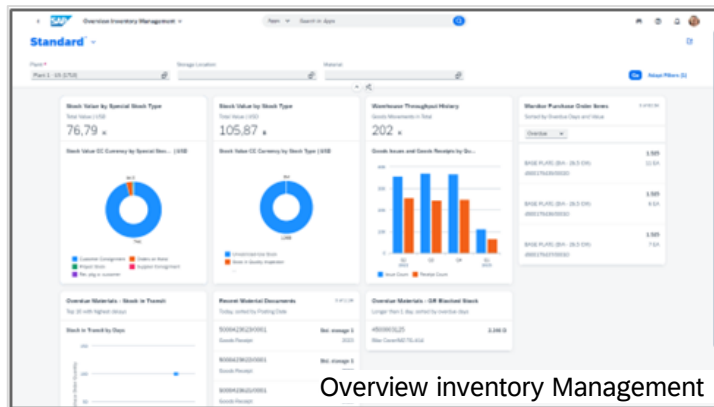
- **Role based views** providing transparency and simplified access to information
- **Overviews** available for giving insights on material documents, stock in transit, stock situation etc

### KPIs and Insights

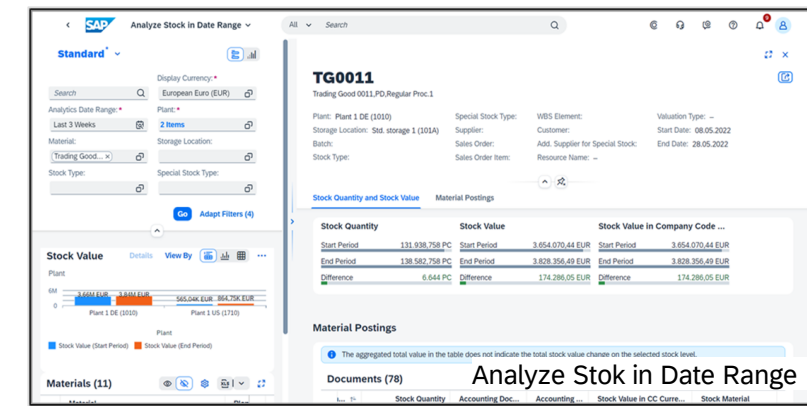
- **Clear structure and easy handling** of the goods movement, inventory, stock and physical inventory information
- **Analyze** and monitor goods movements, stock situations with real time responses

### Authorization & Process Support

- **Authorization** support ensuring relevant information is displayed for relevant users
- **Situation Handling capabilities**, which automatically informs users responsible about matters that require their attention



Overdue Materials – Stock in Transit



[Link to documentation](#)

## Delightful UX

- **Role based views** providing transparency and simplified access to information
- **Easy to access content incl** Overview of Warehouse Documents, Inbound Delivery, Outbound Delivery, Process Warehouse Tasks – Picking, Putaway, Internal tasks
- **Embedded relevant data**, e.g., with follow on navigation to relevant objects

## KPIs and Insights

- **Overview** of key performance indicators (**KPIs**) relevant to warehouse operations, for example, the total number of open warehouse tasks to be processed on the current date
- **Drill down** and navigation to relevant follow on reports and apps are enabled

## Authorization & Process Support

- Authorization support ensuring relevant information is displayed for relevant users
- **Easy navigation** to the relevant business objects to execute follow on processes



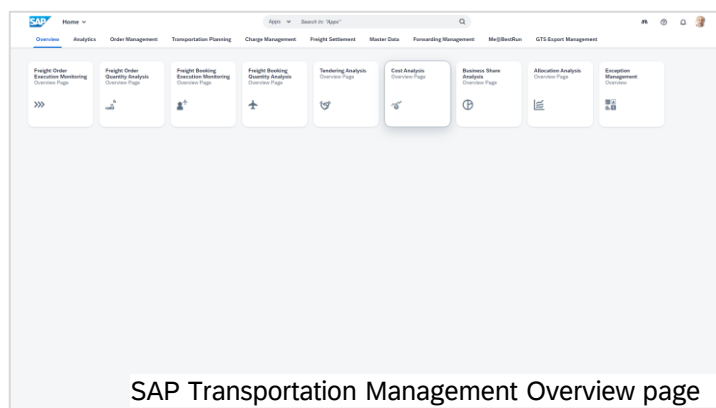


# SAP Fiori

## Transportation Management

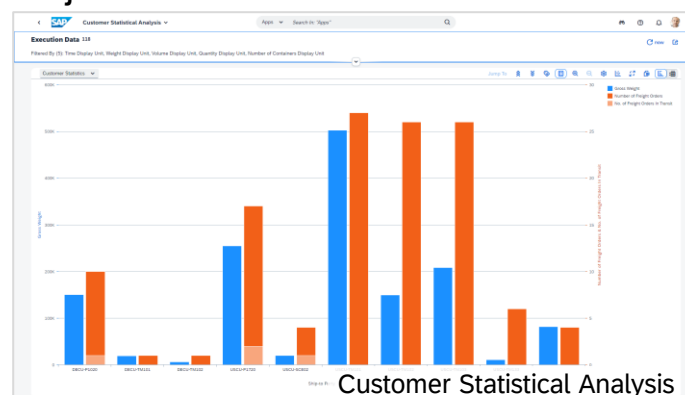
### Delightful UX

- **Role based** single point of access for all relevant multi-modal Transportation processes
- **Easier and intuitive user experience** to run freight management, transportation planning, transportation execution, order management, charge freight settlement and analytics



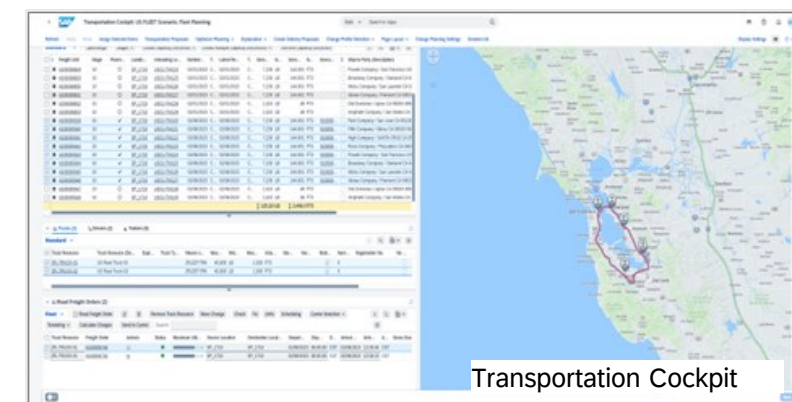
### KPIs and Insights

- **Overview pages with KPIs** to manage your operational business
- **Real-time insights & statistical analysis** on various dimensions incl Freight Order, Customers, Carriers
- **Flexible reporting and drill down** capabilities into relevant business objects



### Authorization & Process Support

- **Authorization** support ensuring relevant information is displayed for relevant users
- **Comprehensive** support for running the end-to-end transportation process from planning through execution to settlement with seamless integration to logistics processes



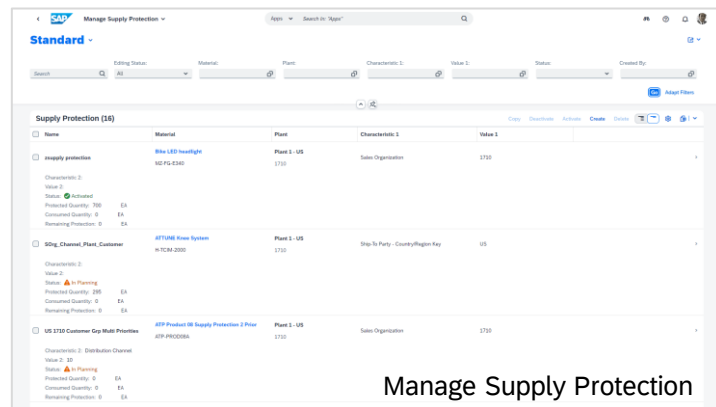


# SAP Fiori

## advanced Available to Promise

### Delightful UX

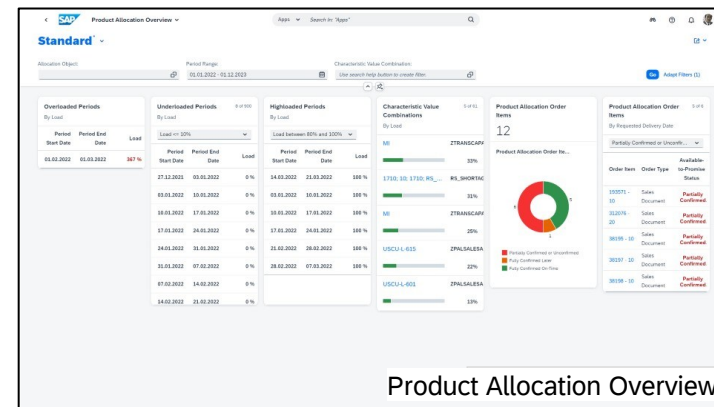
- **Role based views** providing transparency and simplified access to information
- **Easy to access content** incl Product Allocation Overview, Manage Supply Protection, Back Order Processing Run with ABC, **Embedded relevant data**, e.g., with follow on navigation to relevant objects like sales orders



Manage Supply Protection

### KPIs and Insights

- **Intuitive overviews** providing insights on order promising situation
- **Real time** confirmation dates to demand elements like customer orders or stock transport orders, considering current and future supply elements in real time

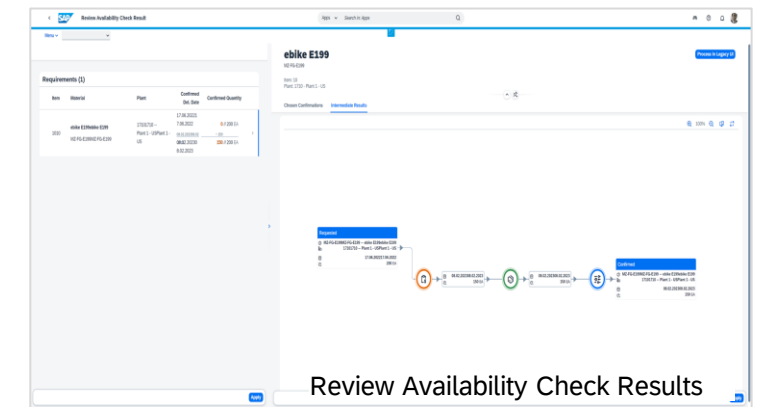


Product Allocation Overview

### Authorization & Process Support

With relevant authorizations, display availability situation of all line items of the sales order with delays and partial confirmation, if any

**Enable follow on processes e.g. to Modify delivery schedules** according to customer's wish during order creation/change



Review Availability Check Results




# SAP Cloud ERP Private differentiators

**Joule**



## Manage Outbound Deliveries

 Home ▾

☰

My Home

My Home

Purchasing Analytics ▾

Inventory Processing

Warehouse Processing

Inventory Management

Accounts Payable

To-Dos (111) ▾

Verify G/L Journal Entry 100105991 1710 2025

Medium Priority

Created By: SAP\_WFRT

Task created 2 wk. ago

Execute Task: Safety walk / ID: 96-2

Medium Priority

Created By: Robin Haas

Task created 2 wk. ago

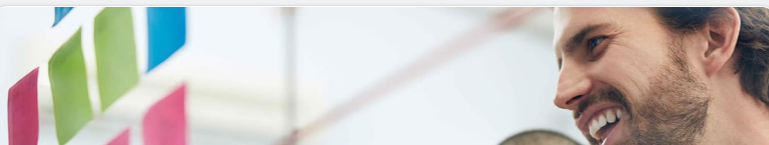
Approve Purchase Order 4500582029

Medium Priority

Created By: Adriano Baroni

Task created 4 wk. ago

News ▾



BestRun grocer commits to HFC Free Stores

BestRun grocer commits to HFC Free Stores

Pages ▾

Supplier Invoices

Accounts Payable - Procurement

Purchasing

Accounts Payable

Employee Self Services

Post GI for Deliveries

Today 11:46 AM

Post GI for Outbound Deliveries

Here're the outbound deliveries that don't have goods issue posted. To post goods issue, click **Post GI**.

Here's what I've found (view more details in the app):

Outbound Deliveries

6 of 15645

Filtered by Picking Status 'Not Relevant or Completely Picked (",C)', Goods Issue Status 'Not Yet Posted (A)'

Outbound Delivery 80001126

Shipping Point: 1710

Ship-to Party: BikeWorld Inc. (17100003)

Post GI

Message Joule...

Joule uses AI. Verify results.

PUBLIC

244



## SAP Cloud ERP Private differentiators

**SAP Business AI**





## Intelligent technologies

### Machine Learning: Slotting

- Derive slotting rules automatically from the warehouse setup and product master
- Leverage machine learning algorithm and generate a statistics-based model from representative input data
- Leverage the machine learning and determine the three indicators of storage concept, namely, Put away control indicator, Stock removal control indicator and Storage section indicator for the product
- Reduce the effort of initial setup, with lower implementation effort to derive slotting rules automatically from the warehouse setup and product master

[Link to documentation](#)

The screenshot displays the SAP Intelligent Scenario Management interface. The top section shows a list of Intelligent Scenarios (3) with columns for Package, Intelligent Scenario, Line of Business, Status, Intelligent Scenario Description, Scenario Type, and Created At. The scenarios listed are EWM\_MACHINE\_LEARNING, EWM\_PTWCYCTRL\_IND\_00, EWM\_STKRMVL\_IND\_00, and EWM\_STORSCTN\_IND\_00, all with a status of 'Published' and a line of business of 'Supply Chain'.

The bottom section shows a detailed view of a specific model, 'CL\_EWM\_ISLM\_PACI', which is a Classification model. It includes training filters and parameters. The training parameters are listed in a table:

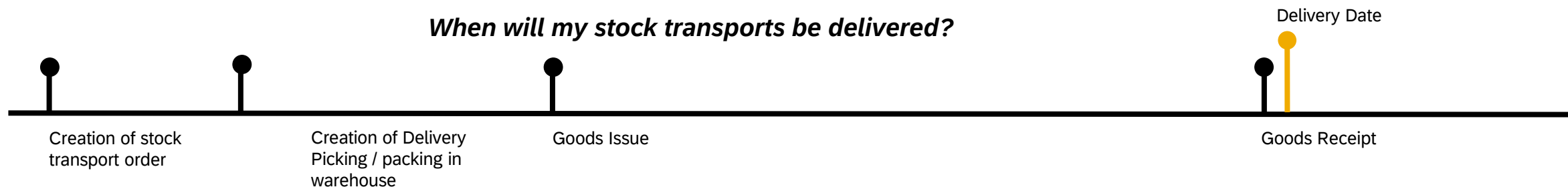
Name	Context	Value
PERCENTAGE		1
PARTITION_TRAINING_PERCENT		0.7
N_ESTIMATORS		100
MIN_SAMPLES_LEAF		1
SPLIT_THRESHOLD		1.00E-05
MAX_DEPTH		-1



## Intelligent technologies

### Machine Learning: Stock in Transit

*When will my stock transports be delivered?*



The image shows the 'Transfer Stock - Cross-Plant' dialog box in SAP S/4HANA. The dialog is used to transfer stock between plants. The 'Issuing Plant' is 'Plant 1 US (1710)' and the 'Receiving Plant' is 'Plant US20 (US20)'. The 'Issuing Storage Location' is 'Std. storage 1 (171)' and the 'Receiving Storage Location' is 'Std. storage 1 (US2)'. The 'Stock Type' is 'Unrestricted-Use Stock'. The 'Current Quantity' is '108,352.000 PC'. The 'Forecast Delivery Date' is '05/20/2018'. The 'Quantity' is '200.000'. The 'Post' button is highlighted.

The image shows the 'Overdue Materials - Stock in Transit' table in SAP S/4HANA. The table lists materials that are overdue for delivery. The columns include 'Shipping D...', 'Posting Date (PO)', 'Forecast Deliver...', 'Delivery Com...', 'Days in Transit', 'Purchase Order', 'Purchase Or...', 'Material', and 'Purchase Order Quantity'. The table is filtered by 'GI/GR Document Selection'.

Shipping D...	Posting Date (PO)	Forecast Deliver...	Delivery Com...	Days in Transit	Purchase Order	Purchase Or...	Material	Purchase Order Quantity
24.01.2023	24.01.2023	02.02.2023	No	2	4500464425	11	Men's Lightweight Slip-On Sneaker, 9 (MR585195003)	1.500 PAA
24.01.2023	24.01.2023	02.02.2023	No	2	4500464425	12	Men's Lightweight Slip-On Sneaker, 10 (MR585195005)	1.700 PAA
24.01.2023	24.01.2023	02.02.2023	No	2	4500464425	13	Men's Lightweight Slip-On Sneaker, 11 (MR585195007)	1.600 PAA
25.01.2023	25.01.2023	26.01.2023	No	1	4500464510	10	Men's Blend Long-Sleeve Polo Shirt (MR585197)	1.350 PC
25.01.2023	25.01.2023	25.01.2023	No	1	4500464510	11	Men's Blend Long-Sleeve Polo Sh, Red, XS (MR585197001)	750 PC
25.01.2023	25.01.2023	25.01.2023	No	1	4500464510	12	Men's Blend Long-Sleeve Polo S, Blue, XS (MR585197002)	600 PC

[Link to documentation](#)



## Intelligent technologies

### Generative AI - Conversational planning in the transportation cockpit

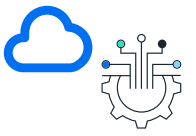
- Enhance efficiency in transportation planning by enabling the end user to carry out various planning operations in the transportation cockpit using natural language.
- Conversational planner enables planning of freight units on freight orders, trucks.
- Natural language can be used to plan trucks on freight orders
- Gain additional insights & save time by leveraging the AI based response on queries on various lists & hierarchies like freight unit, road freight order and truck resource lists

The screenshot displays the SAP Transportation Cockpit interface. At the top, the title bar reads "Transportation Cockpit: VS\_FHP\_CON, FHP\_COPL\_SAT\_...". Below the title bar, there are navigation tabs: "Refresh", "Undo", "Redo", "Update Map", "Assign Selected Items", "Optimizer Planning", "Change Profile Selection", "Change Planning Settings", and "Deselect All". A red box highlights the "Conversational Planning" section, which contains a text input field with the placeholder "add product quantities to the stages" and a "Submit" button.

Below the "Conversational Planning" section, there are three main panels:

- Freight Unit Stages (100):** This panel shows a table of freight units. The "Conversational Planning Response" column is highlighted with a red box. The table has columns: Freight Unit, Stage, Conversational Planning Response, Plan..., Exec..., Loading Location Descri..., and Unloading. The responses include quantities like "quantity=400 EA", "quantity=600 EA", "quantity=1000 EA", "quantity=200 EA", "quantity=300 EA", "quantity=606 EA", "quantity=200 EA", "quantity=625 EA", "quantity=700 EA", "quantity=600 EA", "quantity=1000 EA", "quantity=2666 EA", "quantity=1500 EA", "quantity=600 EA", "quantity=1000 EA", "quantity=2666 EA", "quantity=300 EA", "quantity=300 EA", "quantity=750 EA", and "quantity=700 EA".
- Map - Quick Add Mode (Selection Overruled per Object):** This panel shows a map of the world with various locations marked, including Quebec, Toronto, Atlanta, Las Palmas de Gran Canaria, Monrovia, Kinshasa, and Recife.
- Trucks (4):** This panel shows a table of truck resources. The table has columns: Truck Resource, Truck Resource (Description), Conversational Planning Resp..., Equipment Gr..., and Truck Ty. The responses include "Mercedes-Benz Actros Truck 10T", "Mercedes-Benz Actros Truck 10T", "Mercedes-Benz eSprinter Electr...", and "Volvo Sprinter Van 3T".

At the bottom, there is a section for "Road Freight Orders (0)" with a table showing "Actions", "Freight Order", "Conversational Planning Resp...", "Status", "M...", "Source Location", and "Des". The table is currently empty, showing "No data available".



# Intelligent technologies

## Creation of inbound cargo documents based on shipment and delivery documents

- Improve operational efficiency and saving valuable time by automating the checking of paper based documents by AI technology
- Expedite the process of unloading freight by significantly reducing manual checks at the gate
- Support for the document types of delivery notes and shipping documents
- Integration to unified package builder to support the building of packaging hierarchy for shipping documents
- Flag exceptions in freight orders by enabling clerks in the back office to focus on handling the exceptions incl item , quantity and header data mismatches
- Significant reduction in the hours spent on manual checks and waiting times for trucks

The screenshot displays two SAP S/4HANA screens. The top screen shows the 'Attachments' tab for a Consignment Order (45000538). The bottom screen shows the 'Items' tab for the same Consignment Order, displaying a detailed list of items and their packaging hierarchy.

Name	Description	Visibility Type	Attachment Type	URL	Component Size	Created By	Created On	Document Type
Inbound delivery document		Internal	Inbound		88.2 KB	VVI	13.09.202...	application/pdf

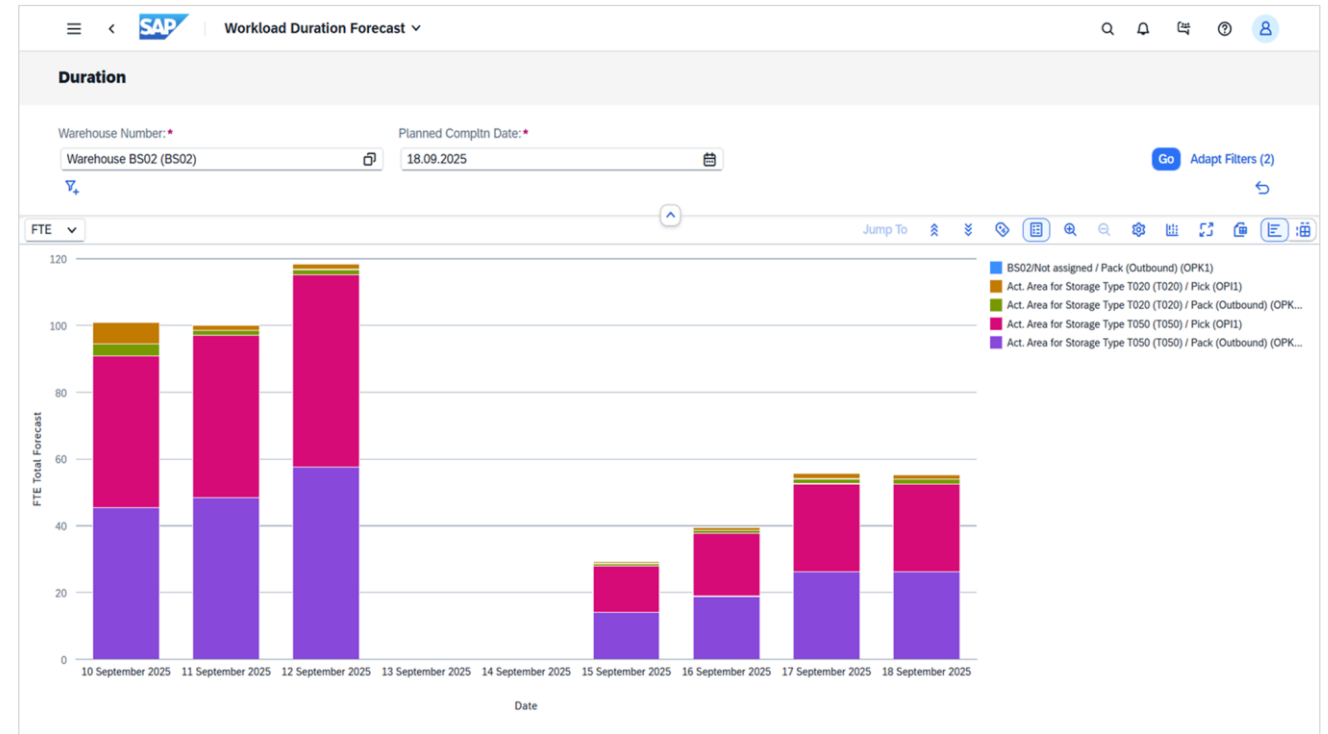
Item Hierarchy	External Delivery Number	Product	Quantity	External Package ID	Quantity Unit of Measure
Consignment Order			4		PAL
T42 Freight Unit 4100028774			2		PAL
Package 100 T42 Euro Pallet		T42_EURO_PALLET	1	PACK003	PAL
Package 90 Carton 1		T42_CSTO_1	1		CAR
Product 40 Brake	2024101499B	DOX_PROD_01	5		EA
Package 120 T42 Euro Pallet		T42_EURO_PALLET	1	PACK004	PAL
Package 110 Carton 1		T42_CSTO_1	1		CAR
Product 80 Brake	2024101499B	DOX_PROD_01	5		EA
T42 Freight Unit 4100028775			2		PAL
Package 140 T42 Euro Pallet		T42_EURO_PALLET	1	PACK001	PAL
Package 130 Carton 1		T42_CSTO_1	1		CAR
Product 10 Brake	2024101499A	DOX_PROD_01	5		EA
Package 160 T42 Euro Pallet		T42_EURO_PALLET	1	PACK002	PAL
Package 150 Carton 1		T42_CSTO_1	1		CAR
Product 70 Brake	2024101499A	DOX_PROD_01	5		EA



## Intelligent technologies

### Predictive Labor Demand planning

- Use machine learning algorithms to analyze the historical workload data, Labor Demand Planning provides accurate predictions for task durations, eliminating the need for extensive preprocessing or reliance on Engineered Labor Standards (ELS)
- Identify the operational bottlenecks inside of the warehouse
- Optimize labor allocation and reduce inefficiencies by predicting the time required for tasks such as picking, packing, and outbound deliveries.
- Save costs on warehouse labor and identify work efficiency improvements
- Monitor, analyze, and forecast labor demand using interactive charts and key performance indicators (KPIs)





## SAP Cloud ERP Private differentiators

**Situation Handling**



## Intelligent technologies Situation Management

Some examples:

[Multiple Matches Alert in Supply Protection](#)

[Stock Transport Order Overdue](#)

[Physical Inventory Monitoring](#)

[Handling Unit Situation](#)

Blog series Situations Handling

Situation templates

SAP Overdue Materials - Stock in Transit

Standard\*

3 filters active: GI/GR Document Selection, Purchase Order, Purchase Order Item

Shipping Duration	Posting Date (PO)	Forecast Delivery...	Delivery Comp...	Days in Transit	Purchase Order	Purchase Ord...	Material
	09/09/2025	09/28/2025	No	71	D 4520000110	10	SEMI203,D1 (S-203)
	09/10/2025	09/29/2025	No	70	D 4520000228	10	SEMI203,D1 (S-203)
	09/10/2025	09/29/2025	No	70	D 4520000239	10	Handelsware 11, PD
	09/10/2025	09/29/2025	No	70	D 4520000241	10	Handelsware 11, PD
	09/11/2025	09/30/2025	No	69	D 4520000288	10	SEMI203,D1 (S-203)
	09/12/2025	10/01/2025	No	68	D 4520000359	10	SEMI203,D1 (S-203)
					D 4520000412		

By Date By Type By Priority

**Stock transport order is overdue**

Overdue Stock Transport Orders: 78 owned by purchasing order 4520000110, 4520000228, 4520000239,...

12 minutes ago [Show More](#)

**Stock transport order is overdue**

Overdue Stock Transport Orders: 77 owned by purchasing order 4520000110, 4520000228, 4520000239,...

1 day ago [Show More](#)

**Stock transport order is overdue**

Overdue Stock Transport Orders: 76 owned by purchasing order 4520000110, 4520000228, 4520000239,...

2 days ago [Show More](#)

**Stock transport order is overdue**

Overdue Stock Transport Orders: 73 owned by purchasing order 4520000110, 4520000228, 4520000239,...

4 days ago [Show More](#)

**Stock transport order is overdue**

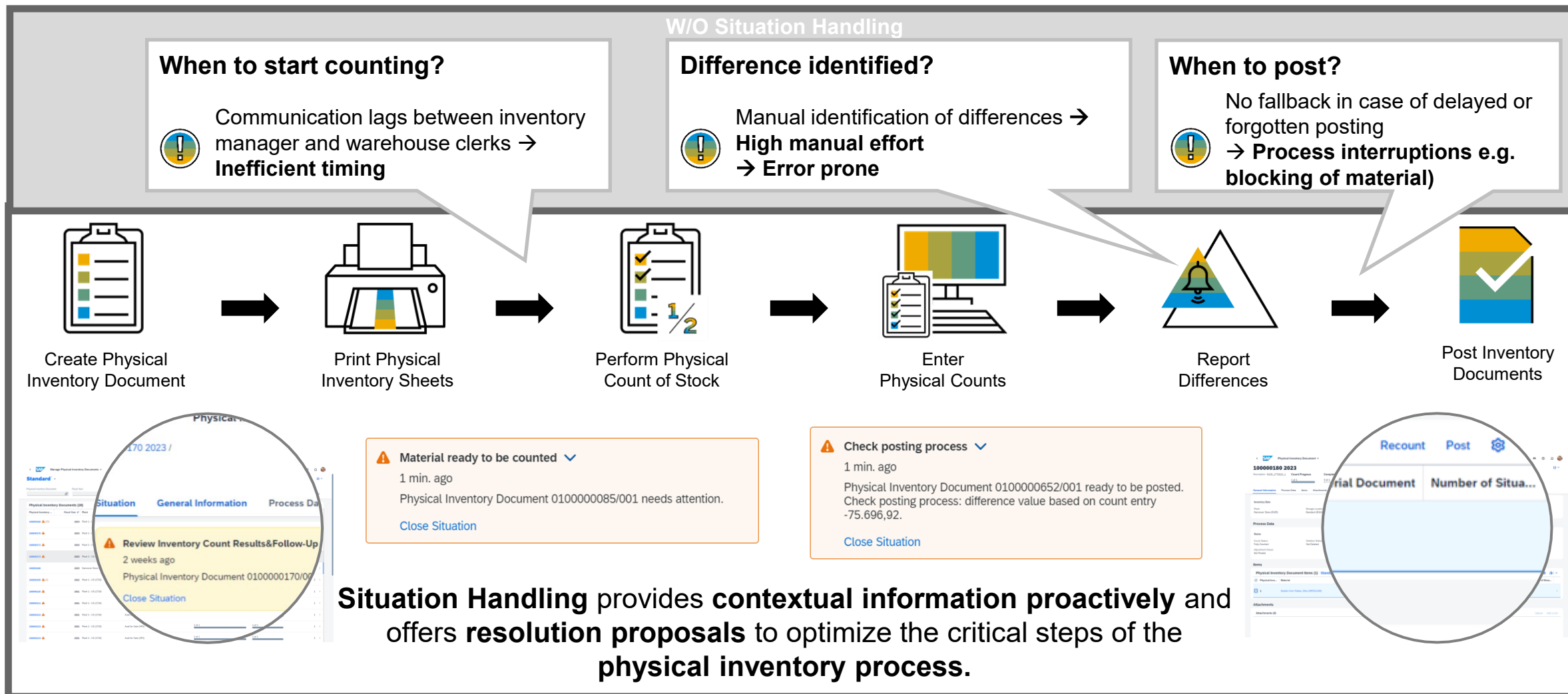
Overdue Stock Transport Orders: 73 owned by purchasing order 4520000110, 4520000228, 4520000239,...

5 days ago [Show More](#)



## Intelligent technologies

### Situation Handling: Physical Inventory



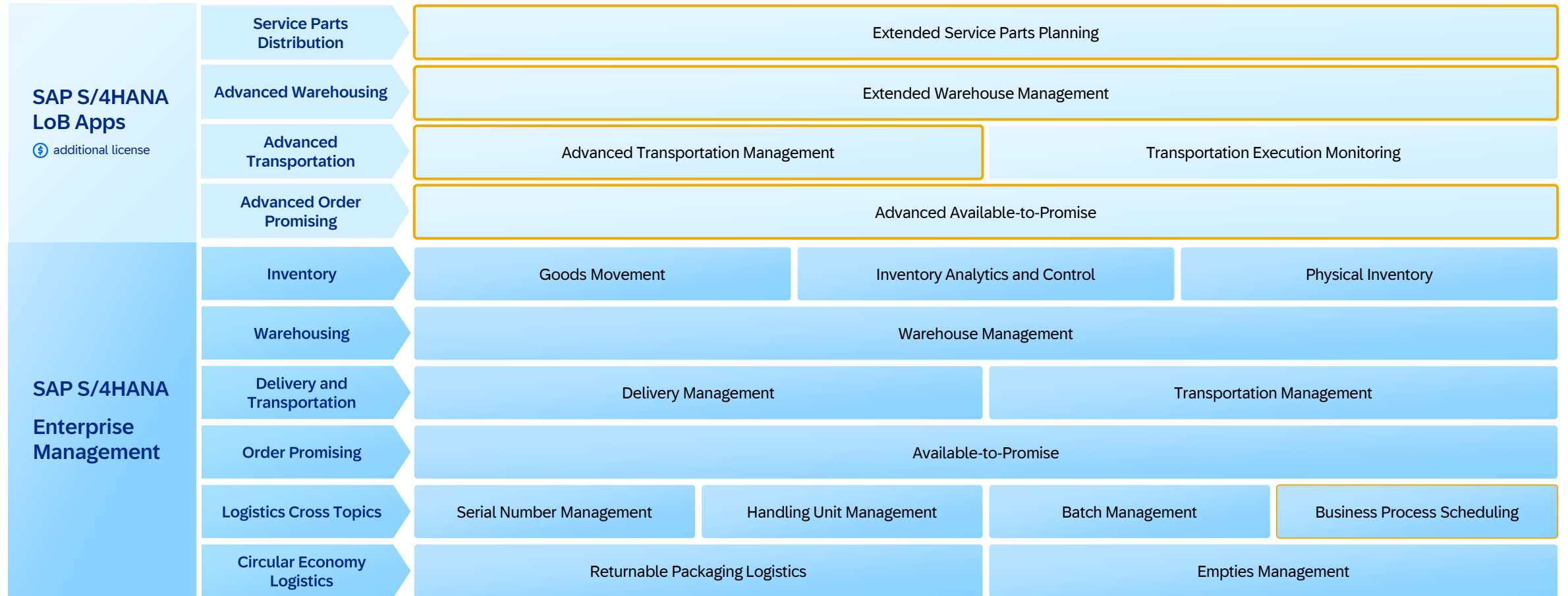
[Link to documentation](#)





## New Business Processes

### Business Area and Business Capability Overview



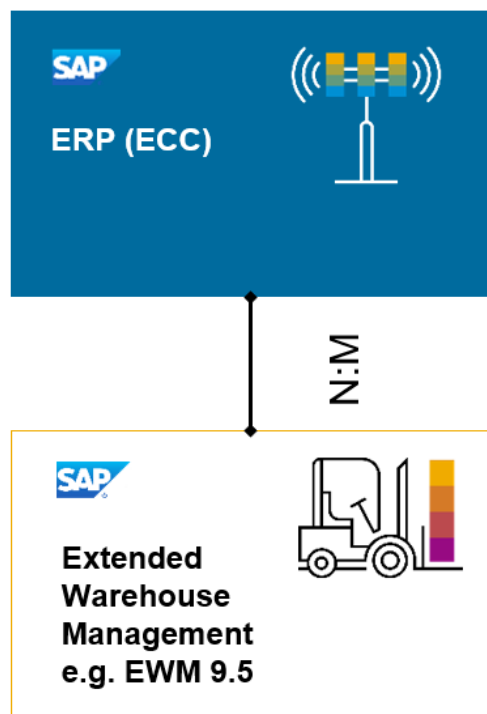
New business capabilities in SAP S/4HANA



## New Business Processes and Functionalities

### Extended Warehouse Management

SINCE 2006



SAP EWM connected to  
SAP ECC

SINCE 2015



SAP EWM connected to  
SAP S/4HANA

SINCE 2016



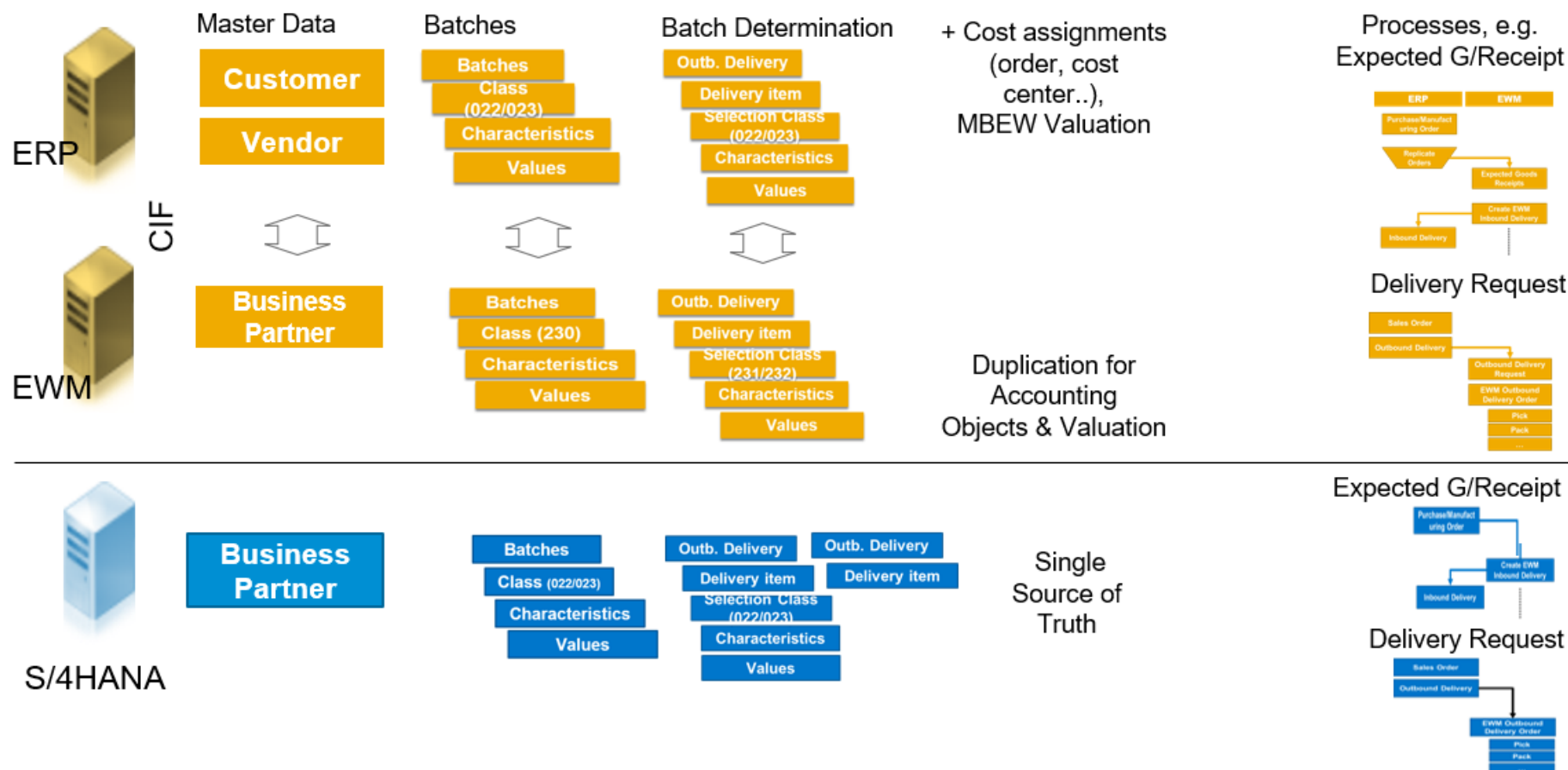
EWM embedded in  
SAP S/4HANA



## New Business Processes and Functionalities

### Extended Warehouse Management

- Simplified data & processes
- Customers wanting to leverage SAP S/4HANA Extended Warehouse Management in a extra stack scenario can alternatively also use the EWM solution *side-by-side*



[Link to documentation](#)



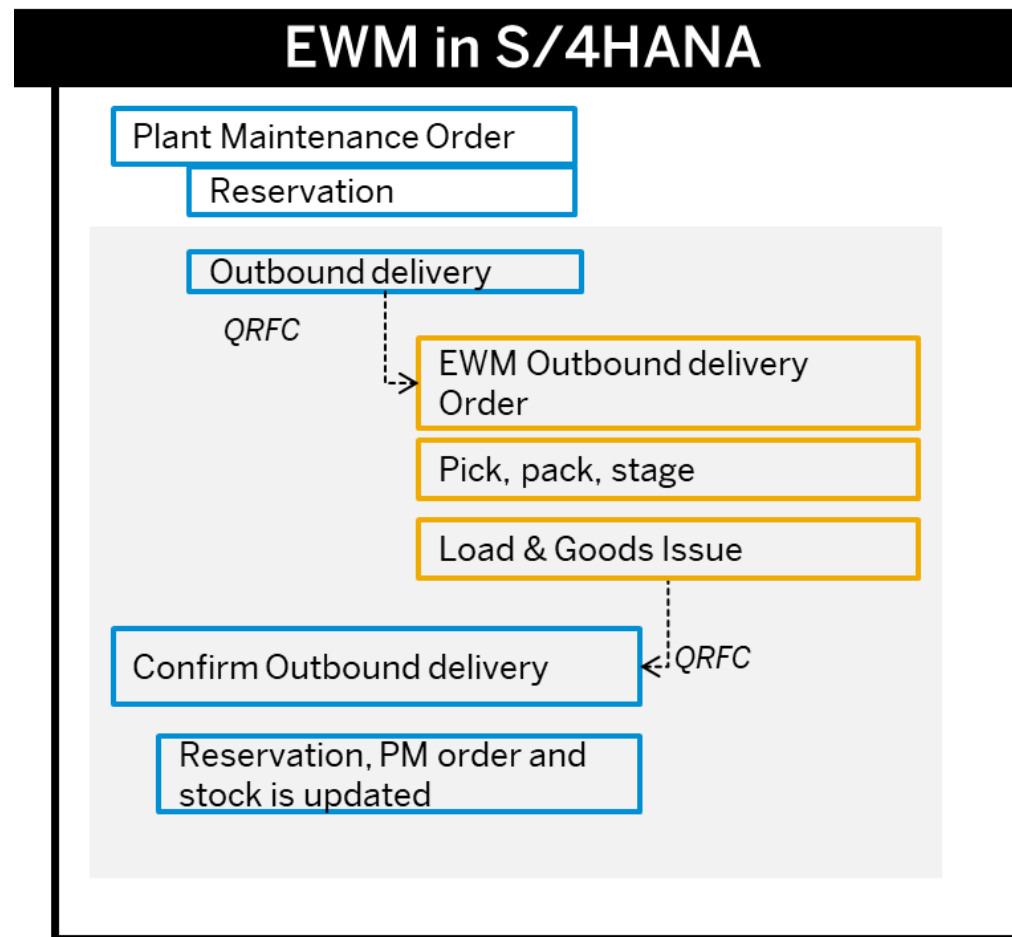
## New Business Processes and Functionalities

### Extended Warehouse Management

#### Plant Maintenance Integration

- New plant specific “Recipient Location” in PM orders
- Seamless integration between warehouse management and Plant maintenance operations
- Synchronous updates of stock in inventory management and in warehouse management
- Replication of recipient location master data to EWM via report
- Staging Area Determination based on recipient location
- EWM Outbound Delivery Orders Contain PM Information (PM Order, Reservation, PM Order Operation, Cross-Docking Identification)
- Post Unplanned Goods Issues with Reference to Plant Maintenance Orders

[Link to documentation](#)





# New Business Processes and Functionalities

## Extended Warehouse Management

Tightly integrate manufacturing with warehouse execution

### Staging & consumption

- Production/Process order in EWM
- EWM controls material flow
- Work Center / RF / MES
- Posts consumption in EWM

SAP Consumption by Production - Manufacturing Order 100496...

Switch to Reversal Related Links

Handling Unit: 800156

Product for Consum... : EWM-A41B Description: Production Part - SFG-001 - BM

Batch: 0000000535 Restricted Use:

Shelf Life Expiration ... : 06.07.2025 Operation or Activity: 0010 1

Consumption Mode: ☐ Consumption Quantity ☒ Remaining Quantity

Quantity to Consume: 1 EA

Quantity that Rem... : 1 EA

Valuation Quantity Serial Number/URI

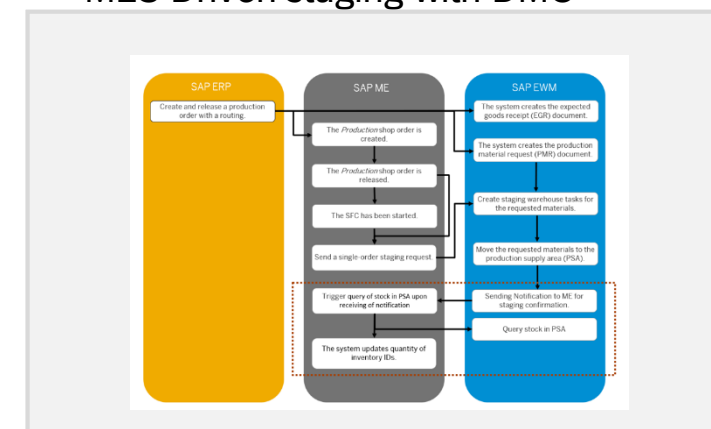
### Receipt of finished / semi finished goods from production

- API for receipt from external system
- Warehouse executes production staging, issues and receipts
- Performance



### MES integration

- Good Receipt & Goods issue in EWM with SAP MII interface
- Good receipt posing using CTC wizards with SAP ME integration
- Integration for staging and confirmation
- MES Driven staging with DMC



Improve inventory visibility and control as material movements are posted in real time in the warehouse

[Link to documentation](#)

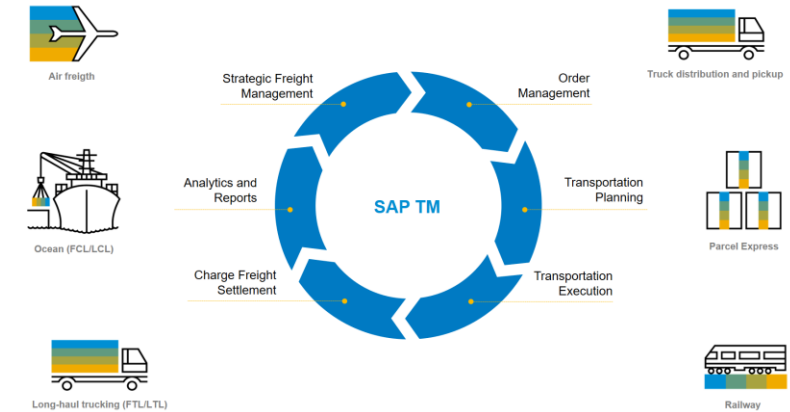


## New Business Processes and Functionalities

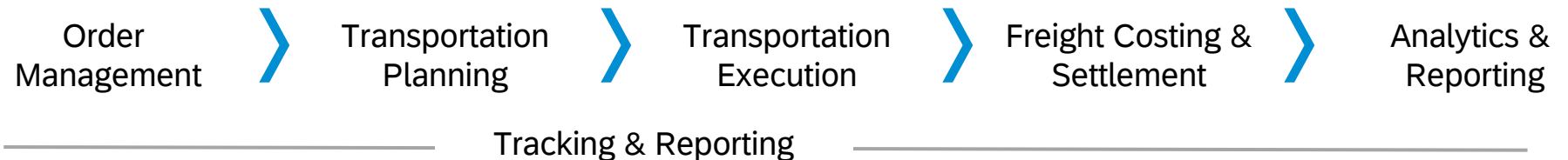
### Advanced Transportation Management

Transportation Management is now embedded in SAP S/4HANA

- Provide user interface within SAP S/4HANA
- Harmonize concepts for business partner, location and product master data
- Working with real-time embedded analytics
- Provide system and process integration in SAP S/4HANA Enterprise Management



## SAP S/4HANA Transportation Management



[Link to documentation](#)



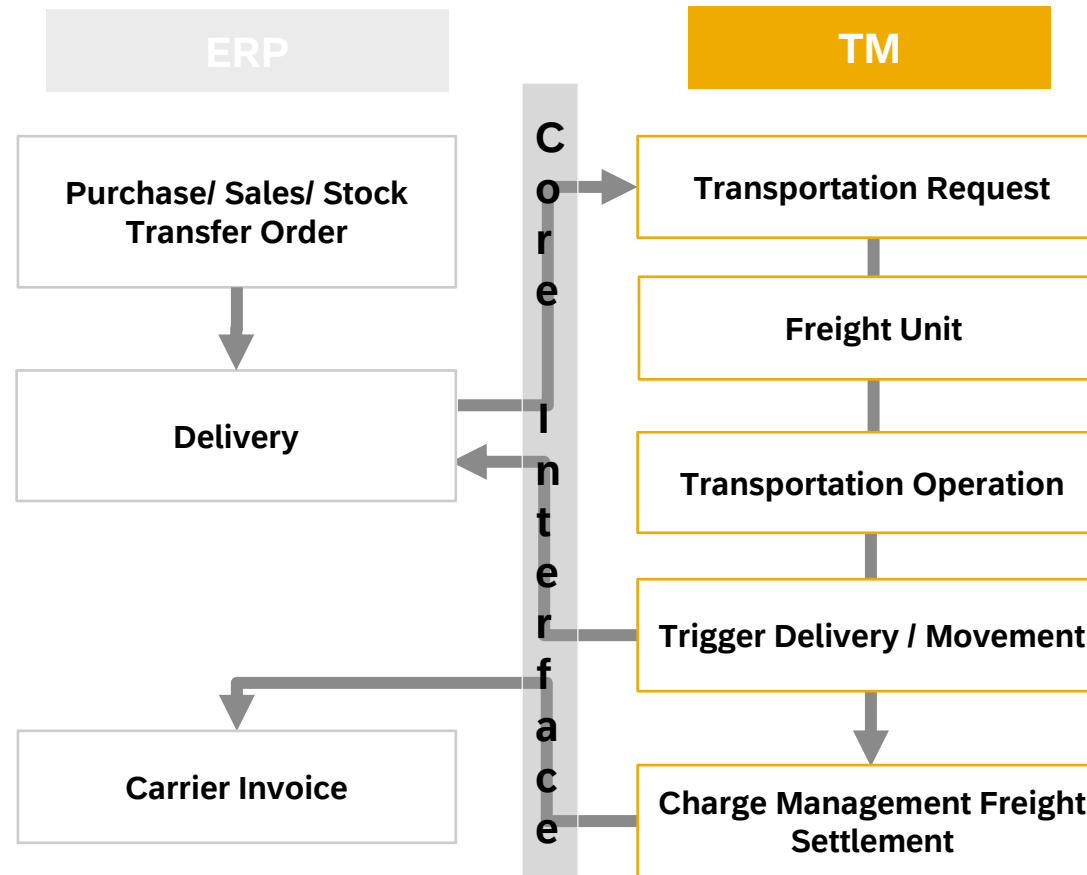
## New Business Processes and Functionalities

### Advanced Transportation Management

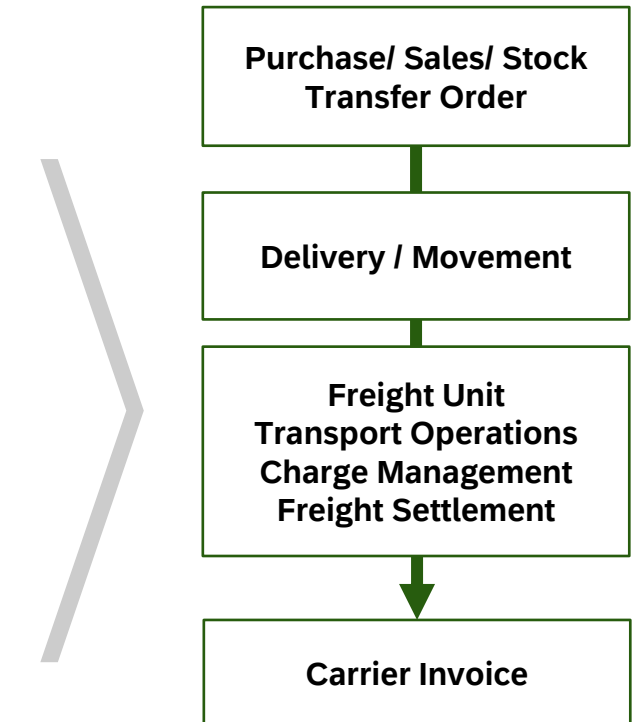
- With **Transportation Management** embedded in SAP S/4HANA, companies can avoid costly data replication, extensive customization & interface maintenance, multiple UI support and additional hardware
- Customers wanting to leverage SAP Transportation Management in a hub scenario can alternatively also use the Transportation Management solution *side-by-side*

[Link to documentation](#)

PUBLIC



### TM in SAP S/4HANA



Less documents, less process steps , lower TCO

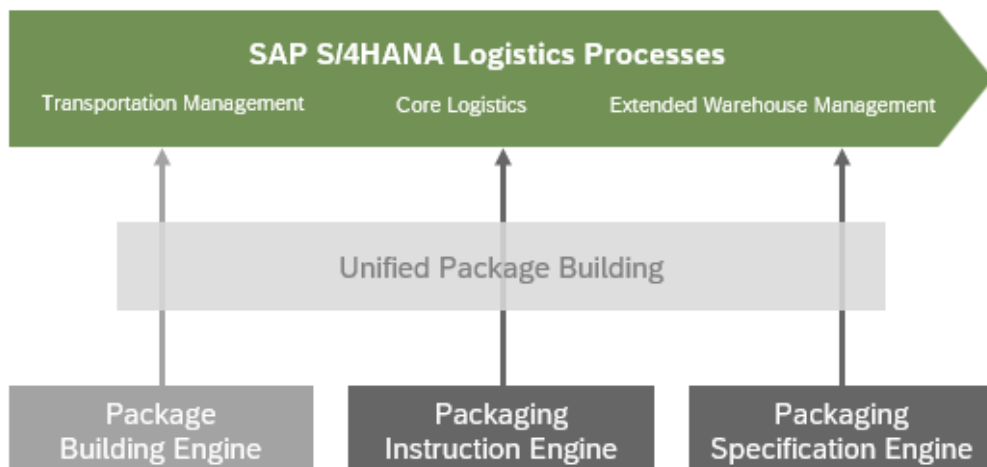


# New Business Processes and Functionalities

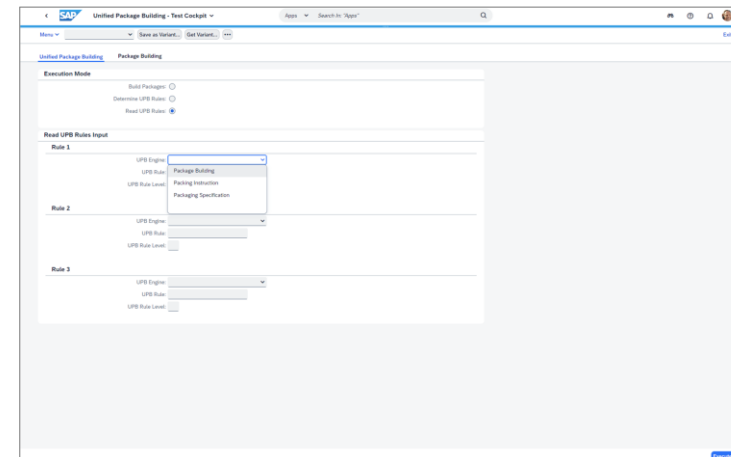
## Advanced Transportation Management | Extended Warehouse Management

### Unified Package Builder

- Build packages according to different available **packaging master data and engines**
- Use existing packaging settings **more flexibly** in a broader range of business processes
- Leverage the **optimization capabilities** of Package Builder Optimizer in additional scenarios
- Create related **business documents** on the fly via Unified Package Builder



[Link to documentation](#)



### Processes consuming Unified Packaging Building

#### SAP S/4HANA Transportation Management

- Freight unit creation for e.g sales orders/forwarding orders, based on capacity documents

#### SAP S/4HANA Extended Warehouse Management

- Packing in outbound delivery process/ posting change/stock transfer, RF receiving from production, deconsolidation and repacking in inbound deliveries

#### SAP S/4HANA Logistics General

- Packing in deliveries - outbound/inbound, discrete/repetitive manufacturing, handling units from stock



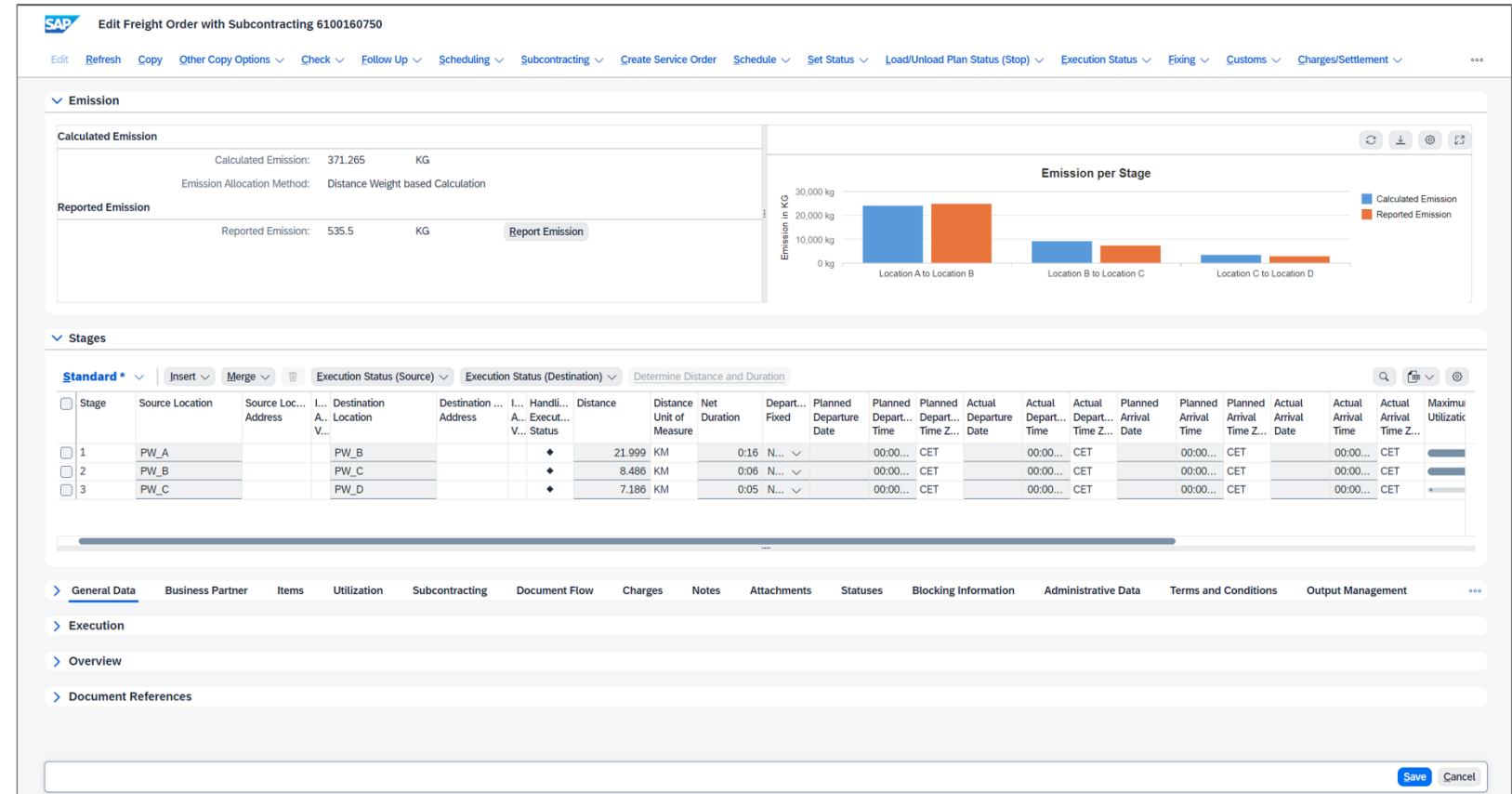


## New Business Processes and Functionalities

### Advanced Transportation Management

#### Greenhouse gas emissions

- Enhanced support for sustainability through enabling of greenhouse gas calculations
- Emission parameters can be set based on vehicle types
- Emissions for road freight orders are calculated during manual planning and automated vehicle scheduling and resourcing.
- Intuitive reporting through freight orders and cockpit



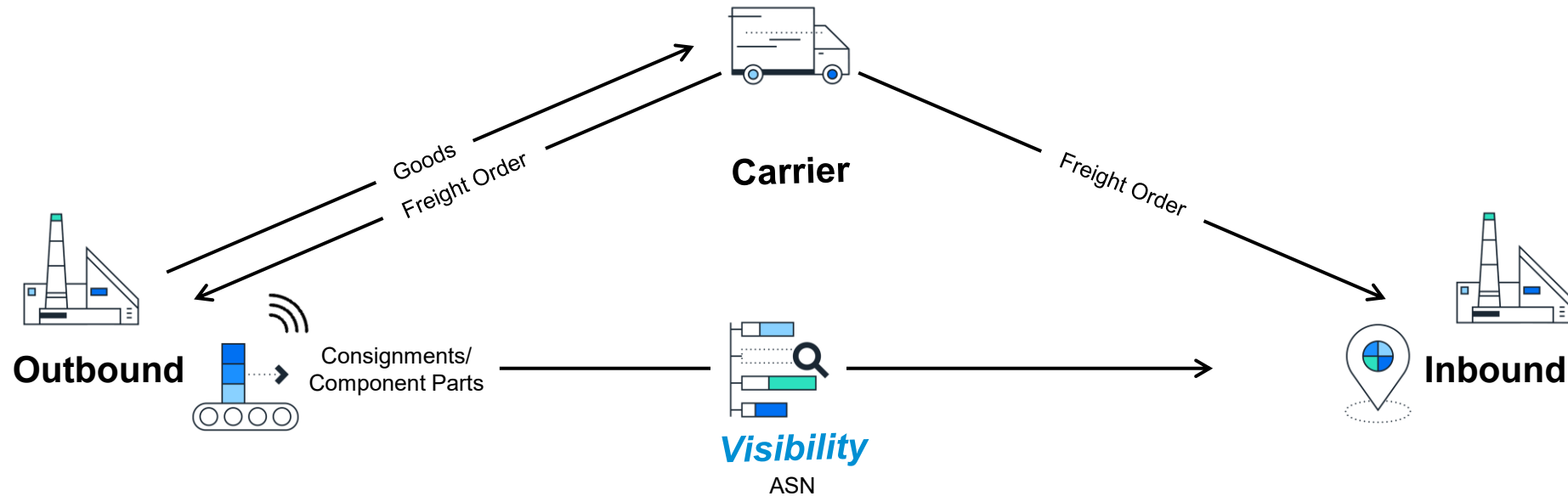



## New Business Processes and Functionalities

### Advanced Transportation Management

#### Advanced Shipping and Receiving

Harmonized processes in Outbound and Inbound for better visibility and efficient execution



 Seamless **integration** between companies

 **Simplified** processes

 Increased business **productivity**

 **Functional enhancements**

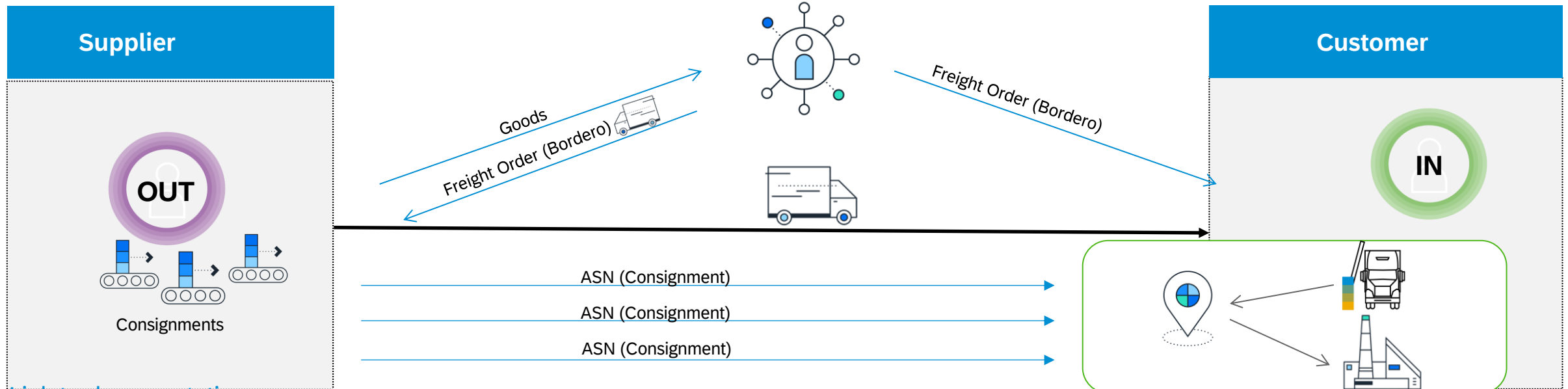


## New Business Processes and Functionalities

### Advanced Transportation Management

#### Advanced Shipping and Receiving

- New logistic execution in SAP S/4HANA on harmonized objects
- **Harmonized** Shipping and Receiving
- Better alignment with **industry standards** e.g. EDIFACT
- Support of **new functions** (e.g. multi pick/multi drop)
- Enablement of **new scenarios** (Modular Logistics)



[Link to documentation](#)

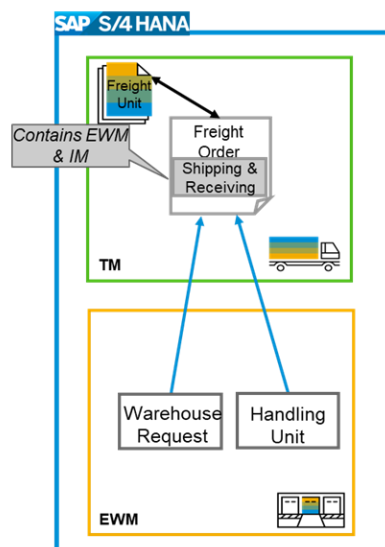


# New Business Processes and Functionalities

## Advanced Transportation Management

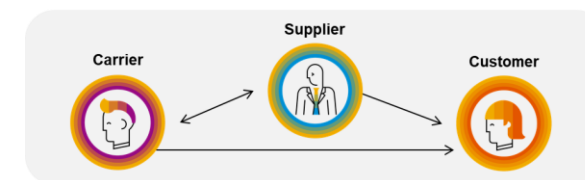
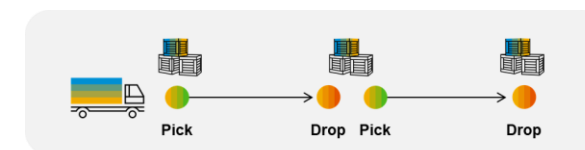
### Advanced Shipping and Receiving

New Solution (one system)



The screenshot shows the SAP Display Prof Road Freight Order 6100007051. The table below represents the data visible in the screenshot.

Item	SP	Eq	Equipment Group (Description)	Loading Location	Unloading Location	Unloading Location	FCU or TU	Requirement	Item Description	Closed Pack...
1	Active Vehicle (S-PT) 61000000			SP_1716	USCU-TM133 (L.B. Fa.)	USCU-TM133				
2	Freight Unit (Prod) 61000000			SP_1716	USCU-TM133 (L.B. Fa.)	USCU-TM133		4100000000		
3	Product 10 TM Packaged Product			SP_1716	USCU-TM133 (L.B. Fa.)	USCU-TM133		4100000000	TM Packaged Product	



### General strategy

- Reduced redundancy in business objects
- New integration without TUs
- Integration approach for basic EWM and basic TM

[Link to documentation](#)

### Inbound & Outbound

- New execution UI for freight orders
- Warehouse view of a Freight Order
- Extend & strengthen logic for creation and update of deliveries (especially transfer of package information), incl. GR/GI
- Support mixed and multi warehouse scenarios within one Freight Order location stop with regards to materials management (IM managed, EWM managed)

### New Features and Processes

- Support for inbound/outbound, STO and planned customer returns processes
- Multi pick multi drop
- Cross warehouse loading/unloading
- Integration with business partners



# New Business Processes and Functionalities

## Advanced Transportation Management

### Advanced Shipping and Receiving

#### Cross delivery handling unit

- Optimize transportation loads by increased consolidation of shipping items
- Consolidation of deliveries into a single handling unit helps to reduce transportation and handling costs
- Enables creation of handling units like cartons or pallets for items from two or more outbound deliveries
- Create HUs for items in different outbound deliveries and communicate the packaging information to Transportation Management (TM) where this is displayed as package item in the freight unit.
- Support for warehouse driven and transport driven scenarios of transport planning

SAP Edit T42 FO basic (nosubc/nochrg/nosett) 6100001806

Edit Refresh Copy Other Copy Options Check Follow Up Scheduling Subcontracting Create Service Order Schedule

General Data Business Partner Items Overview Stages Utilization Subcontracting Drivers Document Flow

Standard \* Change Hierarchy: Overview - Shipping Insert Load Plan Status Unload Plan Status Exec

Details	Activity	Maxim... Utiliza...	Document	Load Plan Status	Unload Plan Status	Handling Execution Status
Active Vehicle T42_MTR_DL 1000000		0%	6100001806			
SP_T42A (TM Receiving Point WDF / Dietmar-Hopp-Allee 16 / ...)		0%	SP_T42A	◆		◆
WH Loading Stop T42_LP_WDF_GAT2 / W042 / DO02 (Loa...	↗	0%	T42_LP_WDF_GAT2			◆
TM42 FU Type 0 4100002956	↗		4100002956			◆
Package 30 T42 Euro Pallet 800000091	↗					◆
Warehouse Outbound Delivery Order 310000004302	↗	0%	310000004302			
Warehouse Outbound Delivery Order 310000004303	↗	0%	310000004303			
T42_BP_STI (BP St. Ingbert / Neue Bahnhofstraße 21 / 66386...		0%	T42_BP_STI		◆	◆
TM42 FU Type 0 4100002956	↘		4100002956			
Package 30 T42 Euro Pallet 800000091	↘					
Warehouse Outbound Delivery Order 310000004302	↘	0%	310000004302			
Warehouse Outbound Delivery Order 310000004303	↘	0%	310000004303			



# New Business Processes and Functionalities

## Advanced Transportation Management

### Advanced Shipping and Receiving

#### Intracompany Stock Transport Orders

- Intracompany Stock transport order (STO) is supported for Advance Shipping and Receiving processes
- Simplification of process – posting of goods issue triggers the creation of an inbound delivery and the automatic reassignment of the freight units (FUs) from the outbound to the inbound delivery
- Inbound delivery of the receiving warehouse is reassigned to the same Freight Unit which is connected to the outbound delivery
- Support for both EWM- or LE-managed warehouses or storage locations.

SAP Edit TM42 FO (nosubc/nochrg/nosett) 6100017552

Edit Refresh Copy Other Copy Options Check Follow Up Scheduling Subcontracting Create Service Order Schedule Set Status Load/Unload Plan Status (Stop) Execution Status Fixing

General Data Business Partner Items Overview Stages Utilization Subcontracting Drivers Document Flow Charges Execution Notes Attachments Statuses

Standard Display

Document Hierarchy	Business Document T...	Business Document	Business Document Li...	Created By	Created On	Changed By	Changed On	Business Partn
TM42 FO (nosubc/nochrg/nosett) 6100017552	TM42 FO (nosubc/no...	6100017552	In Process		14.03.2025 11:57:23...		14.03.2025 12:02:50...	Carrier T42_C...
Predecessor Business Documents								
TM42 Cons. Order basic 7000016718	TM42 Cons. Order b...	7000016718	In Process		14.03.2025 11:57:01...		14.03.2025 12:02:50...	
T42 Freight Unit 4100036418	T42 Freight Unit	4100036418	In Process		14.03.2025 11:56:32...		14.03.2025 12:02:50...	
Inbound Delivery 180011505	Inbound Delivery	180011505			14.03.2025 00:00:00...			
Warehouse Outbound Delivery Ord...	Warehouse Outbound...	310000033326			14.03.2025 00:00:00...			
Outbound Delivery 80011499	Outbound Delivery	80011499			14.03.2025 00:00:00...			
Stock Transport Order 450001...	Stock Transport Order	4500015522			14.03.2025 00:00:00...			

Change Documents

Search View Hierarchical View

User: Data Access Definition: BO Node Name: Field Name:

From Date: 14.03.2025 System Time Zone (CET)

To Date: 31.12.9999 System Time Zone (CET)

Apply Clear

Standard Switch to Preferred Time Zone

Chan...	Node Description	ID	Change Indicator	Description	New Value	Old Value	Changed By	Chang...	Cha...	Tim...	Transaction Co
No data available											

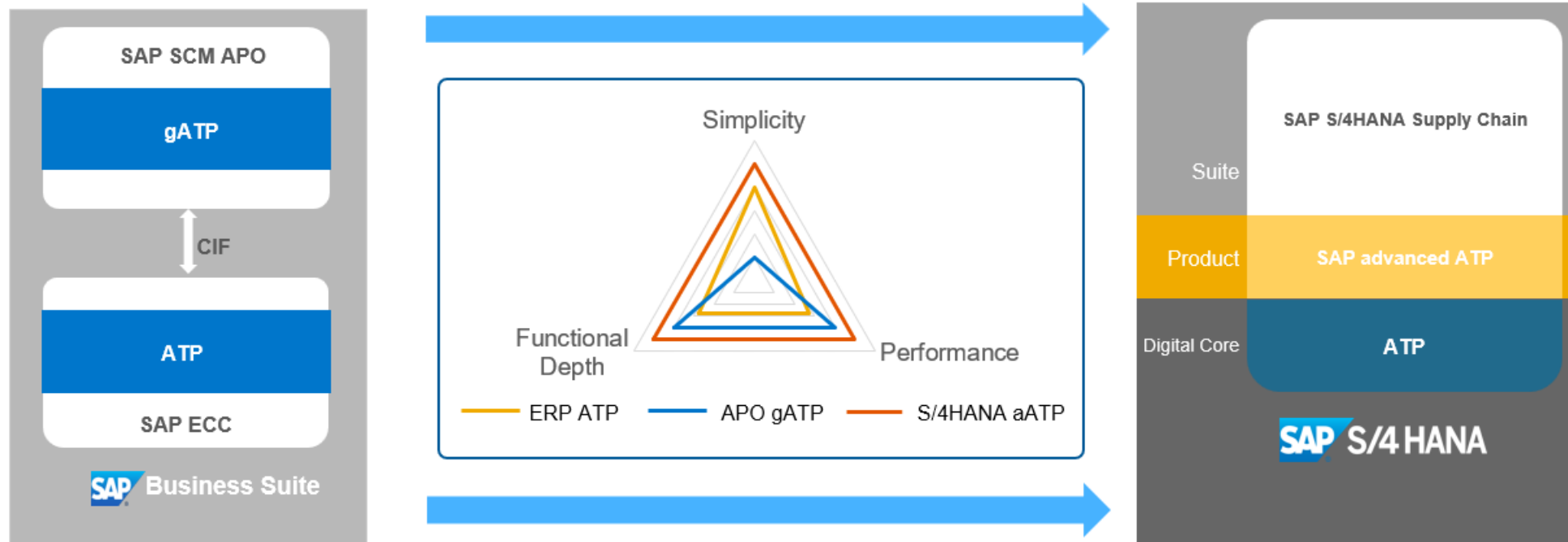
Save Cancel



## New Business Processes and Functionalities

### Advanced Available to Promise

- SAP S/4HANA advanced ATP is completely new codeline and developed **natively in SAP S/4HANA**
- There are no technical migrations available from APO gATP to SAP S/4HANA aATP
- In SAP S/4HANA, ATP in digital core is same as the SAP ERP ATP



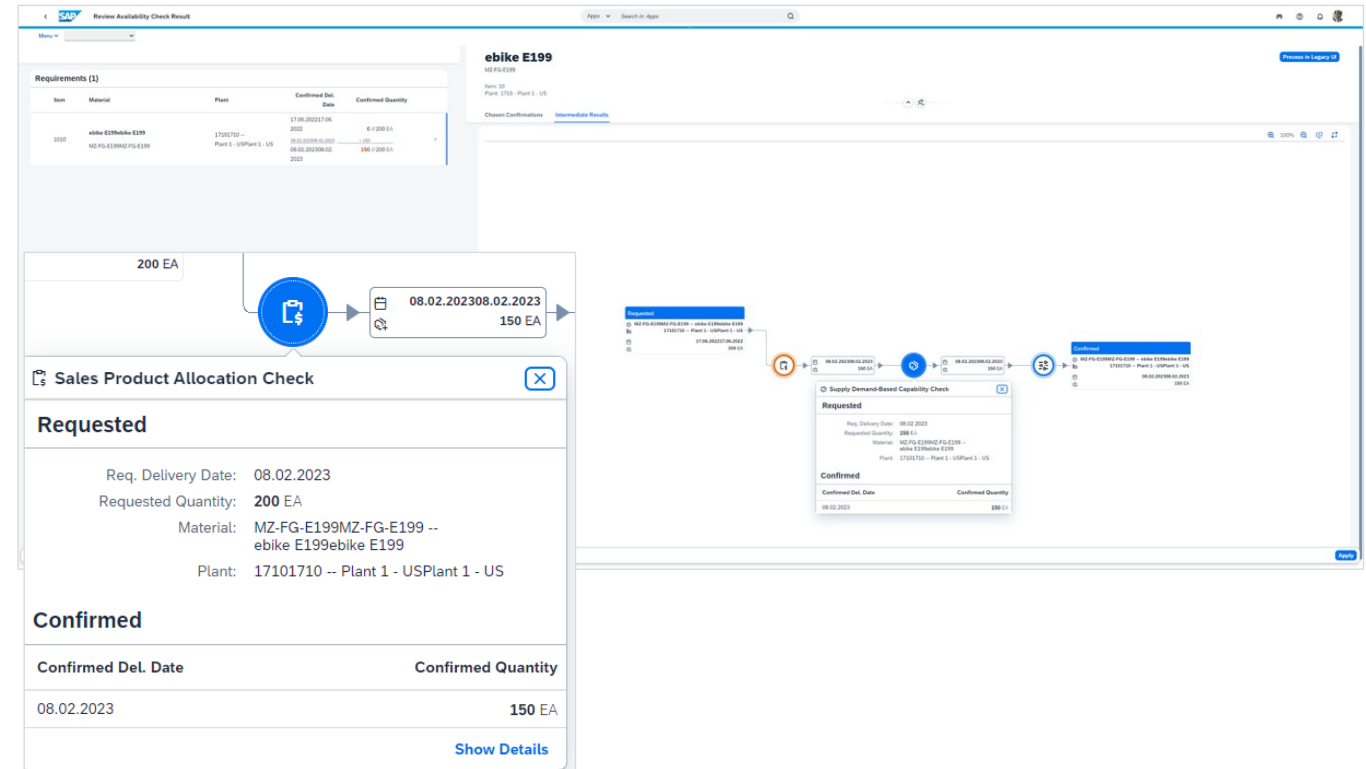


# New Business Processes and Functionalities

## Advanced Available to Promise

### Confirm orders in real-time

- Real time order confirmation considering present and future supplies
- 'Review Availability Check Results' display availability situation of all line items of the sales order with delays and partial confirmation, if any
- Modify delivery schedules according to customer's wish during order creation/change
- Checks for storage locations, batches and segmentation during availability check
- Consideration of delivery groups, quantity distribution and replenishment lead time
- APIs provide product availability info to external system



[Link to documentation](#)



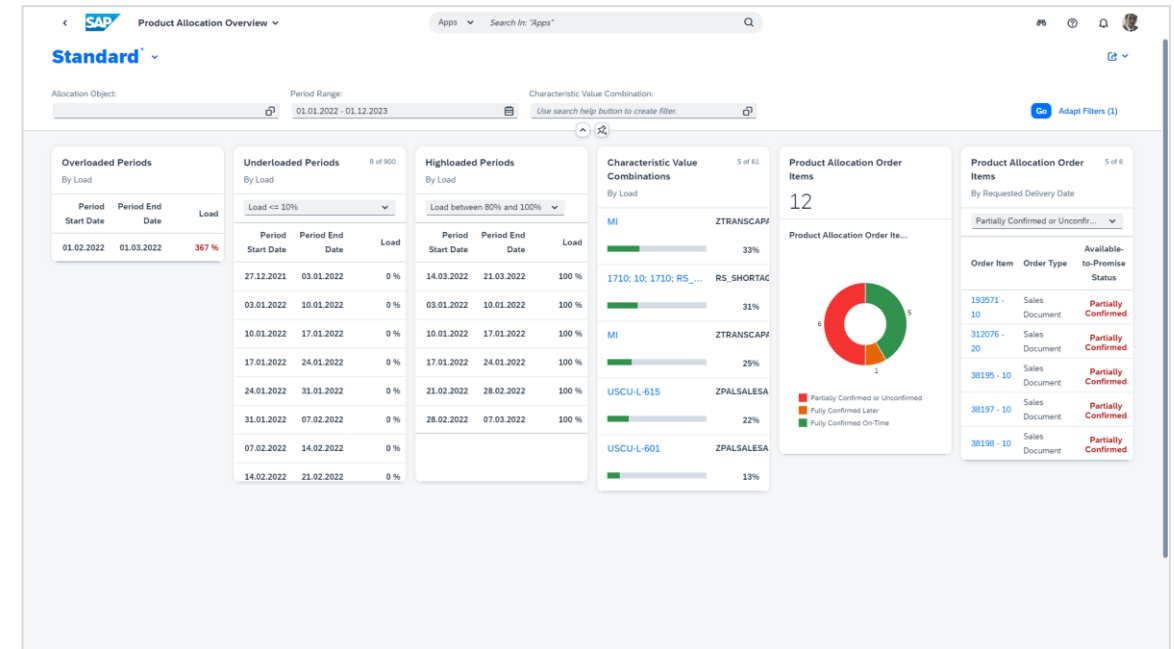


## New Business Processes and Functionalities

Advanced Available to Promise

### Product allocation overview

- Prevent few customers from buying the entire available quantity, leaving other customers high and dry
- Allocate quantities to customers, regions, sales orgs, etc in fair quantity according to optimal demand and supply plan
- Confirm orders against future production capacity
- Consider transportation and other delivery constraints while confirming orders



[Link to documentation](#)



## New Business Processes and Functionalities

### Advanced Available to Promise

#### Alternative Based Selection - Intelligent selection of alternatives

- Easy to configure alternative control and substitution strategy
- Support of both product and location (plant/ storage location) substitution
- Flexible modelling of substitution master data
- Decision to trigger ABC during sales order creation or change
- Dynamic selection of alternative: best fit (*vs first fit*) according to configurable alternative rules
- Consideration of all ATP constraints during alternative selection
- Partial confirmations from multiple sources, with tie-breaker logic for equally placed alternatives

SAP Access Apps Search In: "Apps" Q

**ABC Combination Migrated from Alternative Control**

SAP\_ABC\_COMBINATION

Sequence Number Catalog Type Status Created By: Bill Welch (WELCH) Changed By: Jones Davidson (JONESD)  
1 Base (Sales Document) Active Created On: 22.04.2019, 17:14:06 Last Changed On: 03.11.2023, 13:27:27

Assigned Strategies

Characteristic Value Combinations (17) Clear Filters Search Q

Material Number	Sales Organization	Status	Execute ABC	Substitution Strategy
MZ-FG-E471	1710	Active	Yes	ZABCASAIANSENARIO1
MZ-FG-E470	1710	Active	Yes	ZABCASAIANSENARIO2
ATP-PROD06A	1710	Active	Yes	US_BW_LOCSUB_FULL (US LS Full Cnf - Welch)
ATP-PROD06B	1710	Active	Yes	US_BW_LOCSUB_OT (US LS On-Time Cnf - Welch)
ATP-PROD06	1710	Active	Yes	US_BW_LOCSUB_MAX (US LS Max Cnf - Welch)
TG0013	1710	Active	Yes	ZABC (Confirmation strategy for ABC)
MZ-FG-E472	1710	Active	Yes	ZABCASAIANSENARIO3
ATP-PROD03C	1710	Active	Yes	US_BW_LOCSUB_MAX (US LS Max Cnf - Welch)
ATP-PROD06T	1710	Active	Yes	US_BW_LOCSUB_MAX (US LS Max Cnf - Welch)
H-TCIM-2000	1710	Active	Yes	RS_SHORTAGE_001 (Shortage)

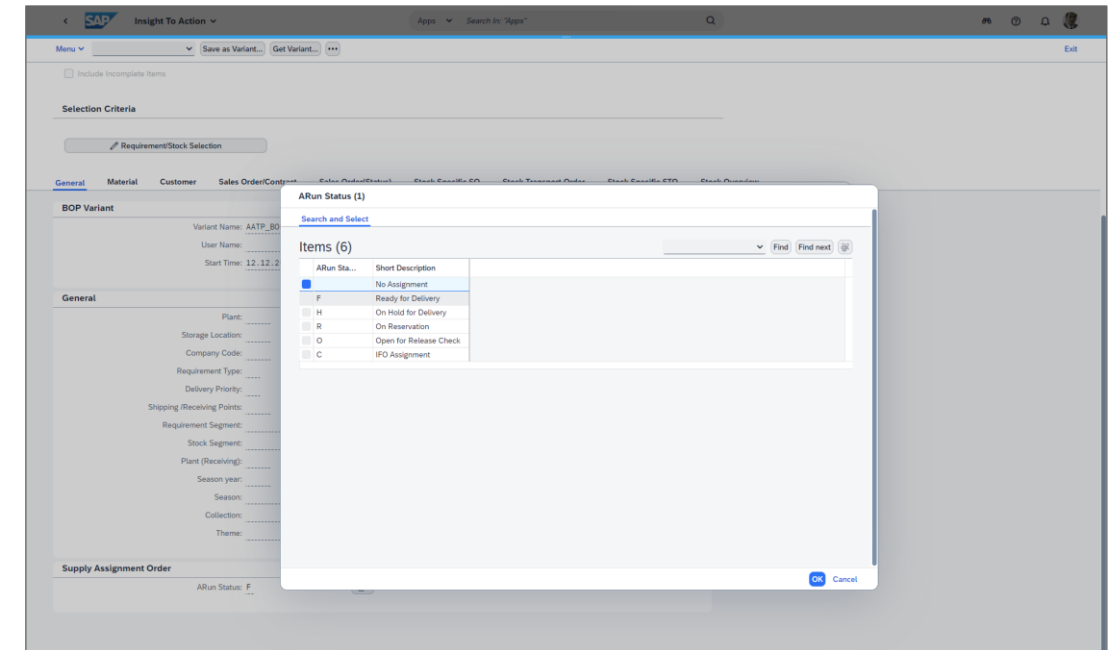


## New Business Processes and Functionalities

### Advanced Available to Promise

#### Supply Assignment Run

- Perform Supply Assignment Run for relevant materials in Backorder Processing (BOP) using all core functionalities of BOP Configuration, BOP Run and BOP monitor
- Flexibility to consider future supplies within a specified horizon, rules to sort supplies, and option to retain or delete previous assignments
- Proportional Distribution for Fair-Share distribution of stocks
- **Insight to Action** tool to evaluate the assignment situation and to enable the user to take manual actions like create/change existing assignments, create outbound deliveries
- In **Supply Assignment Overview** Apps do flexible and detailed analysis of supply and demand situation for different dimensions and KPIs, in both graphical and tabular formats



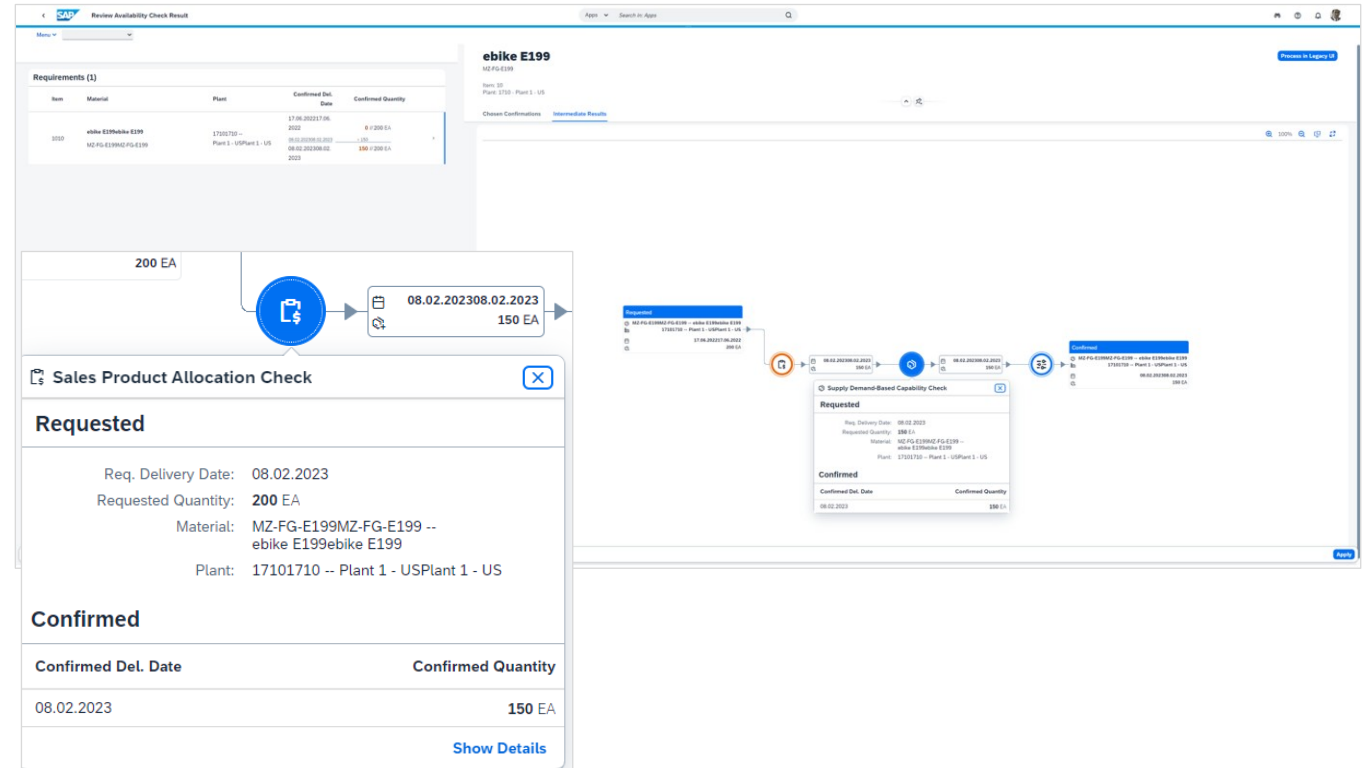


## New Business Processes and Functionalities

### Advanced Available to Promise

#### Review Availability Check Results

- Review availability check results with an intuitive SAP Fiori User Interface
- Understand in detail how the system calculates a confirmation
- Visualize the path from a request to a confirmation result in a network graph, before applying a confirmation result
- Navigate into further consumption and confirmation details in the case of Product Allocations
- Select from a set of calculated alternatives in case of Alternative Based Confirmation



[Link to documentation](#)

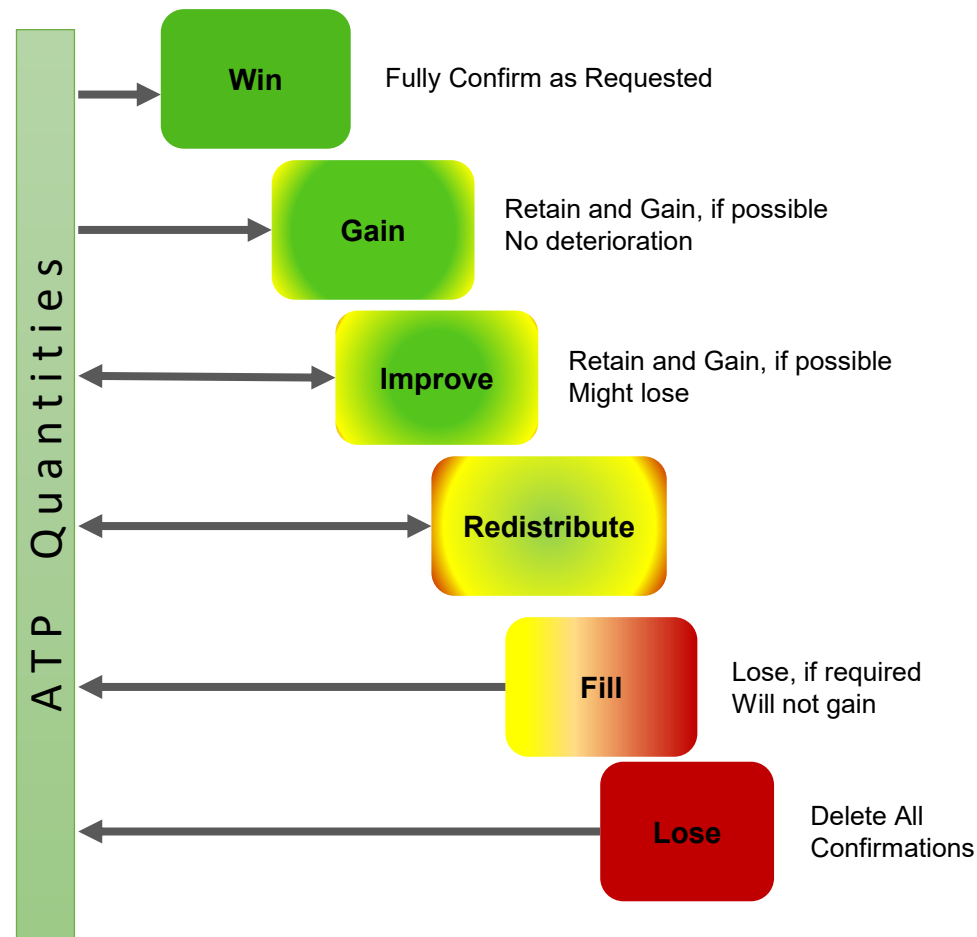


## New Business Processes and Functionalities

### Advanced Available to Promise

#### Backorder processing

- Backorder Processing provides the framework to confirm orders en masse, grouped by requirement segments and sorted by business priorities, considering all ATP constraints
- Confirm orders in a batch job according to order priorities and NOT necessarily based on the usual First-Come-First-Served principle
- Segment stocks that needs to be confirmed according to business rules ahead of others
- Retain committed confirmation as much as possible





# New Business Processes and Functionalities

## Advanced Available to Promise

### Interactive Backorder processing

- Manual or semi-automated adjustments to order confirmations within ATP limits to optimize fulfillment
- Orchestrate the confirmed dates and quantities of existing demand elements namely Sales Orders and Stock transport orders, while considering the constraints given by the basic ATP-methods, Product Availability Check - PAC, Supply Protection-SUP and Product Allocation-PAL
- Enable Backorder Processing Confirmations Strategies - Redistribute , Lose , Improve
- An interactive UI to load the requirements incl existing BOP segments & excel upload and perform mass processing of confirmations
- Additional enhancements to allow to consciously (manually) ignore constraints and override the ATP-check result in iBOP and enable customers to address last-minute shortages

SAP

Manage Confirmations for Backorders

Apps

Search In: "Apps"

VV

Search

Editing Status:

All

Requirement:

Material:

Hydration Multiplier Ele... x

Plant:

Requested Delivery Date:

Go

Adapt Filters (2)

Confirmation changes made in the requirements are updated only after the worklist is published.

Requested Schedule Lines (6)

Standard

All

Unpublished Changes

Improve

Redistribute

Lose

Add to Worklist

Remove from Worklist

<input type="checkbox"/>	Pr...	Requirement/Item	Schedule Line	Material	Plant	Recipient	Requested Deliver...	Order Quantity	Requested Q...	Conf	Improve	Ending Qua...	Change in Qu...	Change in Date	
<input checked="" type="checkbox"/>		1159482/20	1	Hydration Multiplier Electrolyte Mix (...)	Plant KANI (KN01)	Hydration Heroes UK Pvt. ...	27.01.2025	500 EA	500 EA			0 EA			<div></div> >
<input type="checkbox"/>		1159483/20	1	Hydration Multiplier Electrolyte Mix (...)	Plant KANI (KN01)	PureSoul Hydration Retail...	29.01.2025	500 EA	500 EA			0 EA			<div></div> >
<input checked="" type="checkbox"/>		1159480/20	1	Hydration Multiplier Electrolyte Mix (...)	Plant KANI (KN01)	Packaging International U...	03.02.2025	2.000 EA	2.000 EA			1.000 EA			<div></div> >
<input type="checkbox"/>		1159481/20	1	Hydration Multiplier Electrolyte Mix (...)	Plant KANI (KN01)	Renk PACKAGING LIMITE...	03.02.2025	2.000 EA	2.000 EA			0 EA			<div></div> >
<input type="checkbox"/>		1159480/40	1	Hydration Multiplier Electrolyte Mix (...)	Plant KANI (KN01)	Packaging International U...	03.03.2025	2.000 EA	2.000 EA			1.000 EA			<div></div> >
<input type="checkbox"/>		1159481/40	1	Hydration Multiplier Electrolyte Mix (...)	Plant KANI (KN01)	Renk PACKAGING LIMITE...	03.03.2025	2.000 EA	2.000 EA			0 EA			<div></div> >

[Link to documentation](#)



# New Business Processes and Functionalities

## Advanced Available to Promise

### Location consolidation with automated stock transport document creation

- Simplified logistical processes by triggering the automatic creation of transport orders to move stock from substitute plants or storage locations to the plant or storage location originally requested in the sales order
- Configure substitution strategies to automatically create stock transport orders to move requested quantity from a substitute plant or storage location to the originally requested plant or storage location.
- Consolidation of goods is required for e.g. for shipment, declaration, and letter-of-credit purposes
- Reduce manual effort for the creation of stock-transport requisitions Increase accuracy in calculation of delivery dates, thereby increasing customer satisfaction & helping to maintain legal compliance in export processes

[Link to documentation](#)

The screenshot displays the SAP 'Availability Overview' interface for material 'FH\_DEMO\_ABC\_CMSL\_SUBST\_002'. It shows a 'Totals display' with Receipts and Issues at 1.000, and Confirmed Issues at 1.000. Below this is a table for 'ATP situation' with columns for Date, MRP element, Stock Segment, MRP element data, Rec./reqd. qty, Confirmed, and Cum. ATP qty. The table lists several records for dates from 01.09.2025 to 23.07.2025, including 'Totals record' and specific MRP elements.

Overlaid on the bottom right is the 'Substitution Strategy' configuration window for 'FH\_CONSOLIDATION\_SIMPLE'. It shows the 'Advanced Configuration' tab with several toggle switches: 'With Sourcing Profile' (OFF), 'With Follow-Up Strategies' (OFF), 'With Business Add-In' (OFF), and 'With Creation of Stock Transport Document' (ON). Below these, the 'STO Type' is set to 'Stock Transp. Order (UB)' and the 'Delivery Location' is set to 'Original Location'. The window includes 'Save' and 'Discard Draft' buttons at the bottom.

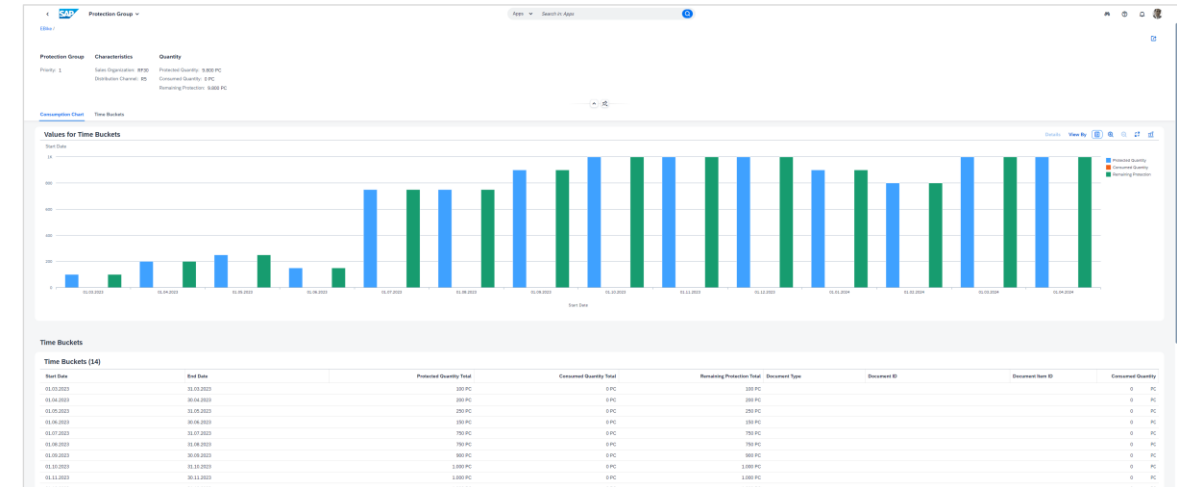


# New Business Processes and Functionalities

## Advanced Available to Promise

### Supply Protection

- Protect quantities of a material in a specific plant against other competing demands
- Independent and flexible set-up to model complex Supply Protection scenarios, based on standard and custom characteristics
- Core (horizontal) protection where complete groups are protected against each other
- Prioritized (vertical) protection where the protection is prioritized, and every group is only protected against the demand of a lower priority
- Integral part of Product Availability Check (PAC). Detailed explanations in Review Availability Check Results



[Link to documentation](#)





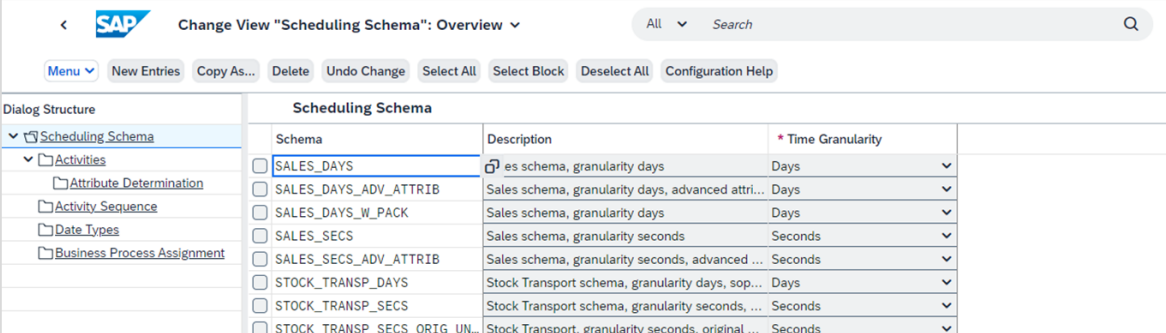
## New Business Processes and Functionalities

### Advanced Available to Promise

#### Advanced Business Process Scheduling

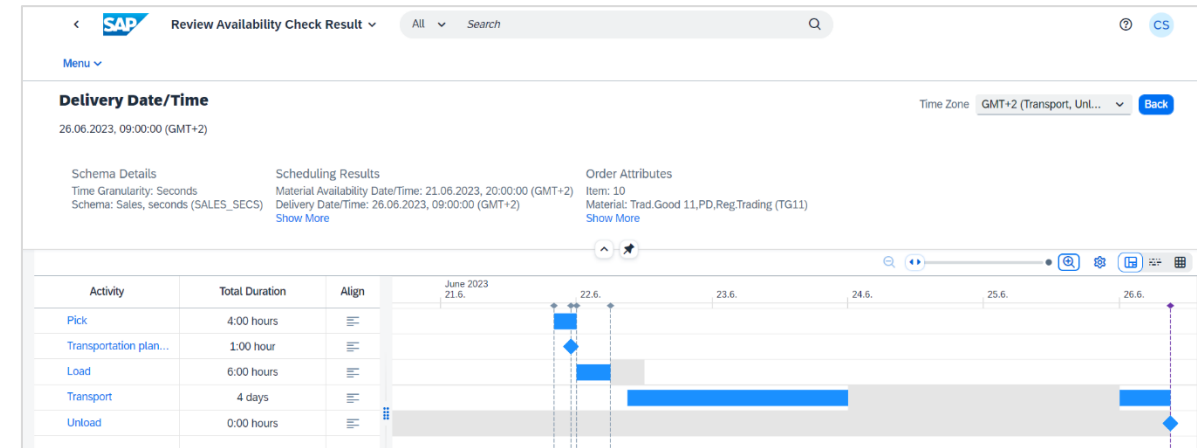
- Accomplish more-granular definition & sophisticated scheduling of logistical activities across different business processes
- Integration into available to promise (ATP) scenarios: alternative-based confirmation (ABC), backorder processing (BOP), product allocations (PAL), product availability check (PAC) and supply protection (SUP)
- Pre-delivered BPS schemas, which provide more sophisticated scheduling capabilities, e.g., more granular definition of durations and working times of logistical activities based on further attributes in sales documents e.g., customer group, shipping type, etc.
- Extensibility through standard APIs providing flexibility for realizing customer specific scenarios
- Enable flexible delegation of scheduling to multiple scheduling providers
- Accomplish condition-based BPS scheduling through BPS object and value determination (OVD) apps "Configure Activity Attributes"

[Link to documentation](#)



The screenshot shows the SAP Scheduling Schema Overview interface. It includes a search bar, a menu, and a table of scheduling schemas. The table has columns for Schema, Description, and Time Granularity. The schemas listed are SALES\_DAYS, SALES\_DAYS\_ADV\_ATTRIB, SALES\_DAYS\_W\_PACK, SALES\_SECS, SALES\_SECS\_ADV\_ATTRIB, STOCK\_TRANSP\_DAYS, STOCK\_TRANSP\_SECS, and STOCK\_TRANSP\_SECS\_ORIG\_UNL.

Schema	Description	* Time Granularity
<input type="checkbox"/> SALES_DAYS	Sales schema, granularity days	Days
<input type="checkbox"/> SALES_DAYS_ADV_ATTRIB	Sales schema, granularity days, advanced attri...	Days
<input type="checkbox"/> SALES_DAYS_W_PACK	Sales schema, granularity days	Days
<input type="checkbox"/> SALES_SECS	Sales schema, granularity seconds	Seconds
<input type="checkbox"/> SALES_SECS_ADV_ATTRIB	Sales schema, granularity seconds, advanced ...	Seconds
<input type="checkbox"/> STOCK_TRANSP_DAYS	Stock Transport schema, granularity days, sop...	Days
<input type="checkbox"/> STOCK_TRANSP_SECS	Stock Transport schema, granularity seconds, ...	Seconds
<input type="checkbox"/> STOCK_TRANSP_SECS_ORIG_UNL...	Stock Transport, granularity seconds, original ...	Seconds

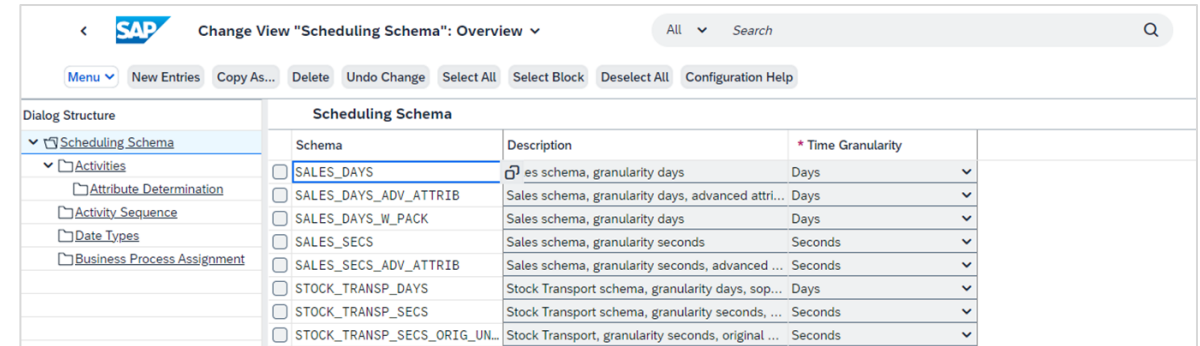




## New Business Processes and Functionalities

### Business Process Scheduling

- Business process scheduling (BPS) is a flexible configurable scheduling solution in SAP S/4HANA
- BPS provides a framework to define, schedule logistical activities of different business processes
- Optimized resource utilization and increased scheduling precision
- Decouple business documents (for example, a sales order in the sales order scheduling process) from a concrete scheduling application
- Integration configurations into various business document types
- Pre-delivered BPS schemas, which consume existing scheduling configurations based on shipping point and transportation route
- Calculate all logistically relevant date types like material availability date, goods issue date, loading, and unloading date based on the most-accurate durations and working times for the involved activities and entities (like picking, loading, transporting, and unloading)
- Increase scheduling precision, enabling higher customer satisfaction



The screenshot shows the SAP Scheduling Schema Overview interface. The title bar indicates 'Change View "Scheduling Schema": Overview'. Below the title bar, there are several buttons: 'Menu', 'New Entries', 'Copy As...', 'Delete', 'Undo Change', 'Select All', 'Select Block', 'Deselect All', and 'Configuration Help'. The main content area is divided into two panes. The left pane, titled 'Dialog Structure', shows a tree view with 'Scheduling Schema' expanded, containing 'Activities', 'Attribute Determination', 'Activity Sequence', 'Date Types', and 'Business Process Assignment'. The right pane, titled 'Scheduling Schema', displays a table of pre-delivered schemas.

Schema	Description	* Time Granularity
<input type="checkbox"/> SALES_DAYS	Sales schema, granularity days	Days
<input type="checkbox"/> SALES_DAYS_ADV_ATTRIB	Sales schema, granularity days, advanced attri...	Days
<input type="checkbox"/> SALES_DAYS_W_PACK	Sales schema, granularity days	Days
<input type="checkbox"/> SALES_SECS	Sales schema, granularity seconds	Seconds
<input type="checkbox"/> SALES_SECS_ADV_ATTRIB	Sales schema, granularity seconds, advanced ...	Seconds
<input type="checkbox"/> STOCK_TRANSP_DAYS	Stock Transport schema, granularity days, sop...	Days
<input type="checkbox"/> STOCK_TRANSP_SECS	Stock Transport schema, granularity seconds, ...	Seconds
<input type="checkbox"/> STOCK_TRANSP_SECS_ORIG_UN...	Stock Transport, granularity seconds, original ...	Seconds

[Link to documentation](#)



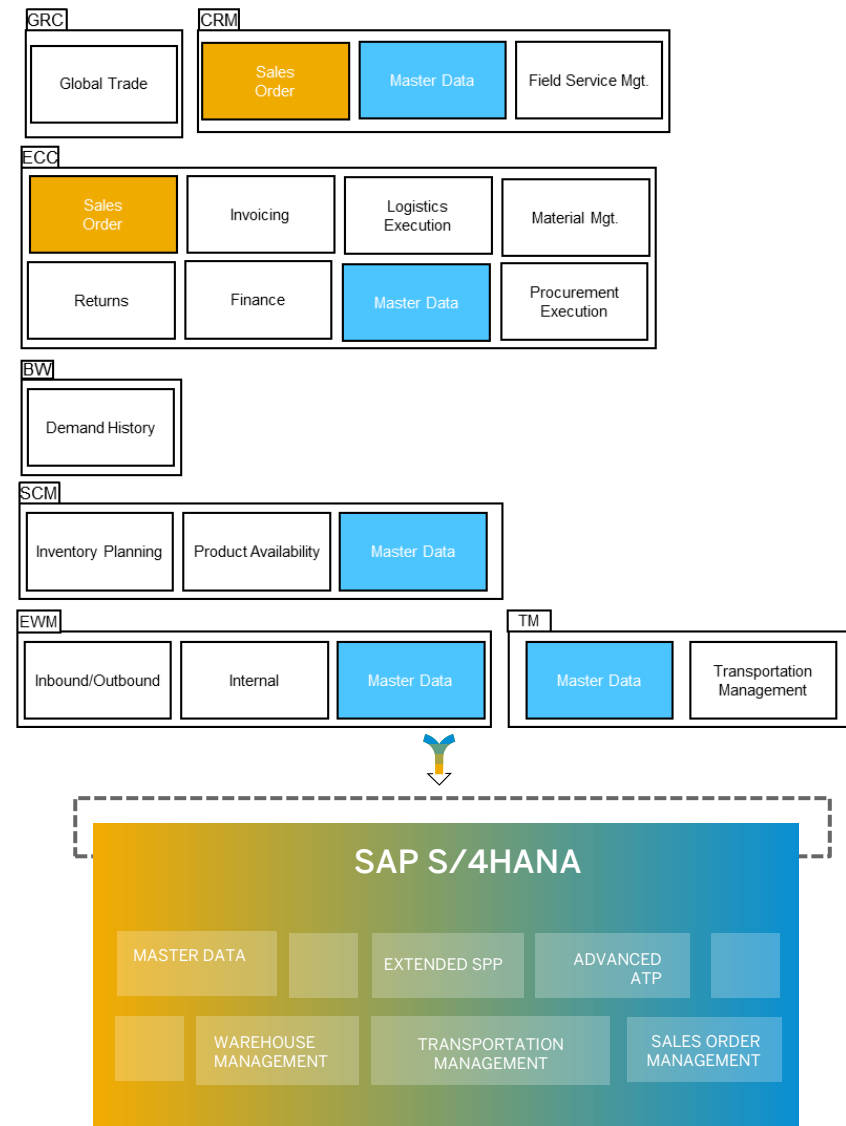
## New Business Processes and Functionalities

### Extended Service Parts Planning

#### Extended Service Parts Management

- Planning and Execution in one central system – SAP S/4HANA
- Harmonized master data with out the need for synchronization
- Benefit from the availability of the data from SAP S/4HANA Warehouse Management, SAP S/4HANA Advanced ATP, SAP S/4HANA Transportation Management all in one system
- Leverage the power of transactional data in one system eliminating the need of transactional data flows
- Demand history data directly from SAP S/4HANA and eliminate the need of integration to external Business Warehouse Systems

[Link to documentation](#)



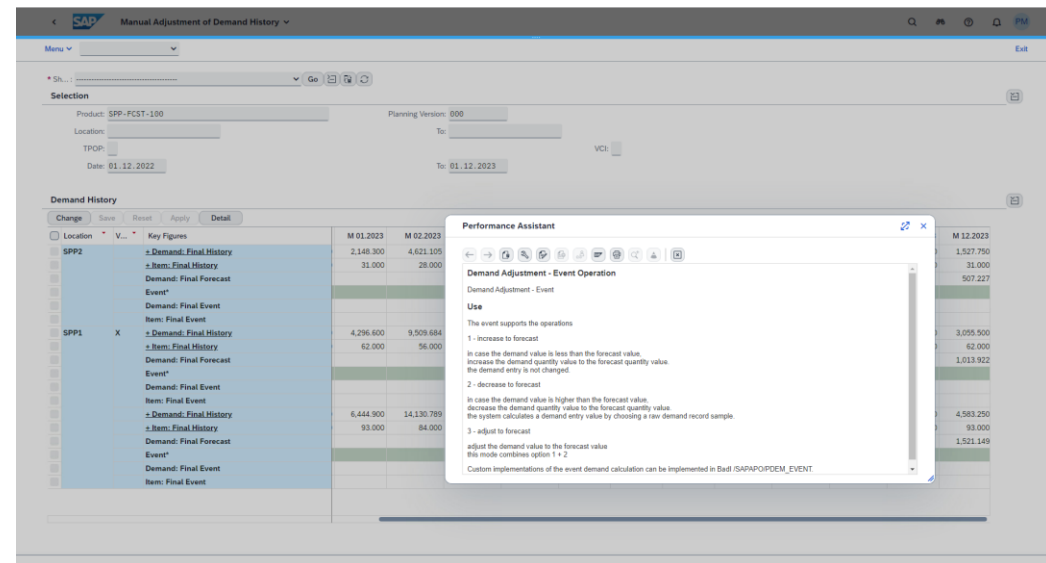
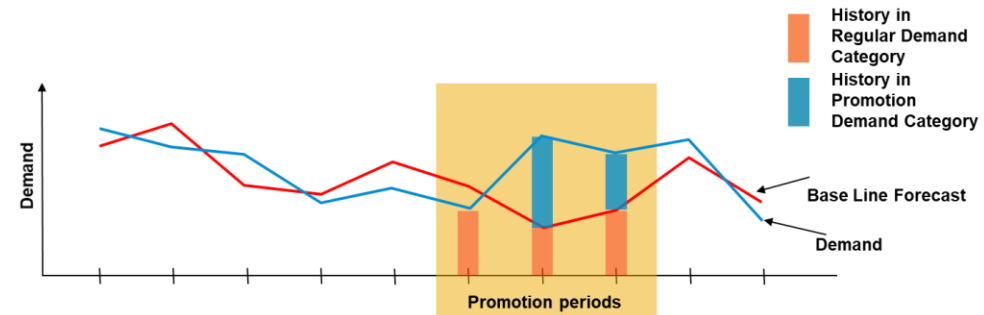


# New Business Processes and Functionalities

## Extended Service Parts Planning

### Event Management (Promotion Planning) in Extended Service Parts Management

- Distinguish between “Base Line” and “Promotion Demand”
- Use planning service to separate extra (promotional demand) from regular demand
- Keep apart non-recurring demand patterns in Forecasting
- New ability to modify demand (e.g. adjust to Forecast)
- New report to modify demand (increase/ decrease/ adjust to Forecast)



[Link to documentation](#)

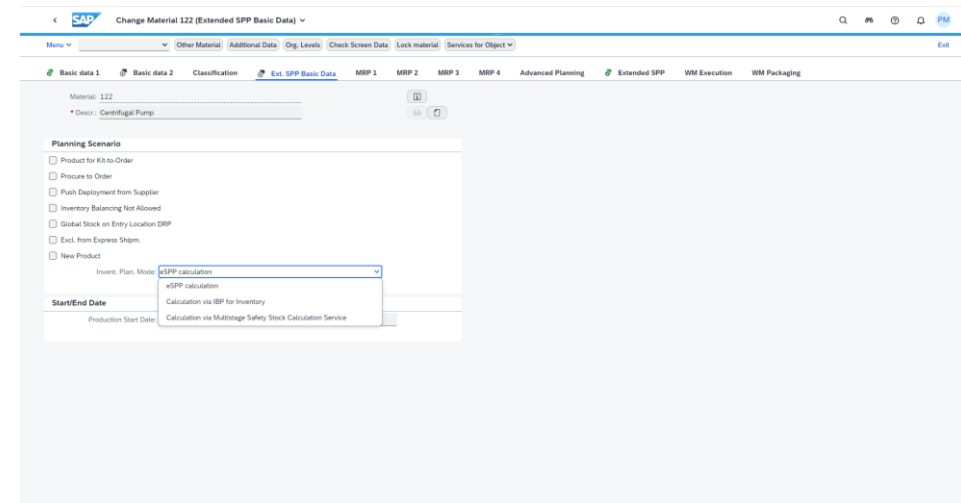
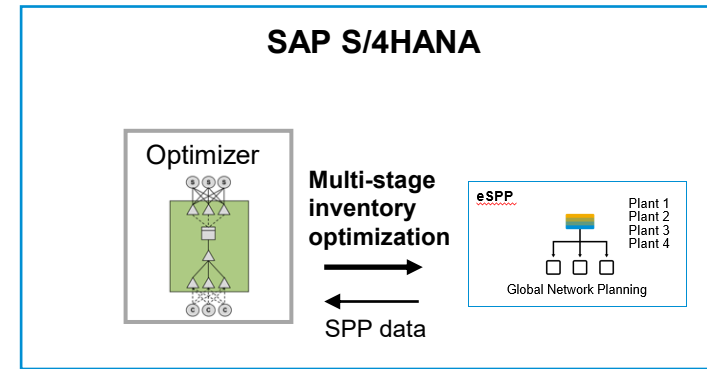


## New Business Processes and Functionalities

### Extended Service Parts Planning

#### Inventory Optimization Engine in Extended Service Parts Management

- Enhanced capabilities to plan the optimal stock of location products
- Keep stockholding costs as low as possible and to reduce ordering costs, whilst at the same time ensuring a high level of customer service
- Integrated Inventory Optimization Engine enables Multi-Stage Inventory Optimization due to better integration in SAP S/4HANA (Based on eSPP data model)
- New ability to select the Inventory planning mode and display appropriate results
- Optimized performance and simplified configuration with out the need for additional systems



[Link to documentation](#)

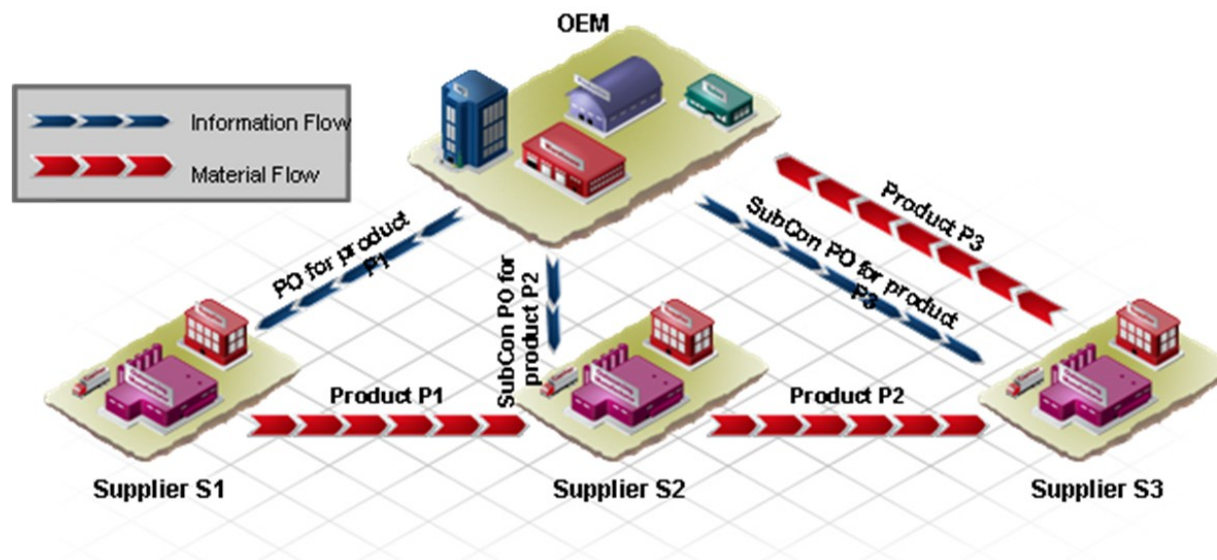


## New Business Processes and Functionalities

### Extended Service Parts Planning

#### Kit to Stock with Subcontracting in Extended Service Parts Management

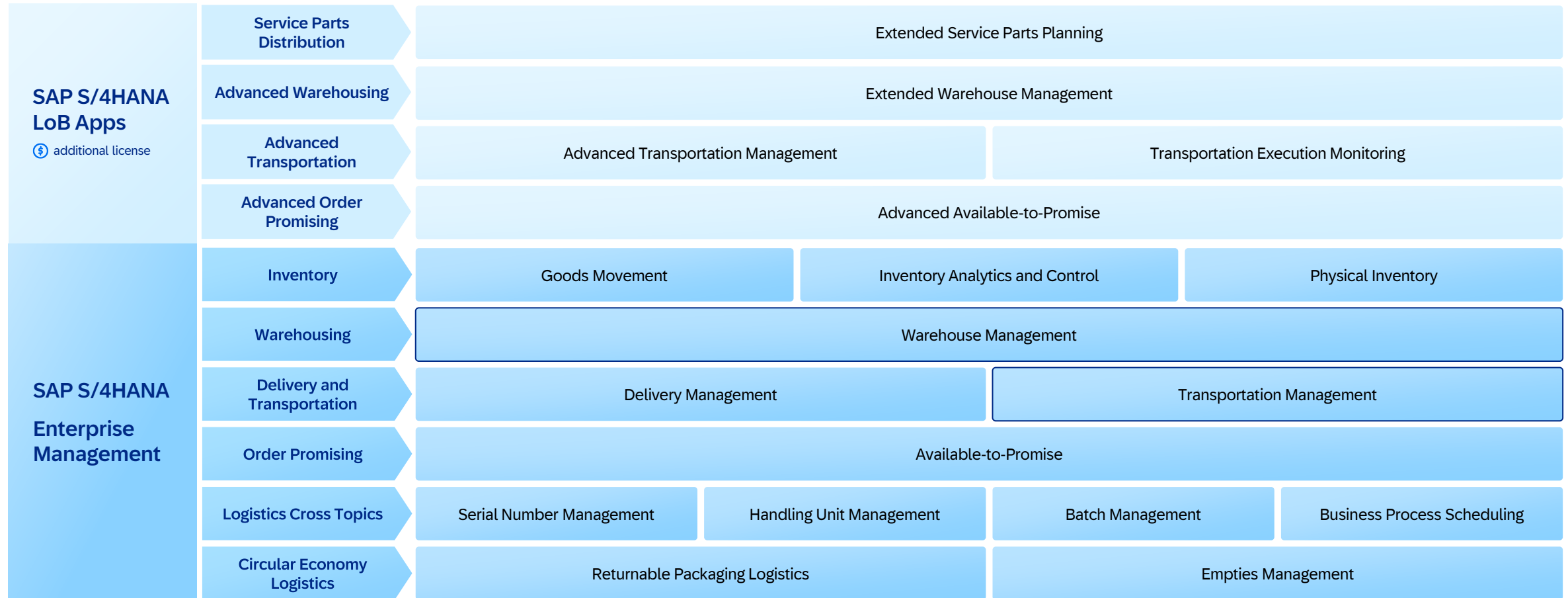
- Kit-to-stock function in distribution requirements planning (DRP) to plan the procurement and manufacture of kits
- Multiple options to enable the creation of the kit internally or externally and with preferences while defining the location product master
- Allows definition of subcontracting scenarios in kitting process to plan procurement & manufacturing of kits
- Automatic creation of subcontracting orders in case of external kitting is supported





## Updated Business Processes

### Business Area and Business Capability Overview



Updated business capabilities in SAP S/4HANA





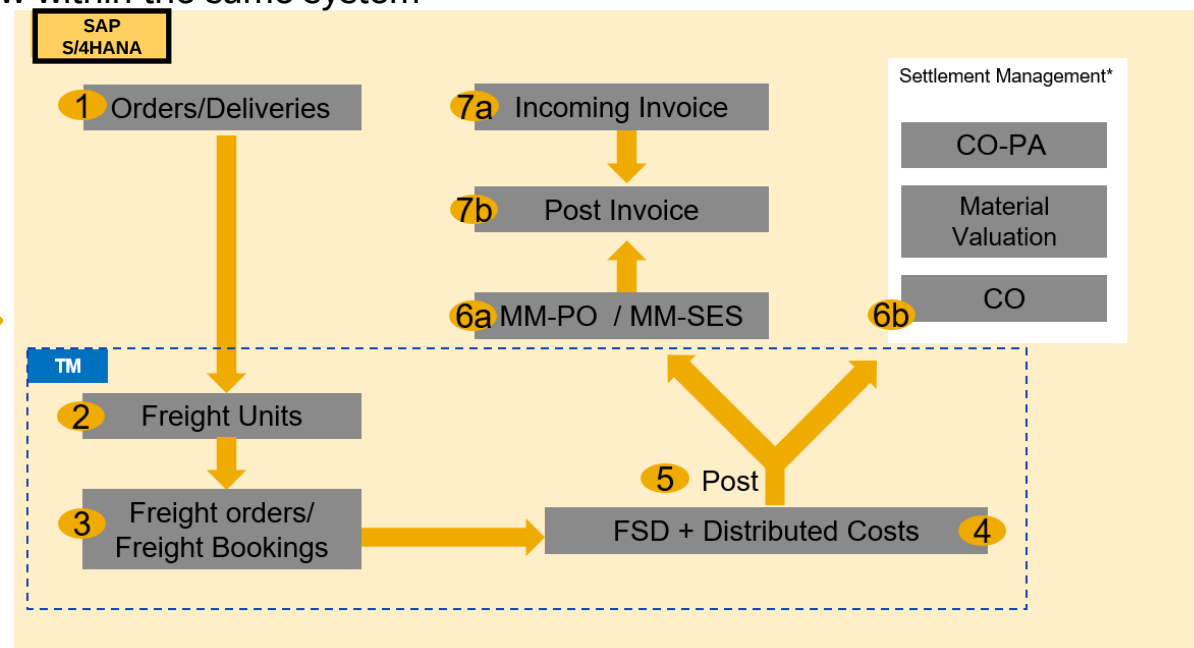
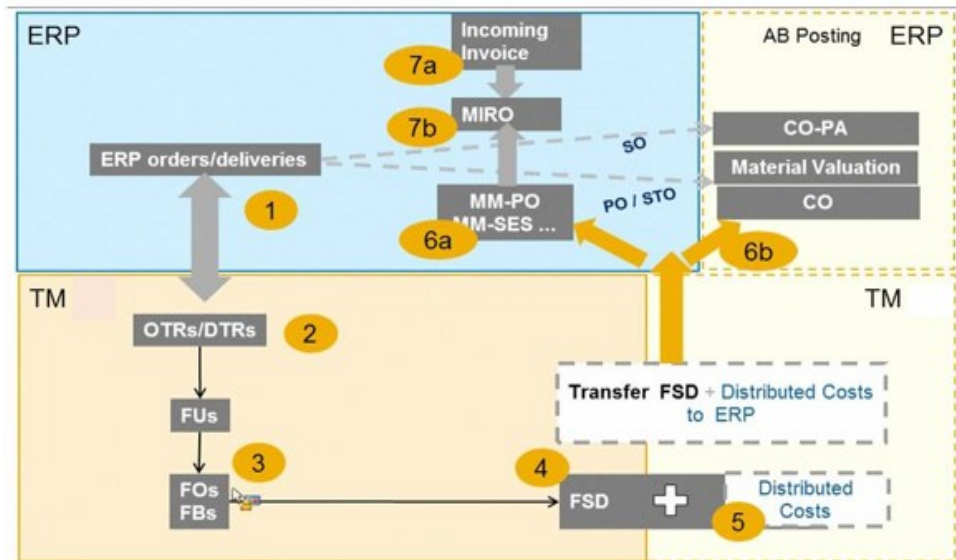
## Updated Business Processes and Functionalities

### Transportation Management

#### Freight Settlement in Transportation

From the cross system world to “one SAP S/4HANA world”

- Functionalities of the settlement document are unchanged
- No middleware, no xml message → no “transfer FSD – Freight Settlement Documents” anymore
- Posting, creation of follow up documents and invoice verification is now within the same system



[Link to documentation](#)



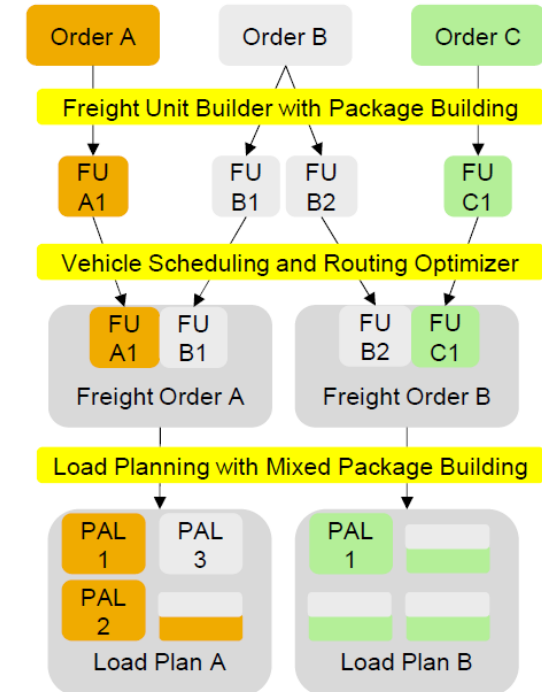
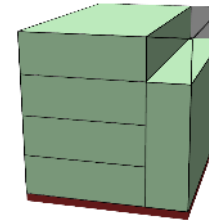
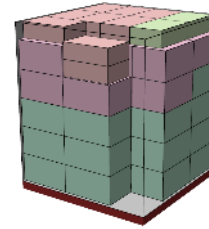


## Updated Business Processes and Functionalities

### Transportation Management

#### Improved mixed pallet building

- Consolidate multiple products for the same customer into one mixed carton
- Consolidate products for multiple customers into one mixed pallet
- Determine physical positions (x/y/z) and orientations of cartonized and non-cartonized products on mixed pallet, considering various constraints
- Stackability matrix (allow to stack product A on product B), stacking factor (A can be stacked n times within a stack), stack by decreasing weight / density
- Incompatibilities (between products in mixed carton and in mixed pallet)
- Height, volume and weight constraints
- Orientation constraints of the products





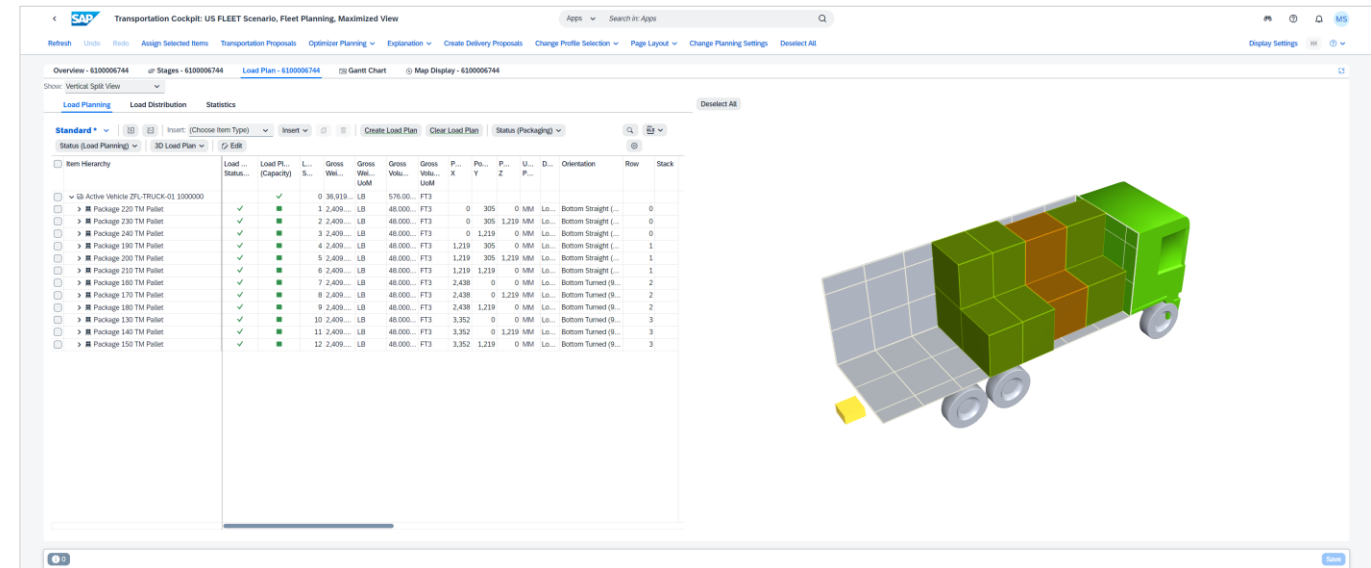
# Updated Business Processes and Functionalities

## Transportation Management

### Improved Package Building & Load Planning

- Minimize the number of pallets while considering constraints such as package attribute, product stacking rules, customer specific requirements, height limits
- Leverage new Consistency Checks for Package Building Constraints
- Package Building Optimizer – Merging Similar Products
- Optimally utilize loading space on transportation resources
- Maximize utilization of containers by considering various constraints such as dimensions, vehicle attributes, stacking rules, loading sequence, flexible split deck
- Accomplish Manual Load Planning and gain flexibility by creating Multiple Load Plan PDF Files in Batch Run

[Link to documentation](#)





# Updated Business Processes and Functionalities

## Transportation Management

### Logistics Integration with Product Compliance

- Save time and reduce risks through the ability to prevent planning of noncompliant transportation demands
- Logistics Integration with Product Compliance - Dangerous goods checks in rail, ocean and air cargo freight bookings
- Checking of all compliance-relevant products to determine whether rail, ocean or air cargo transport processing is allowed as it pertains to dangerous goods regulations
- Prevent execution of transports containing noncompliant products
- Blocking of transportation demand and freight orders/bookings if no compliant transport is possible

[Link to documentation](#)

SAP Edit Ocean Freight Booking 6700001855

Apps Search in: Apps

Edit Refresh Copy Check Document Create Deliveries Subcontracting Execution Status Calculate Charges Cancel Document

Document Cut-Off Date: 00:00:00 PST

Display Settings

Items

Freight Booking Item View

MyStandard Insert: (Choose Item Type) Insert FUs Based on Freight Unit ID Create

Item Hierarchy	Item Type	Item (Desc...)	Qua...	Qua... UoM	Gross Wei...	Gross Wei... UoM	Gross Volu...	Gross Volu... UoM	Net Wei...	Net Wei... UoM	Product	Dangerous Goods Status (Description)	Freight Order for Pick-Up	Freight Order for Delivery
▼ Sales Order 21225				***	443	KG	0.442	M3	419	KG				
▼ Freight Unit 4200014565				***	443	KG	0.442	M3	419	KG				
Product 10 Firmis Löser Zitrone (20L Fass)	PRD	Product	20	DR	420	KG	0.42	M3	400	KG	P69-VARREM_PP1	OK - Transport Allowed		
Product 20 WHO hyg. Handreiniger (2x500ml)	PRD	Product	10	CAR	16	KG	0.016	M3	14	KG	P69-HANDR_PP1	OK - Transport Allowed		
Product 30 Linalool (1L Flasche)	PRD	Product	5	BT	7	KG	0.006	M3	5	KG	P69-LINALOOL-PP	OK - No Dangerous Goods		

Stages

Standard Intermediate Stop Merge Execution Status (Source) Execution Status (Destination)

Stage	Stage Category (Description)	Transp... Mode	Transportation Mode (Description)	Source Location	UN/LOCODE (Source)	Source Location Address	Destination Location	UN/LOCODE (Dest...)	Destination Location Address	Executing Carrier	Executing Carrier Description	SCAC of Execut... Carrier	Invoicing Carrier	Invoicing Carrier (Description)
1	Pre-Carriage	01	Road	SP_1710		Shipping Point 1710 - ...	PORT_USLAX	USLAX	USLAX / 425 South Pa...					
2	Main Carriage	03	Sea	PORT_USLAX	USLAX	USLAX / 425 South Pa...	PORT_DEHAM	DEHAM	DEHAM / Kurt-Eckelm...					
3	On-Carriage	01	Road	PORT_DEHAM	DEHAM	DEHAM / Kurt-Eckelm...	0017100050		Foreign Customer 50 (...)					

Save Cancel



## Updated Business Processes and Functionalities

### Warehouse Management

#### Quality inspection with synchronous goods receipt

- Improve integration for materials in quality inspection and accomplish massive simplification compared to inbound delivery related processes
- Quality inspection with synchronous goods receipt postings on an S/4HANA managed storage location
- Creation of inspection lot when a goods receipt is posted for a product that's inspection-relevant
- Enable synchronous goods receipt postings for materials requiring quality inspection for goods receipt from production as well as from external sources
- Goods receipt processing in SAP EWM that considers settings for certificate processing in QM at goods receipt (for example, requirement for confirmation of a certificate at goods receipt)

The screenshot shows the SAP Display Material Document interface for document 5000423235. The 'General' tab is active, displaying document details such as Document Date (01.02.2023), Posting Date (01.02.2023), and Supplier (Parts Inc.). A table below shows the material 'Inbound Quality Management Product 1' with a quantity of 30. The 'Warehouse Management' tab is also visible, showing the quantity in the warehouse (30) and the quantity in the delivery note (0.000). A red box highlights the 'Status GR Doc: 8' field, indicating the goods receipt document status.

[Link to documentation](#)

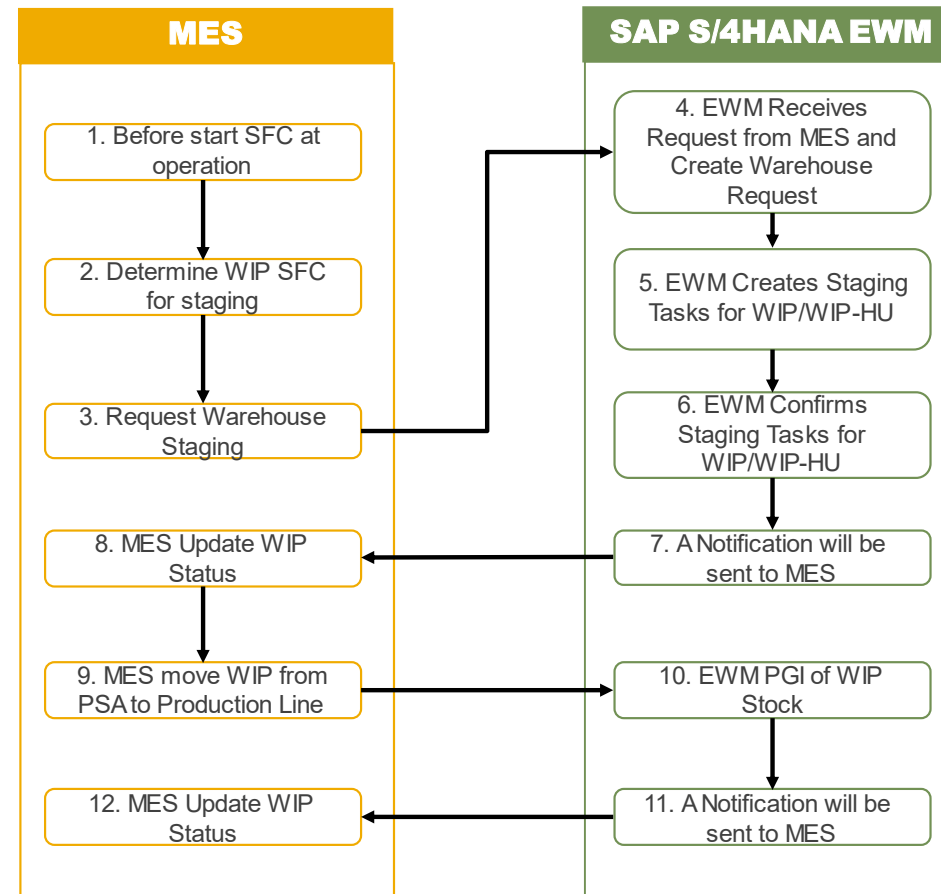


# Out-of-the-Box Integration

## SAP Extended Warehouse Management: Work in Progress Management with Manufacturing Execution System

- Increased efficiency and transparency in Work in Progress (WIP) Management with the integration between SAP S/4HANA EWM and Manufacturing Execution Systems like SAP Digital Manufacturing Cloud
- Production advancement of the WIP with or without a container to the warehouse for temporary storage
- Ability for production to request staging of WIP from the warehouse to the production work center according to their own requirements, such as date and time or allowed capacity in the production supply area
- Recording of key-production information, such as shop floor control (SFC) or WIP number, on each piece of WIP stock
- Provision of accurate stock details of WIP in a warehouse
- Provision of the receiving or staging process status of WIP
- Increased accuracy of WIP Monitoring by manage WIP as stock on SFC level

[Link to documentation](#)

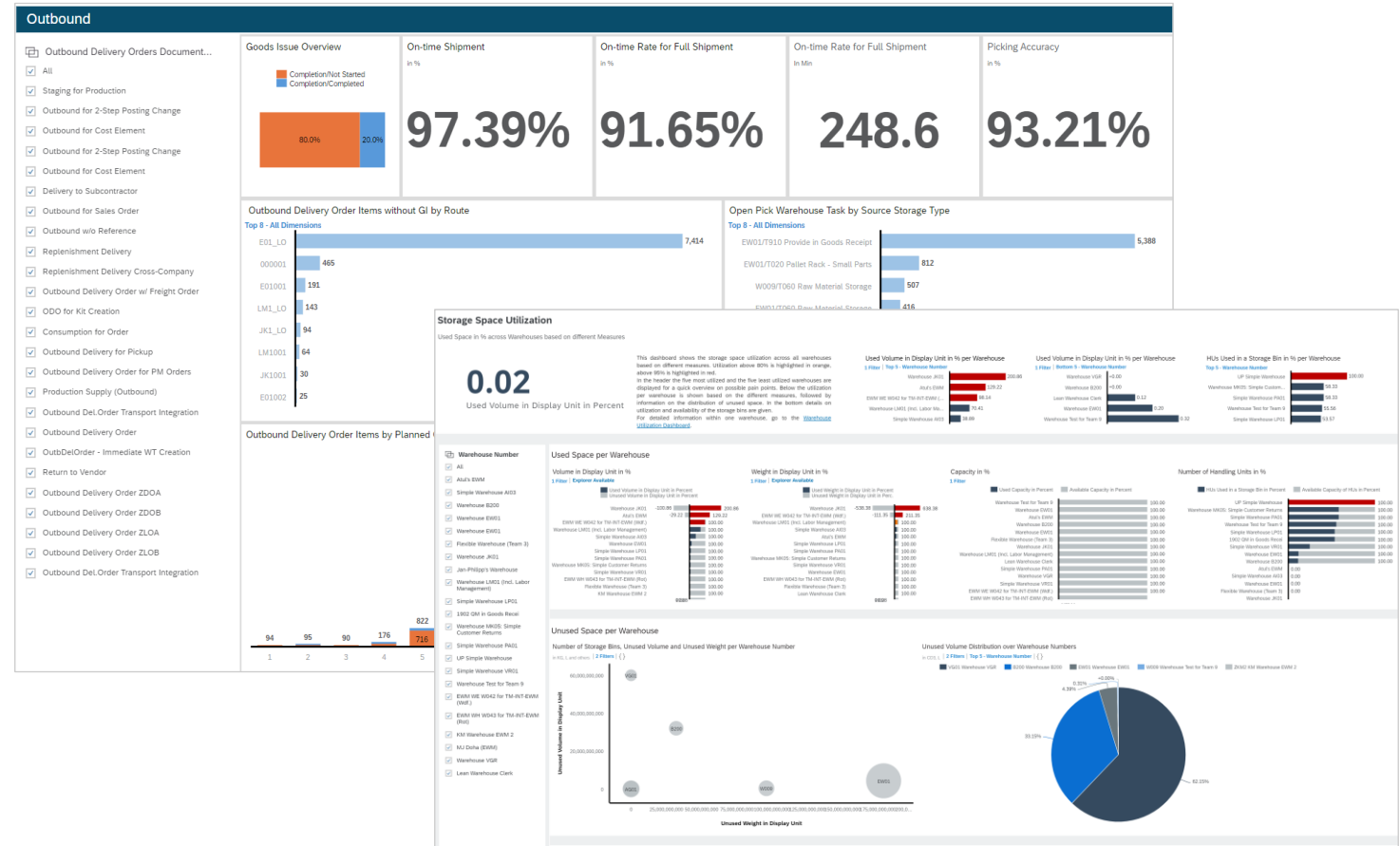




## Out-of-the-Box Integration

### SAP S/4HANA Warehouse Management: SAP Analytics Cloud (SAC) business content

- Drive efficiency through insights for the warehouse clerks in monitoring the inbound/outbound situations in warehouse for their daily work
- Availability of SAP Analytics Cloud (SAC) business content for EWM
- Dashboard to monitor the inbound/outbound situation in the warehouse
- Inbound processing related content includes Goods Receipt Overview, On Time Receipt, On Time Receipt in Full, Receiving Duration per Inbound Delivery Item, Putaway Accuracy
- Outbound processing related content includes Goods Issue Overview, On Time Shipment, On time shipment in full, Internal order cycle time per ODO item, pick accuracy
- Flexibility to download the SAC content and adjust the KPIs based on specific requirements



[Link to video](#)

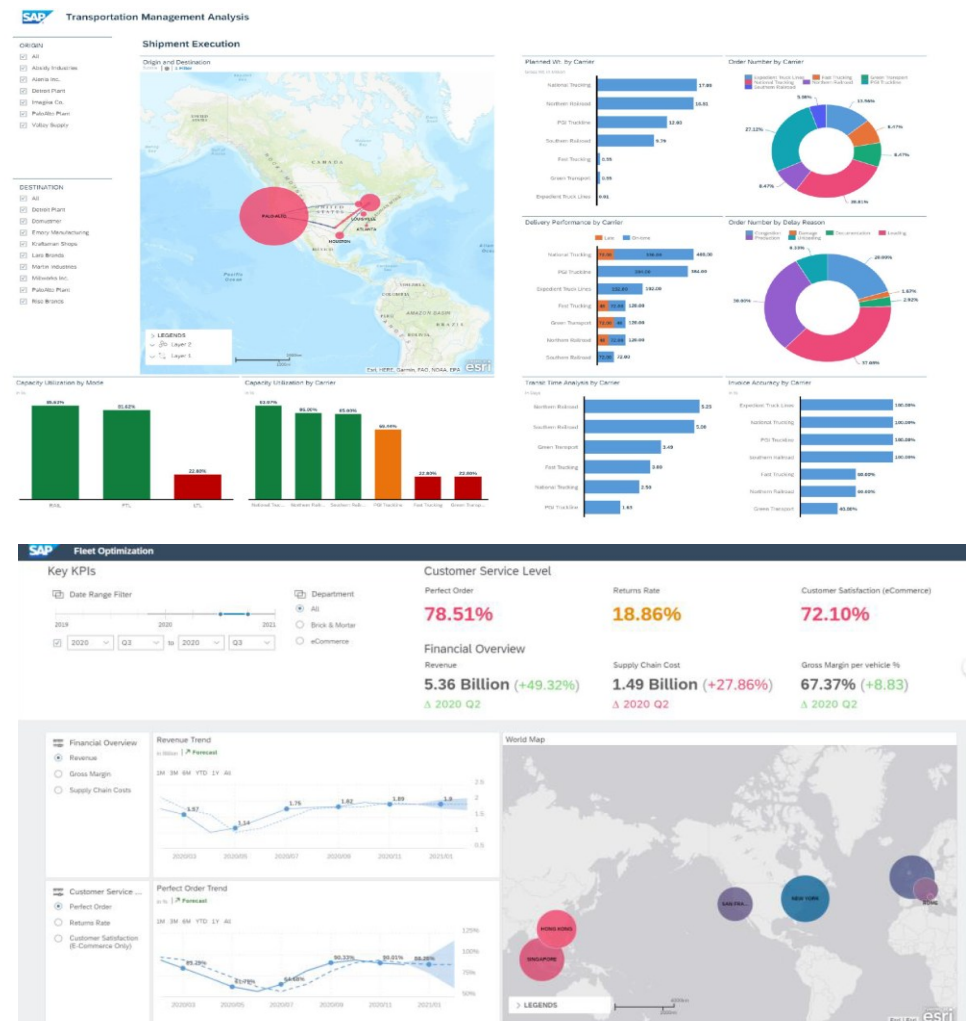


## Out-of-the-Box Integration

## SAP S/4HANA Transportation Management: Leverage SAP Analytics Cloud for logistics insights

- Long to medium term cross company transportation performance reporting
- Strategic, operational and cost KPIs visualization on map with drill downs to support root cause analysis
- Display KPIs combining diverse systems and functions like EWM, LBN
- Additional data sources, KPIs and industry benchmarks can be added easily
- Rich, intuitive multi dimensional visualization and analysis
- Leverage what-if analysis and simulation, machine learning, patterns, trends etc
- Live data connection without data replication from source S/4HANA and Cloud systems

[Link to documentation](#)







## Out-of-the-Box Integration

## SAP S/4HANA Transportation Management: Integration into SAP Business Network for Logistics

Freight Requests for Quotation

Standard

Freight Request

Ordering Party / Freight	Ordering Party	Ordering Date	Ordering Location	Ordering Status	Responded To (Count)
Freight Request	Ordering Party	Ordering Date	Ordering Location	Ordering Status	Responded To (Count)

Freight Documents

Standard

Freight Document

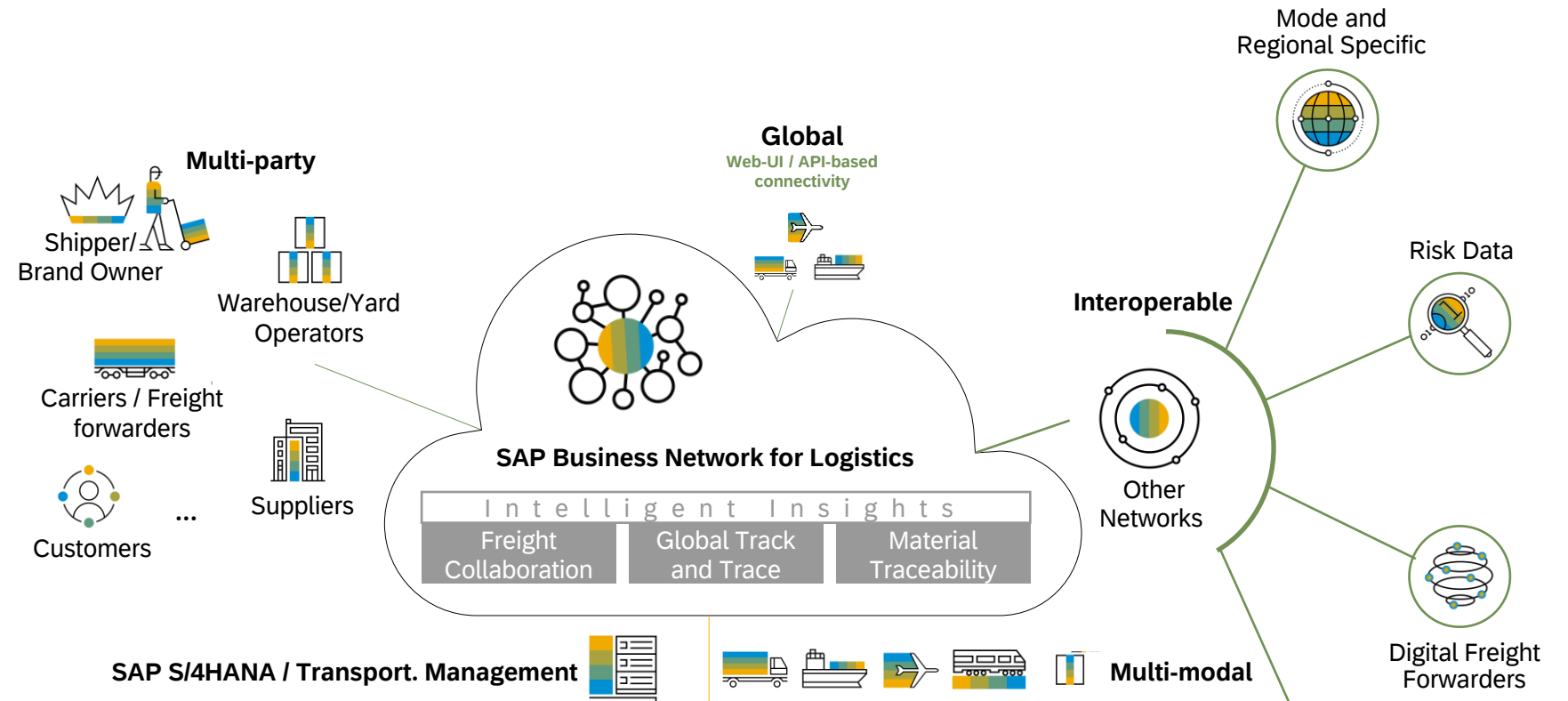
Ordering Party / Freight	Ordering Party	Ordering Date	Ordering Location	Ordering Status	Responded To (Count)
Freight Document	Ordering Party	Ordering Date	Ordering Location	Ordering Status	Responded To (Count)

Track Shipments

Standard

Shipments (536)

Shipment No.	Transportation Mode	Carrier	Planned Departure	Planned Arrival	Actual Delivery At	Execution Status	Delay Status	Estimated Arrival At
630001387	Road transport	PGI Truck Lines	Planned Departure	Planned Arrival	Actual Delivery At	In Execution		
630002087	Road transport	PGI Truck Lines	Planned Departure	Planned Arrival	Actual Delivery At	Not Started		
630003088	Road transport	PGI Truck Lines	Planned Departure	Planned Arrival	Actual Delivery At	In Execution	Delayed	
630003084	Road transport	PGI Truck Lines	Planned Departure	Planned Arrival	Actual Delivery At	Not Started		



- **Robust, scalable** cloud service with **global** coverage
- Connect business partners for inter-company **collaboration** and **transparency**
- **Standardized** services for logistics collaboration and insights

[Link to documentation](#)





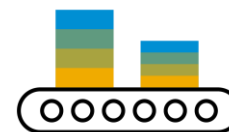
# Out-of-the-Box Integration

## SAP S/4HANA Advanced Available To Promise Supply Creation-Based Confirmation – integration with ePPDS

- Enhanced capability to confirm sales order requirements by initiating supply creation in SAP S/4HANA Production Planning/Detailed Scheduling (PP/DS)
- Integration between SAP S/4HANA Advanced Available-to-Promise (aATP) and Production Planning and Detailed Scheduling (PP/DS) in SAP S/4HANA
- Enables confirmations of sales order requirements when the available quantity of the requested product is insufficient
- Check done for material availability and triggering supply creation for a requirement if necessary
- Supports Make-to-Order and Make-to-Stock scenarios



Check for the availability of a product, based on supply and demand matching algorithm in production planning



Process of creating new supply, invoking production-planning tools to increase the confirmation of a request after an availability check



Enhanced capability to promise an order by checking for availability and, in addition, invoke supply creation if required to fulfill the request

[Link to documentation](#)



## Out-of-the-Box Integration

### SAP S/4HANA Advanced Available To Promise: Integration with SAP Integrated Business Planning

- Ability to consider response planning-based confirmations during advanced ATP check
- New response planning-based availability check to consider and respective results from SAP Integrated Business Planning for Supply Chain (SAP IBP) during the advanced ATP check:
  - Assignment of a zero confirmation from advanced ATP for newly created sales orders or changed sales orders
  - Transfer of orders to SAP IBP, for planning and confirmation
  - Use of order confirmations that have been created by the response planning run in SAP IBP, for advanced ATP

Status	Log	Results	Steps	Job Name	Planned Start	Created By	Duration
Finished			1	Real-Time Integration (Outbound)	06/13/2022, 10:04		27 sec
Finished			1	Order-Based Planning: Supply Planning Run	06/13/2022, 09:58		2 min 59 sec

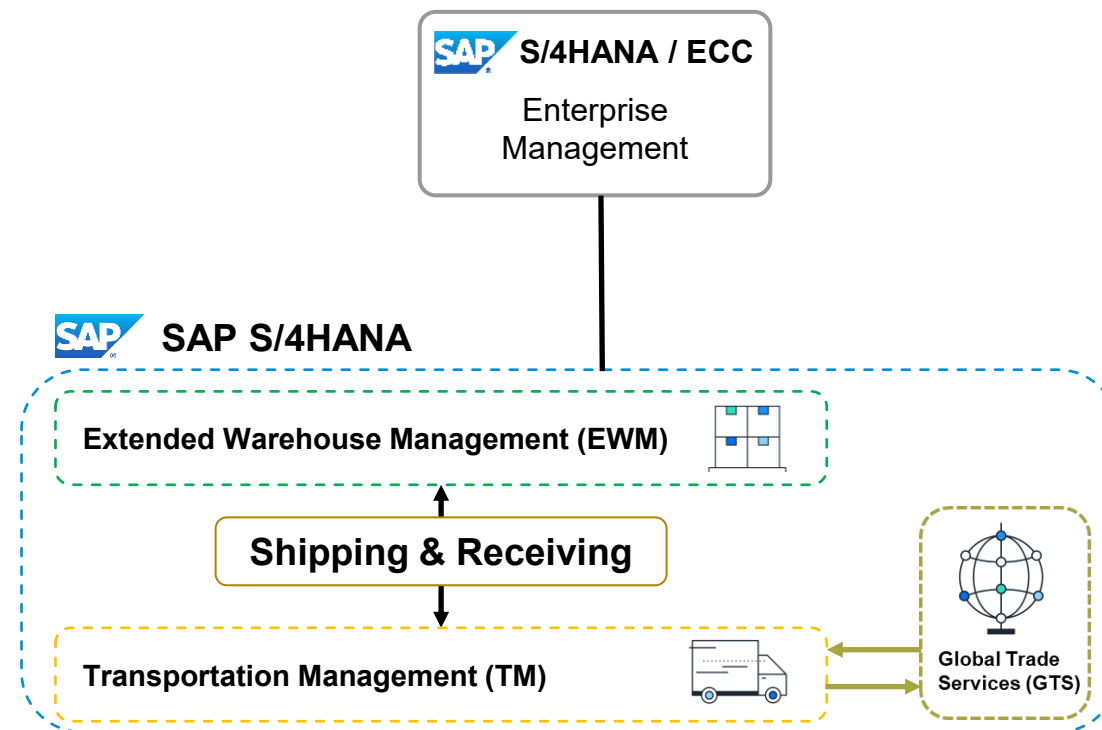
[Link to documentation](#)



# Out-of-the-Box Integration

## Integration of decentralized Extended Warehouse Management (EWM) and Transportation Management (TM) with SAP Global Trade Services (GTS)

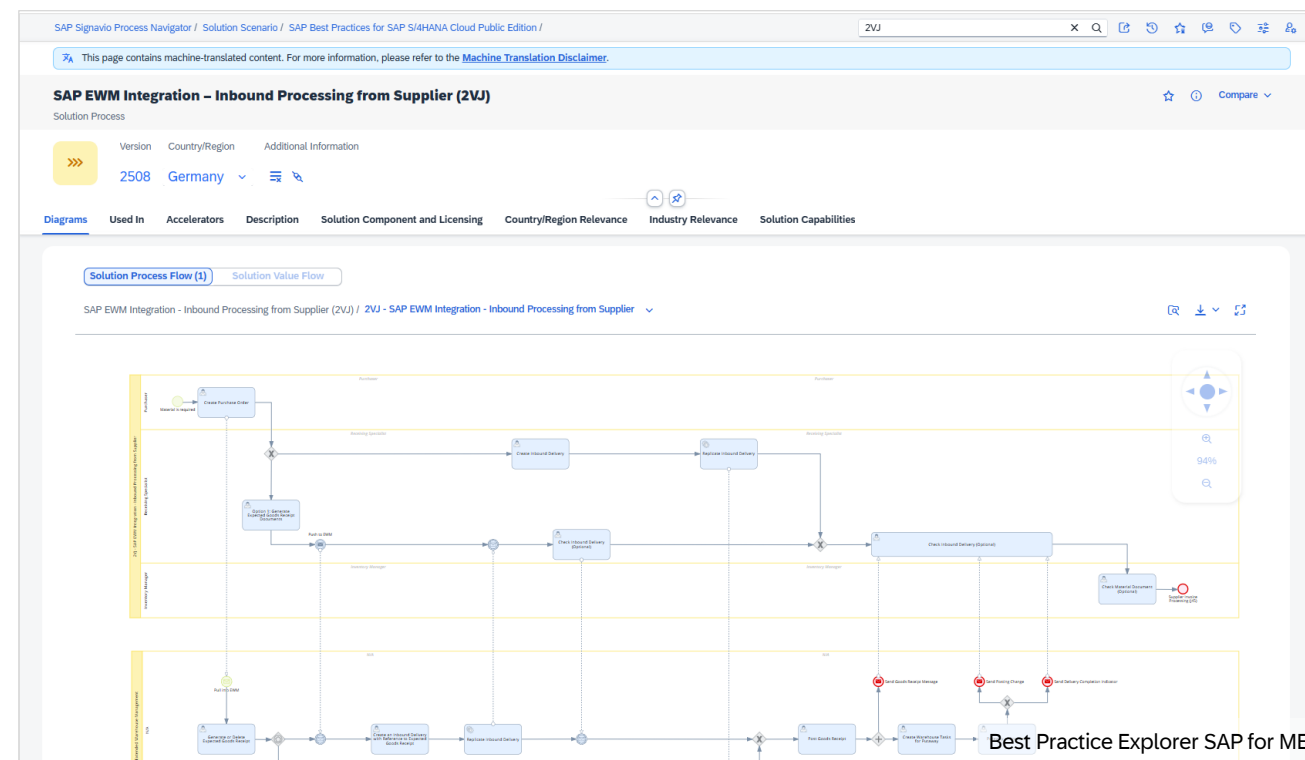
- Enables one to conduct compliance checks for freight units and freight orders and complete export declaration for consignments and freight orders
- Same integration pattern with GTS for both EWM and IM managed storage locations



## Out-of-the-Box Integration

### Integration to SAP S/4HANA Cloud Public Edition (SAP Cloud ERP)

- Integration between SAP S/4HANA Cloud Public Edition with decentralized Extended Warehouse Management (EWM) based on SAP S/4HANA.
- Supports scenarios where decentralized warehouses are running advanced processes leveraging the EWM based on SAP S/4HANA Cloud Private edition e.g. cross docking, material flow, RF scenarios etc
- New integration/Scope Item of SAP S/4HANA (Public) Cloud 2508 and EWM for SAP S/4HANA Private Cloud
- Integration is based on introducing a new communication scenario (SAP\_COM\_0A58 - Process/Delivery) for transactional data is available as of SAP S/4HANA Cloud 2508.





# Compatibility Packs in Supply Chain Transportation Management

Logistics Execution Transportation (LE-TRA) is not the target architecture within SAP S/4HANA. The functionality is available in SAP S/4HANA but not considered as future technology. The alternative functionality is selected features of Transportation Management which is already available within SAP S/4HANA.

- The **Route** object of application component LE-TRA and the corresponding objects, which are needed for the definition and determination of this route, have been moved from the Compatibility Scope into the Perpetual Scope of SAP S/4HANA. In other words: The customers can use those objects after 2030 in SAP S/4HANA. That allows the customer to use these objects for existing functionality in other applications e.g. scheduling in sales order / stock transport order / delivery, etc.

**Important:** All other objects from LE-TRA which are used for the Transportation functionality will remain in the Compatibility Scope. And cannot be used after 2030. This would primarily be the shipment document + shipment cost document and all corresponding objects / customizing / master data / interfaces.

- LE-TRA and the industry solution IS-OIL are functionally different solutions, however they share some objects on a technical level. These shared objects can continued to be used, even after the expiry of the compatibility pack license, but only in OIL&GAS context. These are the areas of Transportation Planning Point and Shipment type, which are clustered around the tables VTK / TTDS.

- CP ID 474:
  - This usage right has been extended until the end of 2030. Alternative is the basic variant of Transportation Management in SAP S/4HANA. Communication regarding further enhancements of alternative to come via SAP Road Maps.
  - **Relevant notes:**
  - S4TWL – Transportation (LE-TRA): <https://me.sap.com/notes/2270199>
  - Detailed notes are accessible via the WayForward excel in <https://me.sap.com/notes/2269324>



# Compatibility Packs in Supply Chain Warehouse Management

The Warehouse Management (LE-WM) is not the target architecture anymore within SAP S/4HANA, on-premise edition (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). The (already available) alternative functionality is Extended Warehouse Management (SAP EWM) and since S/4HANA 1909 Stock Room Management.

Stock Room Management reuses major parts of LE-WM and can be used beyond 2025. Task & Resource Management (WM-TRM), Warehouse Control Unit interface (WM-LSR), Value Added Service (WM-VAS), Yard Management (WM-YM), Cross-Docking (WM-CD), Wave Management (WM-TFM-CP), and decentral WM (WM-DWM) are not part of Stock Room Management.

- CP ID 476:
  - This usage right has been extended until the end of 2030. Alternative is the basic variant of Transportation Management in SAP S/4HANA. Communication regarding further enhancements of alternative to come via SAP Road Maps.
  - Relevant notes:
  - S4TWL – Warehouse Management (WM): <https://me.sap.com/notes/2270211>
  - FAQ: Stock room Management : <https://me.sap.com/notes/2881166>
  - Detailed notes are accessible via the WayForward excel in <https://me.sap.com/notes/2269324>

# Asset Management





## SAP Cloud ERP Private differentiators

# SAP HANA and Embedded Analytics





# Real-time Analytics

Asset Performance Analysis	Asset Costing and Valuation	Tactical Asset Planning	Asset Management Resource Planning
<ul style="list-style-type: none"><li>• Technical Object Damages</li><li>• Technical Object Breakdown Analysis</li></ul>	<ul style="list-style-type: none"><li>• Maintenance Order Costs</li><li>• Actual Maintenance Cost Analysis</li></ul>	<ul style="list-style-type: none"><li>• Maintenance Planning Overview</li><li>• Maintenance Backlog Overview</li></ul>	<ul style="list-style-type: none"><li>• Resource Scheduling for Maintenance Planners</li></ul>



# SAP Cloud ERP Private differentiators

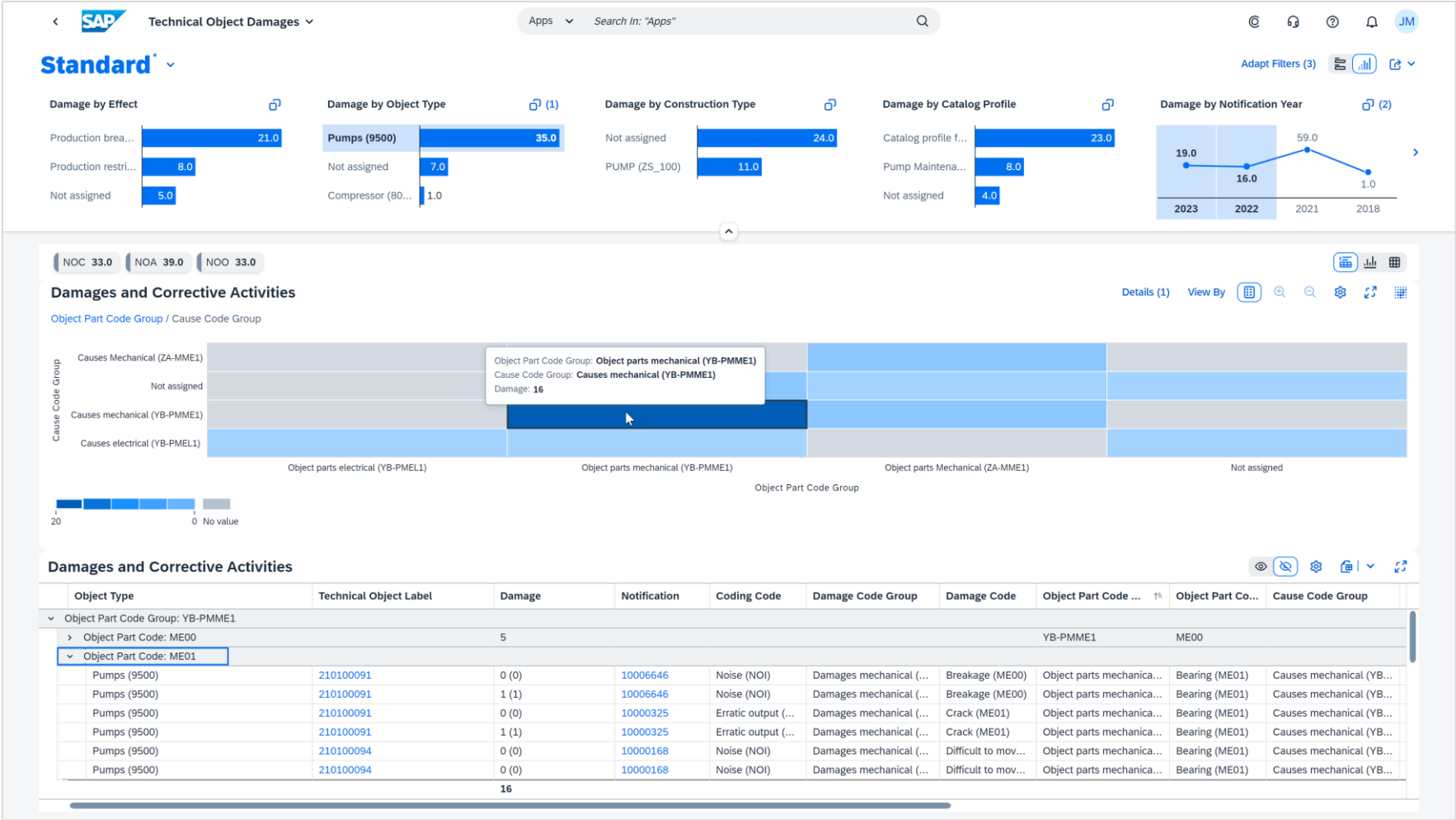
**SAP Fiori**



Technical Object Damages

- Analyze, track, and report damage incidents related to components, systems, and equipment in specific plants to review reliability of the assets.
- Identify frequent damages and their root causes by applying various filters.
- Drill down into maintenance notifications and reporting aggregated repair information

[Link to documentation](#)





# SAP Fiori

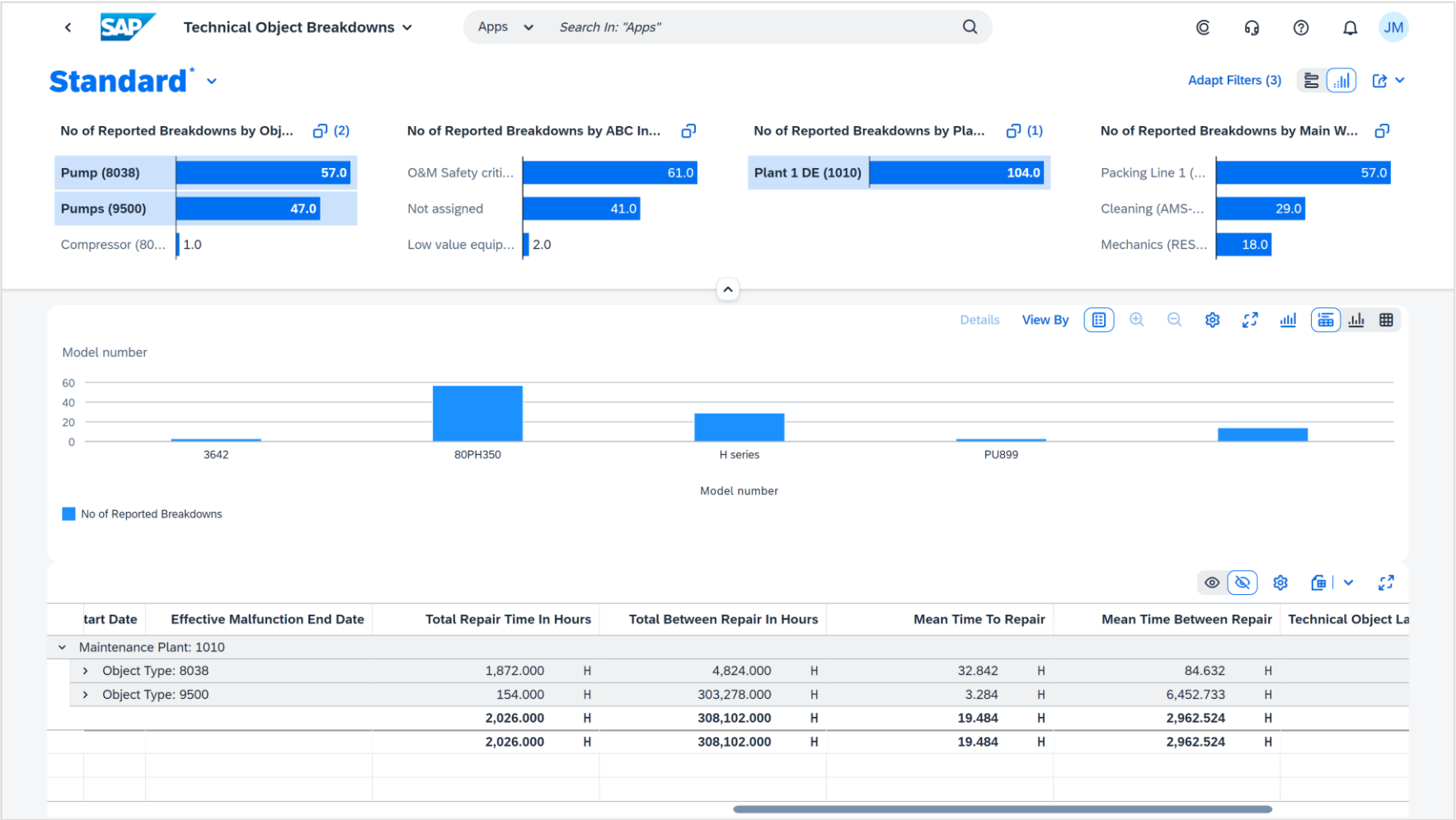


## Technical Object Breakdown Analysis

Perform historical analysis of breakdown at distinct levels, i.e., across plants and specific to an object, also from components, and subsystems to equipment.

- Time to Repair
- Time Between repair
- Mean Time to Repair
- Mean Time Between Repair.

[Link to documentation](#)

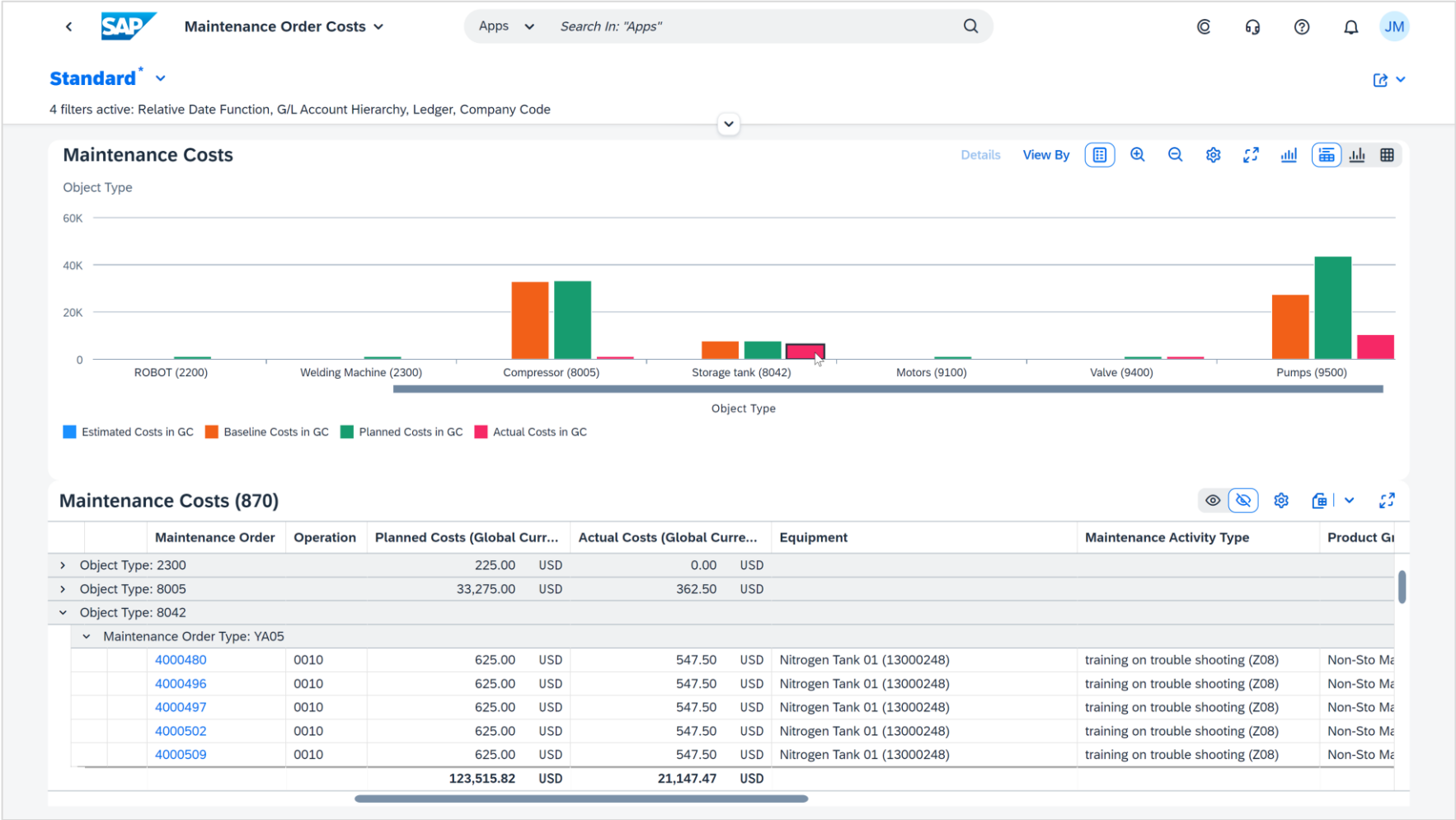




Maintenance Order Costs

- Monitor and compare estimated, baseline, planned, and actual costs from current maintenance orders.
- Analyze costs from different perspectives such as order type, responsible cost center, main work center, maintenance activity type, etc.
- Navigate directly to significant single maintenance orders for in-depth analysis.

[Link to documentation](#)



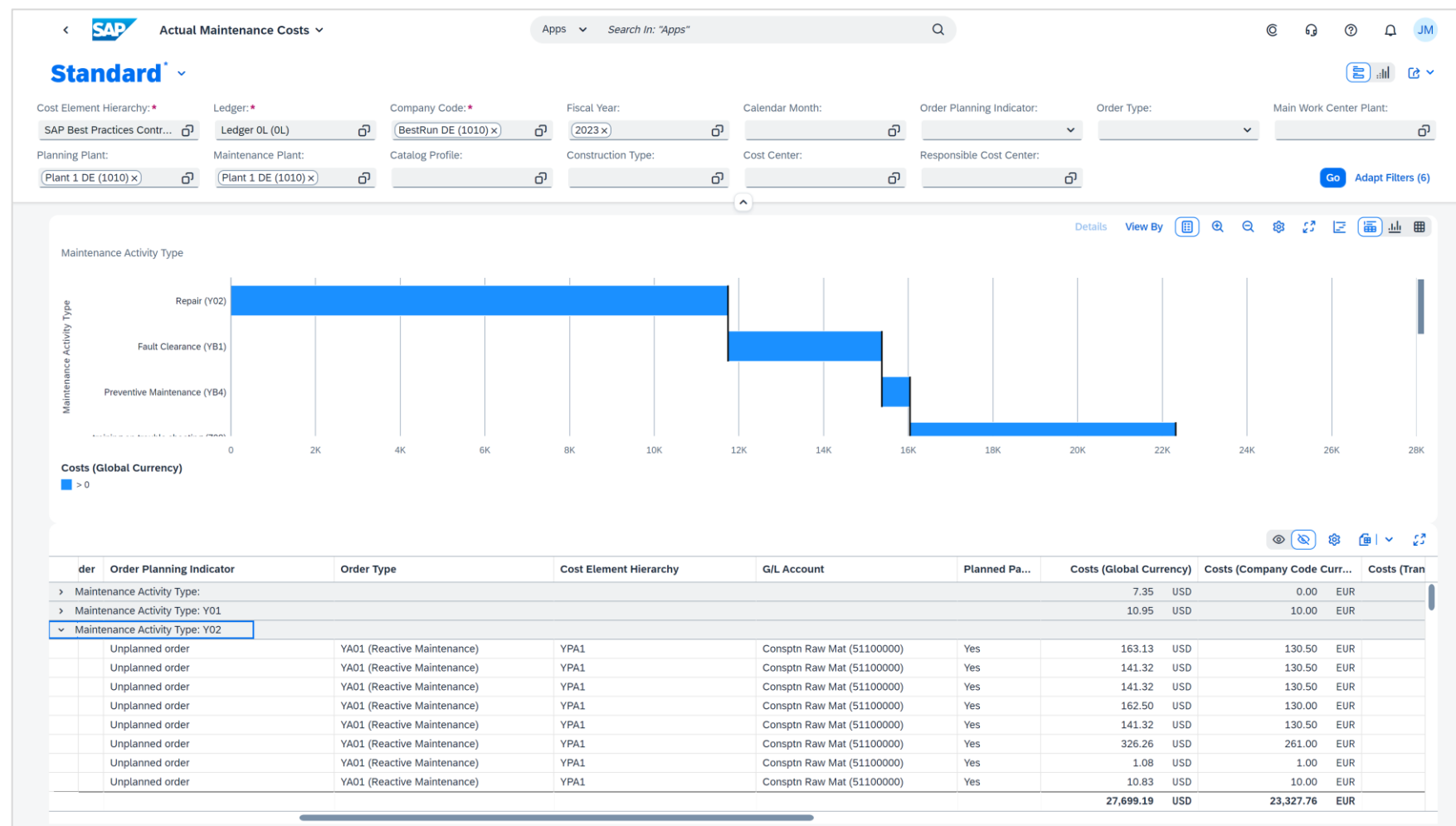


## SAP Fiori

### Actual Maintenance Cost Analysis

Monitor and analyze actual maintenance costs from current orders.

- Identify costly maintenance activities and components and parts of assets
- Compare corrective and preventive maintenance costs
- Slice the data by different dimensions such as fiscal year, order type, maintenance activity type, location, planner group, manufacturer, etc.



[Link to documentation](#)

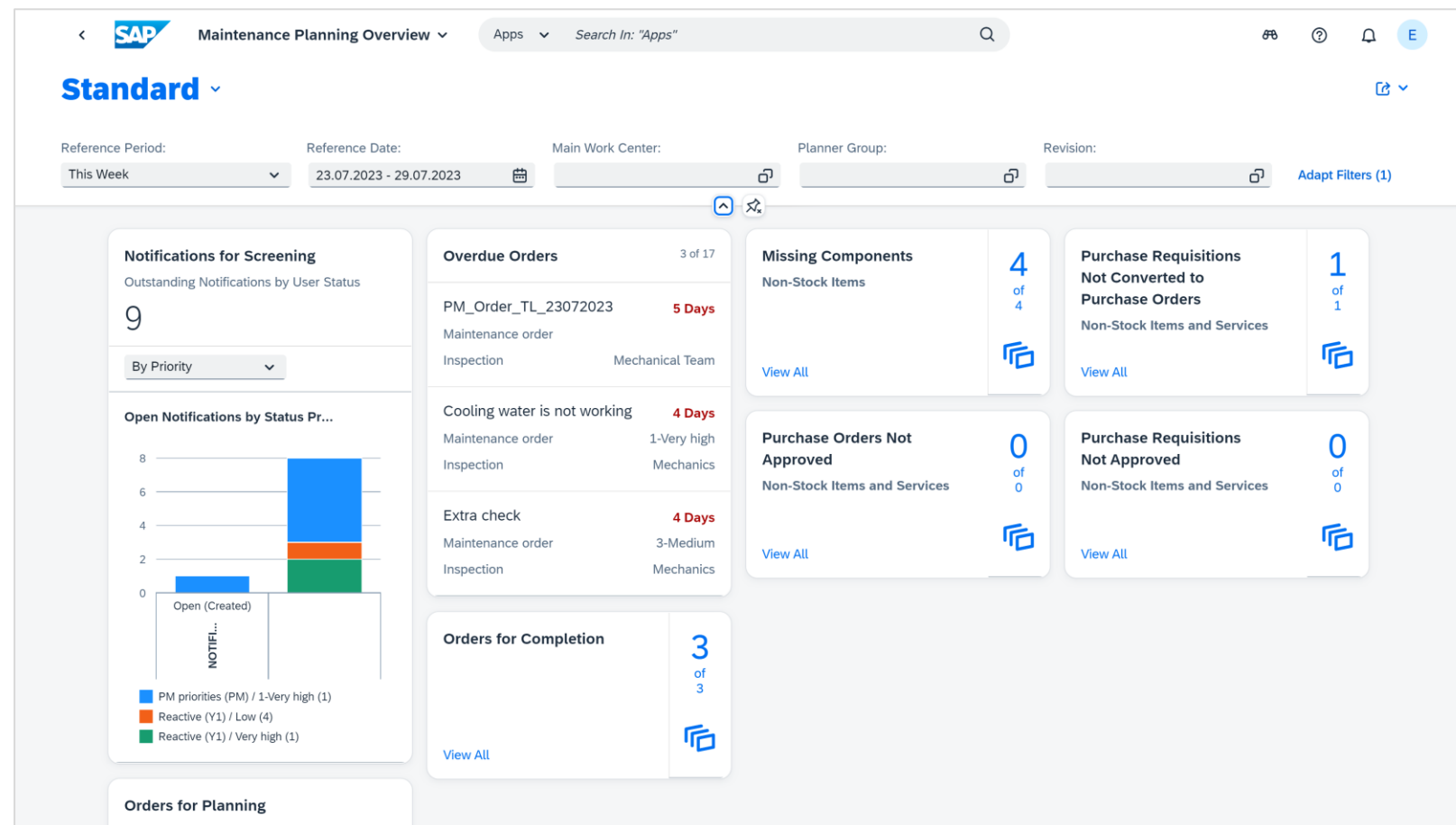


## SAP Fiori

### Maintenance Planning Overview

A dashboard designed to support maintenance planning and execution while effectively monitoring crucial, time-sensitive process.

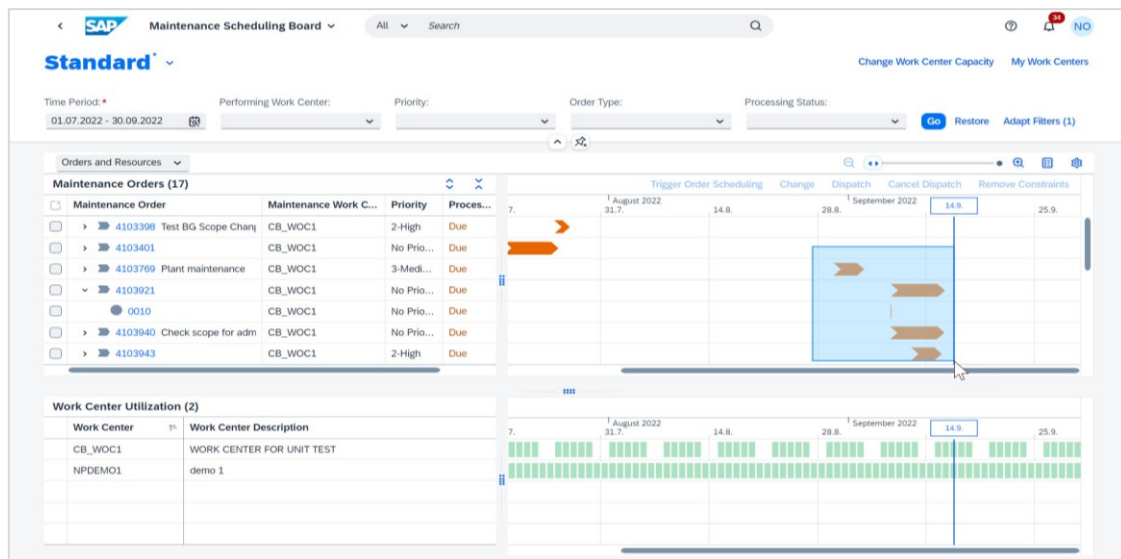
- Outstanding maintenance requests
- Overdue maintenance orders
- Missing spare parts and purchasing status
- Overdue orders and confirmation status
- Easy navigation identified documents for editing or contacting responsible persons



[Link to documentation](#)



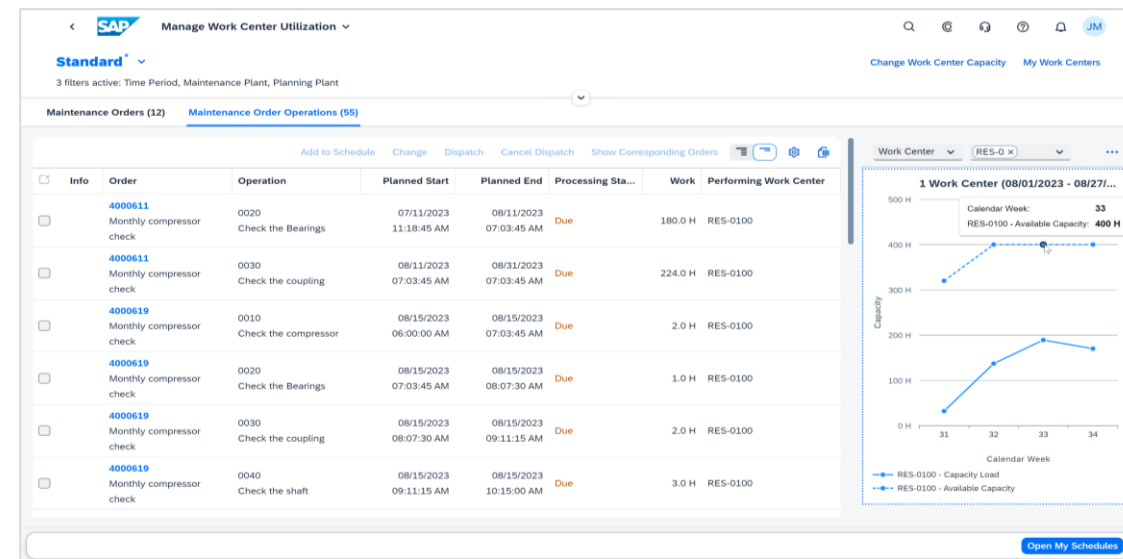
## SAP Fiori Resource scheduling



Resource scheduling provides you with insights into your maintenance workload and available capacities for current and upcoming maintenance activities.

- Gain insights into current and forecasted workloads
- Optimize the use of maintenance resources
- Reduce asset downtime and increase productivity

[Link to documentation](#)



- Check current and forecasted work center utilization, build schedules.
- Determine required capacities before dispatching the scheduled work.
- Plan which people should carry out which maintenance operations, taking into account their availability and their function at the work center.





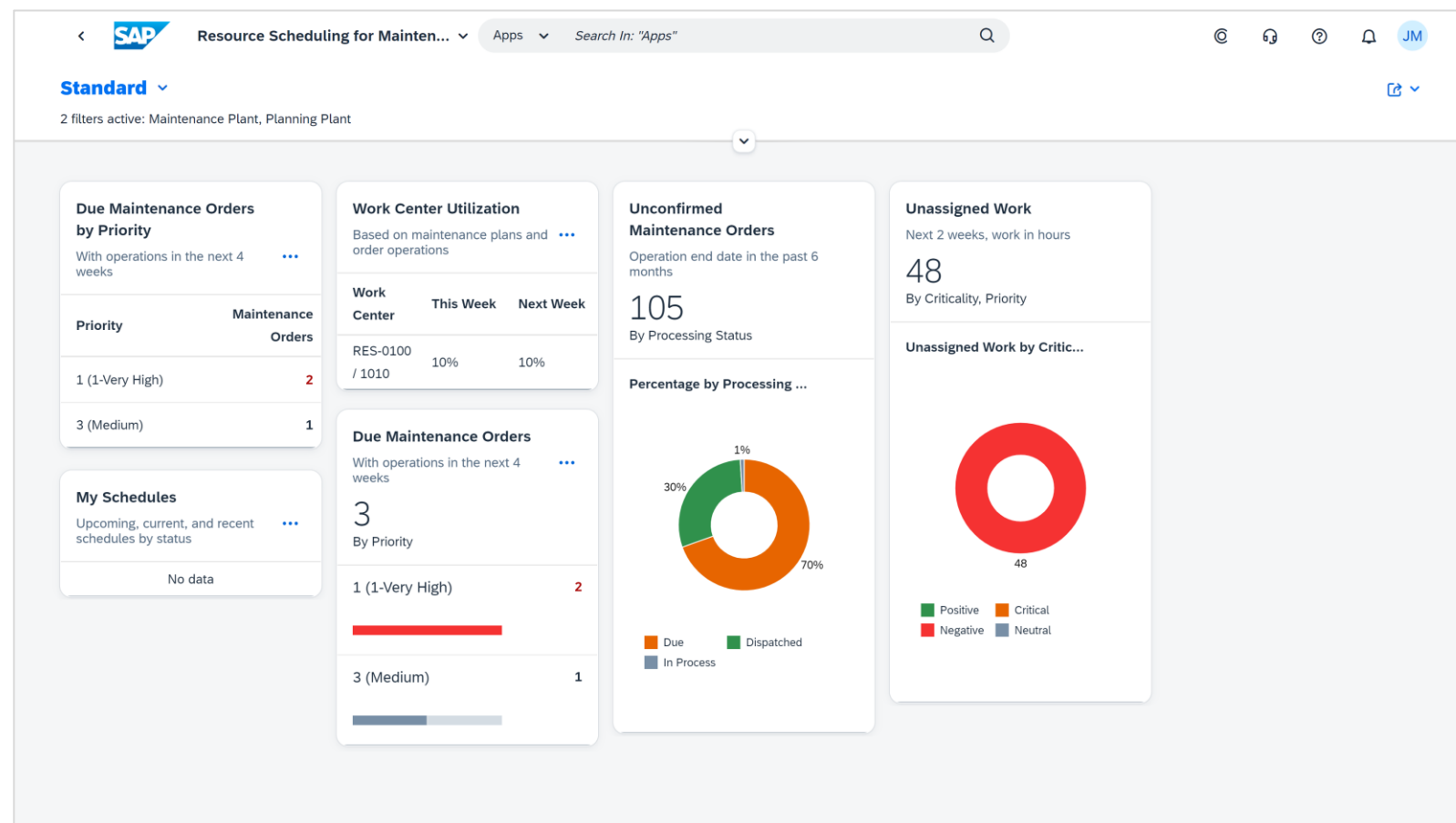
## SAP Fiori



### Resource Scheduling for Maintenance Planners

- Monitor upcoming, current, and recent schedules for work centers, including:
  - Utilization for the current and next week
  - Priority of due maintenance orders in the next four weeks
  - Unconfirmed maintenance orders planned six months ago
  - Unassigned work in work centers
- Utilize filters to graphically view specific information of interest
- Navigate to detail directly from within the dashboard to take actions and view more information

[Link to documentation](#)





## SAP Fiori



### Manage Inspection Checklists app

- This app shows an overview of inspection checklists in the Inspection Lots view, or the corresponding inspection characteristics in the Characteristics view.
- The planner can filter the result list and also perform actions, like setting the usage decision.

Inspection Lot	Activation Status	Usage Decision	Characteristics	Total Characteristi...	Order Technical Object	Maintenance Order	Order Operation
<input type="checkbox"/> EQU:10496258 (890000008150)	Activated	Adjustment required (R1)	3 6	9	Pump (Checklist) (10496258)	Checklist test w/ condition char. + calc (4410234)	Checklist test w/ condition char. + calc (0010)
<input type="checkbox"/> EQU:10496258 (890000008901)	Activated		2 1 6	9	Pump (Checklist) (10496258)	Demo Checklist (4604372)	Demo Checklist (0010)
<input type="checkbox"/> EQU:10496258 (890000009907)	Activated		9	9	Pump (Checklist) (10496258)	No Checklist should be found (4817816)	No Checklist should be found (0010)
<input type="checkbox"/> EQU:10496258 (890000010203)	Activated	Can be used (A)	8 1	9	Pump (Checklist) (10496258)	Checklist test w/ condition char. + calc (4410234)	Second: Checklist test w/ condition (0020)
<input type="checkbox"/> FL-AJ-B32-2A/1 (890000010512)	Activated	Reject with Notif+Meas+Doc+TO status cha (2020)	5 2	7	Pump (Checklist) (10496258)	Inspection with several checklists (4908654)	Inspection Operation for deactivating (0010)
<input type="checkbox"/> EQU:10496258 (890000010513)	Activated	Accept with Meas+Doc+set FLCO to TO (2015)	6 2 1	9	Pump (Checklist) (10496258)	Inspection with several checklists (4908654)	Inspection Operation for deactivating (0010)
<input type="checkbox"/> EQU:10496258 (890000011450)	Activated		9	9	Pump (Checklist) (10496258)	Checklist with Test Equipment (824879)	Inspection Operation for deactivating (0010)

Semantic object based cross-app navigation is enabled

[Blog on Expert Talk](#)

[YouTube video: Expert Talk on Inspect Checklist](#)



## SAP Fiori

### Manage Maintenance Orders

- New Fiori app that can create, edit, and display maintenance orders creating inconsistent user experience
- Display a comprehensive list view of maintenance orders, create maintenance orders and process individual orders.
- Display the document flow of a maintenance order, create a new task list, reassign components and services to a different operation, change scheduling-relevant fields of several selected maintenance orders, or cancel the system status Do Not Execute.
- Enable automated filtering based on multiple attributes embedded in a scan code

**Maintenance Order** 1954212

**The engine no longer delivers power**

**General**  
Order Type: Reactive Maintenance (YA01)  
Processing Context: Standard Order  
Notification: The engine no longer delivers power (13202395)  
Priority: 3-Medium (3)  
Final Due Date: 25.01.2025

**Reference Object**  
Technical Object: Car 1 (10518944)  
Technical Object Type: Equipment  
Assembly: SERVO MOTOR (MC-R9700)

**Status**  
Phase: Preparation  
Subphase: In Preparation (Order)  
Number of Active Phase Control Codes: 1

**Costs**  
Baseline Costs: 2,646.99  
Planned Costs: 2,646.99  
Actual Costs: 0.00  
EUR

**Order Information**  
Order Description: The engine no longer delivers power  
Maintenance Activity Type: Inspection (001)  
Planning Indicator: Immediate order  
Notification: The engine no longer delivers power (13202395)

**Detailed Description**  
Long Text: Joule(AI) generated longtext. The following is a detailed error description (13202395).  
Engine Malfunction Overview: The vehicle's engine has ceased to function. Engine failure detected during routine operation.  
Symptoms and Observations: Engine refuses to start or turns over but fails to start.

**Operations (3) Standard**

Oper...	Suboperation	Operation Description
<input type="checkbox"/>	0010	Operation from Task List
<input type="checkbox"/>	0015	Additional operation
<input type="checkbox"/>	0020	Operation for Final check

**Resources**  
By Operation: All Operations

Component	Description
SP001	Spare Part 001 (EN)
SP002	Special Part 2
SP002	Spare Part 002

**Operation from Task List** 0010

**General and Dates**  
Control Key: Plant maintenance - Internal (PM01)  
Execution Stage: MAIN  
Notification: The engine no longer delivers power (13202395)  
Earliest Start: 22.01.2025, 11:00:00  
Earliest Finish: 22.01.2025, 17:00:00  
Forecast Finish: --

**Reference Object**  
Technical Object: Car 1 (10518944)  
Technical Object Type: --  
Assembly: --  
Active Phase Control Codes: 0

**Status**  
Phase: Preparation  
Subphase: In Preparation  
Number of Active Phase Control Codes: 0

**Operation Details**  
Operation Information  
Operation / Suboperation: 0010 / --  
Operation Description: Operation from Task List  
Execution Stage: MAIN  
Control Key: Plant maintenance - Internal (PM01)  
Maintenance Activity Type: --  
Activity Type: labor (HR00)

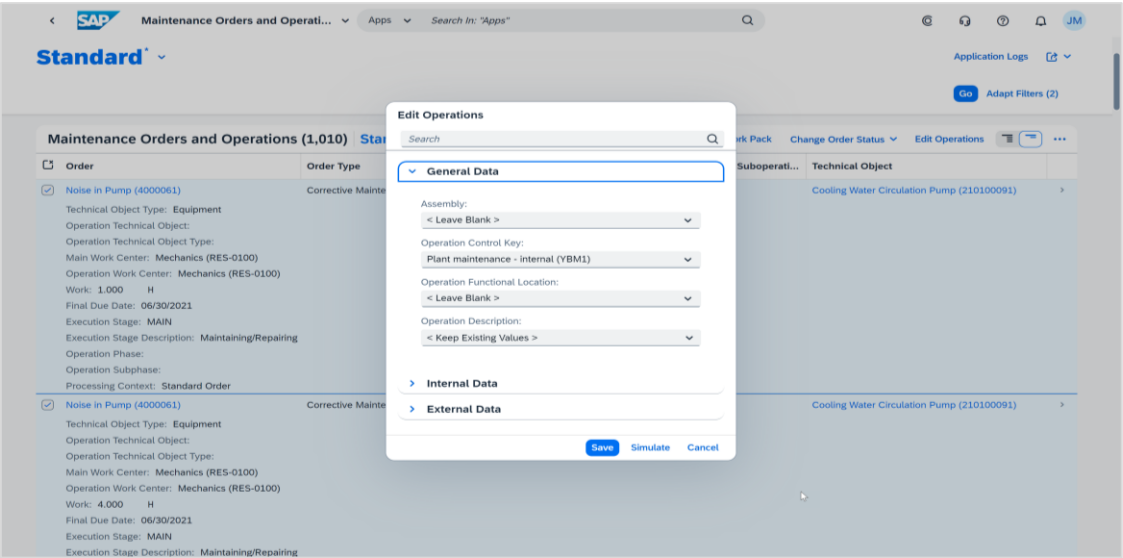


FLocSTB2-  
TAG\tauAUFNR200402\tauARBPL  
STB-Mt

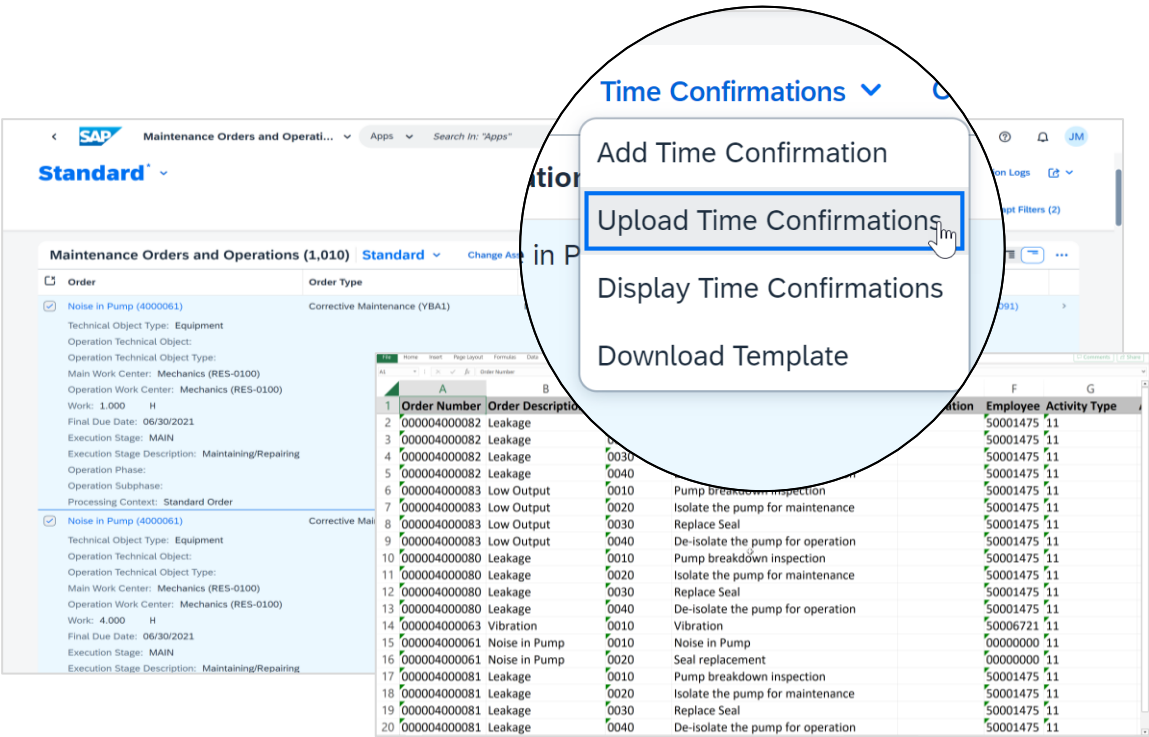


# SAP Fiori

## Mass Editing – Maintenance Order and Operation



Select one or more order operations and change the work center, the work center plant, and the person responsible to which these order operations are assigned



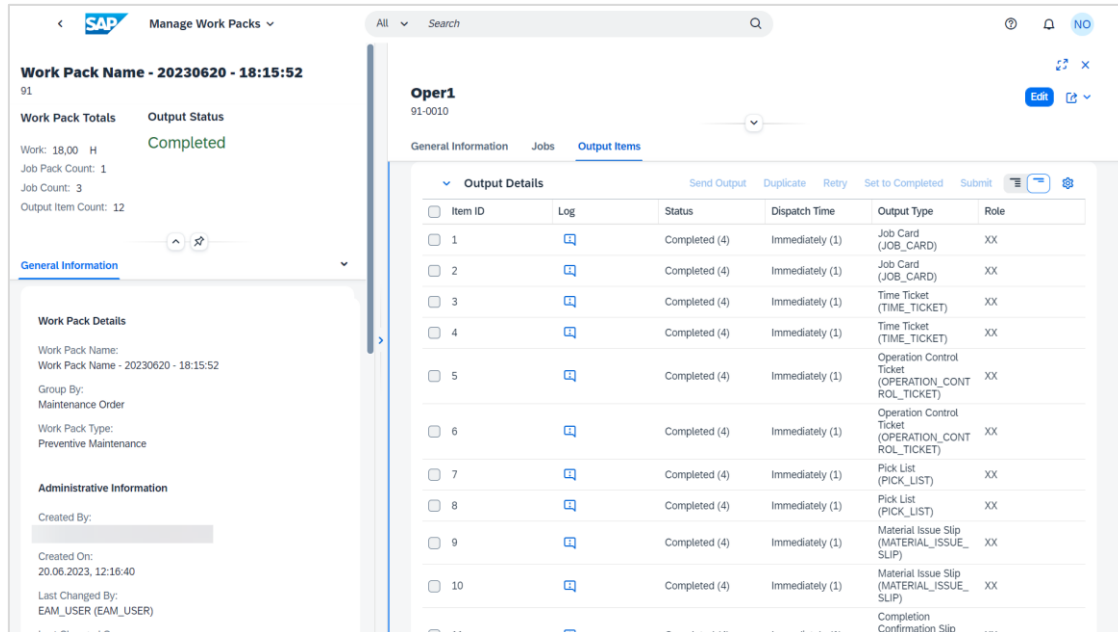
Download a template to record collective time confirmations.

[Link to documentation](#)



## SAP Fiori

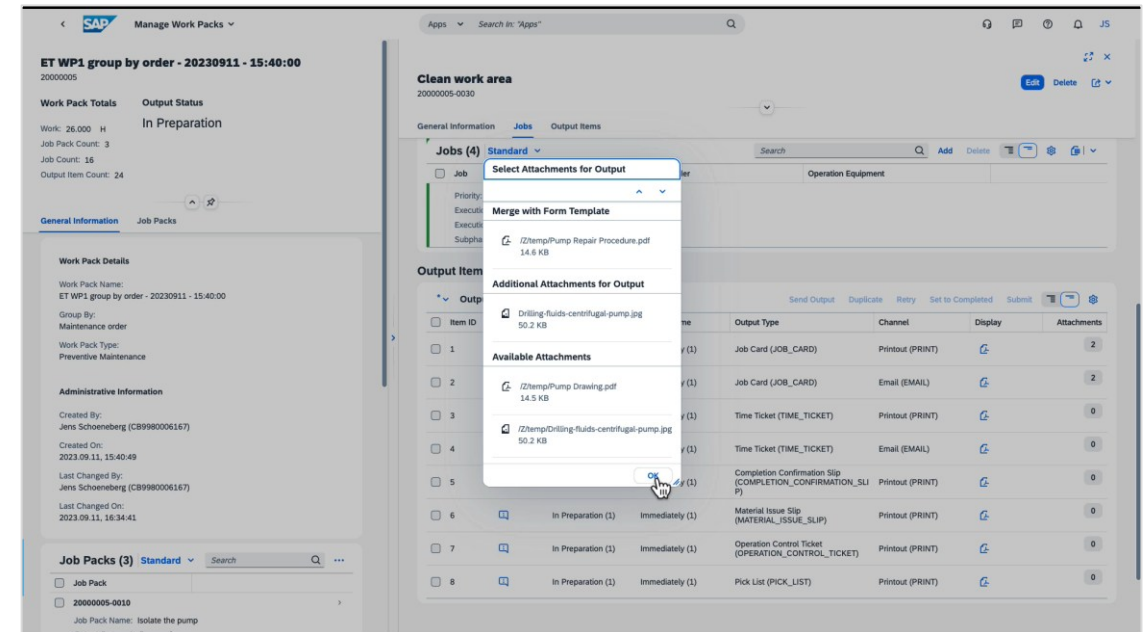
### Mass Editing – Collective Output / Print-Out for Orders and Attachments with Work Packs



Print job cards, etc. for multiple maintenance orders in one go

- For a team of maintenance technicians
- For a specific time period

[Link to documentation](#)



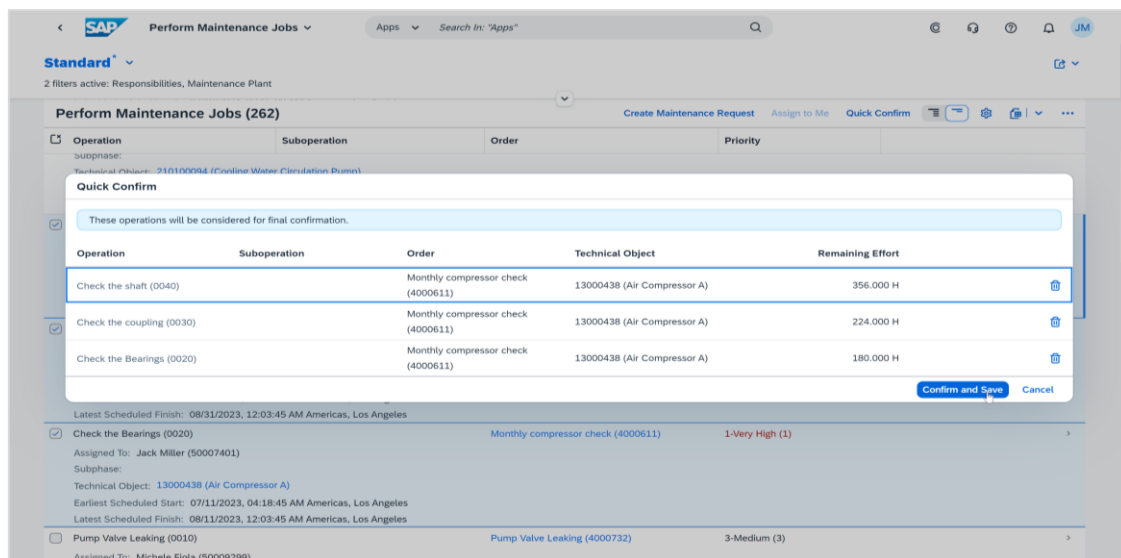
Group the printout by different criteria

- By work center
- By maintenance technician
- By technical object being maintained / repaired

Include attachments as part of the printout



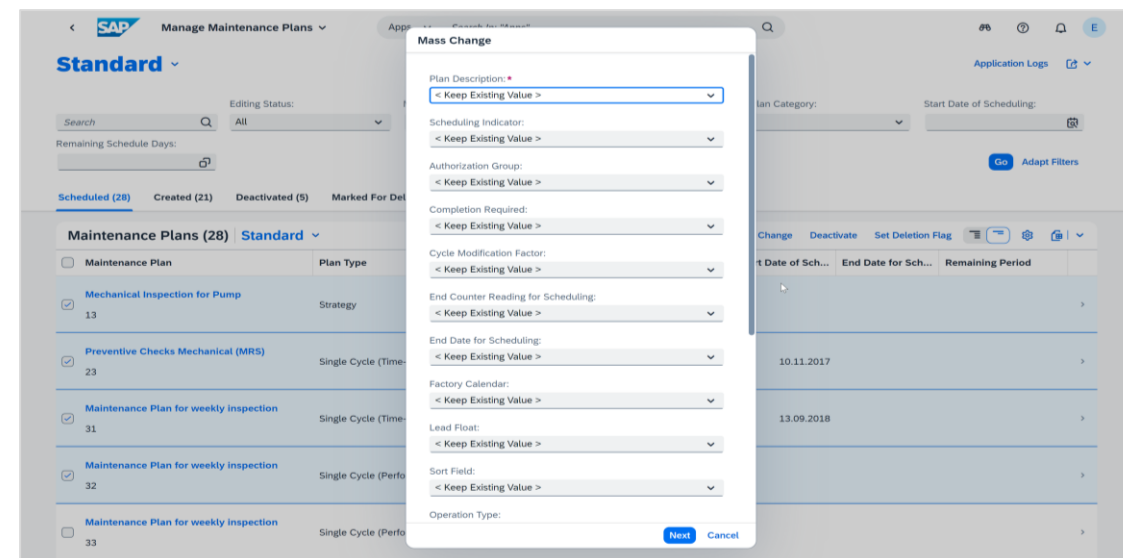
## SAP Fiori Mass Editing – In Other Apps



### Quick Confirm with Perform Maintenance Jobs App

Complete confirmation of one or more jobs from the list page without navigating to the details page. In this process, the effort planned for a job is automatically considered as the final effort except for jobs with system status PCNF (Partially Confirmed). For partially confirmed jobs, remaining efforts are considered.

[Link to documentation](#)



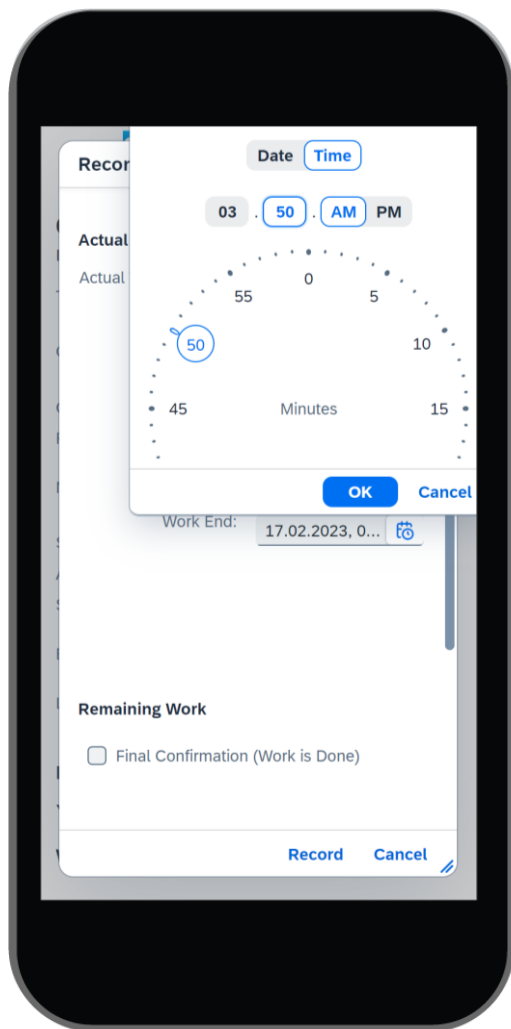
### Mass Editing of Maintenance Plans with Manage Maintenance Plans App

Change the parameters such as scheduling indicator, authorization group, cycle modification factor, and so on for multiple plans at once. Using a simulation option, you can check the correctness of data in the application log.

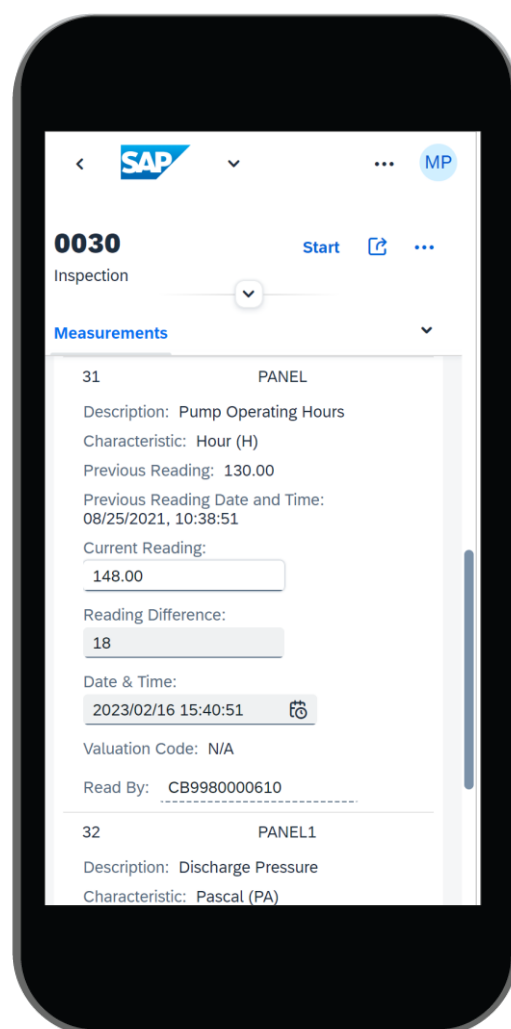
[Link to documentation](#)



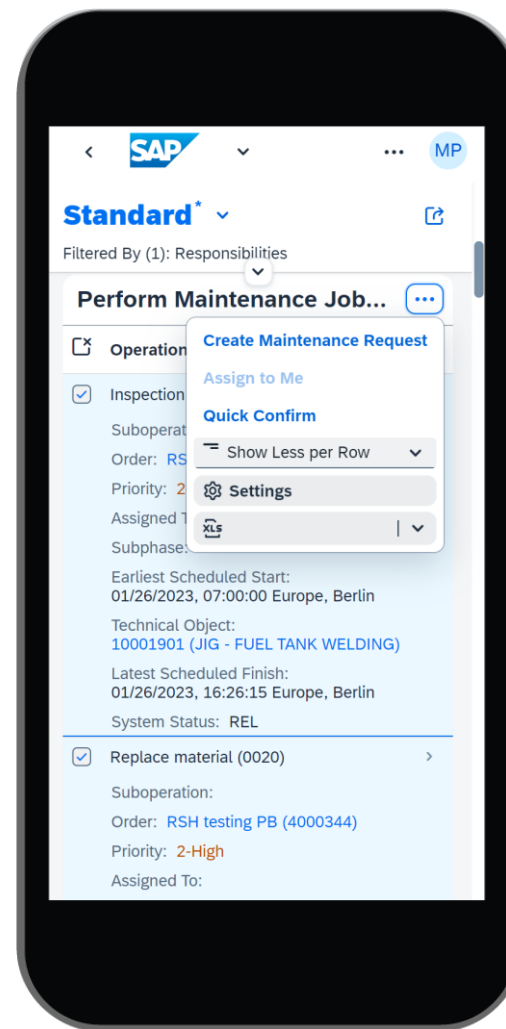
## SAP Fiori Mobile Job Confirmation Updates



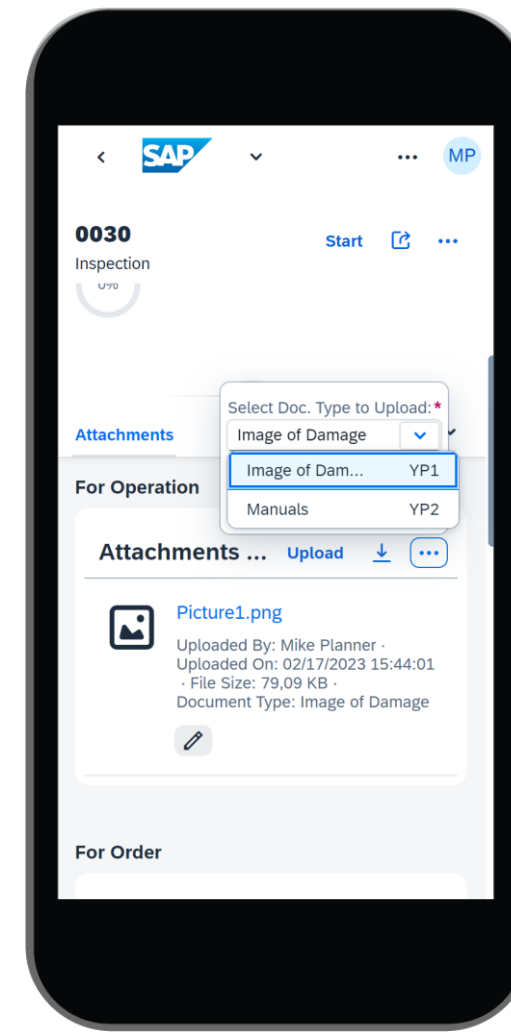
Intuitive time recording for a job



Record measurements on site



Quick confirm for multiple jobs from the list



Upload pictures from the camera



# SAP Cloud ERP Private differentiators

**Joule**






[Perform Maintenance Jobs](#)

[Display Maintenance Orders and Maintenance Notifications](#)

[Create and View Maintenance Events](#)

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Maintenance Planning ▾

Maintenance Execution

To-Dos ▾

Tasks (2)

Situations (0)

Write to Owner US00017082.

Medium Priority

Created By: SAP\_WFRT

Task created 1 hr. ago


Edit maintenance notification 10000340 / M1

Medium Priority

Created By: SAP\_WFRT

Task created 5 yr. ago

News ▾



Sales

Discover the new features and changes in this release

Pages ▾

Explorer

New Connection with Compatible Units

Overview

Inspection Checklists

Upcoming Maintenance E...

Today 11:29 AM

Show Upcoming Maintenance Events

Maintenance Events

Period: 2025-10-19 to 2026-01-19

6 of 14

Maintenance Event: 00000012

Planning Bucket: Electrical Line (PLANNEDOUTAGE)

Planning Plant : US01

Event Start : 2025-11-12 20:00

Event End : 2025-11-19 20:00

Maintenance Event: EVENT\_01

Planning Bucket: Shutdown DEC'2025 (EVENT\_01\_SD)

Planning Plant : US01

Event Start : 2025-11-12 20:00

Message Joule...

Joule uses AI. Verify results.



## SAP Cloud ERP Private differentiators

**Joule Agents**



## Joule Agent for Maintenance Planner\*

Collaborating with the maintenance planner, the agent continuously analyzes real-time data and suggests maintenance schedule adjustments, reprioritizing tasks and improving asset health

Joule uses details from the technical object to **create** the corresponding **maintenance planning bucket** and the **maintenance event**

Show upcoming maintenance events with already **assigned maintenance orders and notifications** and enable the planners to assign maintenance orders and notifications to a maintenance event

Check for **available slots in production planning** and ensure that capacities for production work centers are blocked for any new operations that may be suggested

Discovery Center

Joule

Today 8:00 AM

Can you create me one more Event for my Cooling Tower#02 in June?

LM - Large Maintenance

Details

Involved Technical Objects:  
1010-CWS-CTW-CTW02

Proposed Start Date/Time:  
06.06.2025 06:00 a.m

Proposed End Date/Time:  
30.06.2025, 05:00 p.m.

Outstanding Maintenance Notifications to be added:  
56

Outstanding Orders to be added:  
120

Estimated Asset Downtime Time:  
355 H

Estimated Costs:  
78.600 USD

Planning Bucket  
Creation

Joule

1010-CWS

Proposed Start Date/Time:  
06.06.2025 06:00 a.m

Proposed End Date/Time:  
30.06.2025, 05:00 p.m.

Outstanding Maintenance Notifications to be added:  
56

Outstanding Orders to be added:  
120

Estimated Asset Downtime Time:  
355 H

Estimated Costs:  
78.600 USD

Here are some actions I would recommend:

1. Check for Upcoming Maintenance Plan Calls
2. Check for Tools/Non-Stock Materials/Services used in a similar Event

Please execute the recommended steps

Check for Upcoming Maintenance Plan Calls...

Assign  
Notifications/Orders to  
Planning Bucket

Joule

Here are some actions I would recommend:

1. Prepone Proactive Maintenance Activities to include them into the event
2. Create Purchase Requisition for the supplier
3. Reschedule the Event if needed

Please execute the recommended steps

Here is the information

Updated Event Information

Details

Added Maintenance Orders:  
12

Purchase Requisition created:  
10000087

New Start Date/Time:  
06.06.2025 06:00 a.m.

New End Date/Time:  
08.07.2025, 05:00 p.m.

Checking for  
available slots in  
production planning



# SAP Cloud ERP Private differentiators

**SAP Business AI**



## Intelligent technologies

### AI-assisted maintenance order recommendation

Let AI recommend maintenance orders that solved similar incidents from maintenance history. Select one to copy to create a new maintenance order.

- Minimize disruptions of inadequate planning and execution by analyzing and learning from past data that align with best practices with a higher likelihood of success
- Improve efficiency by leveraging historical data from maintenance orders and maintenance notifications to provide planners with templates for resolving new maintenance requests
- Reduce the time to plan a maintenance order by providing a maintenance order recommendation feature with self-learning capabilities

The screenshot shows the SAP 'Maintenance Notifications and Orders' interface. A 'Create Order' dialog is open, displaying AI recommendations for maintenance orders. The dialog includes fields for 'Maintenance Order Type' (set to 'Reactive Maintenance (YA01)'), 'Plant Description (ID)', and 'Copy from Order'. Below these fields, a 'Recommendations (6)' section shows three suggested orders:

Recommendation	Matching Score	Technical Object (ID)
Best Match: Copy from Order 4000012	9.5 / 10	Technical Object Description (ID)
Alternative: Copy from Order 3092819	8.5 / 10	Technical Object Description (ID)
Alternative: Copy from Order 4000234	8.0 / 10	Technical Object Description (ID)

Each recommendation includes a 'Copy from Order' field and a 'Selection' button. The background shows a list of maintenance notifications with columns for 'Execution Object Type', 'Execution Object', and 'Technical Object'.



# SAP Cloud ERP Private differentiators


**Situation Handling**

Some examples:

[Maintenance plan is created or changed](#)

[Maintenance item is created, assigned, or changed](#)

[Maintenance task list is created or changed](#)

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My Home

Processes and Flows ▾

Business Catalogs and Groups

To-Dos (23) ▾

🔄 now

Show More

Asset with class 2000 cc US10\_PLC desc Demo cc 1710 needs approval for creation

Medium Priority

Created By: SAP\_WFRT

Task created 2 mo. ago

Asset with class 2000 cc US10\_PLC desc Demo cc 1710 needs approval for creation

Medium Priority

Created By: SAP\_WFRT

Task created 2 mo. ago

Asset with class 2000 cc US10\_PLC desc DEMO1 cc 1710 needs approval for creation

Medium Priority

Created By: SAP\_WFRT

Task created 2 mo. ago


Asset with class 2000 cc US10\_PLC desc DEMO1 cc 1710 needs approval for creation

Medium Priority

Created By: SAP\_WFRT

Task created 2 mo. ago

News ▾



BestRun Tops consumer Report rankings

BestRun Tops consumer Report rankings

Pages ▾

📄

Business Catalogs and Groups

📄

Master Data  
Processes and Flows

📄

Asset Accounting - Workflow  
Processes and Flows

📄

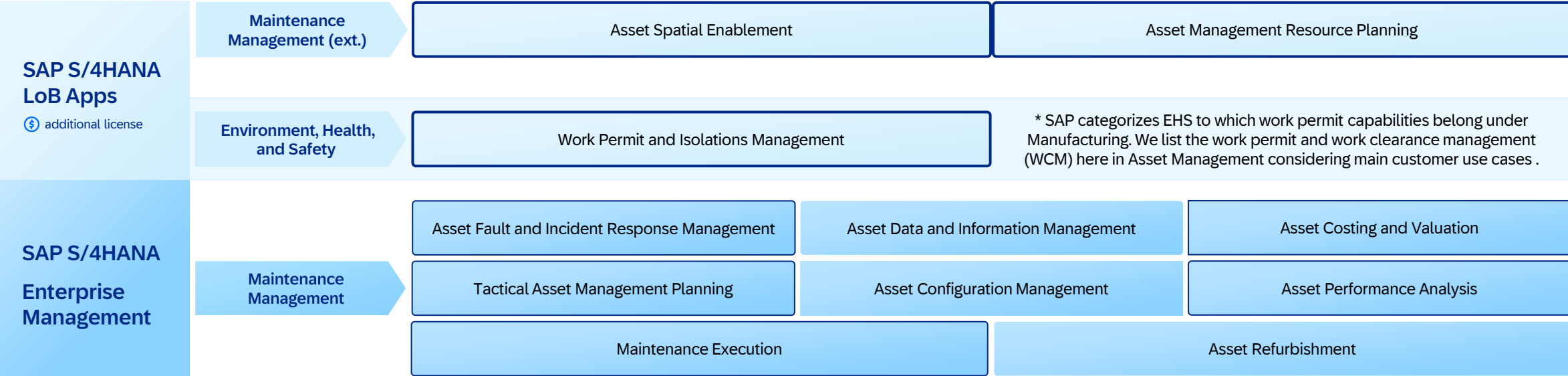
Asset Revaluation  
Processes and Flows

Blog series Situations Handling



# Updated Business Processes and Functionalities

## Business Area and Business Capability Overview



Updated business capabilities in SAP S/4HANA

\* SAP categorizes the business capabilities of Environment, Health, and Safety under the manufacturing line of business; however, the business processes related to work permit are often discussed in the context of asset management and thus shown here.



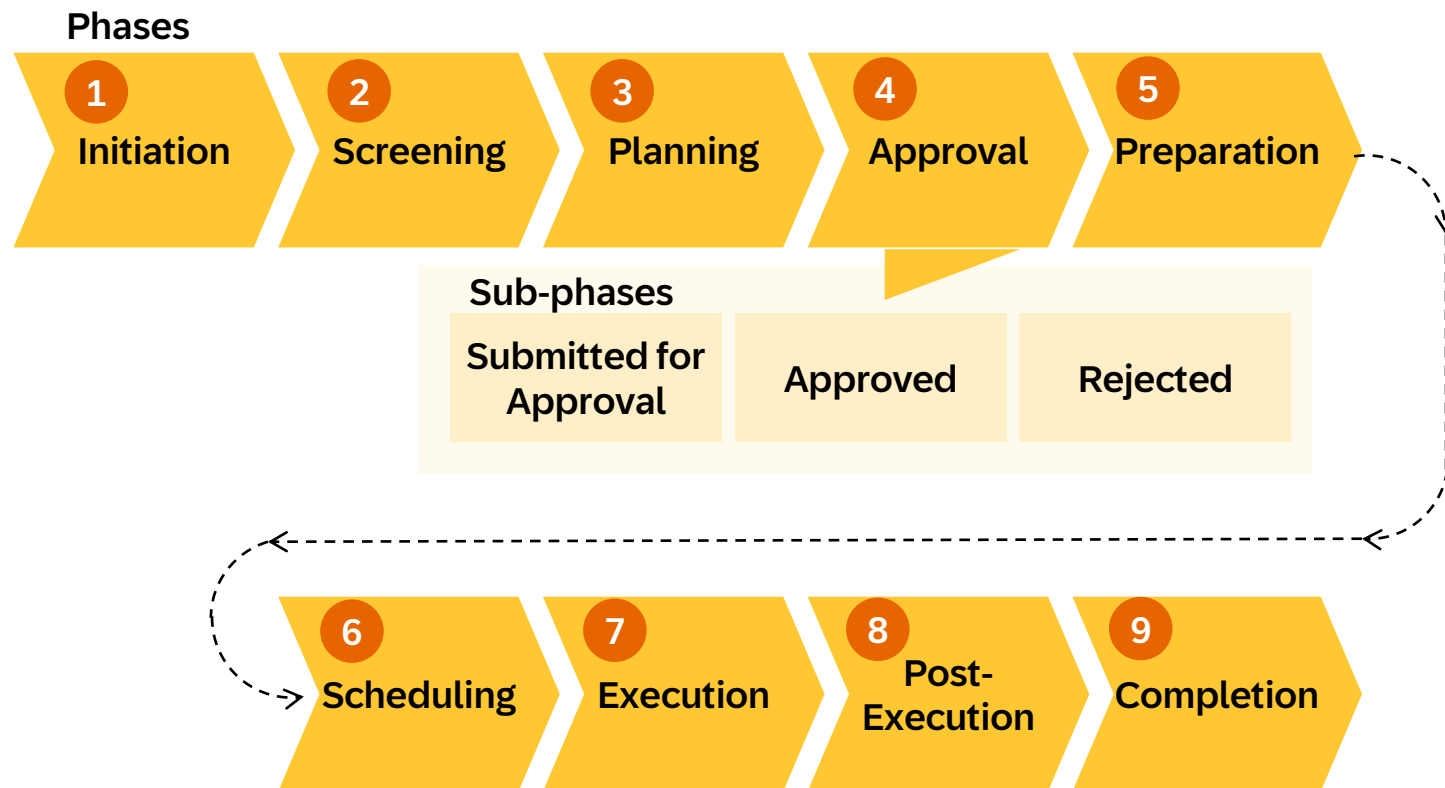


## Updated Business Processes and Functionalities

### Maintenance Management

#### Phase-Based Maintenance Process

- No need for end users to memorize complex system statuses – NOCO, OSNO, TECO, etc.
- Monitoring backlogs across its life cycle is crucial to effectively resolve asset failure, mitigate safety issues, and ultimately help prevent unplanned downtime.
- Phase model unifies monitoring steps for various types of maintenance backlogs.
- Unified monitoring process helps in identifying root cause of any process inefficiencies in maintenance execution.
- Improve reliability of enterprise assets by using standard content and Fiori apps from SAP for continuous improvements in planning and execution of various maintenance activities



[Link to documentation](#)



## Updated Business Processes and Functionalities

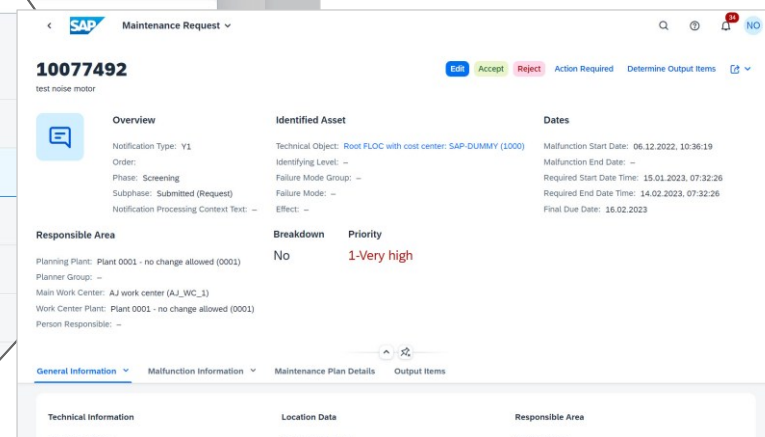
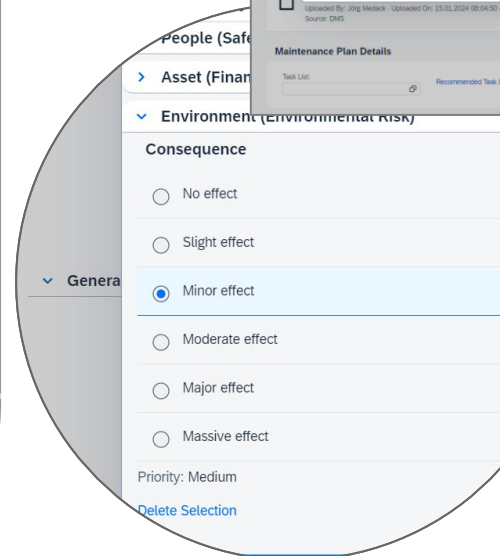
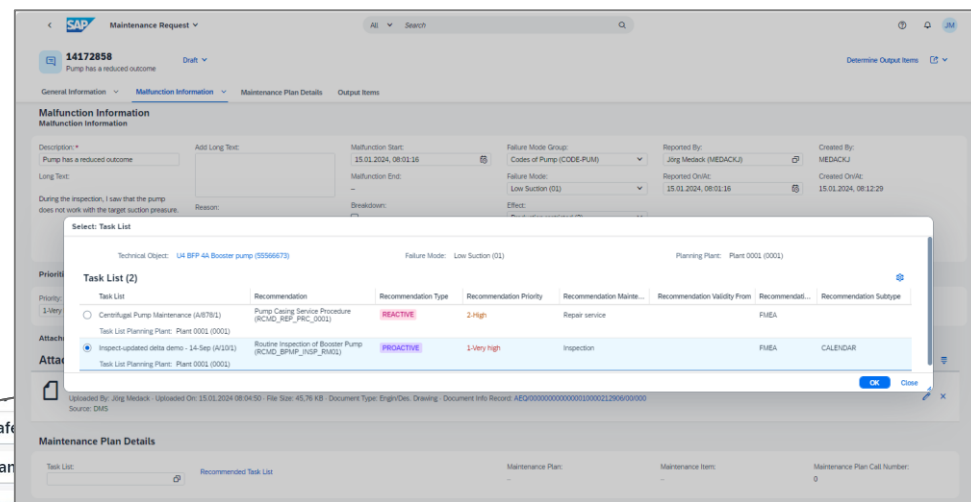
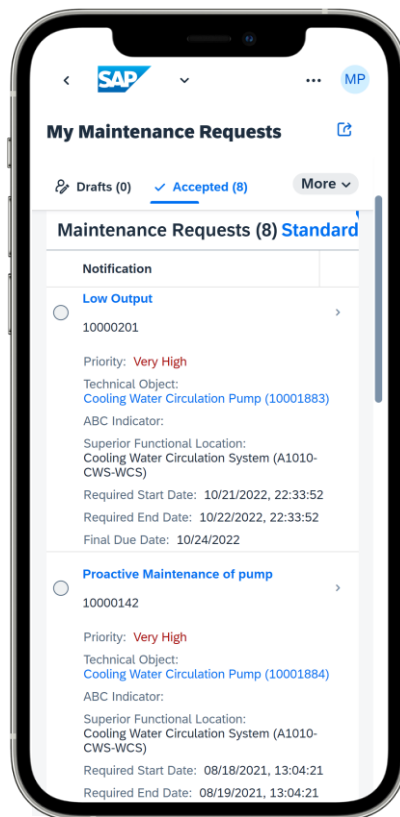
### Asset Fault Response Management

#### Risk Assessment

- You can include a risk-based assessment of the priority of work request by evaluating expected consequences of failure and their likelihood.

#### Screening

- Maintenance supervisors / planners can review maintenance requests and edit details. You can return a maintenance request to the initiator for additional information. You can proceed to the next phase by accepting the request.
- While screening maintenance requests, supervisors can use the recommendations from APM to select a task list.



[Link to documentation](#)



## Updated Business Processes and Functionalities

### Tactical Asset Planning

#### Manage Workflows, Teams, and Responsibilities

- You can initiate an approval process and manage the approval workflow for maintenance orders. As a configuration expert, you can configure workflows to optimize the approval process for maintenance orders.
- Dynamic Start Conditions
- Setup Approval Rules without programming skills
- N-step Approval
- Separated Approval Workflows for different planning plants / planning groups
- Dynamic Approver Determination



The screenshot displays the SAP Maintenance Notifications and Orders (MAINT) interface. A circular callout highlights the details of a maintenance order, including the location, required start and end dates, final due date, associated work order number, and subphase. The interface also shows the technical object details and the order type.

**Maintenance Order Details:**

- Location: 1950721
- Required Start Date: 08.05.2022
- Required End Date: 09.05.2022
- Final Due Date:
- Associated With: 10068556
- Subphase: Submitted for Approval (Order)

**Technical Object Details:**

- Technical Object: Centrifugal Pump at Thane Plant (10262814)
- Order Type: 10262858

**Order Type: 10262858**

[Link to documentation](#)



## Updated Business Processes and Functionalities

### Tactical Asset Planning

#### Maintenance Planning Buckets and Backlog

- By defining maintenance planning buckets, you can divide the maintenance effort into manageable groups based on their scope
- The scope of a planning bucket includes time, but also other important attributes of the maintenance jobs such as the planner group
- Based on this scope, the system groups maintenance orders and assigns them to the corresponding planning buckets



**Manage Maintenance Backlog**

PUMP\_1710\_W39  
Pump Improvement Project

Orders | Stock Components | Non-Stock Components | Services | Resources

Stock Components (8) | All Orders | Orders in Preparation | Keep Committed Qua...

Order	Status	Operat...	Component Details	Operation Description
Improvement Pump 1 (4000281)	Green	0010 MAIN	Mechanical Seal (SP005) Spare Parts (ERSA)	Check the pump
	Green	0020 MAIN	Bearing (SP001) Spare Parts (ERSA)	Extend the pipes
	Green	0030 MAIN	Coupling (SP002) Spare Parts (ERSA)	Check the coupling
	Red	0040 MAIN	Shaft (SP003) Spare Parts (ERSA)	Check the shaft
Improvement Pump 2 (4000282)	Green	0010 MAIN	Mechanical Seal (SP005) Spare Parts (ERSA)	Check the pump
	Green	0020 MAIN	Bearing (SP001) Spare Parts (ERSA)	

**Manage Maintenance Planning Buckets**

Standard | End Date and Time: | Buckets (50) | Process Event Type: | Adapt Filters (2)

Maintenance Planning	Week	Year	Remaining ...	Start Date and ...
FL WEEKLY PLANNING_08_2025	8	2025	100%	23.02.2025, 06:00:00
FL BP WEEKLY PLANNING_08_2025	8	2025	100%	21.02.2025, 06:00:00
FL WEEKLY PLANNING_07_2025	7	2025	71.4%	16.02.2025, 06:00:00
FL BP WEEKLY PLANNING_06_2025	7	2025	42.9%	14.02.2025, 06:00:00
FL BP WEEKLY PLANNING_06_2025	2025		0%	09.02.2025, 06:00:00

**Maintenance Planning Bucket**

Month-end inspection  
20250228-021W (Month-end inspection)

Time Period | Type | Status | Created

Maintenance Event:  
Month-end inspection (00000043)

**Execution Objects**

Notifications and Orders (3) | Standard

Execution Object Type	Execution Object
Maintenance Order	Monthly Pump Main
Maintenance Order	Monthly Pump Main
Maintenance Order	Monthly Pump M

**Status**

Created | Notifications: 0 | Orders: 3 | Total: 3

**System Status**

Priority	Associated Notification	Main Work Center
D-Very Low	10062920	EAM CAPA Check (EAM_CAPA)
D-Very Low	10062921	EAM CAPA Check (EAM_CAPA)
D-Very Low	10062922	EAM CAPA Check (EAM_CAPA)

[Link to documentation](#)

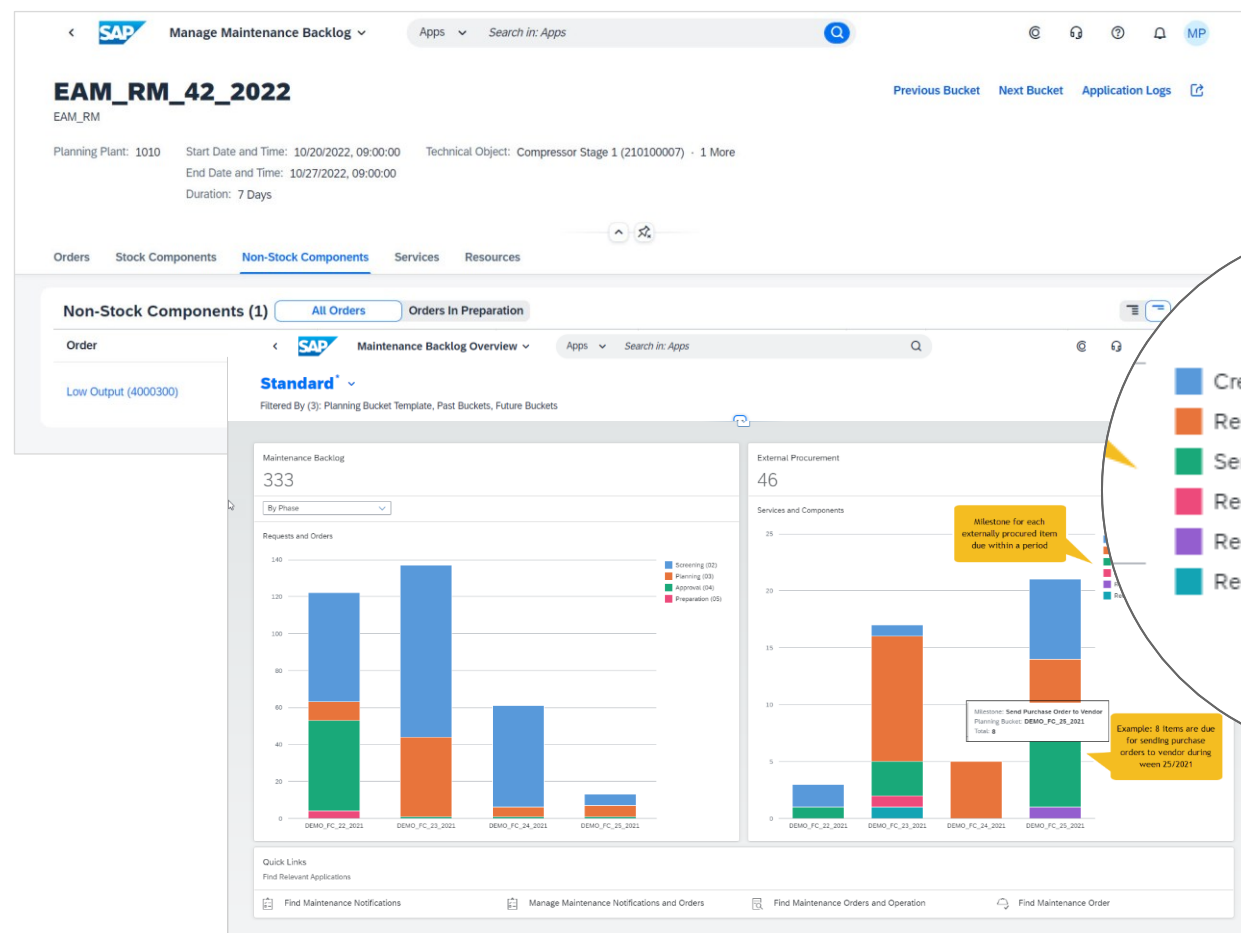


## Updated Business Processes and Functionalities

### Tactical Asset Planning

#### Maintenance Backlog Overview & Procurement Milestone

- You can use this Maintenance Backlog to monitor the procurement of non-stock materials and services by means of procurement milestones.
- The completion of some milestones depends on changes in the purchase order and posting of the goods receipt for non-stock components.



- Create Purchase Requisition
- Release Purchase Requisition
- Send Purchase Order to Vendor
- Receive Purchase Order Confirmation
- Receive Shipment Confirmation
- Receive Delivery

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Tactical Asset Planning

### Recommendations from Asset Performance Management

Maintenance tasks lists and maintenance items are enhanced by the related recommendations from the reliability engineers working in APM. Below is an example screen from a maintenance task list.



Navigation to APM

Documentation for the failure mode

Information of recommendations assigned to the task list

Overview of the failure mode

The screenshot displays the SAP Maintenance Task Lists interface. On the left, a sidebar shows 'Recommendations (11)' with a table listing tasks like 'RCMD\_10162405' and 'RCMD\_10162406'. The main area is titled 'Routine Inspection of Booster Pump' and includes tabs for 'General Information' and 'Failure Modes'. The 'General Information' tab shows details like 'Recommendation: Routine Inspection of Booster Pump (RCMD\_BPMP\_INSP\_RM01)' and 'Priority: 1-Very High'. The 'Failure Modes' tab shows a table with 'Failure Mode' and 'Code Group'. On the right, a sidebar shows 'Attachments (1)' with a document titled 'Low Suction (Failure Mode) - Noise (Failure Effect)'.

[Link to documentation](#)

Maintenance Task Lists





# Updated Business Processes and Functionalities

## Tactical Asset Planning

### Recommendations from Asset Performance Management

Providing a new section for the Asset Performance integration for:

- Recommendations
- Indicators
- Assessments



Indicators table will show the S/4 measuring points as well as the APM local created indicators

Semantic object navigation to APM “Explore Technical Objects” to review the indicators

Showing assigned APM assessments to the technical object

10554621

Lubrication Centrifugal Pump

Category: Machines (M)

Type: Pump

Class: Checklist-Class for Equipment (CHL\_EQUIPMENT)

System Status: FLCO INST

User Status: --

Object Overview

R&C Assessment

Original Files: 1

Open Checklists: 47

Service Contracts

Maintenance Items

Maintenance Items for Service

History

Asset Performance

Original Files

Classification

Recommendations (3)

Recommendation	Long Description	Type	Priority	Status
Pump overhaul (PUMP_OVERHAUL)	Repair and overhaul activities to get the pump in a better operational condition.	Proactive	3-Medium (3)	Implemented
Pump: Maintenance emergency inspection (PUMP_EMERGENCY_INSPECTION)	Get fast technical insights by using an emergency inspection checklist.	Reactive	2-High (2)	Implemented
Full detailed inspections (MPI_RCD_MPI_8974605)	For inspections, which need a detailed result recording.	Proactive	3-Medium (3)	Implementation in Process

Indicators (6)

Characteristic	Position	Category	Measuring Point	Source
Source: S4				
Level (MP_LEVEL)	DEFAULT	MeasPoint (general) (M)	Measuring Point: Oil level (246245)	S4
Pressure (SAP_EHS_1013_001_EC_PRESSURE)	MP4	MeasPoint (general) (M)	Test checks (246248)	S4
Oil Level in centrifugal pump (MP_OIL_LEVEL)	SEE CHECKLIST	MeasPoint (general) (M)	Measuring Point: Oil level (246250)	S4
Pressure (SAP_EHS_1013_001_EC_PRESSURE)	SEE CHECKLIST	MeasPoint (general) (M)	Calculated pressure (Mean value) (246246)	S4
Operating hours (OPERATING_HOURS)	SEE CHECKLIST	MeasPoint (general) (M)	Measuring Point: Running hours (246249)	S4
Source: Local				
Health Score in Percentage (EAM_HEALTH)	VIRTUAL	Derived in CBM (H)		Local

Assessments (2)

Assessment	Change On	Type	Status
Type: RCM			
Pump overhaul (PUMP_OVERHAUL)	22.04.2025, 08:56:39	RCM	IN_PROCESS
Type: FMEA			
Pump: Maintenance emergency inspection (PUMP_EMERGENCY_INSPECTION)	17.04.2024, 10:28:52	FMEA	CREATED

Risk and Criticality information on the header

Overview of assigned APM recommendations to the technical object

Semantic object navigation to S/4 measuring point

Semantic object navigation to APM “Manage RCM/FMEA Assessments”

[Link to documentation](#)



## Updated Business Processes and Functionalities

### Tactical Asset Planning

#### Maintenance Order: Enhanced Availability Check

- Perform an enhanced material availability check for maintenance orders and reassign committed stock material to the orders with the highest priority and urgency.
- Manually determine that committed quantities of individual components should not be cleared and reassigned during a material availability check by selecting the “Keep Commitment” checkbox. In this case, available quantities will only be assigned to the respective maintenance order but cannot be removed by the availability check.



Requirement Quantity	Committed Quantity
1 PC	1 PC
2 PC	2 PC
1 PC	1 PC

Activate "Keep Committed Quantities"

All 1 1

General

Order saved with number 4000281

Status

"Keep Committed Quantities" has been activated on o...

[Link to documentation](#)





# Updated Business Processes and Functionalities

## Tactical Asset Planning | Maintenance Execution



### Work Packs (Grouping of Print Outs)

- Print job cards, etc. for multiple maintenance orders in one go
  - For a team of maintenance technicians
  - For a specific time period
- Group the printout by different criteria
  - By work center
  - By maintenance technician
  - By technical object being maintained / repaired
- Include attachments as part of the printout
- The creation of work packs is possible for the whole order lifecycle.

[Link to documentation](#)

**Manage Work Packs**

**ET WP1 group by order - 20230911 - 15:40:00**  
20000005

**Work Pack Totals**    **Output Status**  
Work: 26.000 H    In Preparation  
Job Pack Count: 3  
Job Count: 16  
Output Item Count: 24

**General Information**    **Job Packs**

**Work Pack Details**  
Work Pack Name: ET WP1 group by order - 20230911 - 15:40:00  
Group By: Maintenance order  
Work Pack Type: Preventive Maintenance

**Administrative Information**  
Created By: Jens Schoeneberg (CB9980006167)  
Created On: 2023.09.11, 15:40:49  
Last Changed By: Jens Schoeneberg (CB9980006167)  
Last Changed On: 2023.09.11, 16:34:41

**Job Packs (3)**    **Standard**    Search

**Jobs (4)**    **Standard**

**Select Attachments for Output**

**Merge with Form Template**

**Additional Attachments for Output**

**Available Attachments**

Item ID	Output Type	Channel	Display	Attachments
1	Job Card (JOB_CARD)	Printout (PRINT)		2
2	Job Card (JOB_CARD)	Email (EMAIL)		2
3	Time Ticket (TIME_TICKET)	Printout (PRINT)		0
4	Time Ticket (TIME_TICKET)	Email (EMAIL)		0
5	Completion Confirmation Slip (COMPLETION_CONFIRMATION_SLIP)	Printout (PRINT)		0
6	Material Issue Slip (MATERIAL_ISSUE_SLIP)	Printout (PRINT)		0
7	Operation Control Ticket (OPERATION_CONTROL_TICKET)	Printout (PRINT)		0
8	Pick List (PICK_LIST)	Printout (PRINT)		0

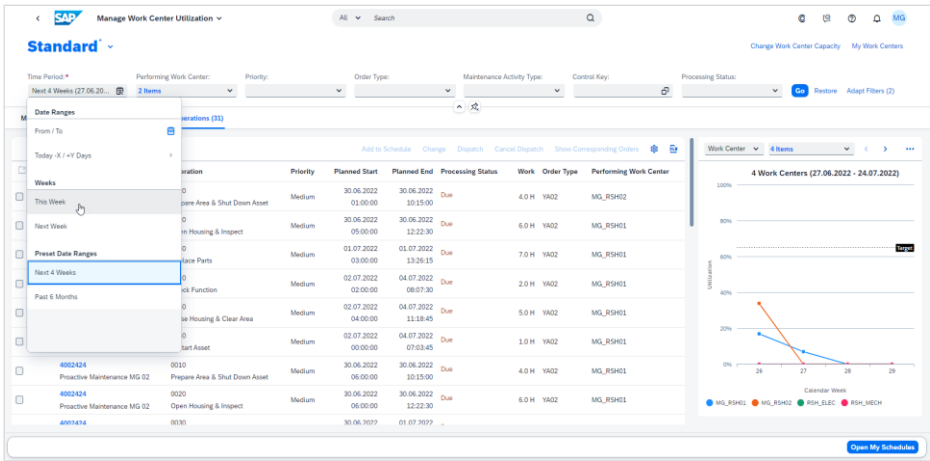
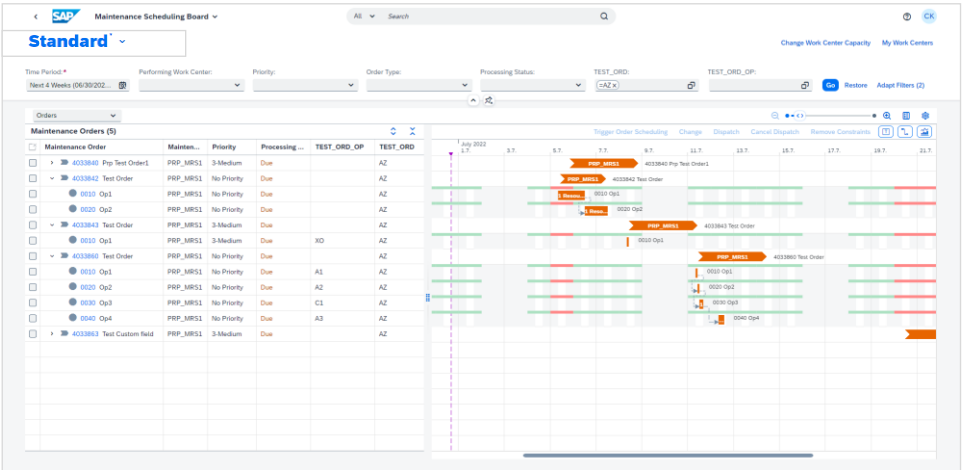


# Updated Business Processes and Functionalities

## Asset Management Resource Planning

Gain insights into your maintenance workload and available capacities for current and upcoming maintenance activities.

- Monitor Key Figures for Work Centers
- Analyze Work Center Utilization
- Manage Work Center Utilization
- Schedule Maintenance Order Operations
- Assign Operations to a Person Responsible
- Assign Operations to People
- Plan Maintenance Work for Assets



[Link to documentation](#)



## Updated Business Processes and Functionalities

### Tactical Asset Planning | Maintenance Execution

#### Inspection Checklist

- Enable inspection checklist process from creation of inspection plans, results recording, and follow-up actions – e.g., new checklist tab on maintenance orders
- Create inspection checklist templates for combinations of technical objects and recurring maintenance tasks; e.g., monthly electrical check-ups



Checklist Status	Inspection Lot	Inspection Lot Short Text
◆	890000003954	EQU:AJ-000012
◆	890000003955	EQU:AJ-000302

Status	Not Valued	Accepted	Rejected	Failed	Row Count	Inspection Lot	Node	Charc
◆	1	0	0	0	1	890000004200	1	10
◆	1	0	0	0	1		2	10
◆	1	0	0	0	1		2	20
◆	1	0	0	0	1		1	10
◆	1	0	0	0	1		2	10
◆	1	0	0	0	1		2	10
◆	1	0	0	0	1		1	10
◆	1	0	0	0	1		1	20
◆	1	0	0	0	1		2	10
◆	1	0	0	0	1		2	20

Work Order Object List

- Create work order manually or from maintenance plan
- Generate object list manually or from a maintenance plan or after creation of a work order

Inspection Checklist

- Generate inspection checklists after object list generation manually or automatically at order release

Results Recording

- Record results for checklist items, that is, inspection lot characteristics

Completion Follow-Up Actions

- Set usage decision for inspection lots
- Complete maintenance order (status TECO - technically completed)
- Execute follow-up actions after usage decision



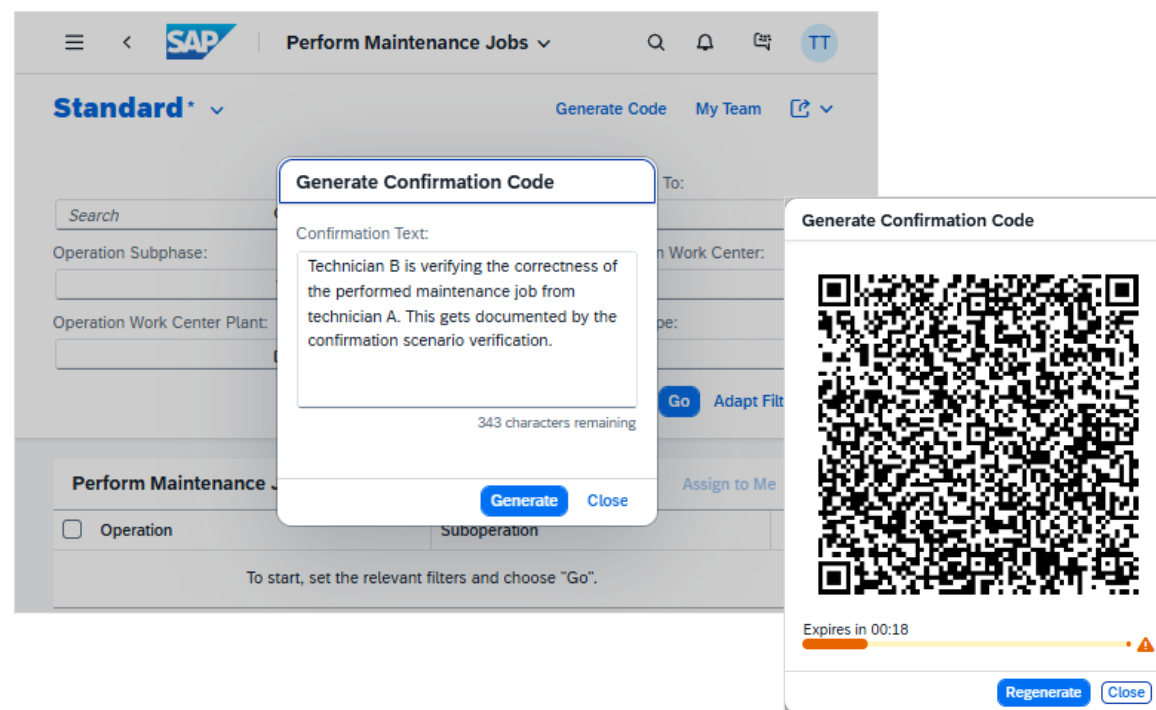
## Updated Business Processes and Functionalities

### Maintenance Execution



#### Verification process and recording cooperation with other technicians

- The new verification confirmation scenario in the Perform Maintenance Jobs app enables a dual-control (four-eyes) principle for maintenance execution. This allows a second technician to verify the correctness of a performed job before final time confirmation is posted.
- it is possible to generate a dynamic QR code, that allows a maintenance technician to record time confirmation on behalf of another one. The QR code is encrypted, valid for 90 seconds, and can optionally include a confirmation text. Static QR codes are also supported for long-term authentication, with traffic light indicators showing their validity status.



[Link to documentation](#)



# Updated Business Processes and Functionalities

## Work Permit and Isolations Management (Environment, Health, and Safety)

### Permit to Work (New Work Clearance Management)

- Manage a systematic approach in controlling and executing the operational and maintenance activities safely and efficiently in a worksite
- Create and manage safety work permits with reference to a maintenance order and/or a work permit template and independently
- Configure the nature of work, personal protective equipment, and safety precautions as integral components of the work permit solution
- Assign multiple functional locations, equipment, maintenance orders, partners, and attachments to the work permit
- Validation data and manage approval process that adheres to a four-eyes principle

[Link to documentation](#)

Work Permits

All Search

?

NO

General Safety Procedure

12000128

Planning Plant: Plant 0001 (0001)  
Work Permit Type: General Work Permit (GWP)  
Processing Status: Cancelled / Rejected  
Issued To: --

Set Deletion Flag Application Logs

General Information Object List Safety Requirements Assigned Orders Partners Approvals Issue History Comments Status Attachments

Safety Precautions (4) Standard

Description	Category	Comments	Set Implementation Status	Implementation Status	Implemented On	Implemented By
De-energize underground services	Environment Conditions		No	Not Implemented		
Flushing and Draining of hazardous substances	Environment Conditions		No	Not Implemented		
Regular Gas Recording	Environment Conditions		No	Not Applicable		
Safe temperature for entry	Environment Conditions		No	Not Applicable		

Personal Protective Equipment (4) Standard

Description	Category
Chemical splash goggles	Eye and Face Protection
Face shields	Eye and Face Protection
General safety glasses	Eye and Face Protection
Impact goggles	Eye and Face Protection

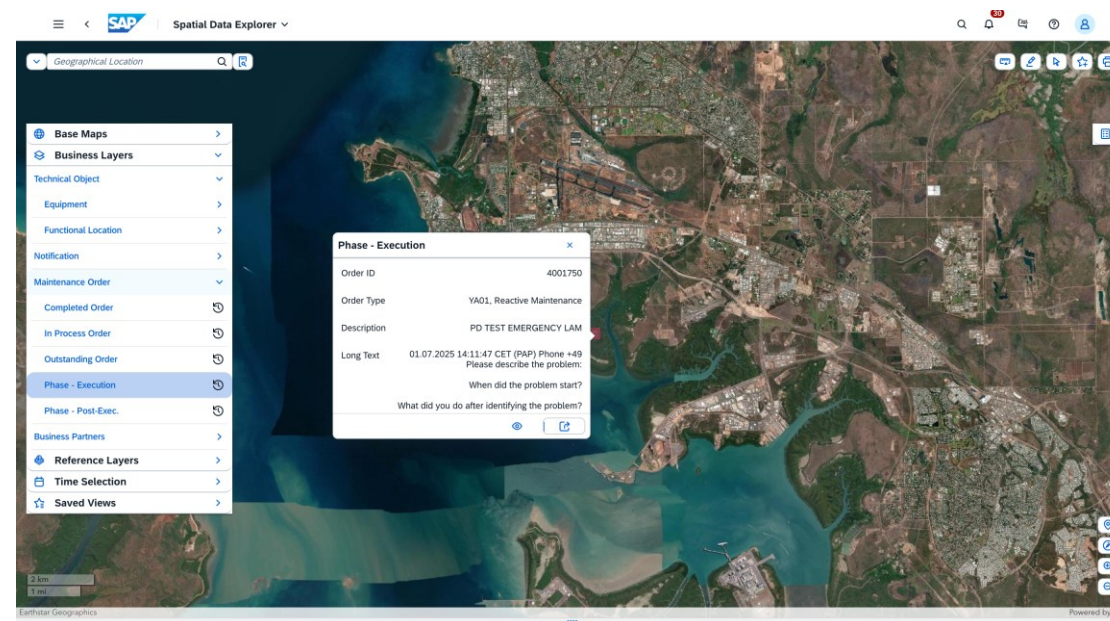




## Updated Business Processes and Functionalities

### Asset Data and Information Management for Spatial Enablement

- Seamlessly share GIS and business data providing **end-to-end spatially enabled workflows and processes**
- **Create, edit and store geometries** (points, lines, polygons) for any geographically enabled business object
- Improve your workforce efficiency by **driving business transactions from a simple, intuitive map-based navigation** enriched with federated GIS data layers
- Use **a linear referencing method for maintaining and inspecting linear assets**, and describe and locate a position along its length
- **Dynamic segmentation** with multiple sets of attributes associated with any portion of an existing linear feature independently of where it begins or ends
- Look for maintenance notifications/requests and maintenance orders based on the Phase, Sub-Phase and Processing Context



[Link to documentation](#)



# Out-of-the-Box Integration

**Increase Asset Performance, Reduce Maintenance Costs and Deliver Service Excellence**

**Closed-Loop** strategy, planning and execution processes to optimize **Asset Performance Management**

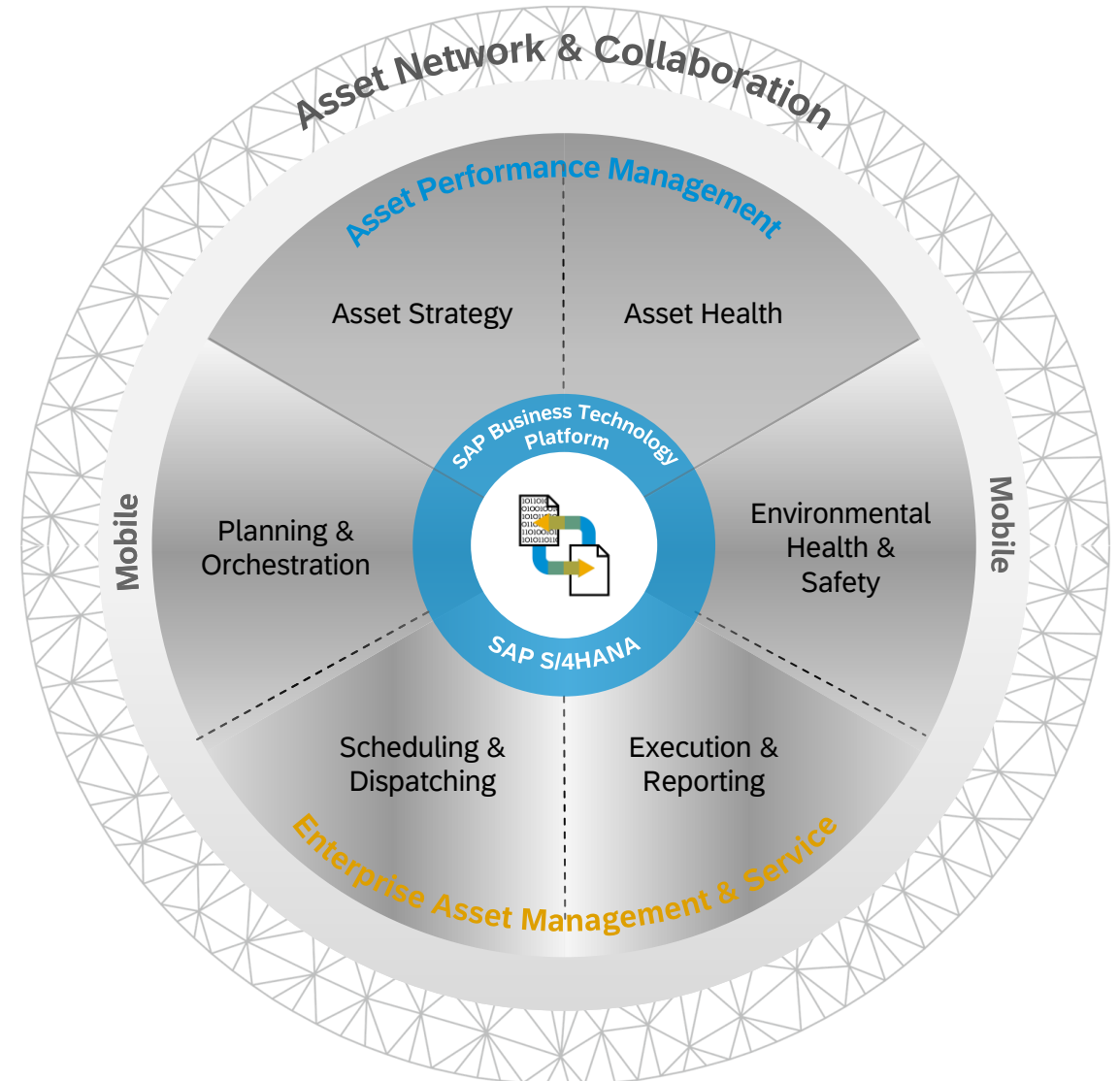
Synchronize maintenance and service across the **enterprise** for responsive customer care and supply chain **resilience**

Adopt new **collaborative** processes and 'products-as-a-service' business models across **Networks**

Manage asset health with **Industry4.0** for real time predictive maintenance and service

**Optimize** maintenance and service with **intelligent scheduling** and **crowd sourced** resource management

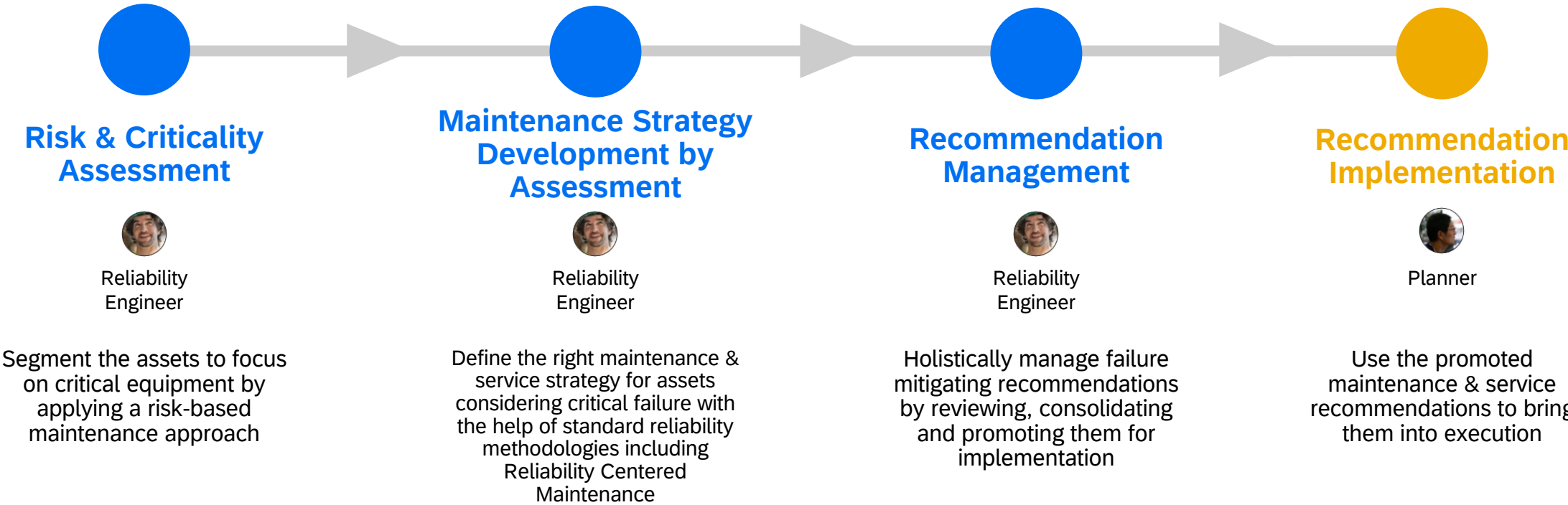
Empower users with **Mobile** asset intelligence, work automation and safe sustainable **EH&S** policies





# Out-of-the-Box Integration

## SAP Asset Performance Management: Define Asset Maintenance Strategies

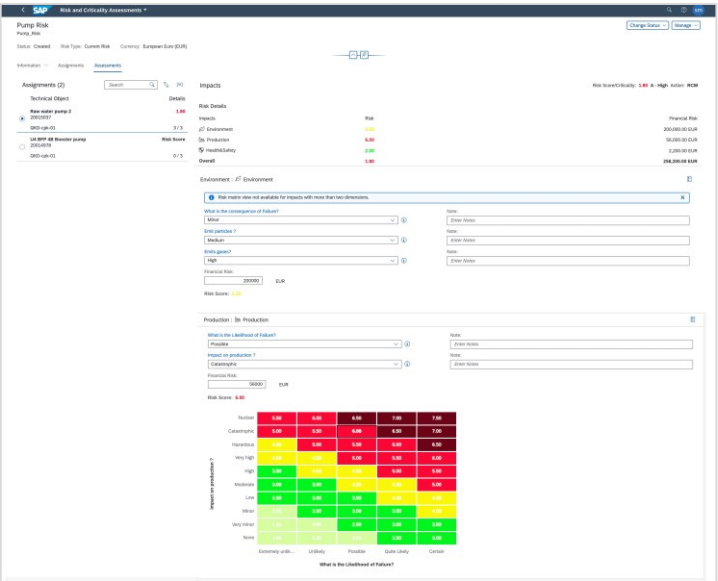






Out-of-the-Box Integration
SAP Asset Performance Management: Define Asset Maintenance Strategies

Risk & Criticality Assessment

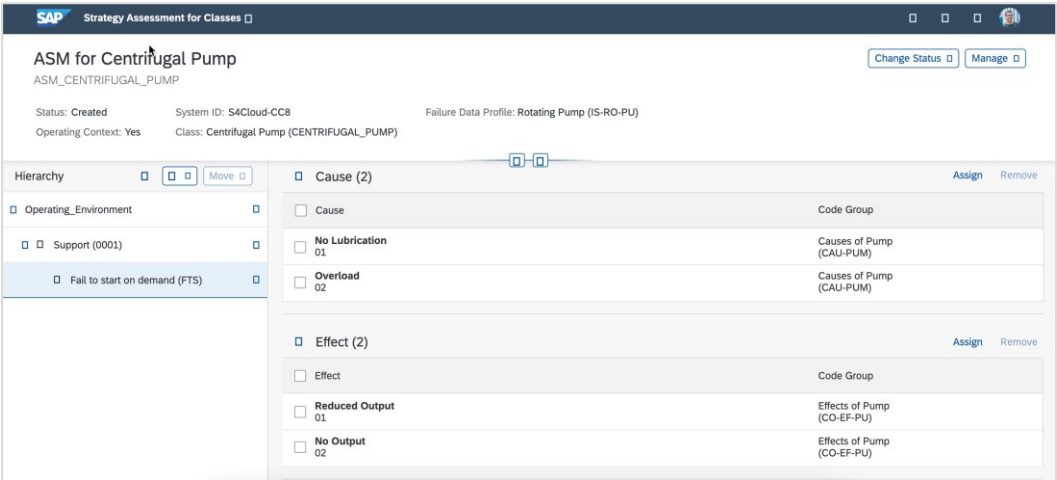


Risk & Criticality Assessment

Segment your Assets based on Risk & Criticality to focus on what matters most

- Out of the box re-use of aligned master data and their classification from SAP EAM
Classify the risk of assets by developing a risk and criticality scores calculated based on standard formulars (min, max, average) for different risk impact categories
Use alphanumeric risk matrix to derive the risk score of assets
Perform assessments on single or multiple assets
Derive actions and maintenance strategies based on the risk and criticality scores
Use custom templates and criticality thresholds to standardize the risk and criticality calculation

Maintenance Strategy Development by Assessment



Development of failure data

- Analyze potential failure and their impact for your assets to develop the right maintenance & service strategy to mitigate the likelihood of happening, or to restore function if acceptable.
Develop leading failure data and maintenance & service recommendations for asset classes to standardize and optimize maintenance & service programs for similar assets
Use standard reliability methods such as RCM, and FMEA to develop the best maintenance & service strategy for your critical assets
Leverage an aligned and harmonized failure data model between SAP APM and SAP EAM
Derive and create maintenance recommendations to mitigate the likelihood of failures using task lists for reactive, proactive or improvement actions



## Out-of-the-Box Integration

### SAP Asset Performance Management: Define Asset Maintenance Strategies

#### Recommendation Management

The screenshot shows the SAP Recommendation Management interface for a recommendation titled 'Valve Insert Removal & Seal Replacement' (ID: 123456789). The form includes fields for Type (Proactive), Subtype (Performance), and Status (In Process). Below the header, there are tabs for Information and Recommendation Details. The Recommendation Details section contains fields for Description, Long Description, Type, Subtype, Cycle, Maintenance Activity Type, Priority, Discipline, Impact on Business, Financial Risk, Maintenance Savings, and Validity. A 'Save' button is visible at the bottom right of the form.

Recommendation creation

Manage developed maintenance recommendations to have the right measure defined for review, approval and release for implementation

- Make use of a **recommendation workbench** to manage developed recommendations centrally
- Review, compare and \*consolidate** recommendations to derive the best set of recommendations
- Manage the status of recommendations and **approve** and **release** recommendations for implementation
- Create** recommendations independently of assessments and **assign failure data** to be addressed if desired
- Copy** or **apply** existing recommendations to other technical objects\*
- Analyze **implemented recommendations** to reveal potential misalignment between recommendation and implemented measure\*

#### Recommendation Implementation

The screenshot shows the SAP Recommendation Workbench interface. It features a search bar and various filters for Recommendation, Type, Subtype, Financial Risk, Maintenance Savings, Technical Object, and Status. Below the search bar, there is a table listing recommendations. The table has columns for Recommendation, Type, Subtype, Financial Risk, Maintenance Savings, Technical Objects Assigned, and Status. The table shows 8 recommendations, with the first one being 'Valve Insert Removal and Seal Re...' (ID: 123456789) with a status of 'In Process'.

Recommendation	Type	Subtype	Financial Risk	Maintenance Savings	Technical Objects Assigned	Status
Valve Insert Removal and Seal Re... 123456789	PROACTIVE	Performance			Kaplan Turbine 101 (10145678) and 7 more	In Process
Recommendation 1 and more info 87438792	PROACTIVE	Calendar			Battery pack (VIN87438792) and 10 more	Review
Recommendation 2 and more info 100001041	PROACTIVE	Condition			Wiper System (100001041) and 70 more	In Process
Recommendation 3 and more info 217100901	REACTIVE				Kaplan Turbine 101 (1045678) details	On Hold
Recommendation 4 and more info 10001569	REACTIVE				Schneider Lift (10001569) and 5 more	Consolidated

Recommendation Workbench

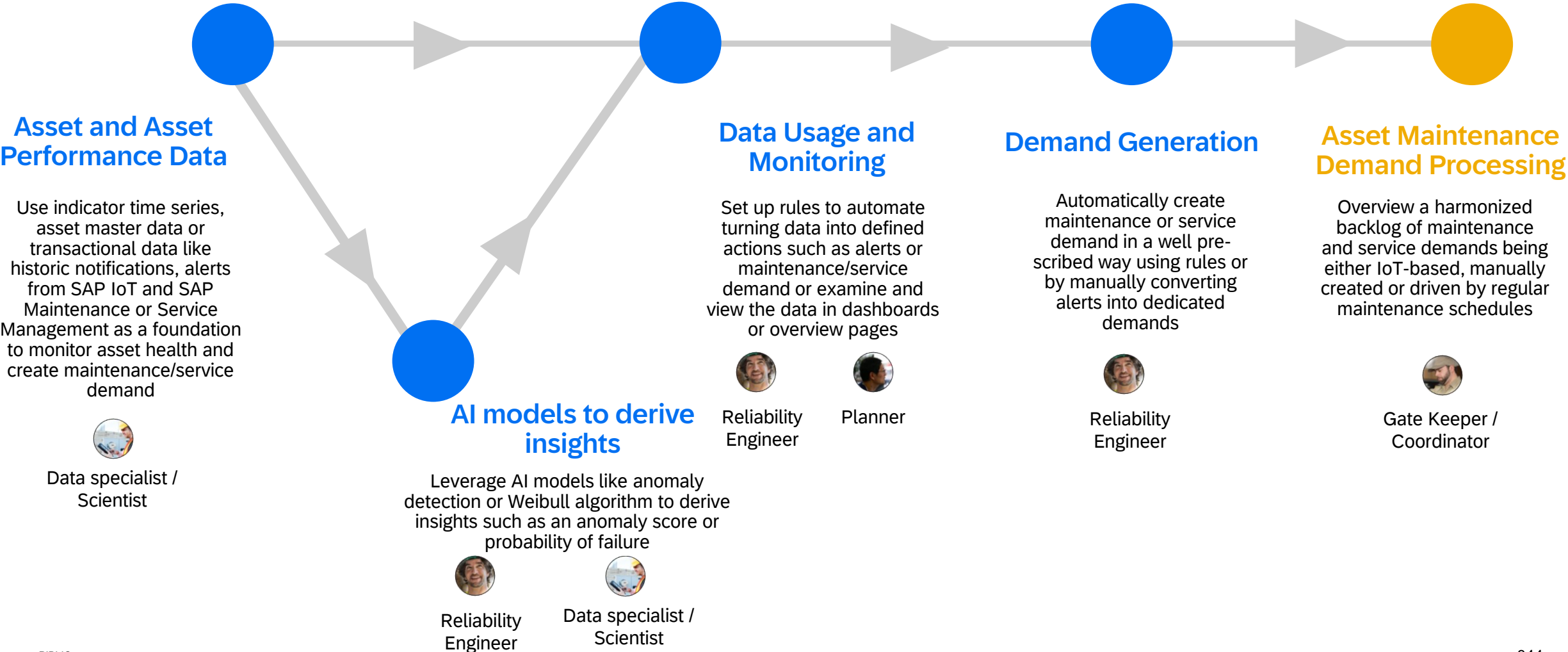
Put developed recommendations into action with the right implementation: from reactive and time-/usage based maintenance and service to more condition-based, predictive/prescriptive maintenance and service

- Analyze** and **review** the promoted recommendations to take the **right actions**
- Leverage the **recommendations and their specifics** to transfer them into the relevant **planning objects\*\*** for execution
- Keep track on implemented recommendations by having **connections established between recommendations and planning objects**
- Use **harmonized master data** to **ease the handover** of maintenance & service recommendations into planning objects for execution



# Out-of-the-Box Integration

## SAP Asset Performance Management: Monitor Asset Health and Maintenance Demand

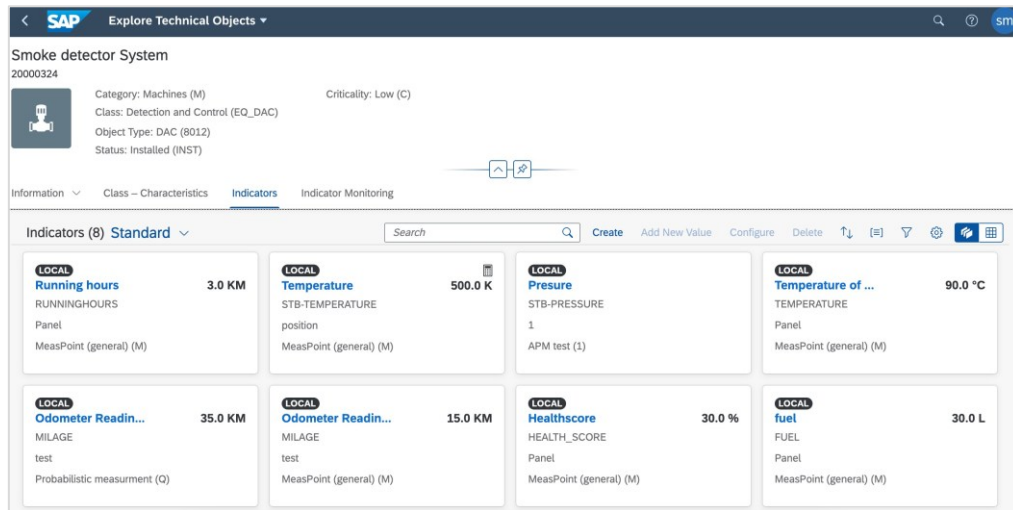




## Out-of-the-Box Integration

## SAP Asset Performance Management: Monitor Asset Health and Maintenance Demand

### Asset and Asset Performance Data



Indicator Overview

Use asset master data or transactional data and set up a connectivity to IoT to receive time series data, or events for health monitoring and demand generation

- Out of the box re-use of **aligned asset master data** including measuring points, counters and characteristics between APM and EAM
- Set up **indicators for your assets** and configure thresholds and value ranges
- Establish a **connection with IoT to receive time series** data for your assets
- Incorporate transactional data like **historic maintenance/service notifications from maintenance/service management** or **machine alerts from IoT**

### AI Models to Derive Insights



Technical Object Page > Analytics > Failure Curve

Put developed recommendations into action with the right implementation: from reactive and time-/usage based maintenance and service to more condition-based, predictive/prescriptive maintenance and service

- Use **out of the box models** like **anomaly detection** or **Weibull algorithm** to process raw data
- Derive data like **anomaly score** or **probability of failure\***
- Incorporate custom AI/ML algorithms or models\* for asset health prediction
- Calculate an **indicator forecast to show trends** of indicator values
- Store derived data against the asset indicators to gain and provide deeper insights into the asset health



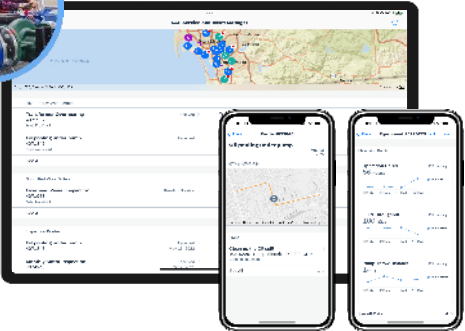
# Out-of-the-Box Integration

## SAP Service and Asset Manager: Overview

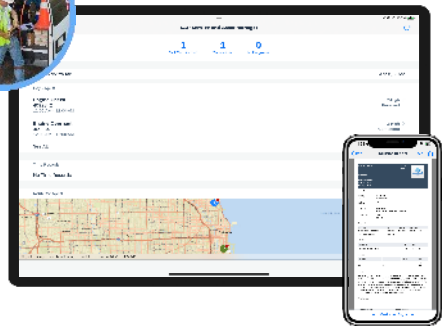
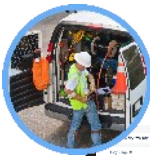


Cloud-based solution to transform enterprise business processes on a mobile experience

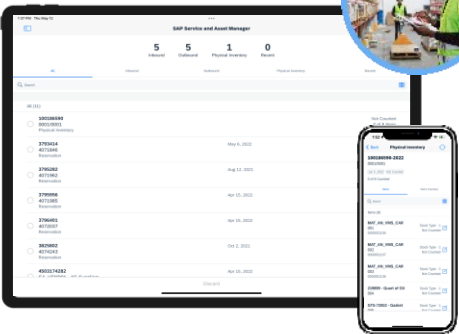
- **Mobile-enabled processes integrated with SAP enterprise systems** enable easy and timely execution on the go.
  - **Maintenance component** for technicians who maintain and service enterprise assets
  - **Service component** for field service technicians out on the field that need to follow a guided workflow and complete customer service
  - **Inventory management** component for clerks who need mobile support in goods movements and stock management
  - **Work clearance management** component that leverages an integrated mobile process to communicate pertinent safety risks and control the maintenance work being performed
- **Ready-to-use, extensible iOS, Android and Windows app integrated with native mobile features and services.** Enables the worker to be more productive and take advantage of the mobile technologies to perform their job
- **Easy configuration**, in a cloud-based platform by leveraging SAP Business Technology Platform Mobile Services and the mobile development kit editor, providing **online and offline access** to context-rich visualizations and actionable asset insights



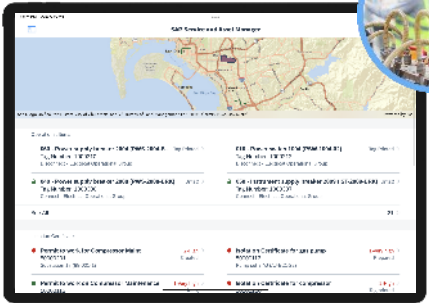
Maintenance Technician



Service Technician



Inventory Clerk

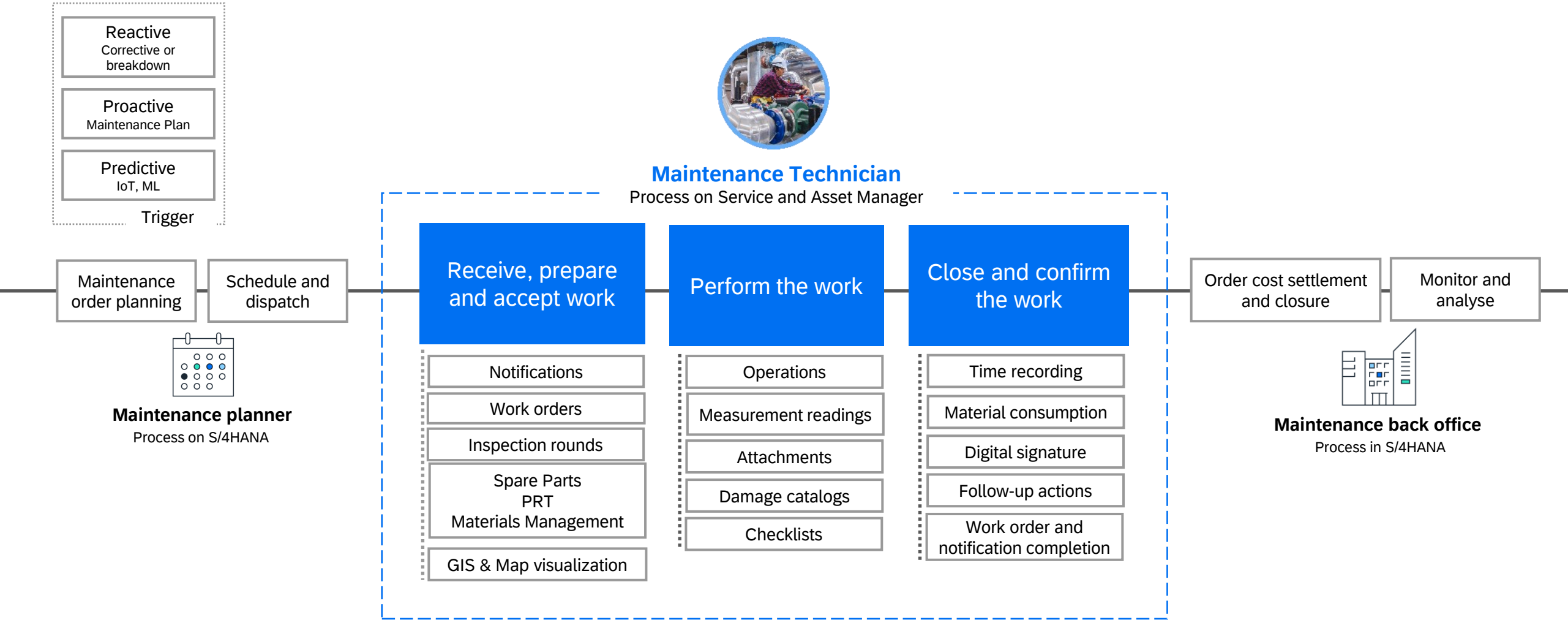


Safety Engineer



# Out-of-the-Box Integration

## SAP Service and Asset Manager: Maintenance Technician persona



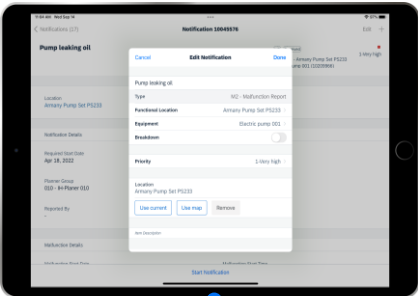




# Out-of-the-Box Integration

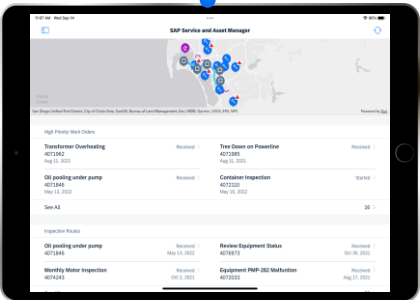
## SAP Service and Asset Manager: Maintenance Technician persona

### Demand Processing



- Change and confirm notification details
- Add items, tasks, activity notes and reminders
- Add documents and images
- Breakdown, malfunction start/end
- Create notifications from equipment, functional location, work order, operation and sub-operation levels
- Access and capture damage code information
- Create follow-on notifications

- Create, change and confirm order details
- Inspection rounds – consolidated entry form and filter
- View operations and work instructions
- View and add serialize and non serialized spare parts
- Goods issue and returns
- Capture signature and update system and user status
- Clock-in/Clock-out for simultaneous work execution
- Time/PM confirmations and expense management
- EAM Checklist support



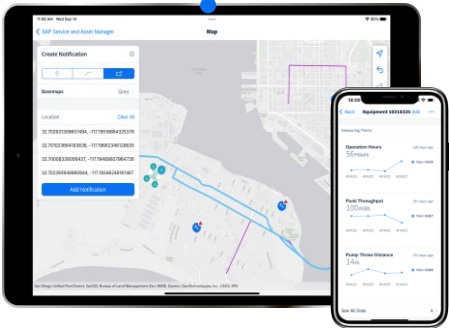
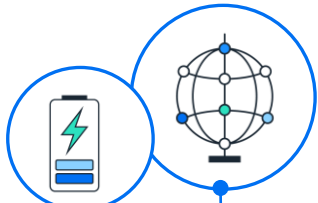
### Work Execution and Data Capture

### Equipment and Functional Location



- Hierarch view and search control
- Equipment warranties and bill of materials
- Create equipment and functional location from templates
- Install and dismantle
- Measurement points: quick single entry, multiple readings
- work order history and related notifications
- View/edit characteristics, classifications and linear data
- View/add documents
- 3D asset visualizations and work instructions

- Optimized persona user experience
- SAP Fiori design for iOS, Android and Windows
- Offline data capture and auto-sync configuration
- Leverage native device peripherals (camera, GPS, etc.)
- Mobile push notification support
- Dynamic extensibility with MDK / SDK
- Geospatial capabilities, ESRI and SAP spatial integration
- DMS support both SAP and 3rd party
- Industry components part of the core app



### Usability

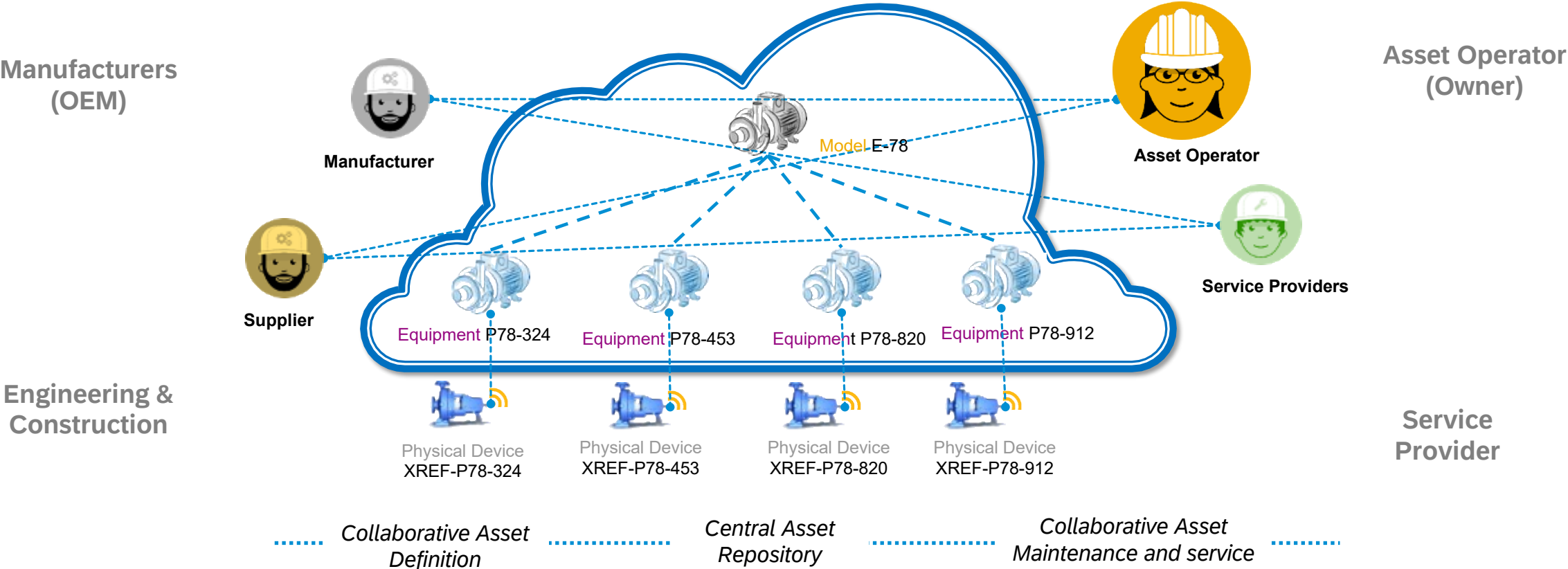


# Out-of-the-Box Integration

## SAP Business Network Asset Collaboration: Overview

All business partners on a single platform

A digital platform for collaboration on equipment definition and maintenance processes. It enables business partners to collaborate on a common digital twin across asset life-cycle, resulting in better asset performance, operational costs reduction, and safer operations

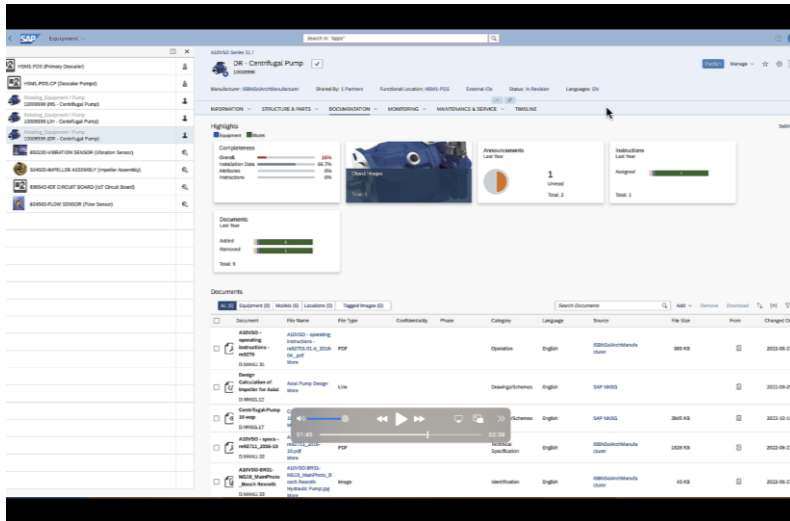






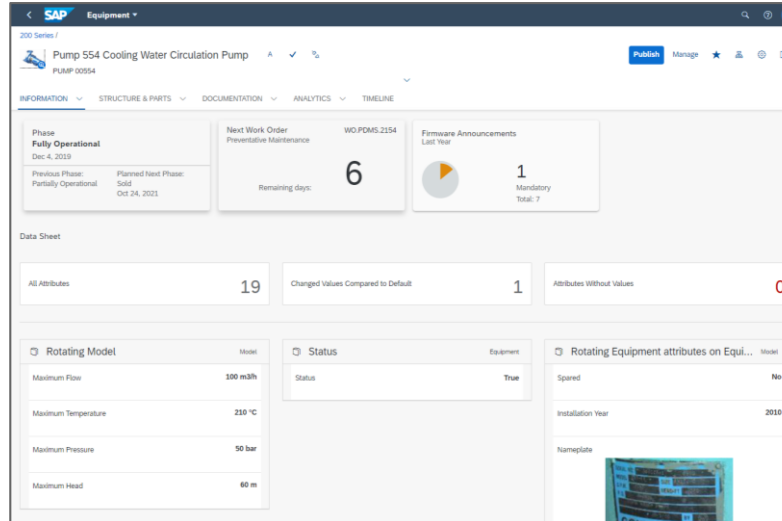
## Out-of-the-Box Integration SAP Business Network Asset Collaboration: Capabilities

### Central Asset Repository



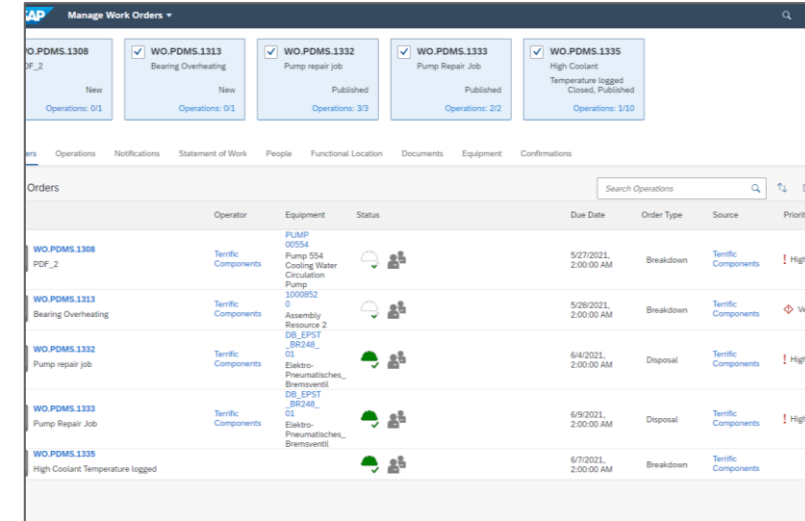
- Improved efficiency: a centralized asset repository can make it easier for teams to find and access the assets they need, reducing the amount of time spent searching for files and increasing productivity.
- Consistency and standardization: by ensuring that all assets are stored in a centralized location, companies can ensure that all teams are using the same assets, reducing the risk of inconsistency and errors.
- Better collaboration: a centralized asset repository can facilitate collaboration between teams, allowing them to share and work on assets together, regardless of location.
- Increased visibility and control: by storing assets in a centralized repository, companies can better control who has access to information and get a better visibility of the assets.

### Collaborative Asset Definition



- Sharing of common asset information between asset manufacturers, service providers, and asset owners, supporting faster and better decisions
- Faster and more efficient way to hand over asset data to operations, reduce the data maintenance effort and speed up the commissioning of equipment
- Establishment of synergies between manufacturers and suppliers through one channel to many customers, creating new business models, increasing service efficiency, and improving customer retention

### Collaborative Maintenance and Service



- Gain greater efficiency of, visibility into, and control over contractor and commercial readiness.
- Support more effective maintenance planning and execution processes carried out by external parties.
- Connect asset operators and service providers in one portal to plan, dispatch, and execute maintenance activities.
- Standardize maintenance processes across business units, service providers, and original equipment manufacturers.



# Out-of-the-Box Integration

## Maintenance, Repair and Operations (MRO) with SAP Integrated Business Planning (IBP)

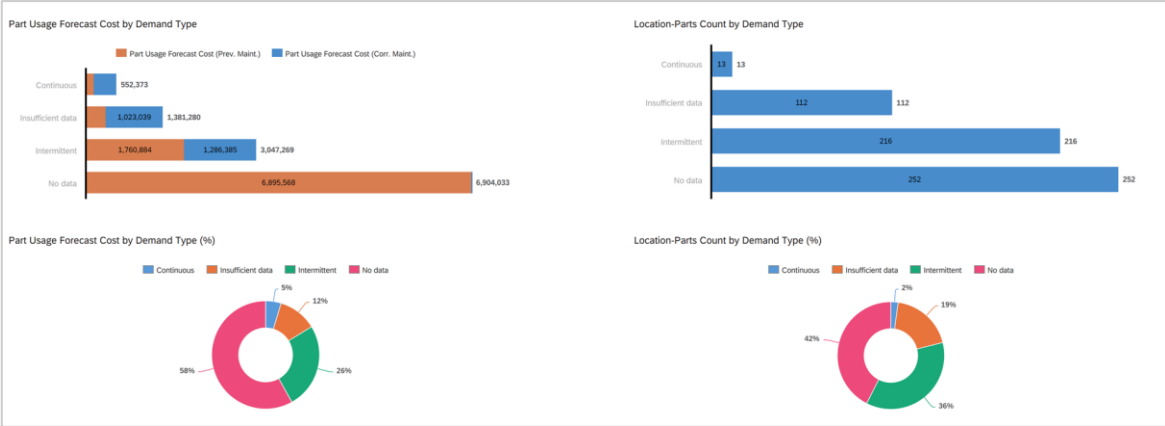
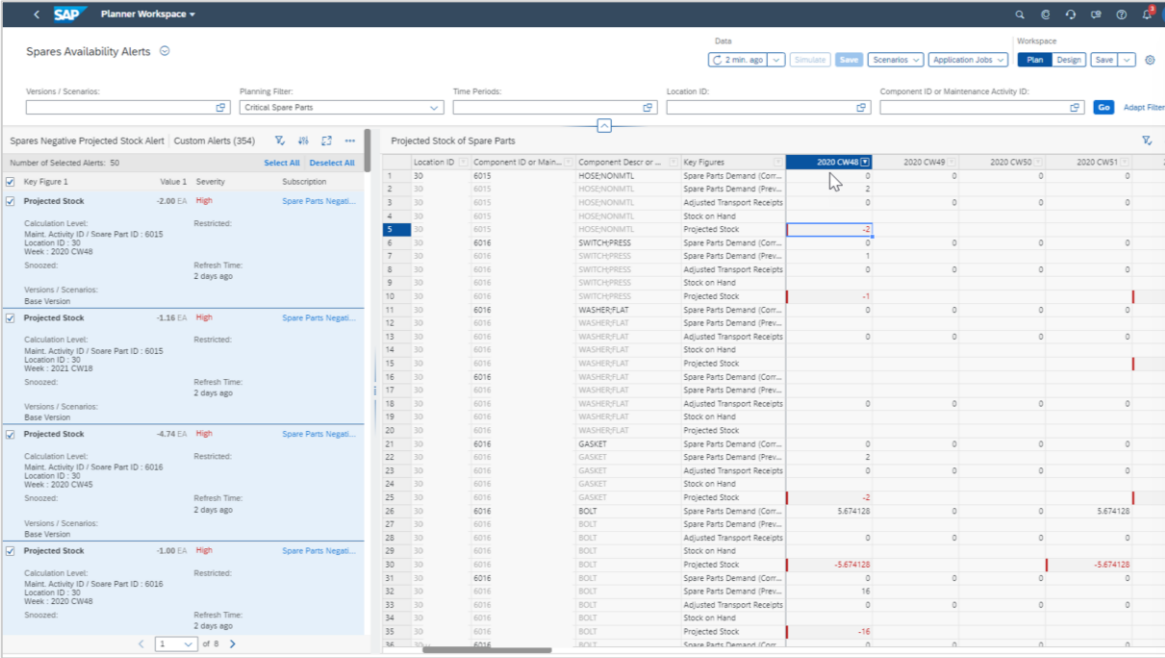
Maintenance parts & resource long- / mid-term planning

Evolve from reactive inventory consumption planning to maintenance-driven parts planning  
Moving from reactive planning to preventive planning, avoiding costly asset downtime.

Improve visibility & exception management  
Bring together insights from reactive, corrective and preventive demand streams as well as financial data.

Include labor plans  
Insights into cost and availability of the labor needed to perform the maintenance.

Reduce working capital  
Avoid overstocking while at the same time keeping parts availability high.





## Out-of-the-Box Integration Visual Asset Management with 3D Visual Enterprise

The solution portfolio enables companies to:

- Digitally transform and simplify the User Experience (UX) by accessing information visually.
- Leverage visualizations as the oldest and most natural form of communication to provide “In Context” visual learning and retention of product and asset information.
- Connect 2D & 3D Computer Aided Design (CAD) data with ERP and master data from design, procurement, supply chain, manufacturing, quality, asset operations and service to deliver a Model Based Enterprise.

Resulting in:

- Empowered people, that are engaged and motivated be more productive with next generation visual on-premise and cloud applications.
- Reduction in time to make key business decisions by providing access and visibility to business data, insights and actions via a 3D visual index.
- Value measured in hours leveraging secure role-based visual application templates.
- Improved training, manufacturing execution, service and first-time fix rates of critical assets.

**SAP 3D Visual Enterprise Generator:** An automation engine for CAD conversion, business data integration and storage in SAP S/4HANA, and or SAP Enterprise Product Development-Visualization

**SAP 3D Visual Enterprise Author:** A desktop authoring product to create animations, renderings and other added-value authored content.



**SAP 3D Visual Enterprise Viewer:** A programmable interactive viewing component for desktop and SDK for mobile.

**Visual Interaction toolkit for SAPUI5:** A programmable interactive viewing component for browser-baser HTML5 applications



# Compatibility Packs in Asset Management

## CP ID 114: Asset management for oil & gas

- Alternative option: SAP S/4HANA for field equipment and material logistics planning and execution (material codes: cloud private edition 8014314 or on-premise 7020925)

## CP ID 115: SAP Multiresource Scheduling

- Alternative option: SAP S/4HANA for Asset Management for resource scheduling, private cloud edition (material code 8011130)
- SAP MRS can be used in perpetual scope beyond 2025 under the SAP S/4HANA Asset Management for resource scheduling (RSH) license. Depending on how the customer is using SAP MRS today, the new SAP Offerings i. SAP S/4HANA Asset Management for resource Scheduling ii. SAP FSM iii. SAP S/4HANA Cloud for resource management can address the requirements and offer new capabilities

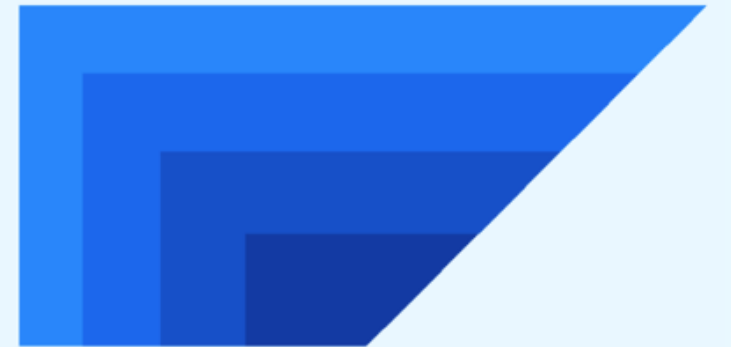
## CP ID 116: SAP Multiresource Scheduling with Optimizer

- SAP MRS can be used in perpetual scope beyond 2025 under the SAP S/4HANA Asset Management for resource scheduling (RSH) license. **However, the optimizer will not be provided.**

## CP ID 442: LIS in Enterprise Asset Management - Maintenance Planning and Scheduling

- Alternative option: Analytical Fiori apps: Breakdown Analysis, Damage Analysis, Actual Cost Analysis. Available CDS views & BW extractors can be used to replace LIS. Planned: Fiori app for "Planned Maintenance Costs": For further details see SAP Roadmaps.
- Business impact note: [2268085](#)
- Simplification item: [2267463 - S4TWL - LIS in EAM](#)

# Manufacturing





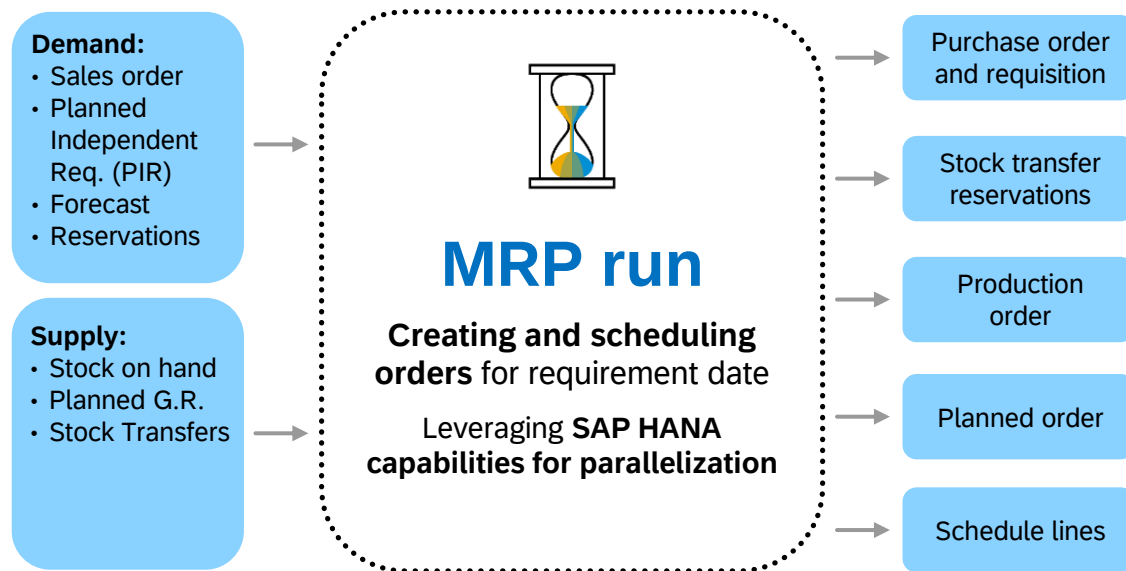
## SAP Cloud ERP Private differentiators

# SAP HANA and Embedded Analytics



# SAP HANA and Real-time Analytics

## MRP live



MRP optimized for **SAP HANA** database:

- Basic functions available for **ERP on HANA**, complete solution only with **SAP S/4HANA**.
- **Significant performance improvements** (10-100 times faster, with less data load)
- **Shorter planning cycles** (multiple times a day)
- **Up-to-date supply and demand information** on which to base decisions
- **Matching demand and supply** more efficiently than was previously possible
- Improvements for **cross-plant planning**
- Foundation for **simulative** planning runs predictive MRP

[Link to documentation](#)



## SAP HANA and Real-time Analytics

### Production Engineering

- Change Requests and Activities - Detailed Analysis
- Change Requests Dashboard
- Change Activities Dashboard

### Production Planning and Operations

- Operation Scrap
- Material Scrap
- Excess Component Consumption
- Production Execution Duration
- Scrap Reasons
- Manage Work Center Capacity
- Kanban Control Cycle Analysis
- Monitor JIS Calls
- Monitor Assembly Sequence - IPPE
- Monitor Assembly Sequence - Repetitive Manufacturing
- Product Projected Stock Overview Chart
- Demand Analysis of Customer JIT Calls
- Monitor Customer JIT Calls Components
- Overview of JIT Supply To Customer
- Monitor Customer JIT Calls - Component Groups
- Advanced Scheduling Board

### Quality Management

- Quality Engineer Overview
- Quality Technician Overview
- Inspection Lot Analytics
- Inspection Lot Detailed Analytics
- Characteristic Detailed Analytics
- Characteristic Analytics
- Nonconformance Detailed Analytics
- Nonconformance Analytics

### Environment, Health & Safety

- Risk Overview
- Injuries and Illnesses - Detailed Analysis
- Chemical Risks - Detailed Analysis
- Approved Chemicals
- Incidents - Detailed Analysis
- Chemical Inventory Reporting
- DART Rate
- Incident Rate
- Number of Recordable Cases
- Injury/Illness Log - Detailed Analysis
- Extract Data for SARA 312 Reports
- Analyze SARA-Relevant Stock Details
- Emission Forecast
- Compliance Analysis
- Workplace Safety Overview





## SAP Cloud ERP Private differentiators

# Data Products and Intelligent Applications




# Data products - Manufacturing

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.

These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.

[Available data products](#)




Data Product

Manufacturing Codes

Data Product Manufacturing Codes

Version 1.1.1

ACTIVE




Data Product

Production Version

Data Product Production Version

Version 1.0.1

ACTIVE




Data Product

Work Center

Data Product Work Center

Version 1.0.0

ACTIVE




Data Product

Enterprise Resource Capacity

Data Product Enterprise Resource Capacity

Version 1.0.0

ACTIVE




Data Product

Production Order Confirmation

Data Product Production Order Confirmation

Version 1.0.1

ACTIVE




Data Product

Production Order

Data Product Production Order

Version 1.0.1

ACTIVE



Data Product

Production Routing

Data Product Production Routing

Version 1.0.1

ACTIVE












## Data products – Environment, Health and Safety

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.

These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.

[Available data products](#)

 Data Product Environment and Health and Safety Data Collection Data Product Environment and Health and Safety Data Collection Version 1.0.0 <b>ACTIVE</b>	 Data Product Environment and Health and Safety Location Aggregation Data Product Environment and Health and Safety Location Aggregation Version 1.0.0 <b>ACTIVE</b>	 Data Product Chemical Compliance Information Data Product Chemical Compliance Information Version 1.0.0 <b>ACTIVE</b>	 Data Product Listed Substance Element Data Product Listed Substance Element Version 1.0.0 <b>ACTIVE</b>
 Data Product Environment and Health and Safety Location Data Product Environment and Health and Safety Location Version 1.0.0 <b>ACTIVE</b>	 Data Product Environment and Health and Safety Sampling Definition Data Product Environment and Health and Safety Sampling Definition Version 1.0.0 <b>ACTIVE</b>	 Data Product Environment and Health and Safety Calculation Definition Data Product Environment and Health and Safety Calculation Definition Version 1.0.0 <b>ACTIVE</b>	 Data Product Environment and Health and Safety Data Amount Data Product Environment and Health and Safety Data Amount Version 1.0.0 <b>ACTIVE</b>
 Data Product Environment Management Codes Data Product Environment Management Codes Version 1.0.0 <b>ACTIVE</b>			



# SAP Cloud ERP Private differentiators

**SAP Fiori**



## SAP Fiori

### Create Manufacturing BOM from Engineering BOM with PEO

#### Prepare MBOM Creation

- prepare data for the EBOM-to-MBOM handover
- Specify the EBOM and production information based on engineering snapshots.
- Select the engineering snapshot
- Identify the EBOM versions
- View the 3D model
- Select change record (new or existing change record)

**SAP** Snapshot ▾ Apps ▾ Search In: "Apps" 🔍

**1**

Snapshot Revision: 1  
Snapshot Type: Engineering Snapshot  
Material: Bracket\_Pump (0600-100-001-01)  
Plant: D130 A&D Plant (D130)

PIP Data Prep. Status: Successful  
Change Rec. Prep. Status: Successful  
Proposed Effective Date:

Engineering BOM Assigned Change Records

**Standard** ▾ Display Engineering BOM Prepare MBOM Creation ⚙️ 📦 ▾ > 3D Visual Details

Material	Plant
<input type="radio"/> Bracket_Pump (0600-100-001-01) Alternative BOM: 1 BOM Usage: Engineering/Design Versioned (E) BOM Version: 0001 BOM Version Status: Released (99) 💡	D130 A&D Plant (D130)
<input type="radio"/> Fastener_X190_32 (0600-100-001-06) Alternative BOM: 1 BOM Usage: Engineering/Design Versioned (E) BOM Version: 0001 BOM Version Status: Released (99) 💡	D130 A&D Plant (D130)
<input type="radio"/> Fastener_SBB (0600-100-001-10) Alternative BOM: 1 BOM Usage: Engineering/Design Versioned (E) BOM Version: 0001 BOM Version Status: Released (99) 💡	D130 A&D Plant (D130)

Hide Visual

3D Visual Details

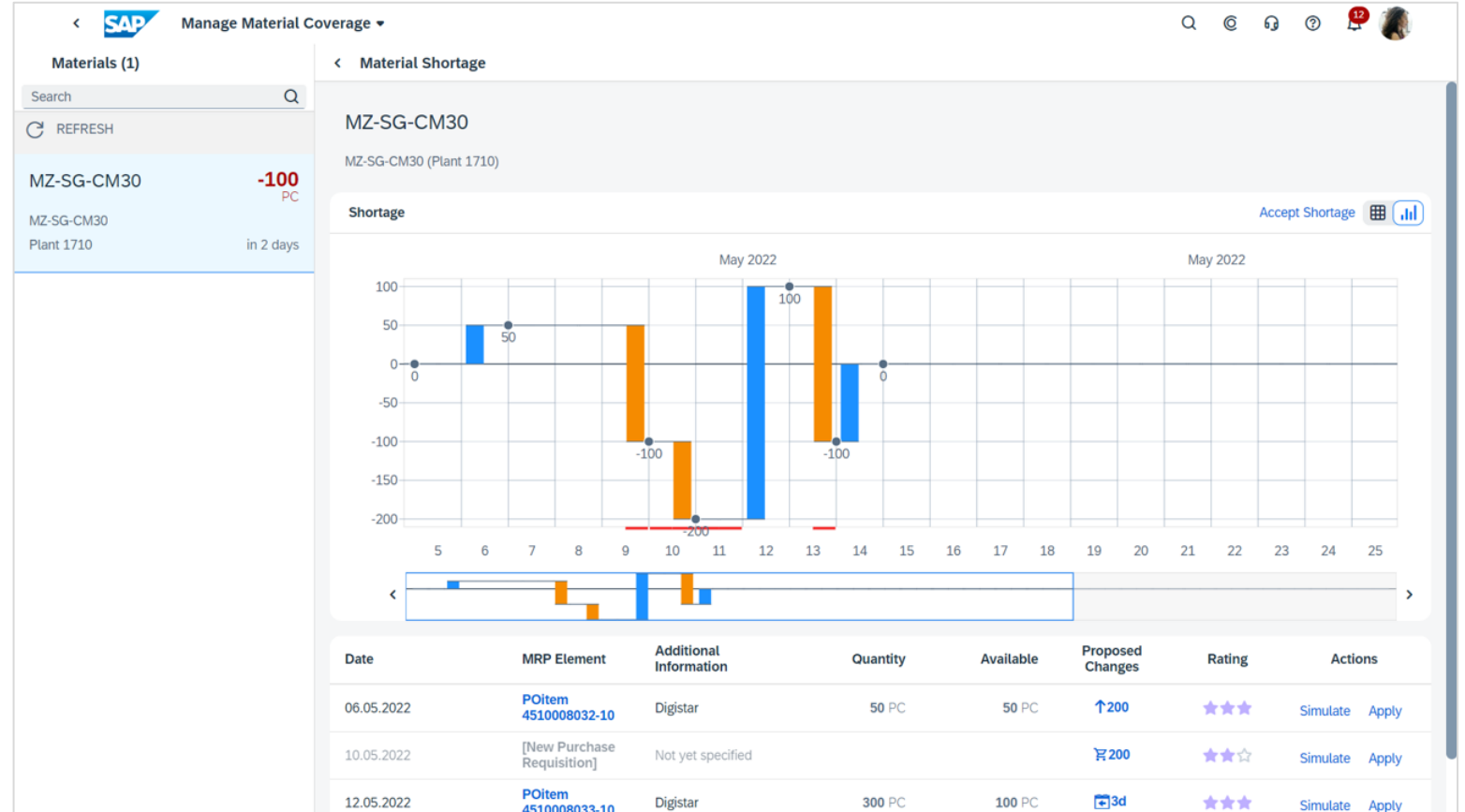
[Link to documentation](#)



## SAP Fiori Manage Material Coverage

### Manage Material Coverage

- Stock / Requirements Situation (former MD04)
- Visualization of MRP elements
- List view / graphical view
- Simulations / Proposals / Actions



[Link to documentation](#)

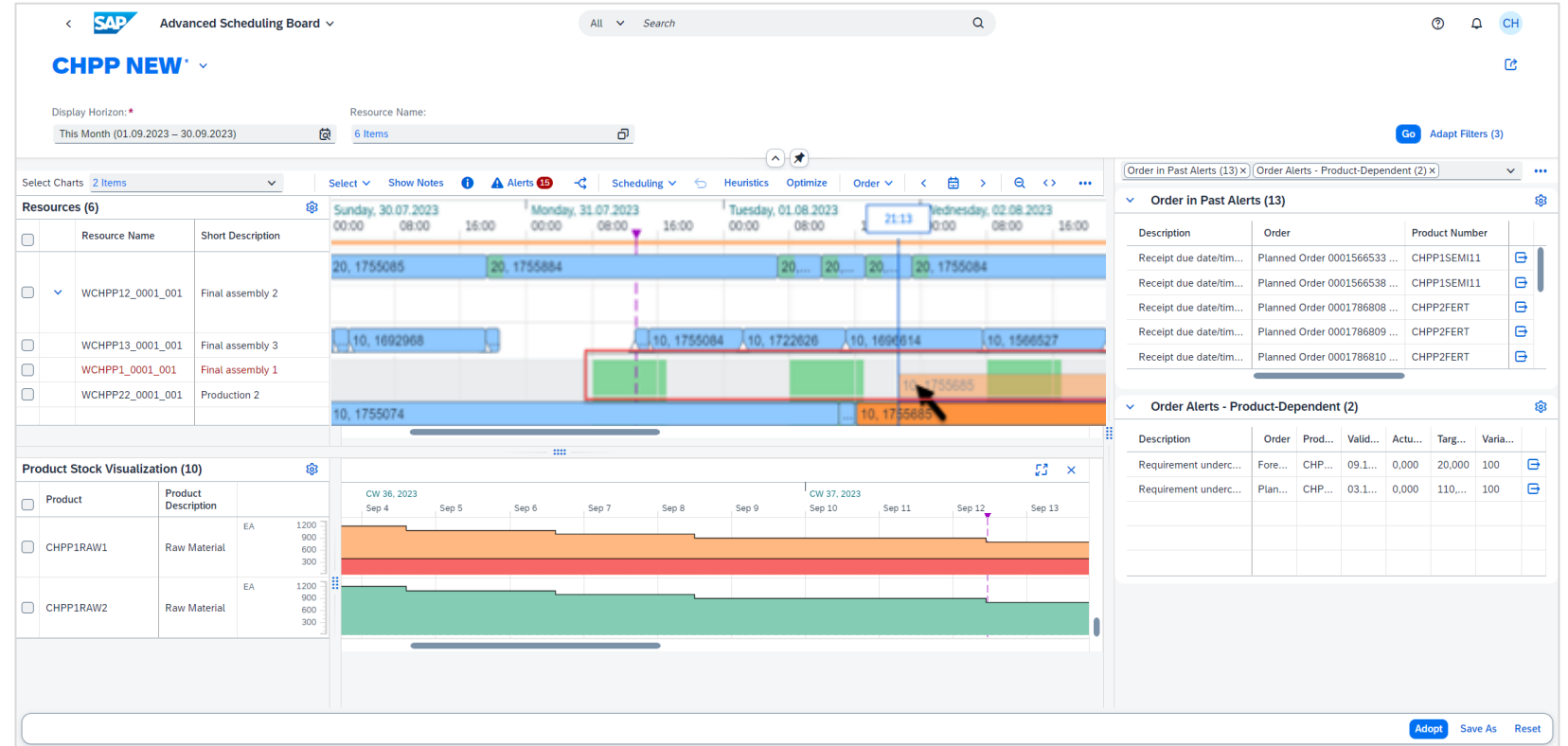


## SAP Fiori

### Advanced Scheduling Board in extended Planning and Scheduling (ePPDS)

#### Advanced Scheduling Board

- Resource availability
- Work center capacity
  - After dragging an operation with left mouse button, calendar areas of alternative resources are highlighted in green color
- Operations dependency
- Stock visibility
- Alert management



[Link to documentation](#)

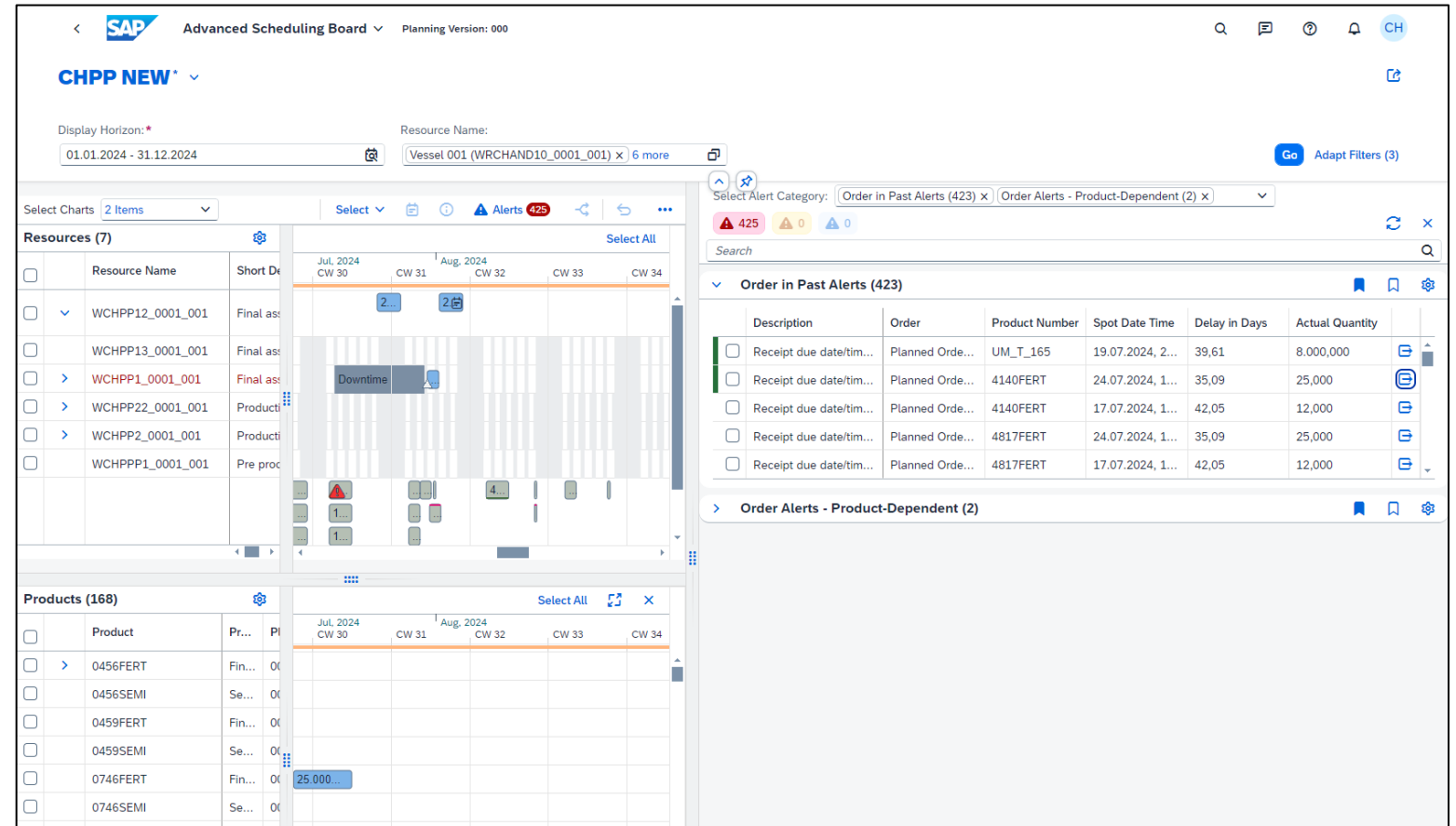


## SAP Fiori

### Advanced Scheduling Board in extended Planning and Scheduling (ePPDS)

#### New monitoring, alerting and analytics with Advanced Scheduling Board

- Calculation and presentation of KPIs
- Graphical visualization of KPIs based on the modern UI technology
- Flexible combination of KPIs in a dashboards
- New data extraction based on Live Cache CDS view technology
- Provide standardizes interface for PP/DS data extraction (succession of PP/DS BW extractors)
- Visualization content delivered in SAP Analytics Cloud



[Link to documentation](#)



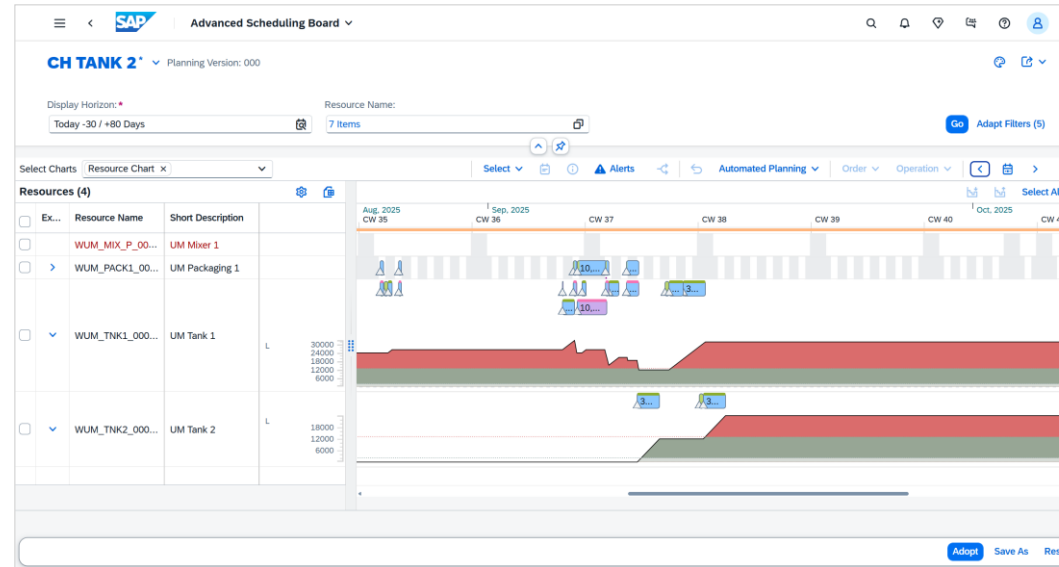


## SAP Fiori

### Advanced Scheduling Board in extended Planning and Scheduling (ePPDS)

#### Improved support of tank planning processes within Advanced Scheduling Board

- Display of detailed fill-level information on storage tanks within the resource chart of Advanced Scheduling Board
- Color of graphical order- and operation shapes can be configured based on business context
- New App: Adjust Fill Levels



[Link to documentation](#)



- my Area of Responsibility
- Manage Order Status
- Order Information
- Component availability
- Order Schedule
- Confirmations
- Inspections
- Settlement

[Link to documentation](#)

PUBLIC



### Check Optimization Log

- Enables viewing comprehensive details about optimization runs, including status indicators, runtime metrics, and detailed sub-logs covering input parameters, location products, results, costs, and solution quality metrics.

<
Check Optimization Logs ▾

---

**20250205\_161156\_2587815792**

**Optimizer Log Properties**

Start Date Time: 05.02.2025, 16:11:56  
User Name: Uwe Müller (MUWE)

Delays
Fixings
Delay: Resources
Delay: Products
Deallocations
Solutions
Partial Solutions
Reschedulings - Result

### Delays (33) ▾

Order Number	Operation	Category	Required Date Time	Planned Date Time	Delay	Explanation	
1815176	0010	PIOrd.	06.02.2025, 23:59:59	25.02.2025, 13:40:00	18, 13:40:01	Demand	>
1815168	0010	PIOrd.	07.02.2025, 23:59:59	20.02.2025, 12:05:34	12, 12:05:35	Demand	>
1815161	0010	PIOrd.	07.02.2025, 23:59:59	20.02.2025, 09:18:54	12, 09:18:55	Demand	>
1815176	0010	PIOrd.	13.02.2025, 23:59:59	25.02.2025, 13:40:00	11, 13:40:01	Demand	>
1815167	0010	PIOrd.	07.02.2025, 23:59:59	19.02.2025, 11:37:47	11, 11:37:48	Demand	>
1815191	0010	PIOrd.	13.02.2025, 23:59:59	24.02.2025, 16:08:55	10, 16:08:56	Demand	>
616605	0010	PIOrd.	06.02.2025, 23:59:59	17.02.2025, 14:32:16	10, 14:32:17	Demand	>
616622	0010	PIOrd.	07.02.2025, 23:59:59	18.02.2025, 13:40:00	10, 13:40:01	Demand	>
616610	0010	PIOrd.	04.02.2025, 23:59:59	15.02.2025, 10:40:02	10, 10:40:03	Demand	>
616617	0010	PIOrd.	06.02.2025, 23:59:59	17.02.2025, 10:38:56	10, 10:38:57	Demand	>

[More](#)  
[ 10 / 33 ]

### Fixings



# SAP Fiori

## Monitor Receipts



### Monitor Receipts

- Lists all receipt elements with key properties like planning version, planning segment, location, product, quantities, dates, ATP status, alerts, KPIs (like multi-level time buffers) and supports simulation sessions that can be merged or discarded.

SAP

Monitor Receipts

Loading... |

CH

MSE

Set Plan. Version

Planning Version: \*

000

Planning Horizon: \*

Last 4 Weeks

Product:

MSE\_\* x

Location:

0001 x

PP/DS Alert Profile:

Michaels Alerts (MSE)

Go

Adapt Filters (5)

Receipts (8)

Navigation

Create

Delete

<input type="checkbox"/>	Availability DateTL...	Category Name	Receipt Element	Receipt Quantity	Confirmed Quantity	Product	Location	Source Location	Sub
<input type="checkbox"/>	19.01.2025, 23:00:00	PurRqs	18342726/000010	12.599,833 KG	0,000 KG	Raw chips (MSE_CHIPS_RAW)	Plant 0001 (0001)		>
<input type="checkbox"/>	19.01.2025, 23:34:24	PIOrd.	2815766	172 EA	0 EA	200g Bag of Fried Chips (MSE_CHIPS_BAG200)	Plant 0001 (0001)	Plant 0001 (0001)	>
<input type="checkbox"/>	31.01.2025, 22:59:59	PIOrd.	2815754	12.599,833 KG	0,000 KG	Fried chips (MSE_CHIPS_FRIED)	Plant 0001 (0001)	Plant 0001 (0001)	>
<input type="checkbox"/>	31.01.2025, 23:00:00	PurRqs	18342727/000010	25.199,667 KG	0,000 KG	Raw chips (MSE_CHIPS_RAW)	Plant 0001 (0001)		>
<input type="checkbox"/>	03.02.2025, 00:20:00	PIOrd.	2815765	400 EA	0 EA	200g Bag of Fried Chips (MSE_CHIPS_BAG200)	Plant 0001 (0001)	Plant 0001 (0001)	>
<input type="checkbox"/>	17.02.2025, 14:02:35	Stock	/0001/CC	250 EA	250 EA	Test Material for Forecast Consumption (MSE_...	Plant 0001 (0001)		000 >
<input type="checkbox"/>	17.02.2025, 14:02:35	Stock	/0001/CC	100 EA	100 EA	Material used in Substitution Scenario (MSE_S...	Plant 0001 (0001)		000 >
<input type="checkbox"/>	28.02.2025, 22:59:59	PIOrd.	2815744	25.199,667 KG	0,000 KG	Fried chips (MSE_CHIPS_FRIED)	Plant 0001 (0001)	Plant 0001 (0001)	>

[Link to documentation](#)



# SAP Fiori

## Manage Production Models - Materials

### Manage Production Models - Materials

- Maintain production models for single-level, non-unitized materials. The production model provides a joint view of the manufacturing bill of material (MBOM) and the shop floor routing to facilitate hand-in-hand definition of the MBOM and shop floor production steps, supported by a 3D visual of the header material of the BOM, if available.

**SAP Material Production Model** My Favorites Search in: "My Favorites"

Air Intake Assembly (0001-001-DSM-780-INTAKE\_ASM)  
Plant: 0001 (Plant 0001), Production Model Version: 2, Production Model Status: In Process

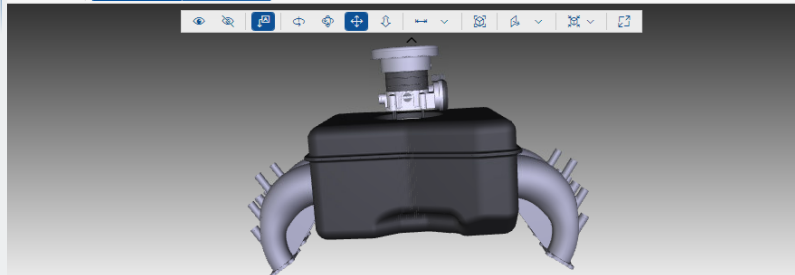
**BOM Components** Standard Show Item Assignments

Item Number	Item Category	Com...	Component Description	Quantity	Op. Acti...	Operation	Assignment Status	MRS Designator
<input type="checkbox"/> 0010	Stock item (L)	0001-001-	Inlet Funnel	1 EA	OA10	0010	1/1 EA	
<input type="checkbox"/> 0020	Stock item (L)	0001-001-	Carb Flap	1 EA	OA10	0010	1/1 EA	
<input type="checkbox"/> 0030	Stock item (L)	0001-001-	Rubber Ring	1 EA	OA10	0010	1/1 EA	
<input type="checkbox"/> 0040	Stock item (L)	0001-001-	Throttle Body	1 EA	OA10	0010	1/1 EA	
<input type="checkbox"/> 0050	Stock item (L)	0001-001-	Ring Flange Gasket	1 EA	OA10	0010	1/1 EA	
<input type="checkbox"/> > 0060	Stock item (L)	0001-001-	HEX Head Flange Bolts	4 EA	OA20	0010	4/4 EA	
<input type="checkbox"/> 0070	Stock item (L)	0001-001-	Upper Part Airbox sub-assembly	1 EA	OA20	0010	1/1 EA	
<input type="checkbox"/> 0080	Stock item (L)	0001-001-	Lower Airbox sub-assembly with filter	1 EA	OA10	0020	1/1 EA	
<input type="checkbox"/> > 0090	Stock item (L)	0001-001-	Exhaust HDR Pipe	4 EA	OA10	0020	4/4 EA	
<input type="checkbox"/> > 0100	Stock item (L)	0001-001-	Hex Flange Bolt M6X12	16 EA	OA20	0020	16/16 EA	
<input type="checkbox"/> > 0110	Stock item (L)	0001-001-	Gasket for Air Intake	4 EA	OA10	0030	4/4 EA	
<input type="checkbox"/> 0120	Stock item (L)	0001-001-	Locking	1 EA	OA20	0030	1/1 EA	
<input type="checkbox"/> 0130	Stock item (L)	EW-COMP	EW component 1	1 EA	OA10	0030	1/1 EA	
<input type="checkbox"/> 0140	Stock item (L)	EW-COMP	EW component 1	1 EA	OA10	0030	1/1 EA	
<input type="checkbox"/> 0150	Stock item (L)	LOKO-WHEEL	Aluminum wheel	4 EA	OA20	0030	4/4 EA	
<input type="checkbox"/> 0160	Stock item (L)	LOKO-SSPOK	5-spoke aluminum wheel	4 EA	OA20	0030	4/4 EA	
<input type="checkbox"/> 0170	Stock item (L)	LOKO-7SPOK	7-spoke aluminum wheel	4 EA	OA20	0030	4/4 EA	

**Production Steps** Standard Show Components

Production Step	Production Step Type	Group
✓ Air Intake Assembly (0001-001-DSM-780-INT...	Assembly	
Operation 10 (0010)	Operation	
Operation activity 10 (OA10)	Operation Activity	
Operation activity 20 (OA20)	Operation Activity	
> Operation 20 (0020)	Operation	
> Operation 30 (0030)	Operation	

**BOM Visual** BOM Component Production Step



[Link to documentation](#)



## SAP Fiori Manage Certificate Receipts

Standard\* 1 filter active: Certificate Type

Certificate Receipts (97)

Certificate	Certificate Type	Certificate Status	Certificate Receiv...	Material
Certificate Type: Cert. of conformity "2.1" EN 10204 (E21)				
2051	Cert. of conformity "2.1" EN 10204 (E21)	Received	31.07.2024	FLOG-SP14-QM (FLOG-SP14-QMC1)
1902	Cert. of conformity "2.1" EN 10204 (E21)	Expected		Window Motor (IP1)
1901	Cert. of conformity "2.1" EN 10204 (E21)	Stored and Checked	30.03.2023	Window Motor (IP1)
1852	Cert. of conformity "2.1" EN 10204 (E21)	Expected		Small part, fast-moving 01 (EK-PROD-S01-QM)
1851	Cert. of conformity "2.1" EN 10204 (E21)	Received	08.02.2023	Window Motor (IP1)
1801	Cert. of conformity "2.1" EN 10204 (E21)	Received	08.02.2023	Window Motor (IP1)
1752	Cert. of conformity "2.1" EN 10204 (E21)	Expected		Window Motor (IP1)
1751	Cert. of conformity "2.1" EN 10204 (E21)	Expected		Window Motor (IP1)
1701	Cert. of conformity "2.1" EN 10204 (E21)	Received	08.08.2022	Small part, fast-moving 01 (EK-PROD-S01-QM)
1652	Cert. of conformity "2.1" EN 10204 (E21)	Received	04.08.2022	Small part, fast-moving 01 (EK-PROD-S01-QM)
1651	Cert. of conformity "2.1" EN 10204 (E21)	Received	04.08.2022	Small part, fast-moving 01 (EK-PROD-S01-QM)
1601	Cert. of conformity "2.1" EN 10204 (E21)	Received	29.07.2022	Small part, fast-moving 01 (EK-PROD-S01-QM)
1553	Cert. of conformity "2.1" EN 10204 (E21)	Received	21.07.2022	Small part, fast-moving 01 (EK-PROD-S01-QM)
1552	Cert. of conformity "2.1" EN 10204 (E21)	Received	20.07.2022	Small part, fast-moving 01 (EK-PROD-S01-QM)
1551	Cert. of conformity "2.1" EN 10204 (E21)	Received	20.07.2022	Small part, fast-moving 01 (EK-PROD-S01-QM)
1512	Cert. of conformity "2.1" EN 10204 (E21)	Received	07.07.2022	Small part, fast-moving 01 (EK-PROD-S01-QM)
1401	Cert. of conformity "2.1" EN 10204 (E21)	Received	02.06.2022	Small part, fast-moving 02 (AI-PROD-S01-QM-CERT02)

1901 Draft Received Expected Receipt Canceled Defective

General **References** Attachments Inspection Lot Details Administrative Data

References

Logistics Documents

Material Document: 5002166601 Purchasing Document: 4503275944 Delivery Note: 2025-09-02-01A09

Material Document Item: 1 Purchasing Document Item: 10

Material Document Year: 2023

Certificate receipts exist for this purchasing document item that may already include the certificate as an attachment.

Other Certificate Receipts for Purchasing Document Item (1) Standard

Certificate	Certificate Type	Certificate Status	Certificate Receiv...	Purchasing Docum...	Purchasing Doc...	Delivery Note
1902	Cert. of conformity "2.1" EN 10204 (E21)	Expected		4503275944	10	

Attachments (1) Select Document Type to Upload: Demo object Upload Assign Document

certificate-453275944.jpg Draft

Manage Certificate Receipts lets you define certificate requirements in the material master and monitor that all required supplier quality certificates are received for each material, independent of goods receipt, via manual entries or automatic updates.

When procuring goods, you can require a supplier quality certificate with the shipment, in addition to technical delivery terms and quality assurance agreements. You can track certificate receipt independently of goods receipt and inspection lots, archive the certificate, and trigger automatic reminders for missing ones.



# SAP Fiori

## Record Inspection Results

Standard\* 1 filter active: Characteristic Status

Inspection Lots Operations Samples Master Inspection Characteristics

Record Results Record Multiple Results Accepted Open Rejected Skipped

Inspection ...	Material	Plant	Batch	Sample Size	Number of Charact...	Progress of...	Number of ...
11000000152	Material with Classification (MK_LSUM_WO_EWM)	Plant 0001 (0001)		1	EA	2 Rejected 0 Accepted 2 Skipped 0	>
11000000153	Material with Classification (MK_LSUM_WO_EWM)	Werk EW01 (EW01)		1	EA	2 Open 0 Rejected 0 Accepted 2 Skipped 0	>
11000000253	Material with Classification (MK_LSUM_WO_EWM)	Werk EW01 (EW01)	SAMP1	46	EA	3 Open 0 Rejected 1 Accepted 2 Skipped 0	>
11000000255	Material with Classification (MK_LSUM_WO_EWM)	Plant 0001 (0001)	SAMP2	460	EA	2 Open 0 Rejected 0 Accepted 2 Skipped 0	>
11000000256	Material with Classification (MK_LSUM_WO_EWM)	Werk EW01 (EW01)	SAMP1	192	EA	20 Open 16 Rejected 0 Accepted 4 Skipped 0	>
11000000257	Material with Classification (MK_LSUM_WO_EWM)	Plant 0001 (0001)	SAMP2	192	EA	16 Open 14 Rejected 0 Accepted 2 Skipped 0	>

### With Record Inspections Results app lets you

Record characteristic results for one or multiple inspection lots, including bulk entry across several lots.

Manually create defects at the lot, operation, or characteristic level.

View open and long-term characteristics by lot, operation, or master inspection characteristic; long-term characteristics remain recordable after short-term inspections are complete.

Inspection Object

Inspection Characteristics

10 Diameter

Specifications Results Attachments Changes

Results

Mean Value: 52,0  
Standard Deviation: 0

Inspected / Nonconforming: 46 0

Remark:  
The inspected product's critical characteristic is the outside diameter. The specified tolerance band is 40.00 mm to 50.00 mm, with a nominal (target) value of 45.00 mm. The measured value obtained during this inspection is 46.00 mm. Measurement was performed using a calibrated digital bore/outer micrometer (resolution 0.001 mm, calibration due: 2026-03-31). The part was conditioned at 20 ± 1 °C for at least 30 minutes prior to measurement; the instrument and gauge blocks were verified before use. A single-point measurement was taken at three circumferential orientations and two axial locations; the maximum reading recorded was 46.00 mm and the minimum was 45.98 mm, indicating roundness/ovality within 0.02 mm at the measurement plane.

Result: Conforms. The actual diameter of 46.00 mm falls inside the specification limits (LSL 40.00 mm, USL 50.00 mm) and is +1.00 mm from target, which is acceptable for assembly fit and downstream processing per control plan CP-DIA-07. Measurement uncertainty (expanded, k=2) is

Attribute:  
—

Additional Information:  
Hexagonal Screw (12)

Origin of Results Data:  
No. Above / Below:

Equipment master record

- Inspect conditional characteristics after prior required characteristics are accepted or rejected within the same operation.
- Use calculated characteristics to derive results with predefined formulas based on other characteristics.
- Capture test equipment/PRT details in the Additional Information field alongside characteristics for clearer, consistent quality records.
- Enter long text for characteristics and methods directly in results recording.
- Enjoy faster data access thanks to optimized data handling.



## SAP Fiori Manage Investigations

Standard

Search  All  Editing Status:  Type:  Status:  Team Member:  Incident ID:  [Adapt Filters](#)

Investigations (226)

ID	Investigation Reason	Type	Status	Team Members	Incident ID	Start Date	Planned End Date
231	Incident 30009 - 20251002031622	External Investigation	New	trit trit (1042)	30009		
230	Incident 29879 - 20250926034121	Internal Investigation	New	Philip Williams (605) - Christoph Klein (1048)	29879		
227	Near Miss 29783 - 20250917023334	Internal Investigation	In Progress	Dhinesh Kumar (243) - Niraj Chauhan (801)	29783	19.09.2025	31.10.2025
229	Safety Observation 29761 - 20250914022839	Internal Investigation	Closed	Philip William (629) - Pascale Van Laethem (1004491)	29761	19.09.2025	30.11.2025
228	Incident 29800 - 20250919031536	Internal Investigation	In Progress	trit trit (1042) - Cansu Bingol (1054) - Tony Stark (1004183)	29800	19.09.2025	
226	Incident 29792 - Investigation Step Record # 1	External Investigation	In Progress	Dhinesh Kumar (243) - Andreas Georg (1011345)	29792	19.09.2025	14.10.2025
225	Incident 29745 - 20250911033701	Internal Investigation	New	satish madala (1050)	29745		
224	Incident 29548 - 20250901021845	Internal Investigation	In Progress	New Vmodetwo user first New Vmode user last (1043)	29548	02.09.2025	
223	Safety Observation 29503 - test so with observed	Internal Investigation	New	AD MSS (804)	29503		
222	Incident 29520 - 20250828032553	Internal Investigation	Closed	EHS START (9980010368)	29520	28.08.2025	
221	Incident 29515 - 20250828030150	Internal Investigation	New	EHS START (9980010368)	29515		
220	Incident 29483 - 20250827021548	Internal Investigation	Closed	EHS START (9980010368)	29483	27.08.2025	
218	Incident 29473 - 20250826033019	Internal Investigation	In Progress	AD MSS (804)	29473	26.08.2025	
219	Incident 29472 - 20250826032913	Internal Investigation	New	Niraj Chauhan (801)	29472		
217	Incident 29457 - 20250826021550	Internal Investigation	Closed	EHS START (9980010368)	29457	26.08.2025	
216	Incident 29435 -	Internal Investigation	Closed	EHS START (9980010368)	29435	26.08.2025	

This feature enables you to manage investigations of workplace incidents and document investigation results in a dedicated app. The new **Manage Investigations** app (F7969), allows you to work on investigation records without needing authorization to edit the related incident records; you only need read access to the incidents.

Near Miss 29783 - 20250917023334

227

Type: Internal Investigation Expected Duration: 43 days Status: In Progress Location: -

Overview Plan Collect Analyze Notes

Timeline

Start Date: 19/09/2025 Planned End Date: 31/10/2025

In Days: 43

Days Elapsed: 43 Days Remaining: 0

Activities Overview

Open Activities: 2 Completed Activities: 0

Problems and Root Causes

No Root Cause: 0 Root Cause Identifi...: 0

Root Causes and Recommendations

No Recommendation: 0 Recommendation...: 0

Investigation Team

Dhinesh Kumar Investigation Lead

Niraj Chauhan Team Member

Open Activities

Activity	Type	Assignee	Due Date
act1	Root Cause Analysis	Niraj Chauhan	25.09.2025
Find Root Cause	Root Cause Analysis	Dhinesh Kumar	29.09.2025

You can plan the investigation process, set up an investigation team, collect evidence, identify root causes using problem analysis methodologies, and make recommendations for ways to prevent similar incidents in the future.

For more information: [Manage Investigations](#).





# SAP Cloud ERP Private differentiators

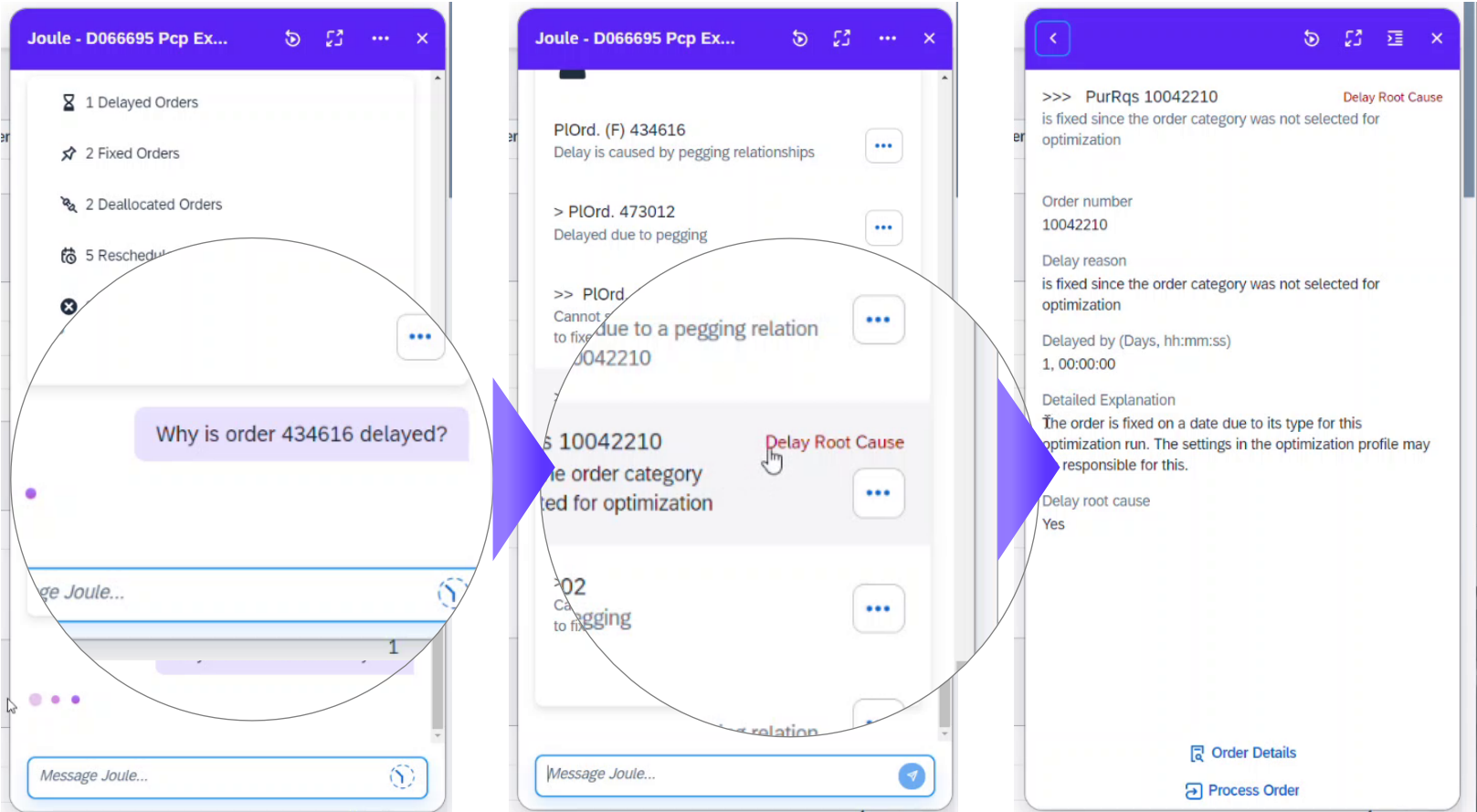
**Joule**



[Production Order](#)

[Process Order](#)

[Detailed Scheduling Optimization](#)





## SAP Cloud ERP Private differentiators

**Situation Handling**



## Intelligent technologies Situation Management

Some examples:

- [MRP: Material Exceptions Handling](#)
- [PEO: Production Defect Handling](#)
- [JIT Call Component Groups Due for Delivery](#)
- [JIT Call Due for Goods Issue Processing](#)
- [JIT Status of Jobs in Supply to Customer](#)

Blog series Situations Handling

Material Details

Individual Segment: CustSt 125081-10

⚠ MRP Material Exceptions

5 months ago

Exception Occurred for MRP Material

Close Situation

STOCK/REQUIREMENTS LIST

MATERIAL INFORMATION

NOTES (1)

Stock / Requirements List (0 Shortages)

Shortage Definition 

MRP Standard

The system cannot propose solutions for materials produced in-house.

Date	MRP Element	Actions	Additional Information
11/19/2025	CustSt		Domestic US Customer 1
11/19/2025	<div><div>🚚</div><div>☑</div><div>PrdOrd 2000121-1</div></div>	<div>Edit</div> <div>⌵</div>	Production Order Processing MTO

Notifications

Yesterday

MRP Material Exceptions

Cancel Process : ProdOrder 2000121-1 Material FG226 Plant 1710

22 hours ago

MRP Material Exceptions

Cancel process : ProdOrder 2000240-1 Material MZ-FG-F228 Plant 1710

22 hours ago

This Week

MRP Material Exceptions

Cancel Process : ProdOrder 2000121-1 Material FG226 Plant 1710

1 day ago

MRP Material Exceptions

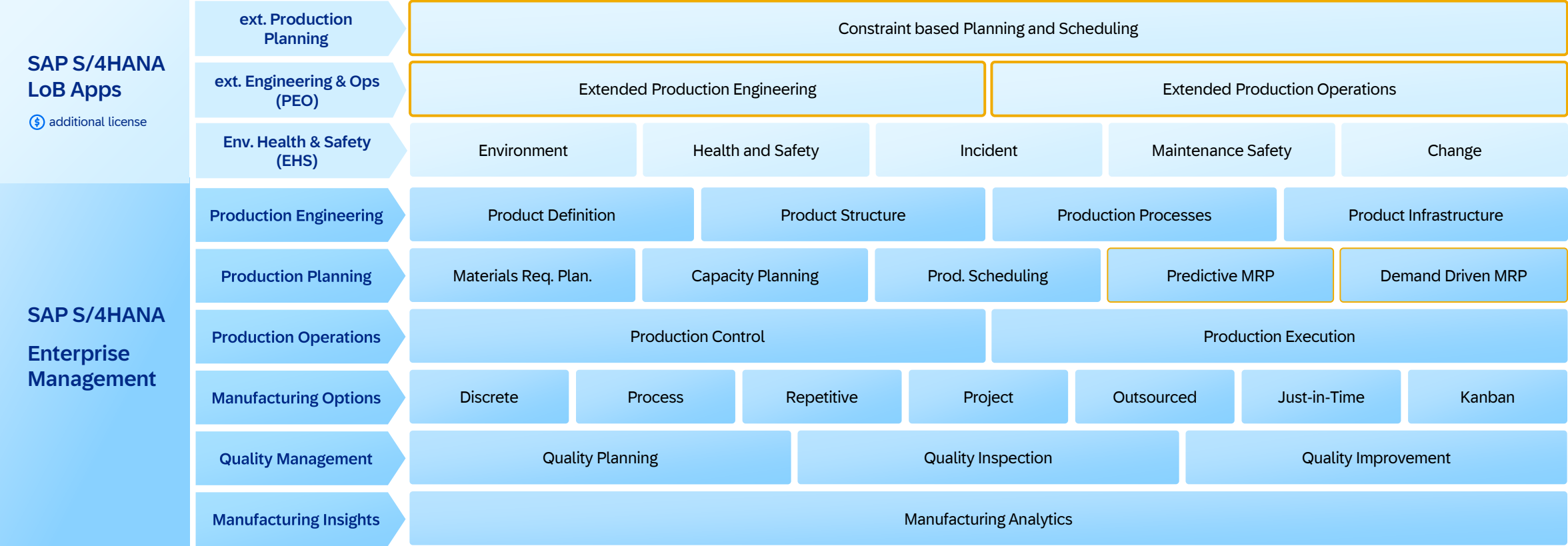
Cancel process : ProdOrder 2000240-1 Material MZ-FG-F228 Plant 1710

1 day ago



# New Business Processes

## Business Area and Business Capability Overview



New business capabilities in SAP S/4HANA

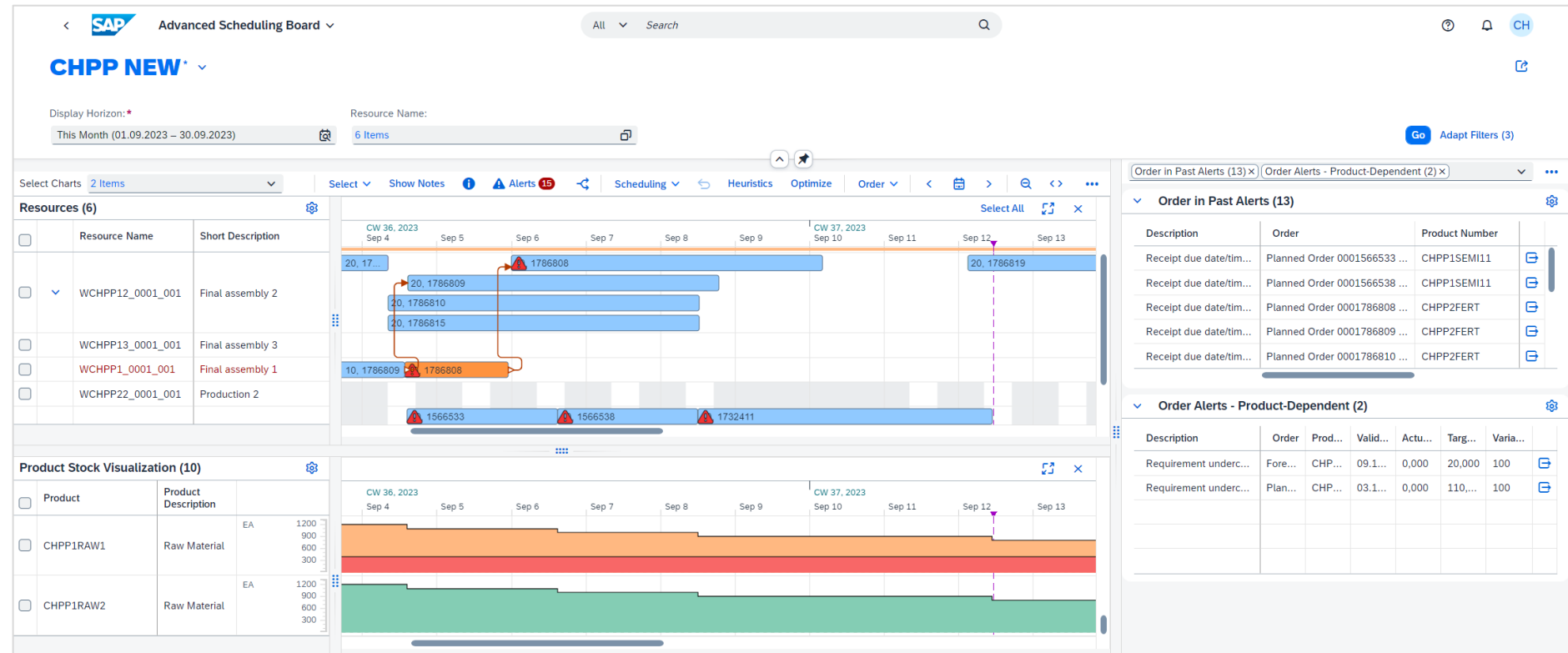


## New Business Processes and Functionalities

### Constrained Based Planning and Scheduling

#### Constraint based Planning with Production Planning / Detailed Scheduling( PPDS)

- Fine Planning, Production Scheduling with constraint capacity
- Advanced interactive planning board with graphical control
- Simplified integration with Production Planning and Control (PP) within SAP S/4HANA



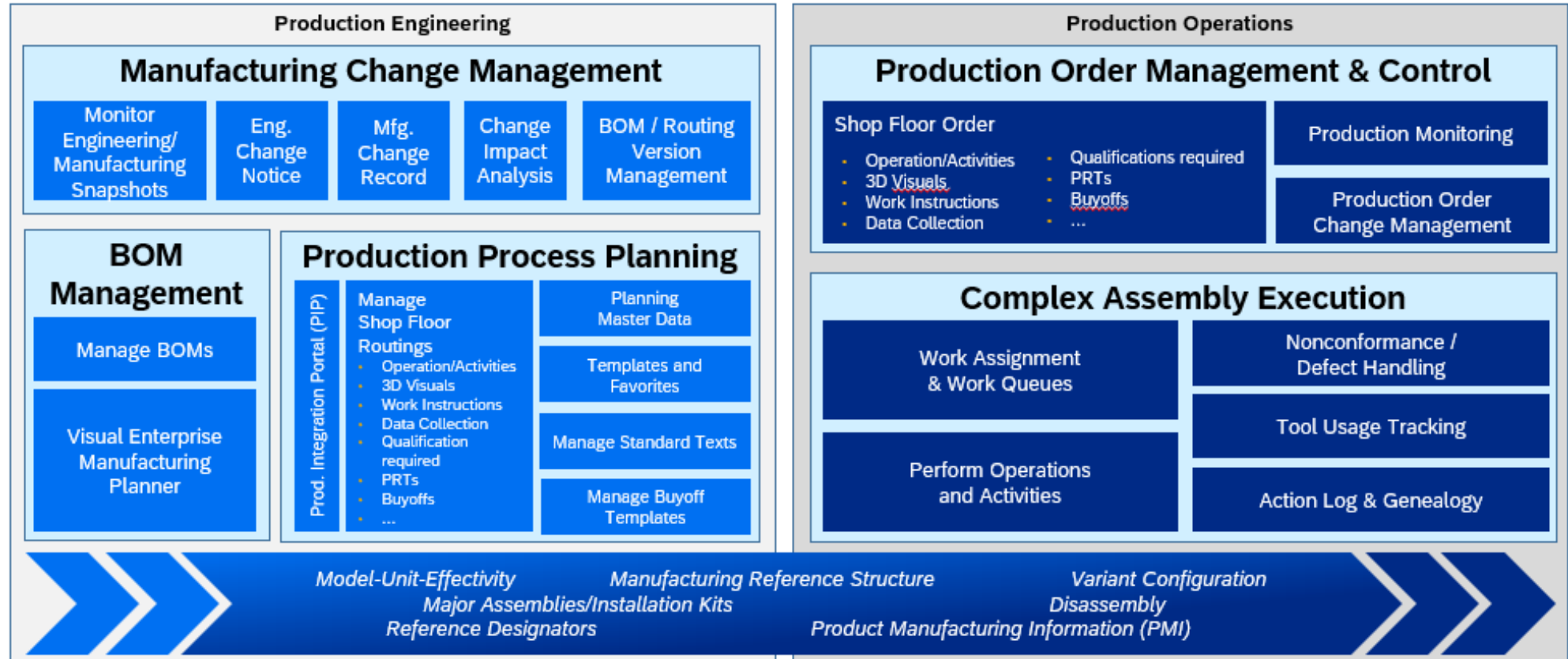
[Link to documentation](#)



## New Business Processes and Functionalities

### Extended Production Engineering | Extended Production Operations

- Extended Master Data Versioning
- Handover of Engineering BOM to Manufacturing BOM
- Advanced operations and confirmations (sign-off)



[Link to documentation](#)



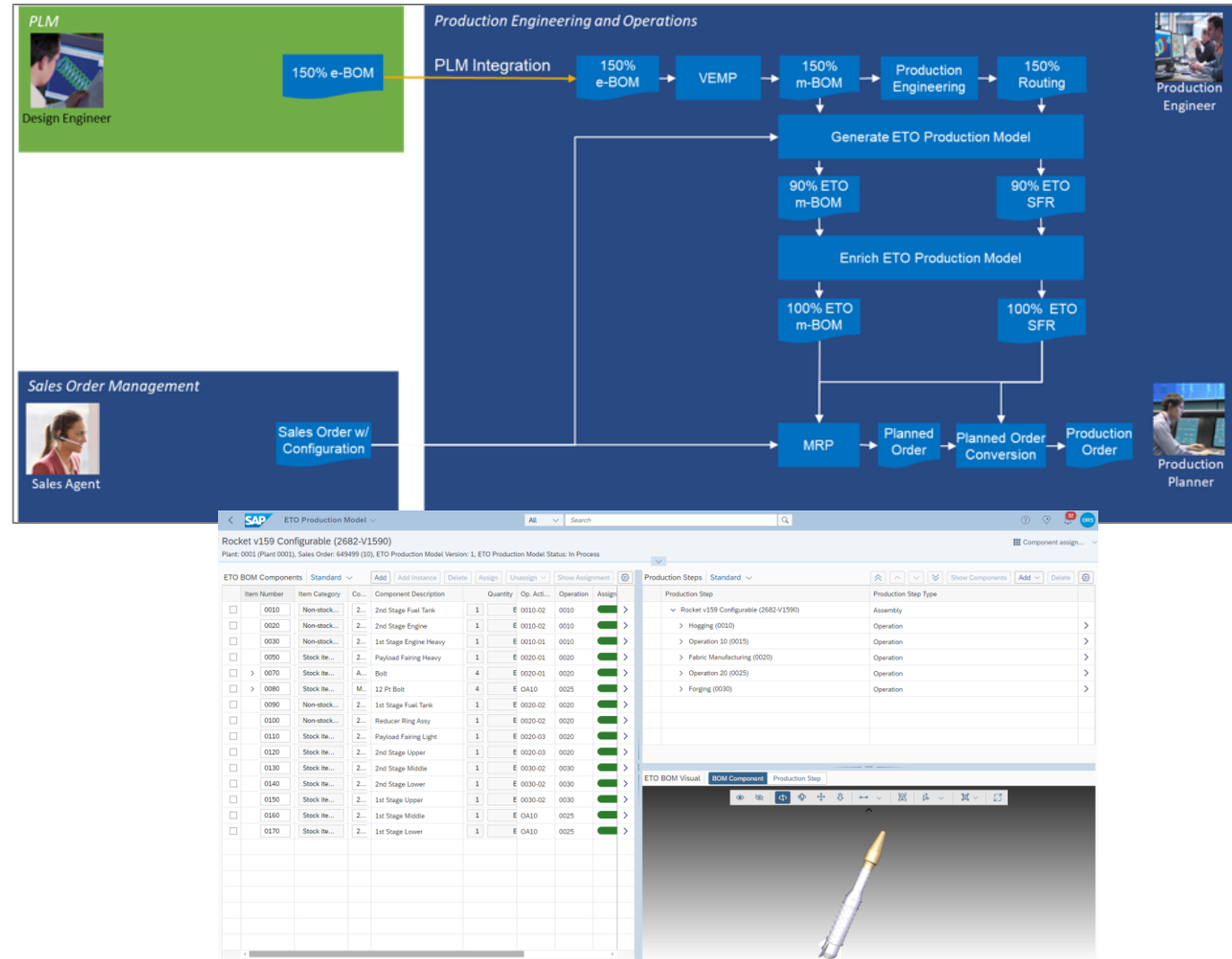
## New Business Processes and Functionalities

### Extended Production Engineering

Engineer-to-order: version-controlled bills of material and shop floor routings

- Create sales order specific BOM and Shop floor routing (or ETO Production Model) based on the 150% CTO production model
- Use Manage Production Model App to enrich the ETO production model. i.e. add/remove/modify BOM components or production steps
- Create production order for sales order item which utilises the ETO production model instead of generic CTO production model
- Flexibility to implement customer specific requirements in sales order specific production model without impacting the generic CTO production model

[Link to documentation](#)



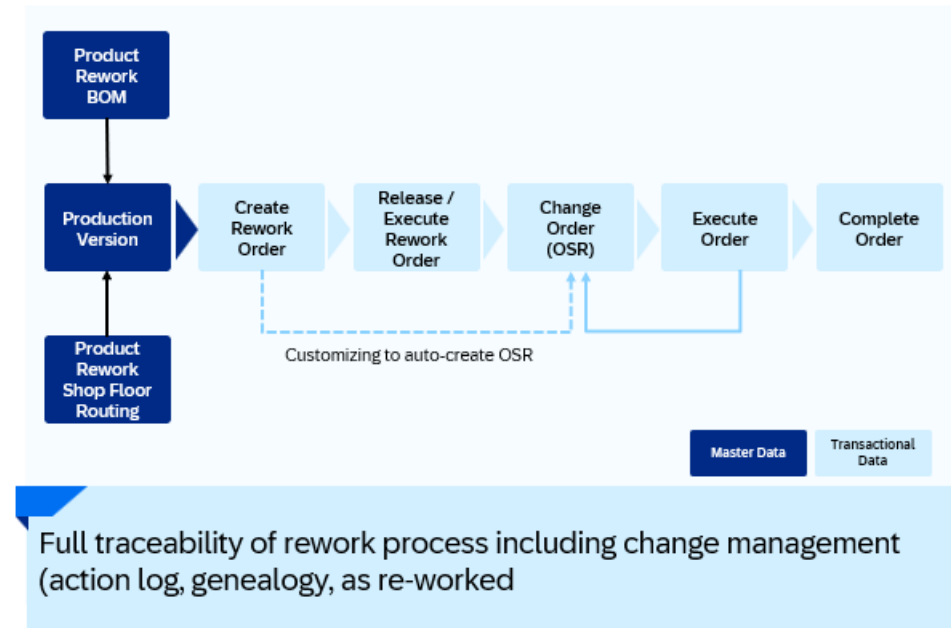
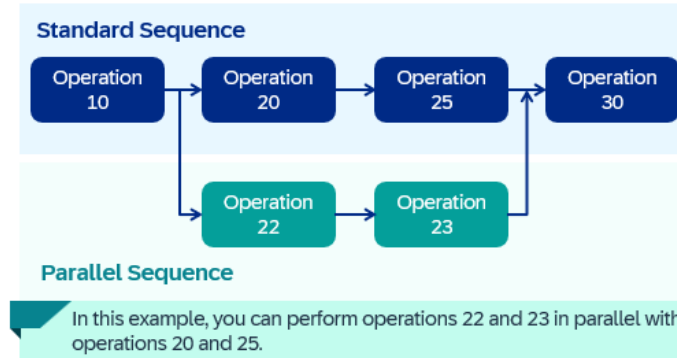




## New Business Processes and Functionalities

### Extended Production Engineering

- Creating parallel sequences in shop floor routing: A [parallel sequence](#) is a sequence of several operations that you can perform at the same time as a number of consecutive operations from a different sequence, which is usually the standard sequence.
- [Product rework](#) (reworking a product at any time after completion of its production order)
- [Product unitization](#) allows you to manage multiple configurations of an assembly and its production process plan (routing) in a way that all the possible units can be modeled using same super bill of material (BOM) and super routing.
- [Buyoffs](#) are an electronic way to approve the completion of a manufacturing activity performed on a shop floor.
- Support the use of global alternatives defined using simple discontinuation in the material master record by replacing components in a production order without having to update the BOM



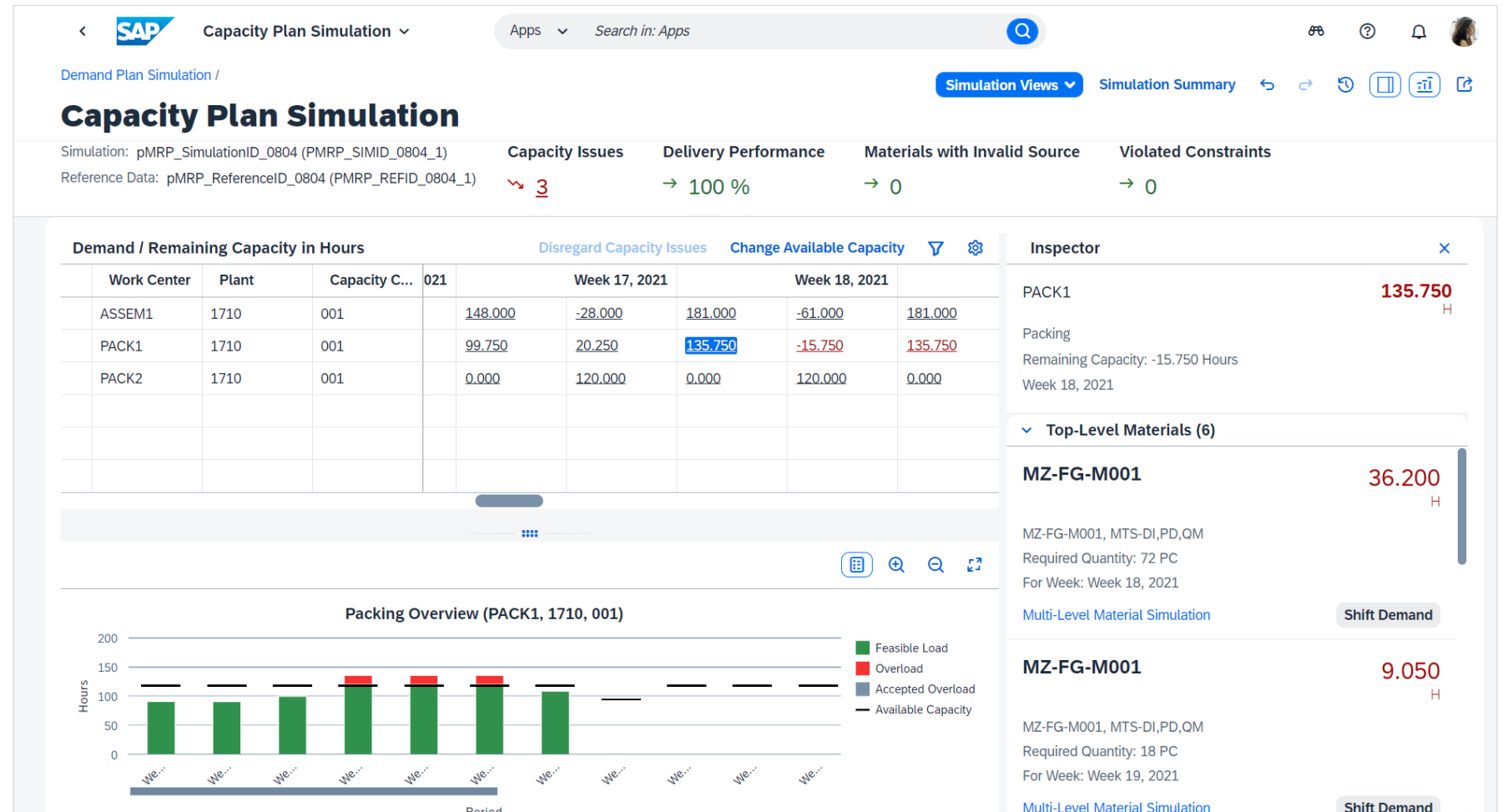


## New Business Processes and Functionalities

### Predictive Material and Resource Planning

- Midterm planning solution to influence capacity planning through MRP prediction
- Predict and simulate capacity constraints based on current MRP result
- Simulating and resolving capacity and material gaps in a plant before they occur

[Link to documentation](#)



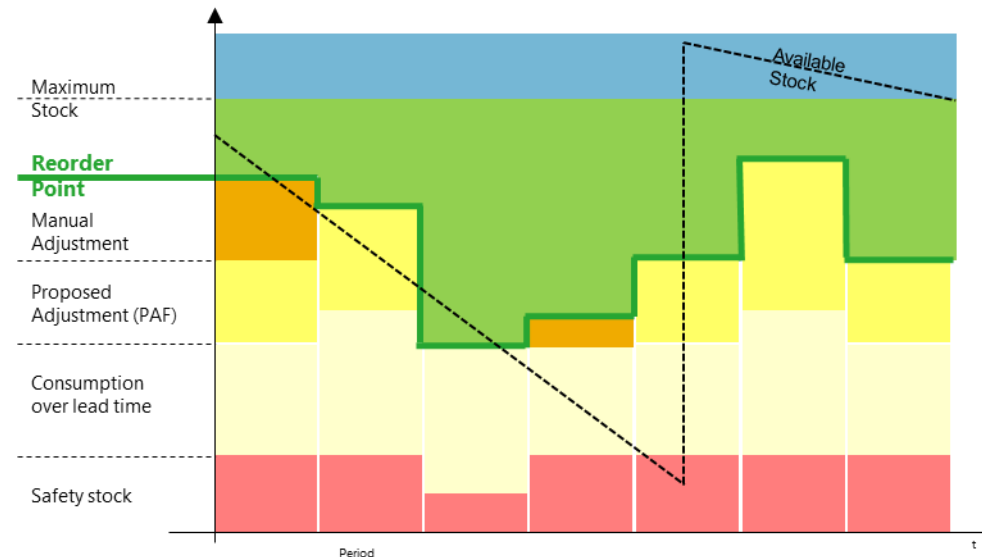
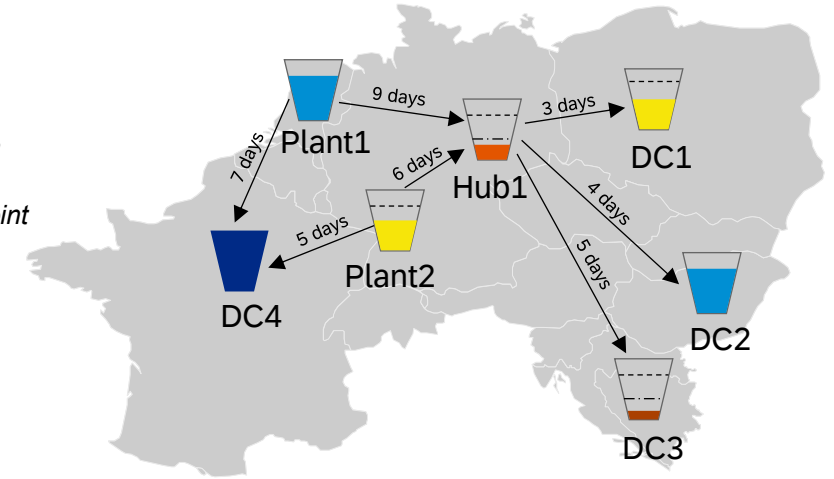
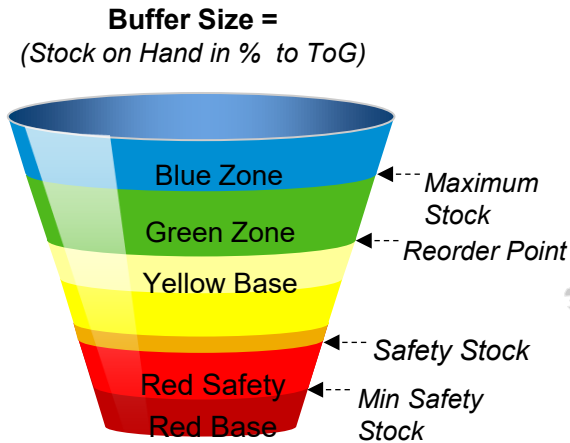


## New Business Processes and Functionalities

### Demand-Driven Replenishment

- **Buffer inventory** is based on target levels in strategic locations. Replenishment is triggered based on the average consumption over the lead time.
- Specific **MRP type** controls the consumption-based planning through parameters for:
  - Qualified demand
  - Qualified supply
  - Safety stock
  - Lot size
  - Reorder point

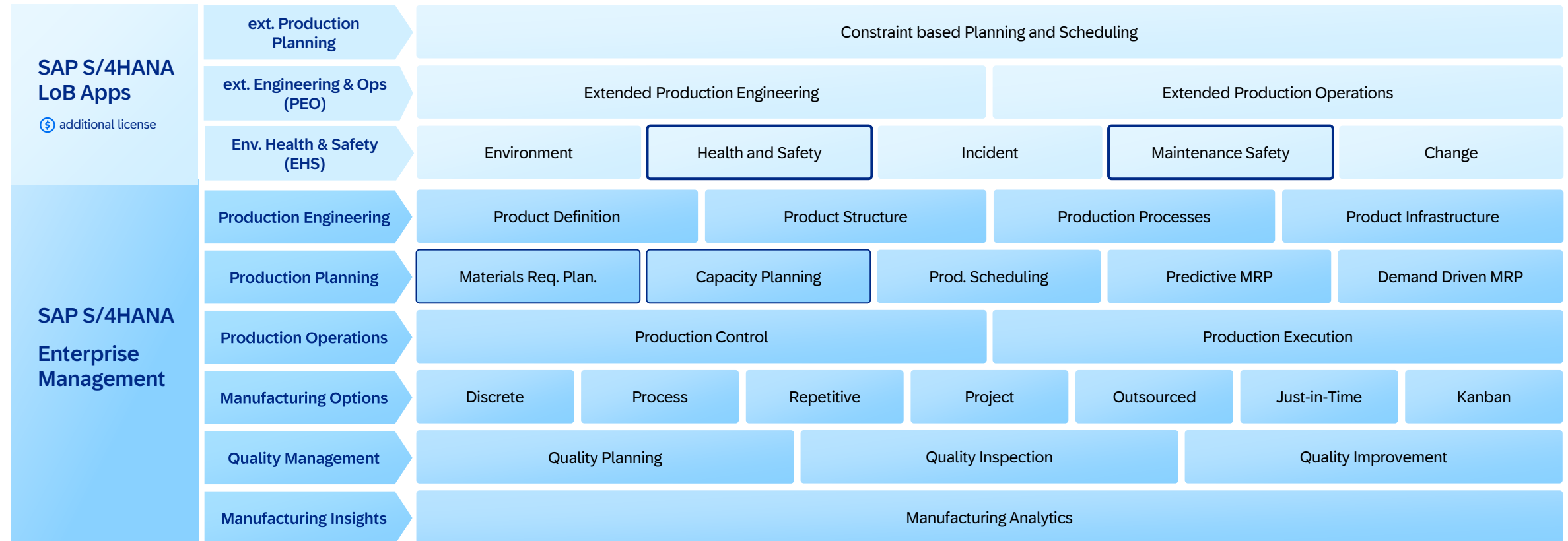
[Link to documentation](#)





## Updated Business Processes

### Business Area and Business Capability Overview



Updated business capabilities in SAP S/4HANA



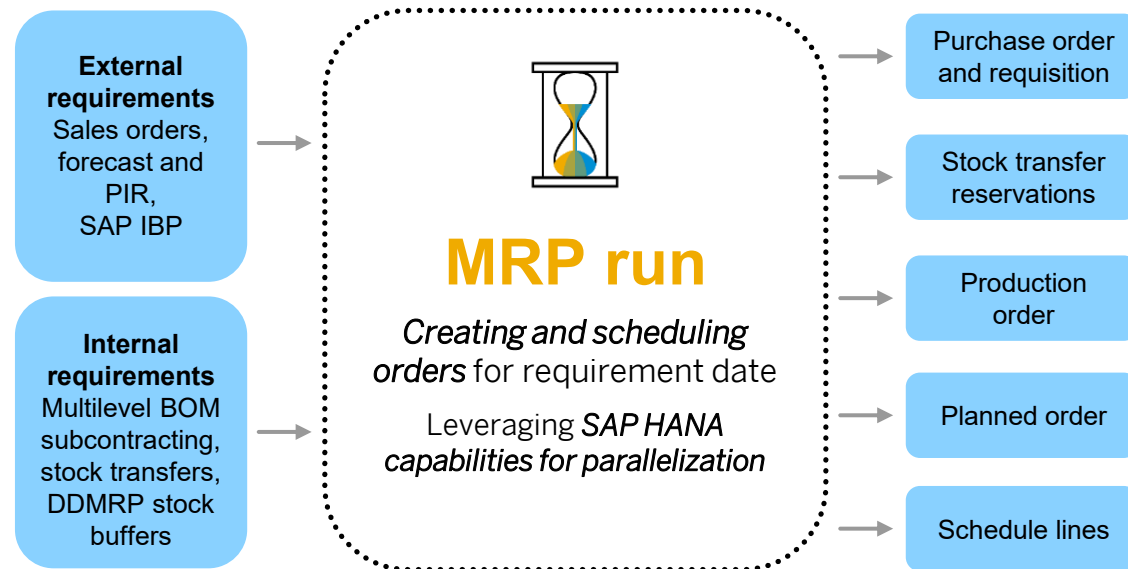
## Updated Business Processes & Functionalities

### Material Requirements Planning

#### Accelerated MRP (MRP live)

MRP optimized for SAP HANA database:

- **Significant performance improvements** (10-100 times faster, with less data load)
- **Shorter planning cycles** (multiple times a day)
- **Up-to-date supply and demand information** on which to base decisions
- **Matching demand and supply** more efficiently than was previously possible
- Improvements for **cross-plant planning**
- Foundation for **simulative** planning runs predictive MRP
- Materials relevant for SAP Integrated Business Planning (SAP IBP) or Production Planning and Detailed Scheduling (PP/DS) integration can also be planned using MRP live



[Link to documentation](#)

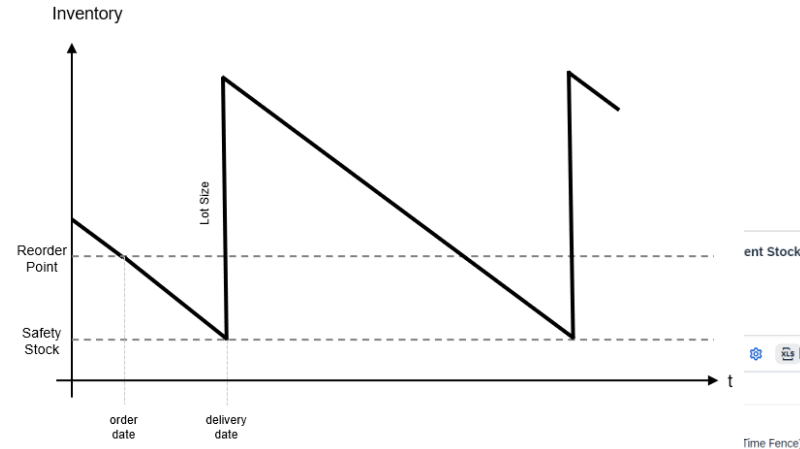


## Updated Business Processes & Functionalities

### Material Requirements Planning

#### Time dependent stock levels:

- Dynamic definition for Safety Stock and Reorder Point (Time series for previously static master data)
- Define phases for temporary adjustment of inventory levels (e.g. for campaigns or seasonal trends)
- No ongoing adjustment of master data required (less data maintenance required)



ent Stock ... Apps Search in: Apps

### MZ-FG-R13

R13 Bike

MRP Plant: 1710  
MRP Type: PD (Forecast Consumption, No Planning Time Fence)  
MRP Safety Stock Method: (Static Safety Stock)

#### Validity Intervals

Validity Intervals (3)

Date From	Date To	Safety Stock	Reorder Point	Target Stock	Max. Stock	Safety DOS
03/01/2023	03/31/2023	300 PC	600 PC	0 PC	0 PC	0.00 d
04/01/2023	04/30/2023	500 PC	800 PC	0 PC	0 PC	0.00 d
05/01/2023	12/31/9999	300 PC	600 PC	0 PC	0 PC	0.00 d

MRP Safety Stock Method: (Static Safety Stock)  
MRP Controller: MZ3

MZ-FG-R13  
Material Description: R13 Bike  
MRP Plant: 1710  
MRP Area: 1710  
MRP Type: PD (Forecast Consumption, No Planning Time Fence)  
MRP Safety Stock Method: (Static Safety Stock)  
MRP Controller: MZ4

MZ-FG-WL03  
Material Description: Material MZ-FG-WL03  
MRP Plant: 1710  
MRP Area: 1710  
MRP Type: PD (Forecast Consumption, No Planning Time Fence)  
MRP Safety Stock Method: (Static Safety Stock)  
MRP Controller: MZ4

MZ-RM-C900-01  
Material Description: Frame 900  
MRP Plant: 1710  
MRP Area: 1710  
MRP Type: PD (Forecast Consumption, No Planning Time Fence)  
MRP Safety Stock Method: (Static Safety Stock)

[Link to documentation](#)



## Updated Business Processes & Functionalities

### Capacity Planning

- Work Center Area of Responsibility:

Manage Work Center Capacity and work lists via **area of responsibilities**

97.310 %	195.550 %	CW39, 2023	254.000 H		Plant 1 GB (1110)
49.800 %	113.330 %		130.000 H		Plant 1 GB (1110)
37.540 %	88.880 %		98.000 H		Plant 1 GB (1110)
15.320 %	42.220 %		40.000 H		Plant 1 GB (1110)
12.260 %	50.000 %		32.000 H		Plant 1 GB (1110)

**App Settings**

- Area Of Responsibility
  - ☐ Plant and MRP Controller [Assign](#)
  - ☒ Work Center Group [Assign](#)
- Load Personalization [>](#)

- Manage Work Center Capacity:

Include Sales Order data for MTO in Operations Table

Manage Work Center Capacity											
ASSM_STD Standard Car Assembly											
Overview Operations Shifts											
Operations											
Items (9) Standard * All Overview											
Order	Order Category	Operation	Action	Product	Operation Start	Operation End	Operation Status	Planning Status	Capacity Require...	Operation Quantity	Sales Order
4000000213	Planned Order	0020	<a href="#">Reschedule</a>	STD_ELECTRIC_CAR Standard Electric Car	27.09.2023, 08:00:00 Europe, London	27.09.2023, 16:00:00 Europe, London	Created	Not Dispatched	8.000 H	2 EA	
1000284	PP Production Order	0020	<a href="#">Reschedule</a>	STD_ELECTRIC_CAR Standard Electric Car	27.09.2023, 08:00:00 Europe, London	04.10.2023, 12:00:00 Europe, London	Created	Not Dispatched	40.000 H	10 EA	5422
1000283	PP Production Order	0020	<a href="#">Reschedule</a>	STD_ELECTRIC_CAR Standard Electric Car	28.09.2023, 09:00:00 Europe, London	02.10.2023, 11:00:00 Europe, London	Released	Not Dispatched	20.000 H	5 EA	5419
4000000214	Planned Order	0020	<a href="#">Reschedule</a>	STD_ELECTRIC_CAR Standard Electric Car	04.10.2023, 10:00:00 Europe, London	04.10.2023, 14:00:00 Europe, London	Created	Not Dispatched	4.000 H	1 EA	
4000000215	Planned Order	0020	<a href="#">Reschedule</a>	STD_ELECTRIC_CAR Standard Electric Car	11.10.2023, 10:00:00 Europe, London	11.10.2023, 14:00:00 Europe, London	Created	Not Dispatched	4.000 H	1 EA	

- **Component availability date** in Capacity Scheduling table

Capacity Scheduling Table							
Standard *							
Schedule Overview Set Strategy							
Search		Evaluation Horizon: 01.09.2023 - 30.09.2023	Work Center:	Product:	Status:	Go Adapt Filters (1)	
Orders (6)							
Order	Product	Quantity	Requirement Date	Receipt Date	Work Center	Operation Start	Capacity Required
3319 Planned Order	SG1_CP CP-SG1, Shaft	1 PC	07.09.2023, 00:00:00	04.09.2023, 00:00:00	TURNING2 CP-WC2, Turning 2	04.09.2023, 07:00:00	0,920 H
Status Overview:			Issues:		Component Available Date: 30.08.2023, 00:00:00		

[Link to documentation](#)



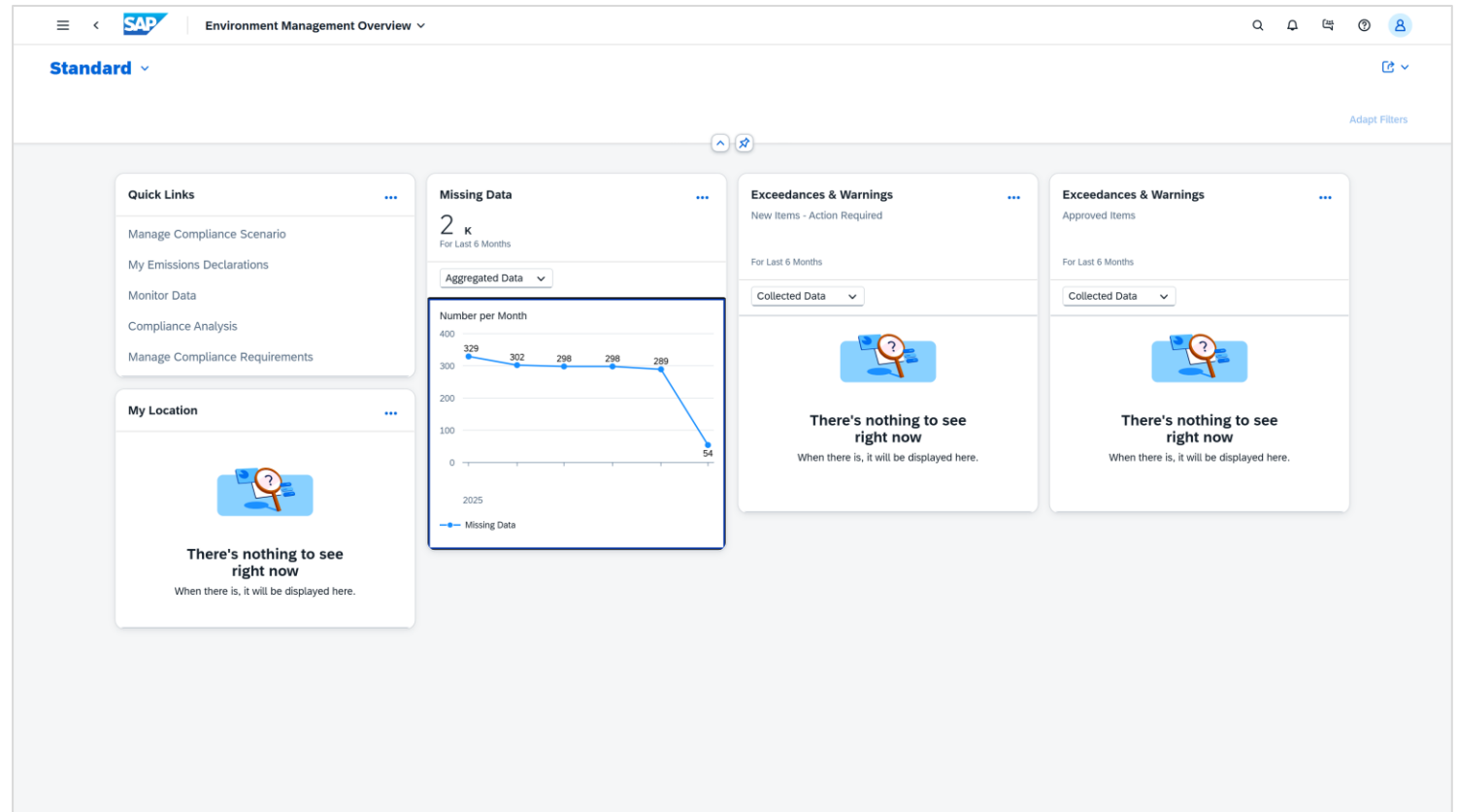
## Updated Business Processes & Functionalities

### Environment, Health & Safety (EHS)

#### Environment Management Overview:

The **Environment Management Overview** introduces an environmental dashboard. With it you can view all data issues with exceedances, warnings, and missing data from the last six months, collected within the Environment Management component. The app contains five data viewing cards, which you can drag and drop in the order that you want to display the data on the screen. Three of the cards show a month-by-month graph of data issues that are found in the system from the last six months (counted back from the current date). These numbers are collected for the location structure (including all sublocations) that the environmental manager is responsible for. This allows you, as the environmental manager, to access this data quickly and easily, all in one place.

[Link to documentation](#)





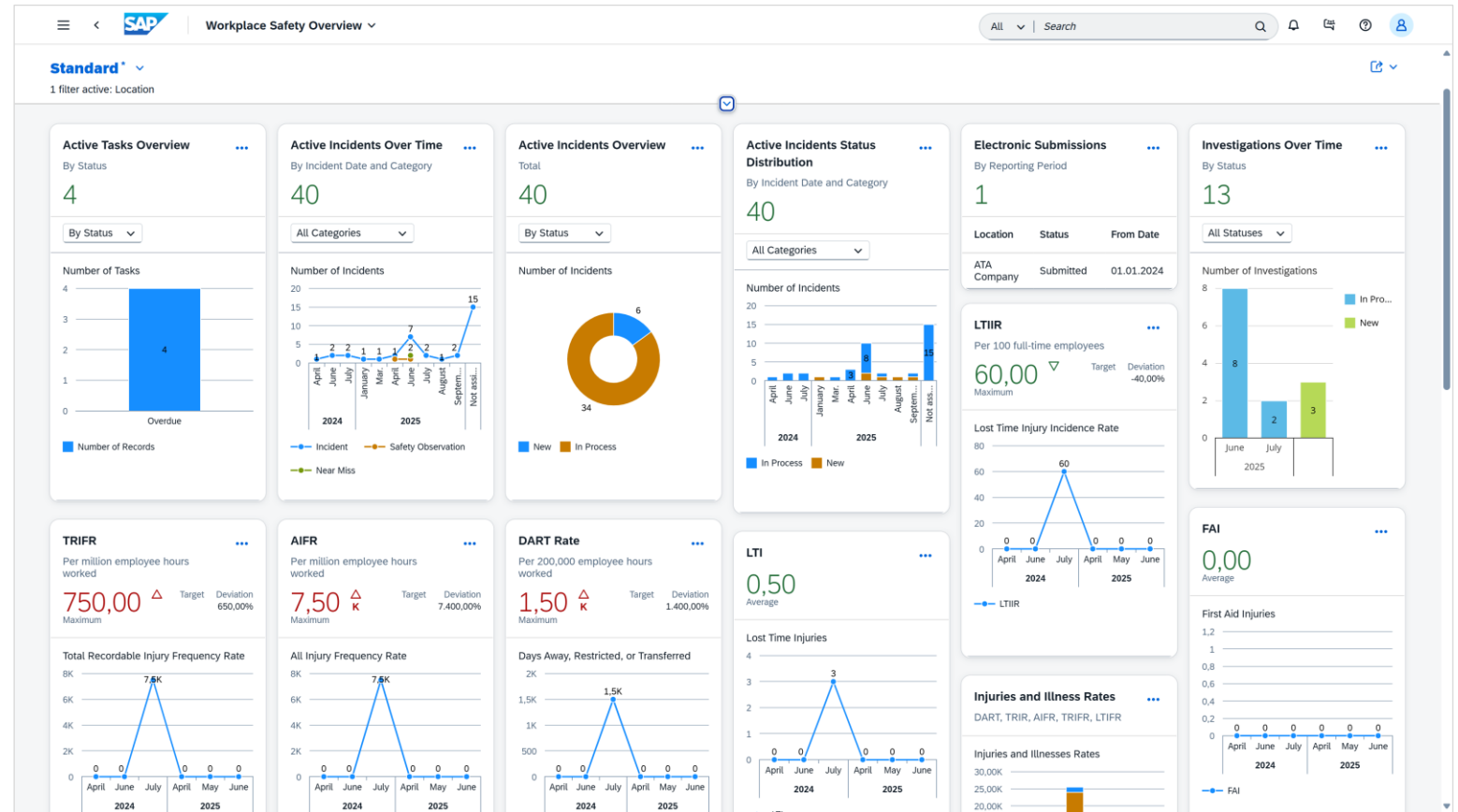


# Updated Business Processes & Functionalities

## Maintenance Safety

### Workplace Safety Overview

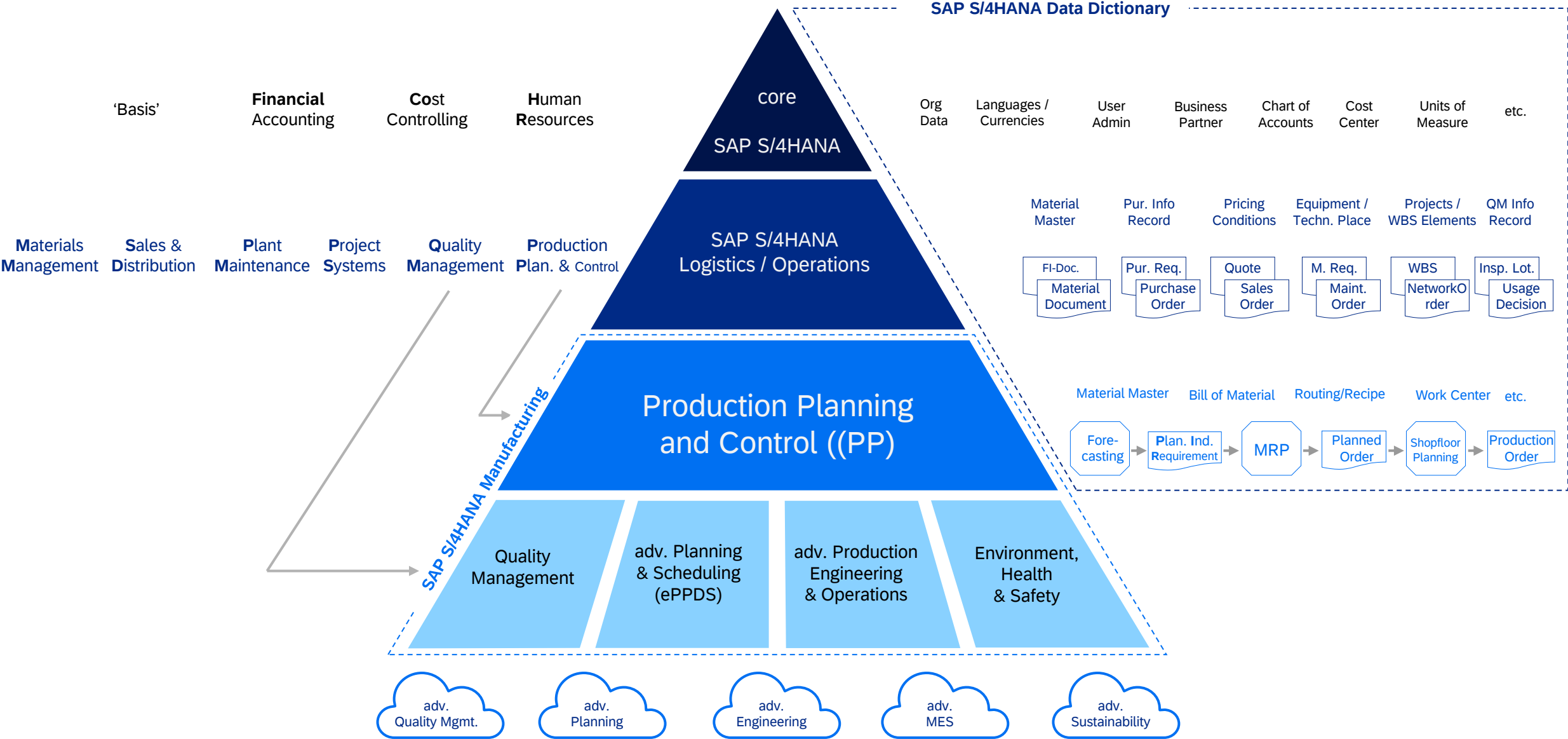
- The app now features a flexible layout that allows you to resize and arrange the cards according to your preferences.
- New cards provide you with additional insights into various aspects of workplace safety at your organization.
- You can monitor multiple safety metrics in real time, including monthly incidence and frequency rates of injuries and illnesses.
- New filters let you specify the location and time period that you want to include in the overview.
- You can navigate to records of incidents, investigations, and electronic submissions in the corresponding apps. You can also open the list of records that match the filter settings on a card by selecting the card's header.



[Link to documentation](#)

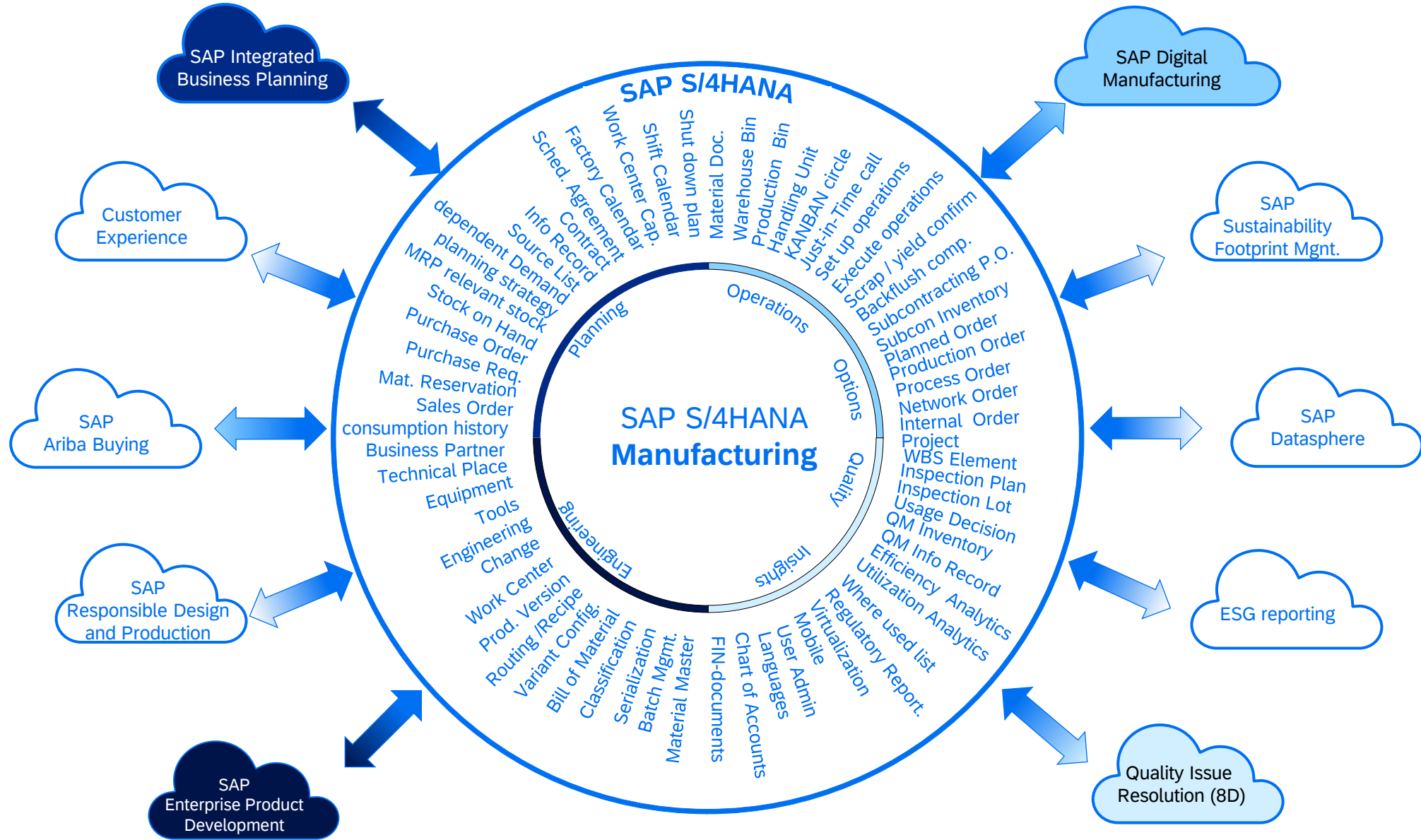


# Out-of-the-Box Integration





# Out-of-the-Box Integration





# Compatibility Packs in Manufacturing

## CP ID 443: Classical MRP lists

- Alternative option: MRP Fiori Apps
- Business Impact Note: [2268085](#)
- Simplification Item: [S4TWL - MRP in HANA](#)

## CP ID 450: Forecast Based Planning - Material Requirements Planning

- Alternative option: "MRP for Product Independent Requirements", part of SAP S/4HANA
- Business impact note: [2268064](#)
- Simplification item: [S4TWL - Forecast Based Planning](#)

## CP ID 451: Graphical Planning Table - Material Requirements Planning

- Alternative option: SAP S/4HANA Settlement Management
- Business impact note: [2268050](#)
- Simplification item: [S4TWL - Graphical Planning Table](#)

Additional CP in Manufacturing can be found in the 'Way Forward' sheet in <https://me.sap.com/notes/2269324>

# Service





## SAP Cloud ERP Private differentiators

# SAP HANA and Embedded Analytics



## SAP HANA and Real-time Analytics

### Service Management Overview

- Service Management Overview
- Expiring Service Contracts Analysis
- Service Contracts Analysis
- Manage Service Contracts
- Overdue Service Orders Analysis
- Service Orders Analysis

### Service Master Data and Agreement Management

- Expiring Service Contracts Analysis
- Service Contracts Analysis
- Manage Service Contracts
- Service Orders - Flexible Analysis

### Service Operations and Processes

- Overdue Service Orders Analysis
- Service Orders Analysis
- Service Contracts - Flexible Analysis

### Finances

- Display Line Items – Margin Analysis
- Product and Service Margins
- Even-Based Revenue Recognition

### Maintenance Management

- Maintenance Order Costs

### Analytic apps with SAP Analytics Cloud

- [Service Analysis for SAP S/4HANA](#)
- [Service Contract Dashboard](#)\*



## SAP Cloud ERP Private differentiators

# Data Products and Intelligent Applications






# Data products

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.

These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.

[Available data products](#)




Data Product

Service Contract

Data Product Service Contract

Version 1.0.1

ACTIVE




Data Product

Service Configuration Data

Data Product Service Configuration Data

Version 1.0.1

ACTIVE




Data Product

Service Confirmation

Data Product Service Confirmation

Version 1.0.1

ACTIVE



Data Product

Service Quotation

Data Product Service Quotation

Version 1.0.1

ACTIVE



# SAP Cloud ERP Private differentiators

**SAP Fiori**



# SAP Fiori

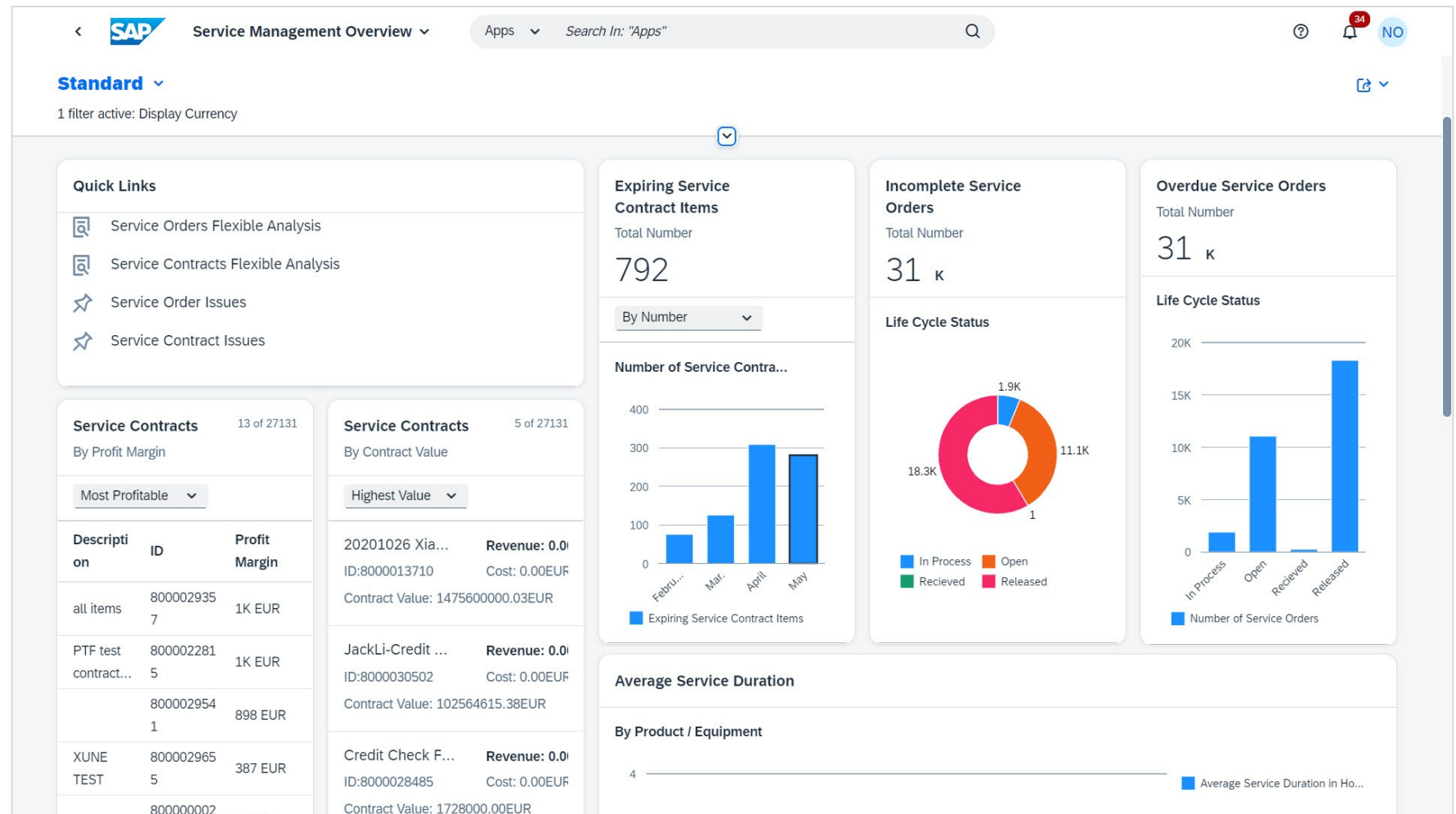


## Service Management Overview

Contains multiple reports in one dashboard

- Expiring Service Contracts Analysis
- Service Contracts Analysis
- Manage Service Contracts
- Overdue Service Orders Analysis
- Service Orders Analysis

[Link to documentation](#)





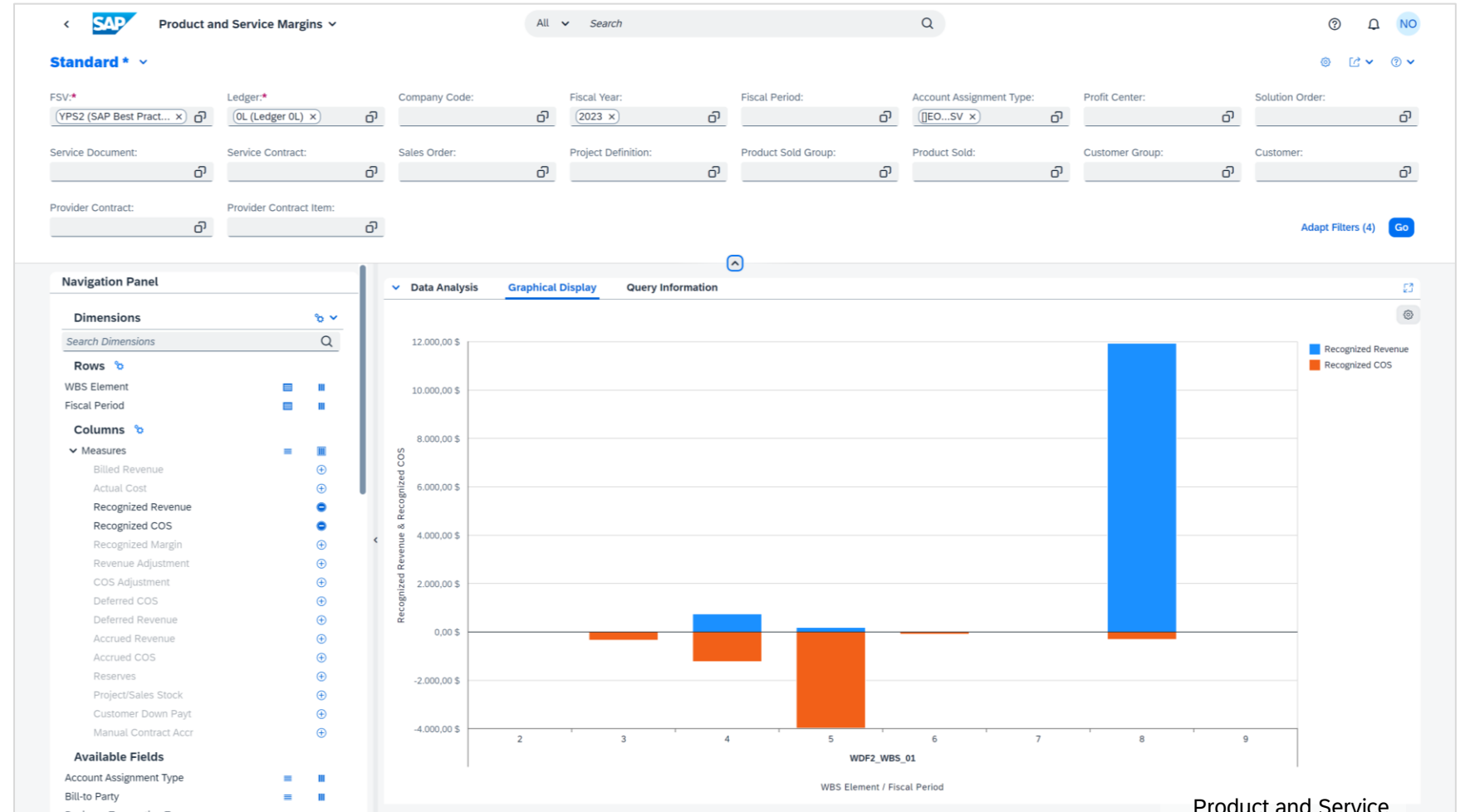
# SAP Fiori



## Product and Service Margins

- You can now use item-based accounting to record cost and revenue that have been incurred by service transaction items.
- For service order items, service contract items, and for Service with Advanced Execution, controlling objects are used for event-based revenue recognition.
- You can now assign work breakdown structure elements (WBS elements) as attributes to service transactions such as service contracts, service orders, or repair orders when you have enabled item-based accounting
- There are various reports you can use to analyze the margin, revenues and costs as they occur:

[Link to documentation](#)



Product and Service Margins showing a WBS element



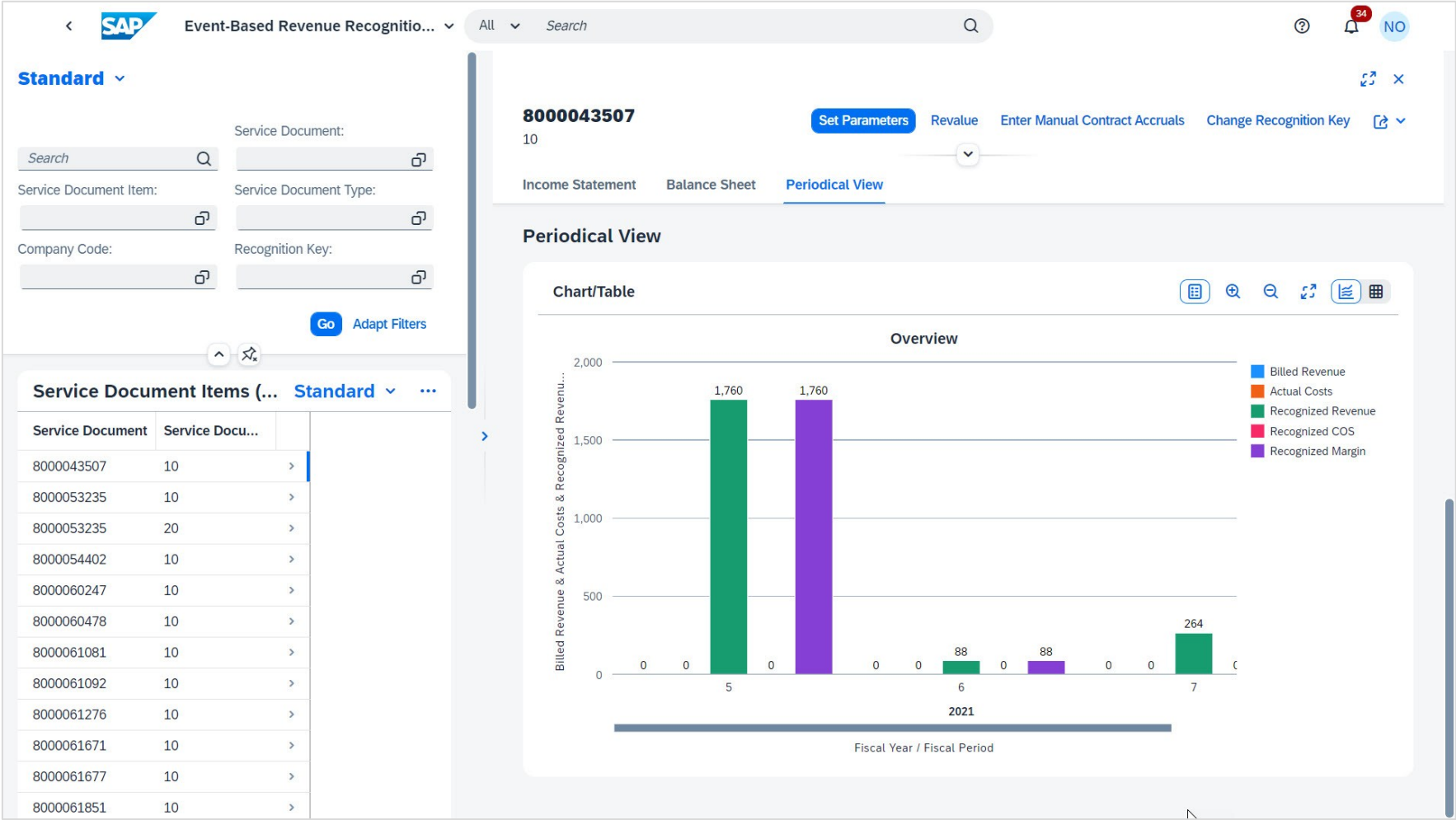
# SAP Fiori



## Even-Based Revenue Recognition

- With event-based revenue recognition, costs and revenues are recognized as they occur. Cost postings are continuously matched to revenues and immediately reported as expenses, while revenues are posted to an income statement account.
- Recognition and adjustment postings are generated simultaneously with the transactions. The matching principle is supported inherently and therefore no periodic batch jobs are needed for reconciliation.

[Link to documentation](#)





# SAP Fiori



## Manage In-House Repair

- Capture received devices for in-house repair and define the follow-up activities.
- Create repair quotations from within in-house repair processes.
- Trigger a credit check for business partners (payers) when editing and release a repair quotation or a repair order
- Plan and schedule repairs and review completed repairs.
- Trigger the shipment and commercial billing process after completing repairs.
- Search for repair objects with flexible filters
- Define individual views
- Trigger follow-up actions on the repair object details
- Obtain a quick overview with the graphical transaction history
- Release the user status for customer individual customizing

[Link to documentation](#)

Manage Repair Objects

Standard

Equipment:

Product:

Serial Number:

In-House Repair:

Sold-To Party:

Employee Responsible:

Availability:

Go

Adapt Filters (2)

Repair Objects (8)

Product	Quantity	Serial Number	In-House Repair	Sold-To Party	Employee Responsible	Status
<input type="checkbox"/> FIN126.MTS-DI.PD.SerialNo NEW-FG126	1	PC 2	1000005282	Domestic US Customer 1	John Doe	In Process
<input type="checkbox"/> Trad.Good 20,Reorder Point,SerialNo TG20_SERIAL	2	PC 10124202	1000003752	Domestic US Customer 1	John Doe	In Process
<input type="checkbox"/> Trad.Good 20,Reorder Point,SerialNo TG20	1	PC 20240317073621	1000003344	Domestic US Customer 1	John Doe	In Process
<input type="checkbox"/> Trad.Good 20,Reorder Point,SerialNo TG20	1	PC 20240317073618	1000003308	Domestic US Customer 1	John Doe	In Process
<input type="checkbox"/> Trad.Good 20,Reorder Point,SerialNo TG20	1	PC 20240317073612	1000003217	Domestic US Customer 1	John Doe	In Process
<input type="checkbox"/> Trad.Good 20,Reorder Point,SerialNo TG20	1	PC 20240317073613	1000003217	Domestic US Customer 1	John Doe	In Process
<input type="checkbox"/> Trad.Good 20,Reorder Point,SerialNo TG20	1	PC 20240317073611	1000003215	Domestic US Customer 1	John Doe	In Process
<input type="checkbox"/> Trad.Good 20,Reorder Point,SerialNo TG20	1	PC 20240317073610	1000003215	Domestic US Customer 1	John Doe	In Process

Manage Repair Object Details

Trad.Good 20,Reorder Point,SerialNo

TG20\_SERIAL

Repair Object

Product: Trad.Good 20,Reorder Point,SerialNo (TG20\_SERIAL)  
Quantity: 1 PC  
Serial Number: 10124202  
Equipment: Industrial Pump (10124202)

Account

Sold-To Party: Domestic US Customer 1  
Contact Person: Susan Miller  
Ship-To Party: Domestic US Customer 1

Status

In Process

Create Service Order Quotation

Create a service order quotation for the repair object and define details.

Create Service Order

Create a service order that you use to plan and perform the repair.

General Information

Logistics

Availability: Delivery to Repair Center Pending  
Customer RMA Number: 0060008354-000010

Notes

Customer Instructions: Quotation is required if repair costs will be more than 1,000 EUR.  
Examination Results: Error status 4567 displayed. Device to be analyzed by technician.

Service Contracts (2)

Service Contract	Service Contract Item	Validity Start	Validity End
Annual Maintenance (7000002340)	Maintenance Service (100)	01.01.2024, 00:00:00	31.12.2026, 00:00:00
Annual Maintenance (7000002340)	Service Part Discount 20% (200)	01.01.2024, 00:00:00	31.12.2026, 00:00:00

Transaction History



## Warranty Claim Processing

- Fiori UI for classical capabilities: Warranty Claim Processing

## Supplier Recovery

- Create a reimbursement request to a supplier for a complaint or repair of a product. Validate the claim's data, document supplier's responses, and post to the finance.

### Customer Facing

- Create and process a warranty claim from a customer (based on a performed repair). Validate the claim's data and eligibility for reimbursement, document the claim decision, and perform the payment.

[Link to documentation](#)

<

SAP

Claim ▾

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Supplier-Facing Claim

Edit

Process Actions ▾

🔗

▾

Details	Processing Status	Repair Date	Requested Net Amount	Approved Net Amount
Supplier: Dealer (DEALER01) Object Number: 000000000010000006	Claim Closed (Migrated)	05.01.2022	110.00 EUR	160.00 EUR

^

☆

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General Information ▾

Notes

Item Information

Output Management (IV-3)

Pricing Information ▾

Versions

Attachment(s)

Process Flow

Change > ▾

Partner and Repair Details

Partner and Object Data

Supplier:

Dealer (DEALER01)

Object Type:

Equipment (EQUI)

Object Number:

000000000010000006

Coverage Type:

—

Registration Date:

25.10.2021

Decision:

Approved Partially

SAP

Home ▾

All ▾ Search

Q

My Home

Warranty Claims

Warranty Claims Management

Customer Warranty Claims Overview

Supplier Warranty Claims Overview

Manage Customer Claims

Manage Supplier Claims

Master Data

Manage Master Warranties

Display Pricing Condition Records Warranty Claim Proc...

Change Pricing Condition Records Warranty Claim Proc...

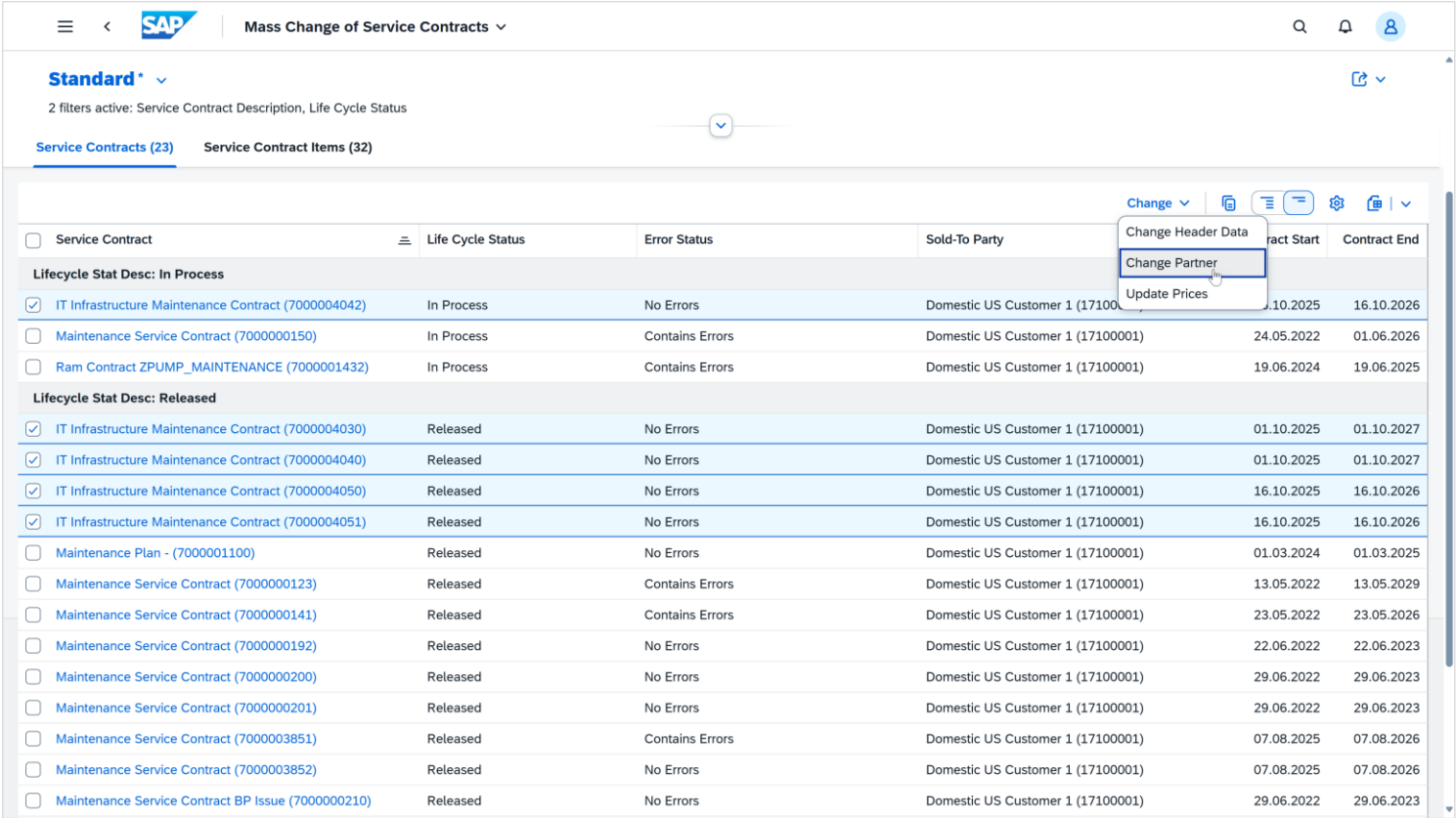
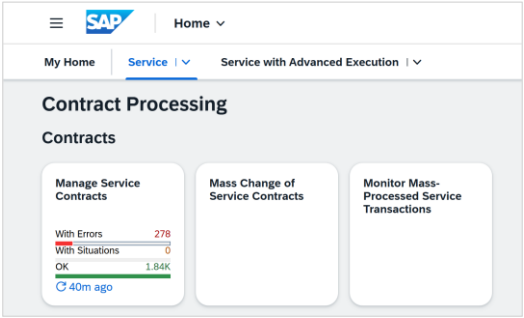
Create Pricing Condition Records Warranty Claim Proc...



# SAP Fiori

## Mass Change of service contracts

- You can now request the system to process large volumes of service contracts and service contract items at a time and monitor the corresponding mass processing jobs. You do all this by using the following apps:
- Mass Change of Service Contracts
- Monitor Mass-Processed Service Transactions







# SAP Cloud ERP Private differentiators

**Joule**



[Fetch Service Confirmation Information](#)

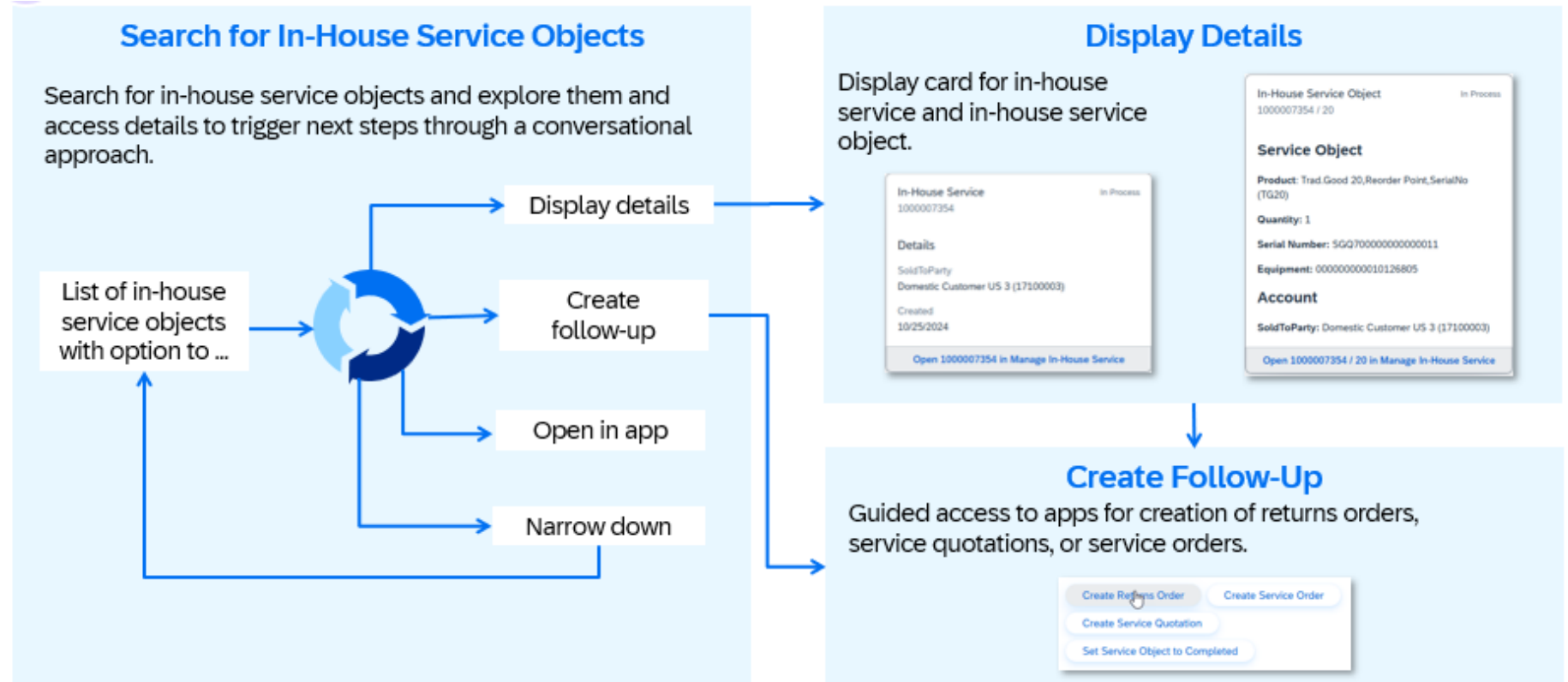
[Complete or Cancel Service Confirmations](#)

[Search and Display Service Orders](#)

[Release Service Orders and Service Order Items](#)

[Fetch Service Contract Information](#)

[Update Service Contract Status](#)





# SAP Cloud ERP Private differentiators

**SAP Business AI**



# Intelligent technologies

## AI-assisted in-house service initiation

Repair shops receive a significant amount of paperwork. Manually converting this paper-based information into the SAP system is labor-intensive and prone to errors, which can lead to data loss—especially under tight deadlines.

Our new feature leverages the Documented Information Extraction (DOX) AI service to streamline this process:

- **Capture:** Repair staff can simply scan or photograph incoming paper documents (e.g., purchase orders).
- **Process:** The SAP system automatically extracts the necessary data and creates a list of repair objects for the corresponding in-house service.
- **Review:** Repair staff then reviews the generated order and continues processing it to completion.

The screenshot displays the 'Manage In-House Repairs' interface in SAP. The main form is titled 'Create In-House Repair from Document'. It contains several input fields for transaction details:

- Transaction Type: In-House Repair
- Sold-To Party: (17100001) Domestic US Customer 1
- Ship-To Party: (17100001) Domestic US Customer 1
- Contact Person:
- Employee Responsible:

Below these fields is the 'Organizational Data' section, which includes:

- Sales Organization Unit: (O 500000001) Dom. Sales Org US
- Sales Organization: (O 500000001) Dom. Sales Org US
- Distribution Channel: (10) Direct Sales
- Division: (00) Product Division 00

At the bottom of the form is a table titled 'Repair Objects' with the following columns: Actions, Product, Quantity, Quantity Unit, Equipment, Serial Number, and Manufacturer Serial Number. The table contains three rows of data:

Actions	Product	Quantity	Quantity Unit	Equipment	Serial Number	Manufacturer Serial Number
	(SRV_TG01_ROT) Rotor	1	PC	10135597	000000001199228833	
	(SRV_TG01_BLD) BL...	50	PC			
	(SRV_TG01_AIC) Air Coo...	1	PC	10135598	000000005566447733	

At the bottom right of the form, there are 'Create' and 'Cancel' buttons. The 'Create' button is highlighted with a yellow circle.

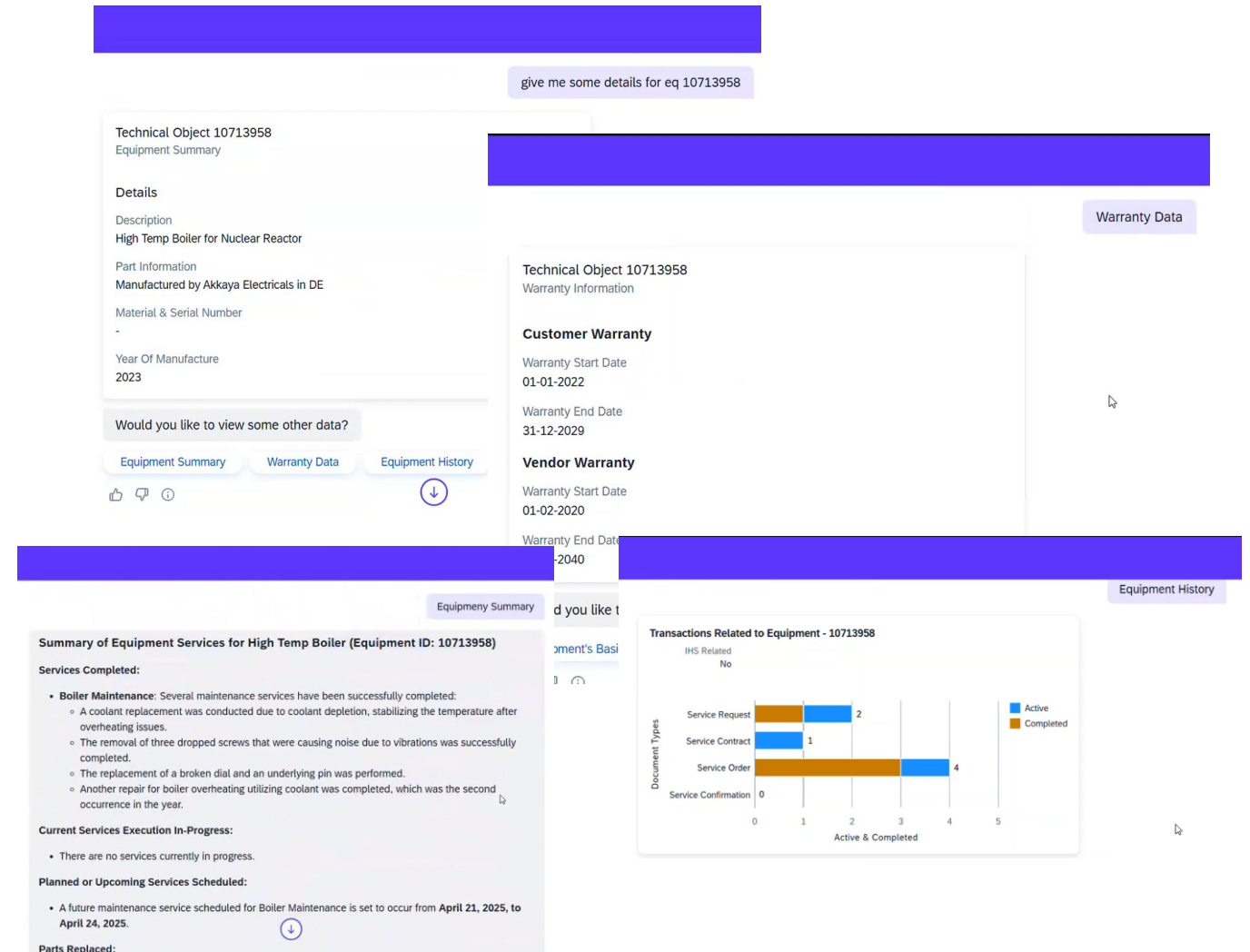


# Intelligent technologies

## AI-assisted retrieval of equipment information in service management

Enables service managers with the help of Joule to get a 360° view on services performed on an equipment

- Shows basic details related to an equipment, like description and the attached warranty for both customer and vendor
- Shows the count of currently active and completed service transactions (request, contract, order and confirmation)
- Shows an AI generated summary of the services performed on the equipment (completed, current and planned services, parts replaced, recurring issues) and a recommendation





# SAP Cloud ERP Private differentiators

## Situation Handling



# Intelligent technologies

## Situation Management

Some examples:

[Service Maintenance Plan Mass Schedule Issue](#)

[Billing for Repair Object Delayed](#)

[In-House Repair Not Confirmed](#)

[Processing of In-House Repair Overdue](#)

[Precheck of Repair Object Delayed](#)

[Service Contract Due to Expire Soon](#)

[Service Contract Item Due to Expire Soon](#)

[Service Contract Item Not Released](#)

[Service Contract with Zero Billing Value](#)

[Service Contract Item Blocked for Billing](#)

Situation templates in Service

Standard\* ▾

In-House Repair: 4 Items

Sold-To Party:

Contact Person:

Employee Responsible:

Repair Object Status:

In-House Repair	Sold-To Party	Contact Person	Employee Responsible
1000000122	CBont Industries	Joe Wills	Ryan Reval
1000000112	CBont Industries	Joe Wills	Ryan Reval
1000000080	CBont Industries	Joe Wills	Ryan Reval
1000000044	CBont Industries	Joe Wills	Ryan Reval

Notifications

Today

Processing of in-house repair overdue

Precheck not completed

In-house repair not confirmed

Yesterday

Processing of in-house repair overdue

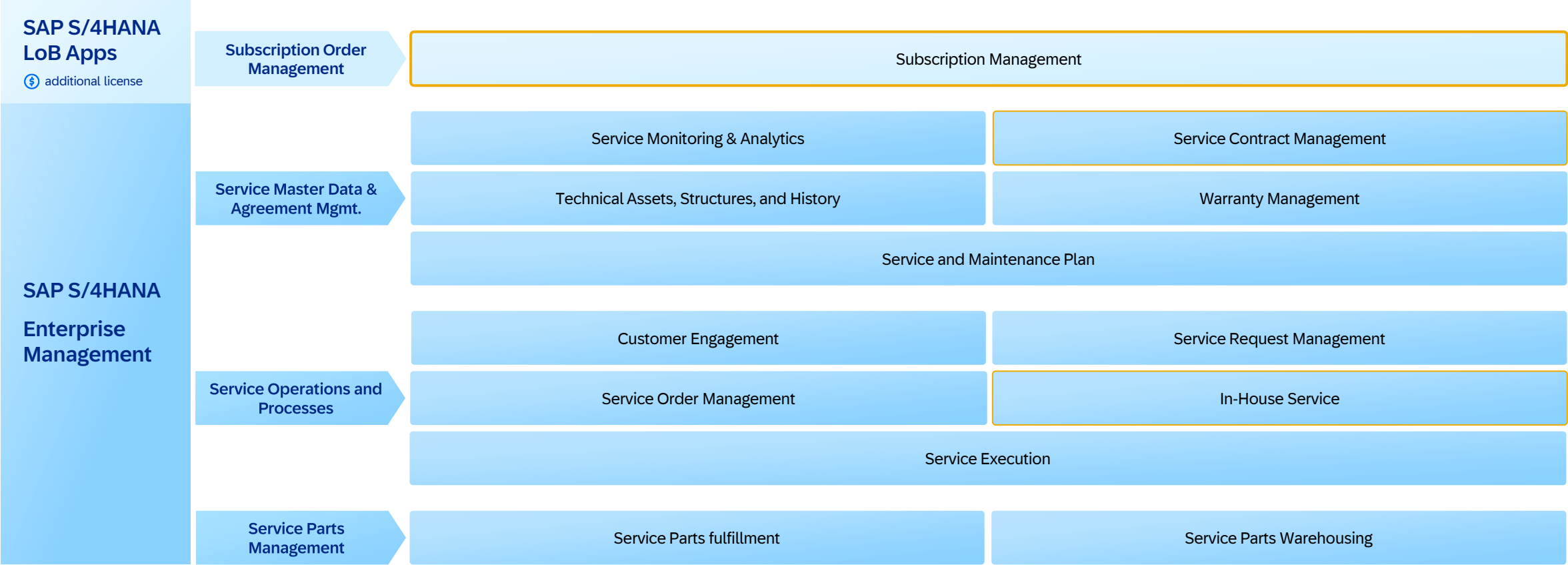
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# New Business Processes

## Business Area and Business Capability Overview



New business capabilities in SAP S/4HANA

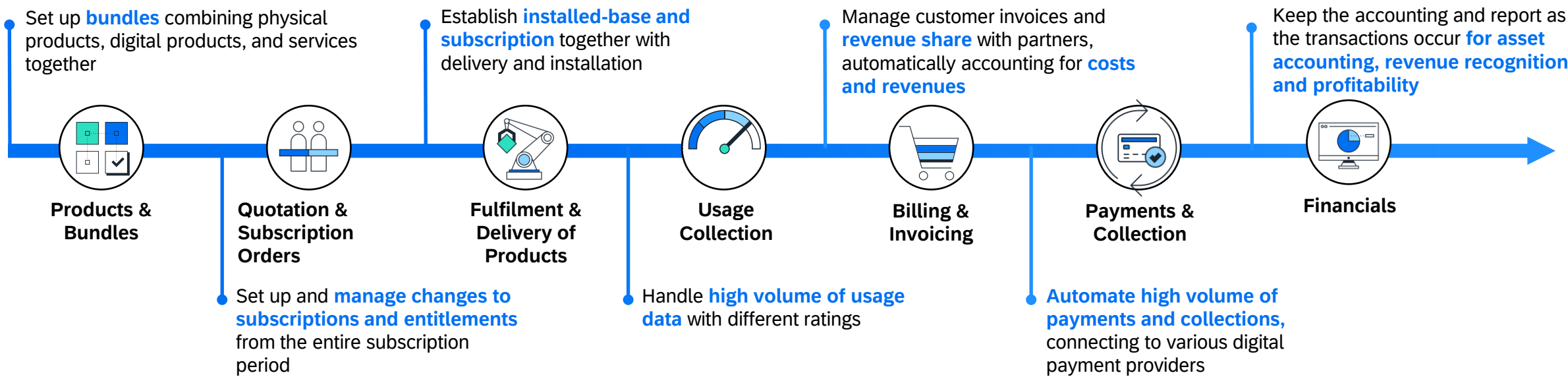




# New Business Processes and Functionalities

## Subscription Order Management | Service Contract Management

### Subscription and Pay-per-Use



### Example: Subscription for Robotic Painting System

Subscription for Outcome or Usage	
Product	Lease robots (asset owned by you)
One-Off Service	Installation & Training
Service Contracts	Maintenance, repair, parts, consumables
Subscription	Outcome-based subscription <ul style="list-style-type: none"><li>KPI 1: Number of cars painted</li><li>KPI 2 :Paint line throughput (cars / hour)</li></ul>

[SAP Community Call recording](#) with system demonstration



# New Business Processes and Functionalities

## In-House Repair Management (1/3)

### Manage repair services in-house for the products and assets returned from customers

- Capture received devices for in-house repair and define the follow-up activities.
- Create repair quotations from within in-house repair processes.
- Trigger a credit check for business partners (payers) when editing and release a repair quotation or a repair order
- Plan and schedule repairs.
- Review completed repairs.
- Trigger the shipment and commercial billing process after completing repairs.
- Process serialized products and non-serialized products as repair objects

The screenshot displays the SAP 'Manage In-House Repair Details' interface. At the top, the SAP logo and title bar are visible, along with a search bar and notification icons. The main header shows the repair ID '1000003905' and a status indicator. Below this, a navigation bar includes 'In-House Repair Details', 'Notes', 'Repair Objects' (selected), and 'Change Documents'. The 'Repair Objects' section features a process flow diagram with icons for Precheck, Diagnosis, Quotation, Repair, Bill, and Completed. A table lists repair objects with columns for Repair Object, Equipment, Product, Serial Number, Customer Warranty End, and Status. A context menu is open over the table, showing options like 'Perform Prechecks', 'Perform Repairs', 'Plan Repairs', 'Prepare for Billing', and 'Process Repair Quotations'. At the bottom, a 'Change Documents' section shows a list of changes with columns for Field Name, New Value, Old Value, Changed By, and Changed On.

Repair Object	Equipment	Product	Serial Number	Customer Warranty End	Status
10	Servo Motor 10270178	Servo Motor ARM-SM-002	PART_401	01.02.2025	Quotation
20	Servo Motor	Servo Motor SM-002	PART_402	01.02.2025	Quotation
30		Motor SM-002	PART_403	01.02.2025	Quotation
40		Motor SM-002	PART_404	01.02.2025	Quotation

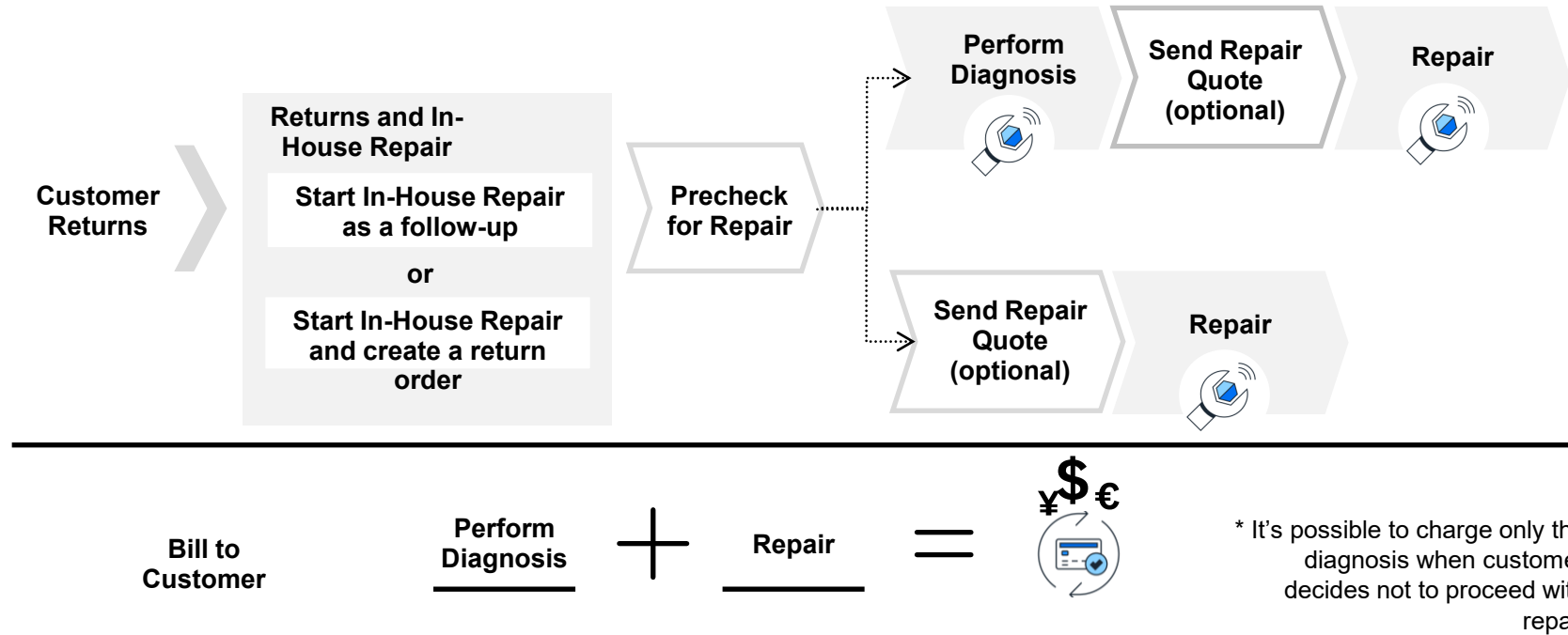


# New Business Processes and Functionalities

## In-House Repair Management (2/3)

### Chargeable Diagnosis for In-House Repair

- Diagnosis is an inspection of the items returned from the customer before full repair work is conducted. Diagnosis can be charged to the customer even when it is deemed that the repair work is not to be engaged.
- This is a practice typically for complex machineries that require efforts for specialized mechanics to ascertain the reparability of the returned items.
- You can use planned costs and revenues that have been incurred during the planning of the diagnosis to calculate the profitability of the repair.



[Link to documentation](#)

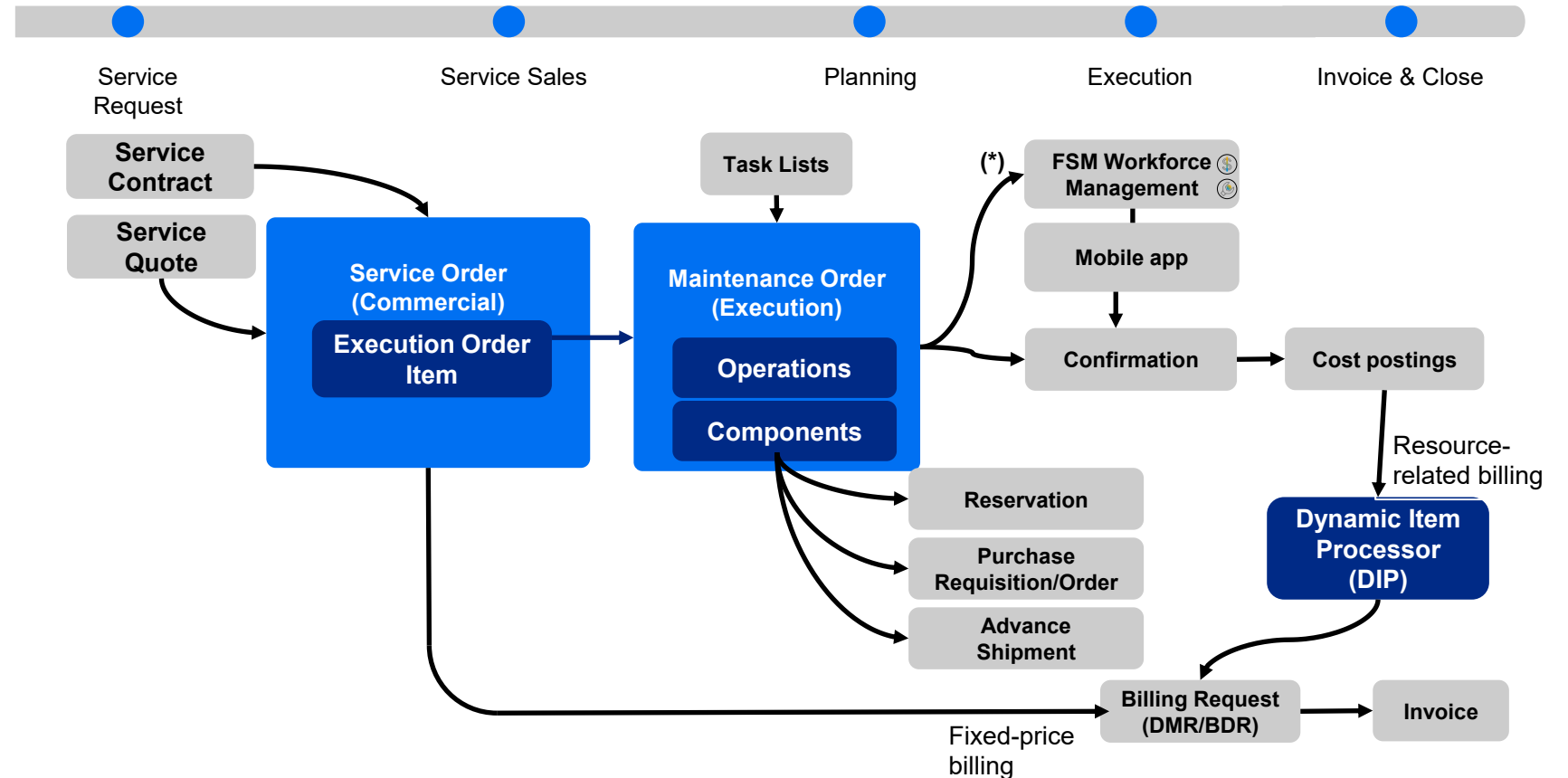


# New Business Processes and Functionalities

## In-House Repair Management (3/3)

### In-house repair with advanced execution

- Advanced execution is a service process that is geared towards complex technical objects that require extensive planning and execution. The core characteristic of this process is the integration of the commercial aspects of Service with the planning and execution capabilities of Maintenance Management (refer to dedicated slides in a later section).
- In-house repair process can also be done through the advanced execution with the maintenance order (execution order).



[Link to documentation](#)



# New Business Processes and Functionalities

## In-House Repair Management | Service Request & Order Management (1/2)

### Unified service process combining field service and in-house repair

Field services and in-house services can now be included in a single service order document to better reflect the reality of the complex service business.

Reflects the reality of complex service management process

Customer use case example in screenshot:

Service quote for a field service to dismantle defective components and billable diagnosis in a service center service.

A single service order also reflects the financial and commercial aspects better: profitability in a single service order.

The screenshot displays the SAP Service Station interface. A large circle highlights the 'Product' table, which lists service items: 'Field Service: Dismantle defective comps', 'In-House: Diagnosis defective comps', 'In-House: Repair defective comps', and 'Stock Service Part'. Another circle highlights the 'Repair Objects (In-House Repair)' table, which shows repair objects for 'In-House Repair' with 'Repair Object' and 'Equipment ID' columns. A third circle highlights the 'Reference Objects' table, which shows reference objects for 'In-House Repair' with 'Repair Object' and 'Equipment ID' columns. The interface also includes a search bar, a 'Create' button, and a 'Service Station' header.

Product	Item Category
Field Service: Dismantle defective comps	Service Item
In-House: Diagnosis defective comps	Service Item
In-House: Repair defective comps	Service Item
Stock Service Part	Service Part

Item Category	Net Value	Currency	Status
Service: Dismantle defective comps	5,000.00	USD	Completed
Service: Diagnosis defective comps	SRV_01	USD	Completed
Service: Repair defective comps	SRV_01	USD	Completed
Service Part	SRV_05	USD	Completed

Actions	In-House Repair	Repair Object	Equipment ID
	1000003969	10	10126097
	1000003969	20	10126098

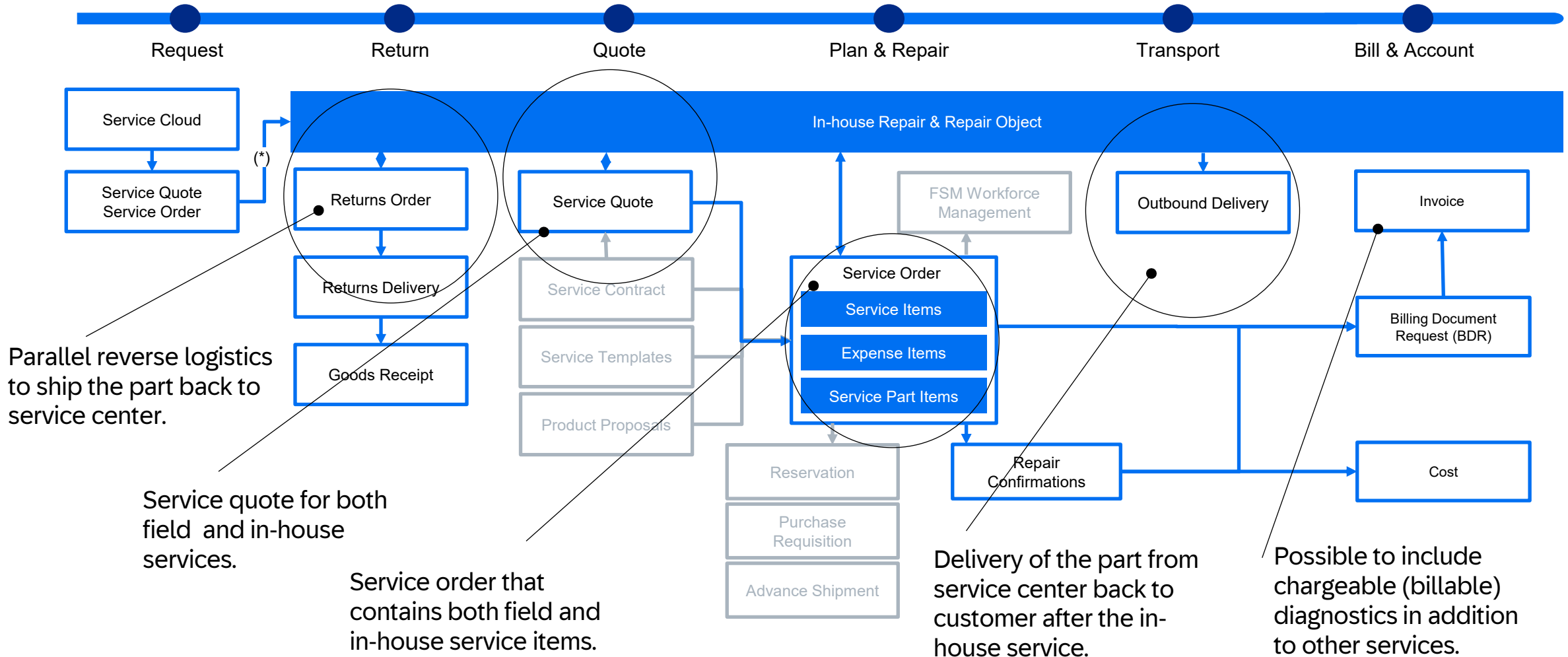
Actions	In-House Repair	Repair Object	Equipment ID
	1000003969	10	10126097
	1000003969	20	10126098

[Link to documentation](#)



# New Business Processes and Functionalities

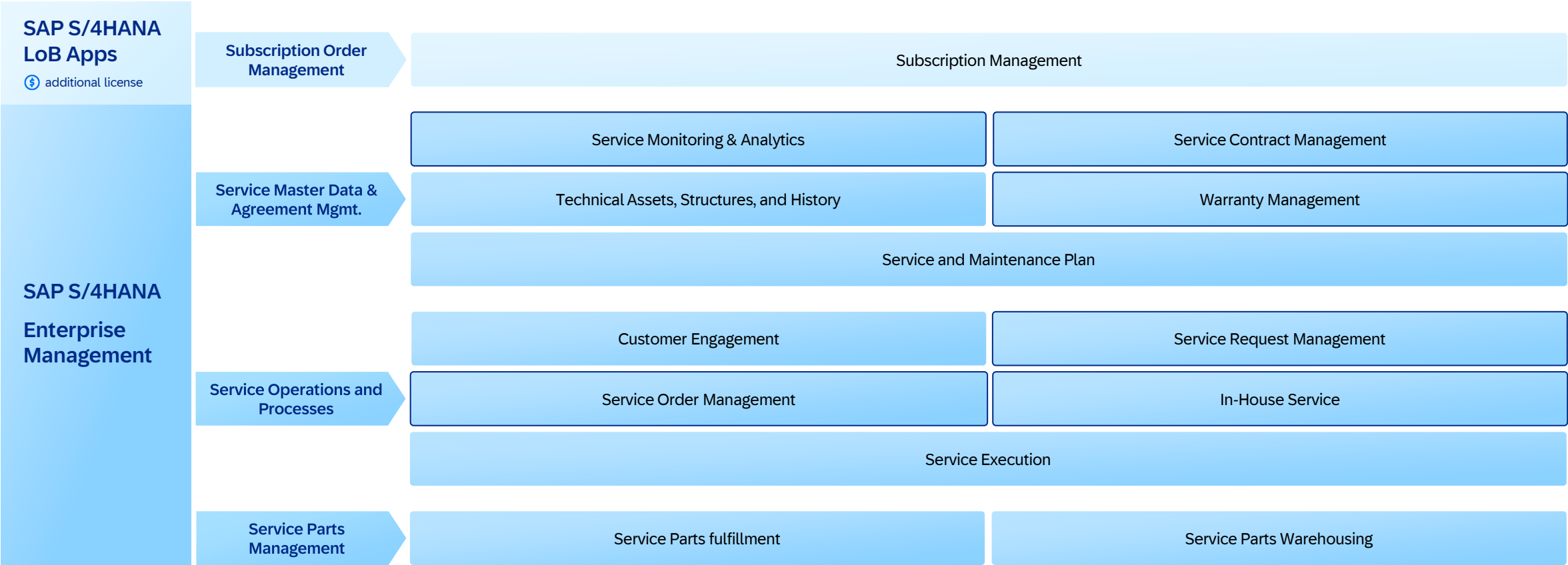
## In-House Repair Management | Service Request & Order Management (1/2)





# Updated Business Processes

## Business Area and Business Capability Overview



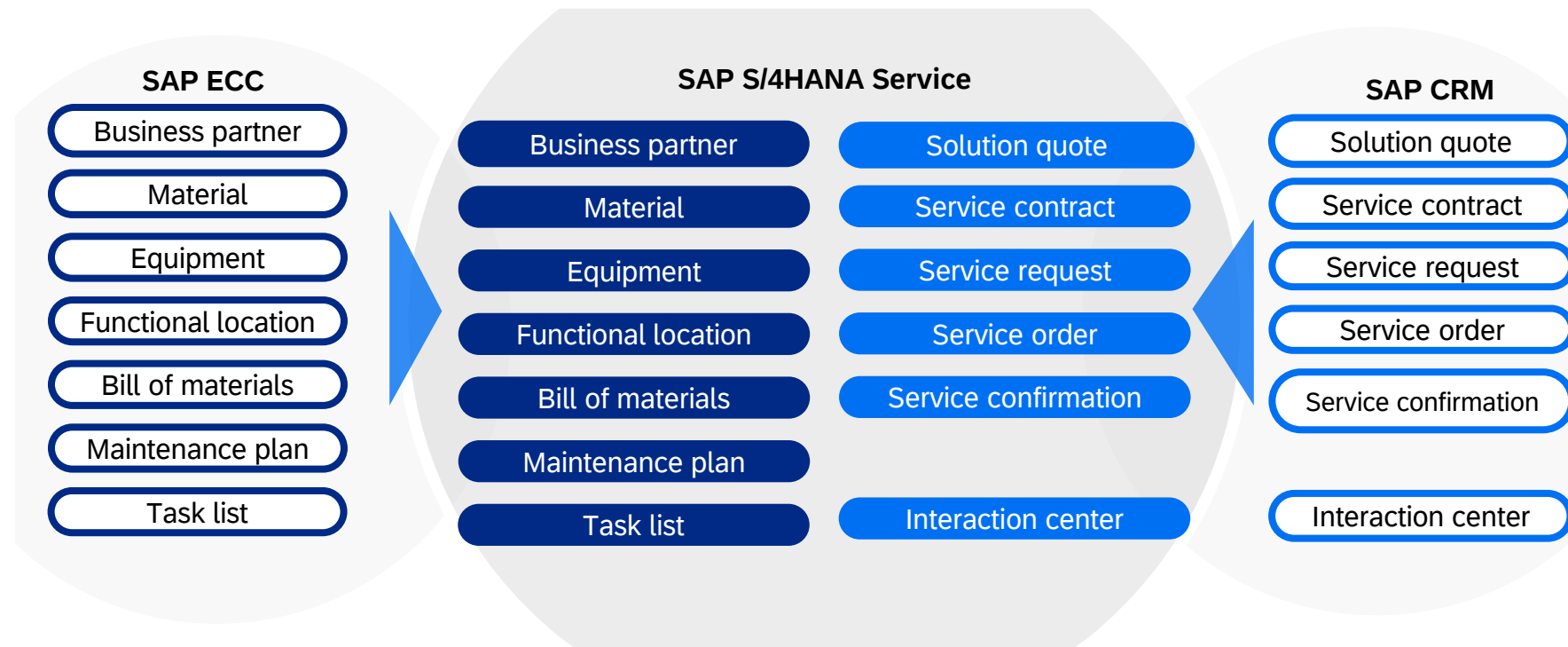


## Updated Business Processes and Functionalities

### Service Master Data and Agreement Management | Service Operations and Processes

#### Data harmonization and elimination of functional redundancies

- SAP S/4HANA Service combines the data model of SAP ECC and SAP CRM into one, eliminating the need for data synchronization.
- Harmonization simplifies the ways end users interact with the system for their day-to-day work
- Elimination of synchronization and redundancies contributes to reduction of IT costs for operation costs and systems



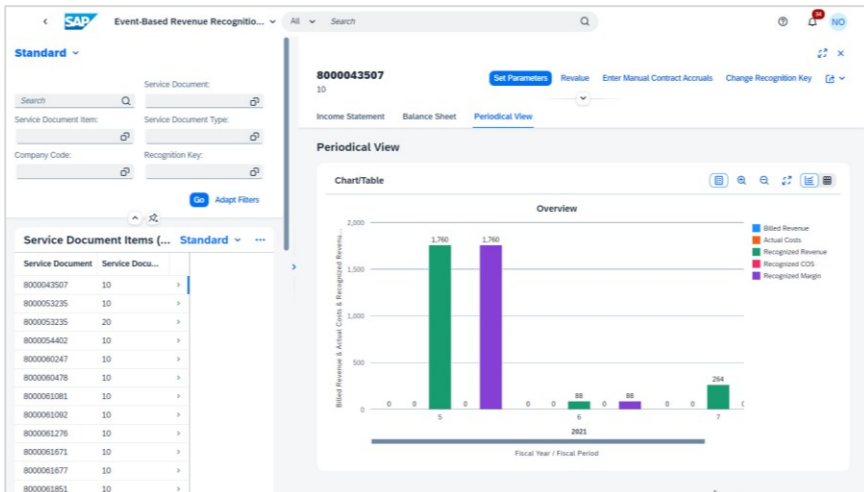




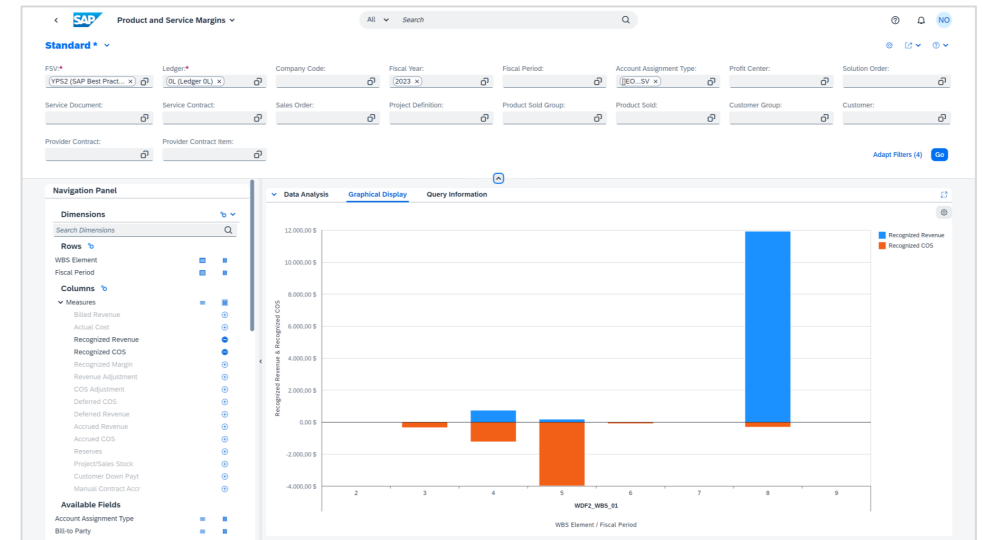
# Updated Business Processes and Functionalities

## Service Order Management | Service Monitoring & Analytics

### Item-Based Accounting in Service (1/2)



- Record cost and revenue that have been incurred by service transaction items **directly in the Universal Journal**
- For service order items, service contract items, item-based accounting enables **event-based revenue recognition**.
- Enter **tools** for service orders, service quotations and service confirmations



- Real-time profitability** of your service business  
No need to wait for period closing activities and other data warehouse tools
- Foundation and prerequisite for future innovations** in the service line of business

[Link to documentation](#)

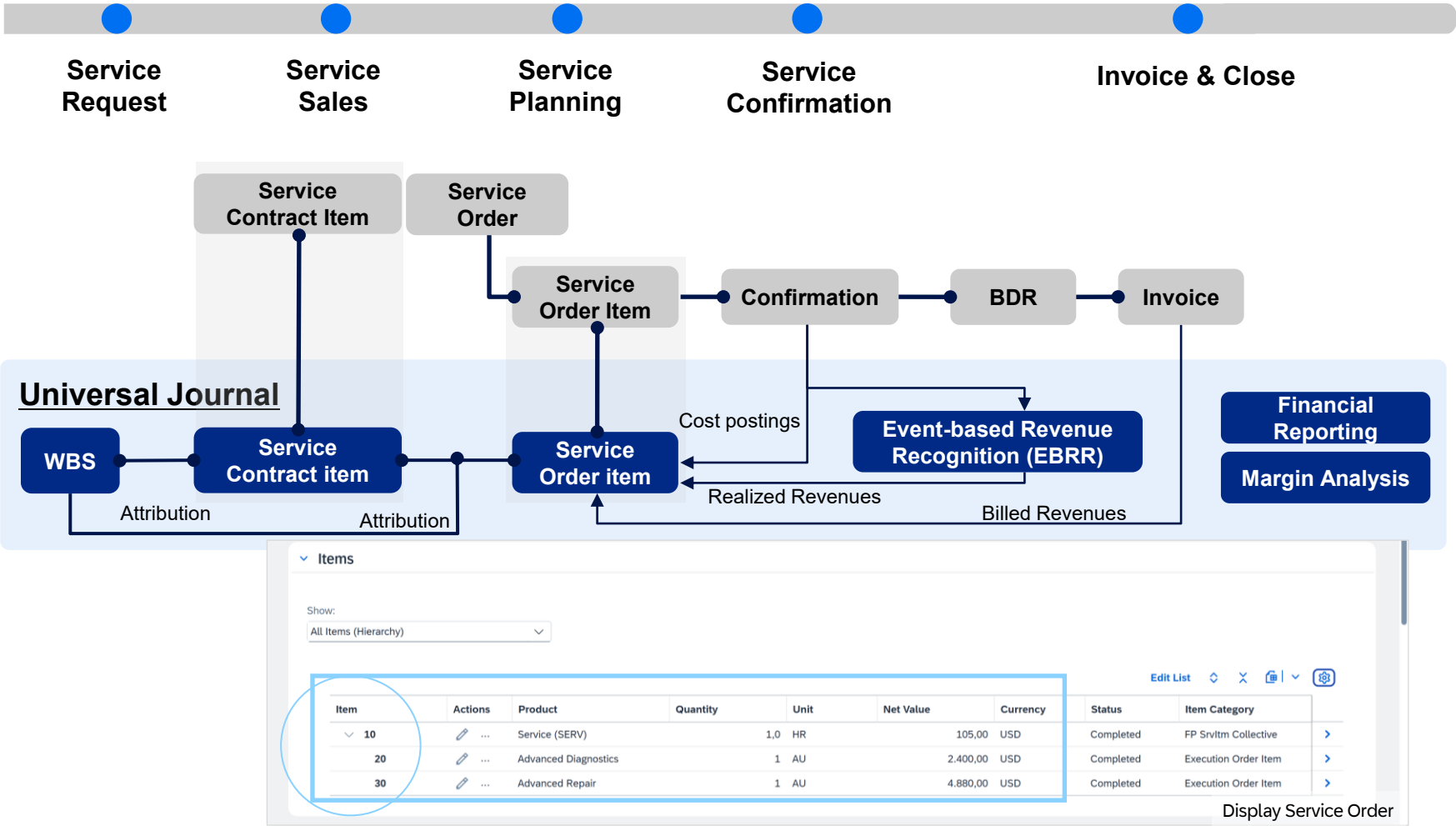


# Updated Business Processes and Functionalities

## Service Order Management

### Item-Based Accounting in Service (2/2)

- The financial costing flow in the classic way in the service line of business has thus far been to use the internal order.
- The new Item-Based Accounting in Service eliminate the need for the internal order, and posts the costs and revenue directly in the Universal Journal (refer to diagram).
- This enables the new margin analysis and even-based revenue recognition (EBRR) for service transactions for various revenue recognition methods.
- Make use of a service hierarchy with collective accounting by grouping service line item to a bundle for flexible business reporting





# Updated Business Processes and Functionalities

## Service Order Management

### Service with Advanced Execution (1/2)

- The new Service with Advanced Execution is a service process that is geared towards services that have longer service cycles and complex technical objects that require extensive planning and execution.
- The core characteristic of this process is the integration of the **commercial aspects of Service** with the planning and **execution capabilities of Maintenance Management**.
- RRCO items mirroring planned labor and materials from a linked billable maintenance order as cost-estimate subitems. Resource-related Cost (RRCO) items are supported in service quotations and service orders.

[Link to documentation](#)

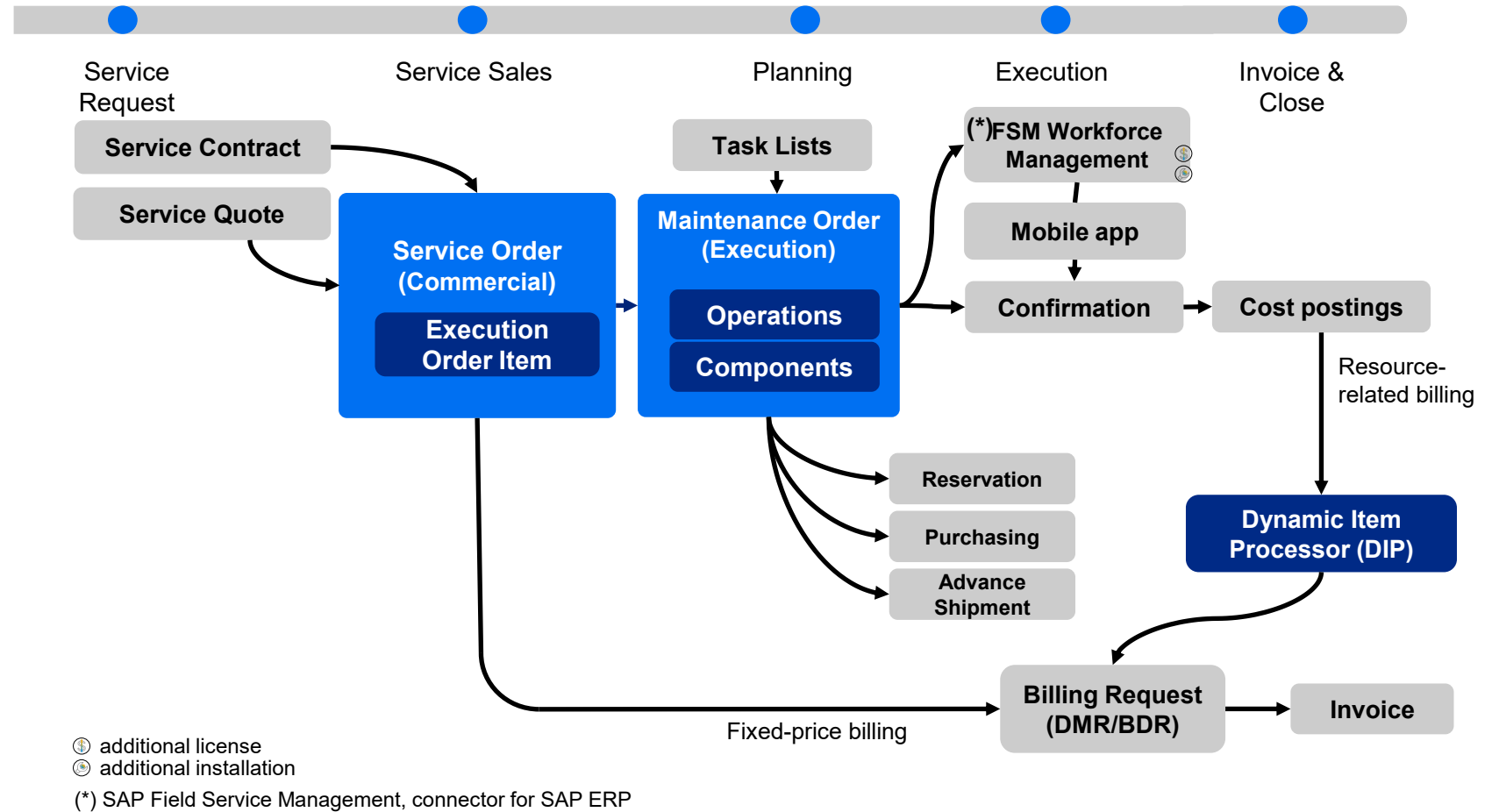


# Updated Business Processes and Functionalities

## Service Order Management

### Service with Advanced Execution (2/2)

- Suitable for services which require extensive planning and execution.
- Use the maintenance order for planning and execution (e.g. task list)
- Use service contracts to determine the terms of the service. A service order quotation is used to provide a cost estimate for a requested service, and a service order is used to manage the service. A service order quotation or service order can have multiple execution order items.
- Define qualifications required to perform services specified in service transactions, such as service orders, service quotations, and service order templates.
- Bill customers for the time and service parts used for the service with Dynamic Item Processor (DIP) in addition to the fixed-price items in the service order.



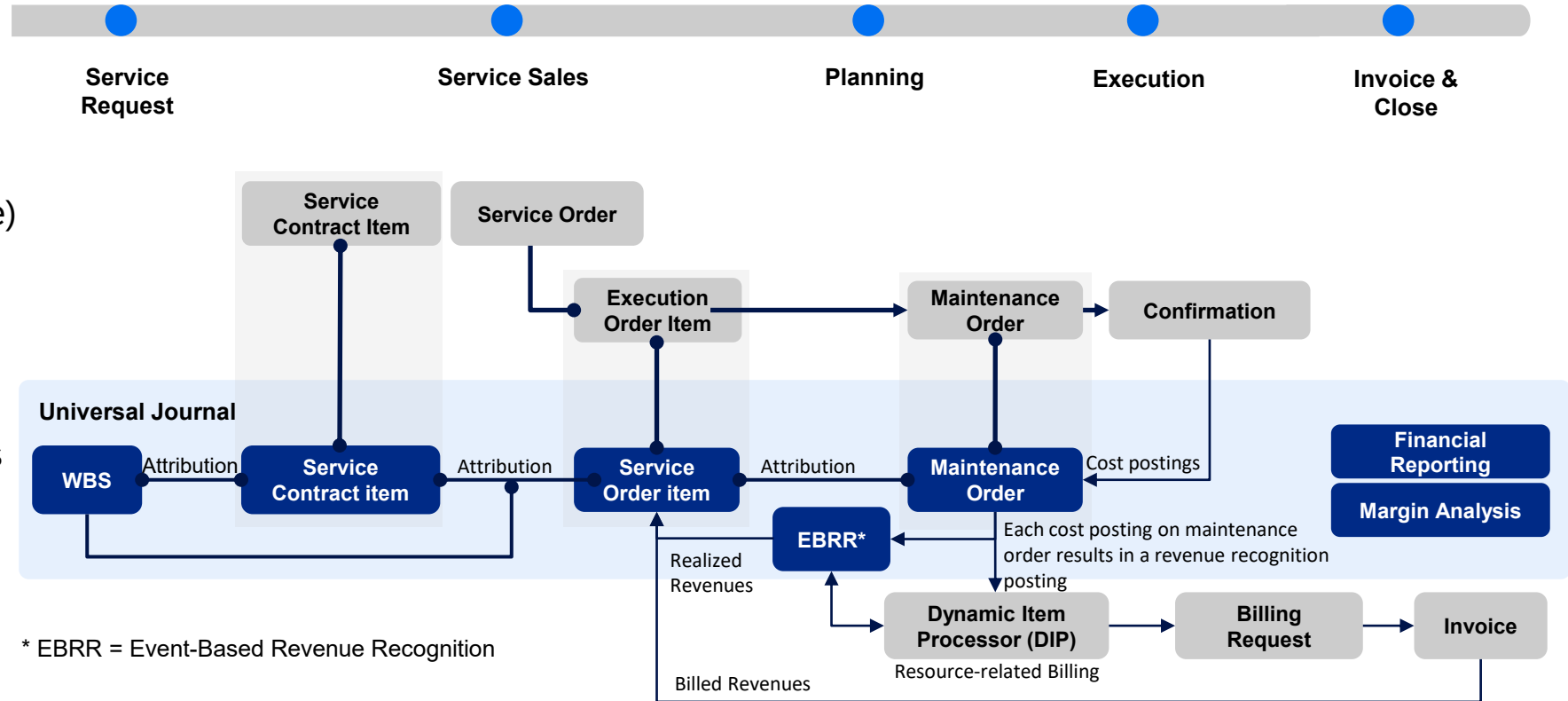


# Updated Business Processes and Functionalities

## Service Order Management

### Financial Flow for Service with Advanced Execution

- Item-Based Accounting (prerequisite) enables the real-time **margin analysis** for your service business
- **Event-based revenue recognition (EBRR)** ensures accurate financial accounting for long-running services for various revenue recognition methods.



[Link to documentation](#)



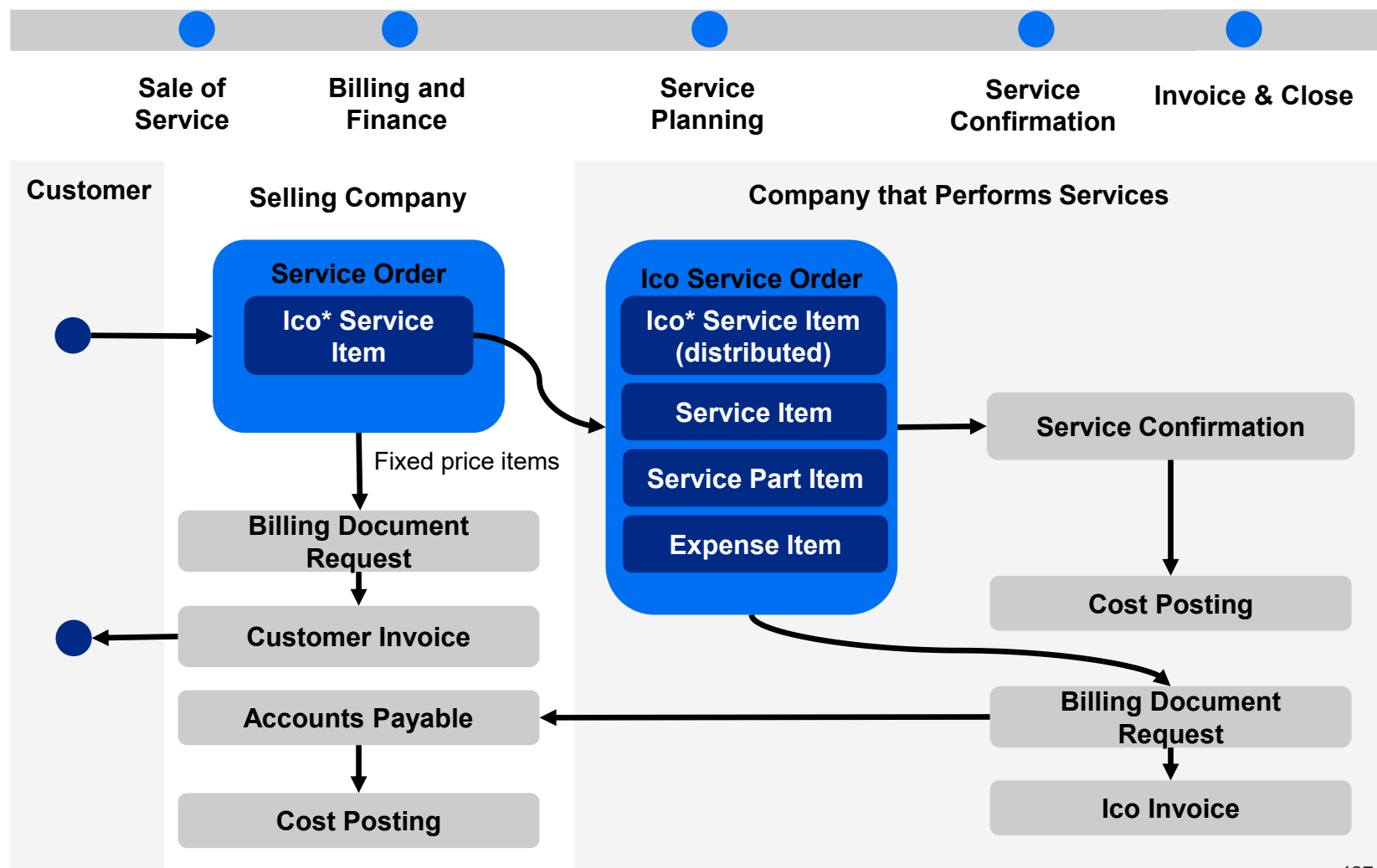
## Updated Business Processes and Functionalities

### Service Order Management

#### Intercompany Service Orders

- Distribute a service to another company using an intercompany service order. The intercompany processing enables you to sell a service to a customer and distribute it to another organization for execution.
- Use only a fixed price service item for an intercompany service order
- Cascade Intercompany Items
- When receiving an intercompany item from a company that sells a service, you can forward this intercompany item to another company so another company can execute the service.
- Item-Based Accounting is a prerequisite

[Link to documentation](#)





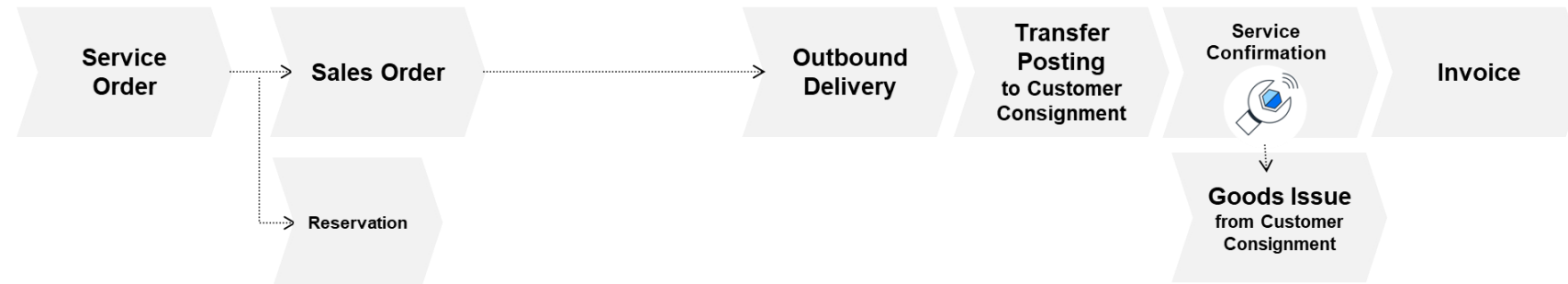
# Updated Business Processes and Functionalities

## Service Order Management

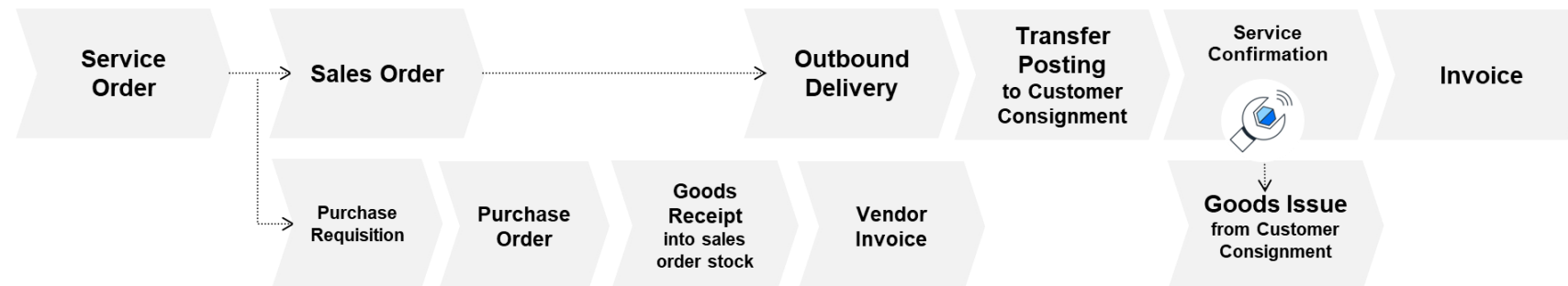
### Advance Shipment

- Advance Shipment enables the shipment of service parts to the service technician or the customer before the repair, typically used when the part is too bulky to be carried in a technician's van.
- The service parts are already in stock in a warehouse (parts in stock)
- The service parts aren't in stock and must be procured from a supplier (parts not in stock).

#### Parts in stock



#### Parts not in stock



[Link to documentation](#)



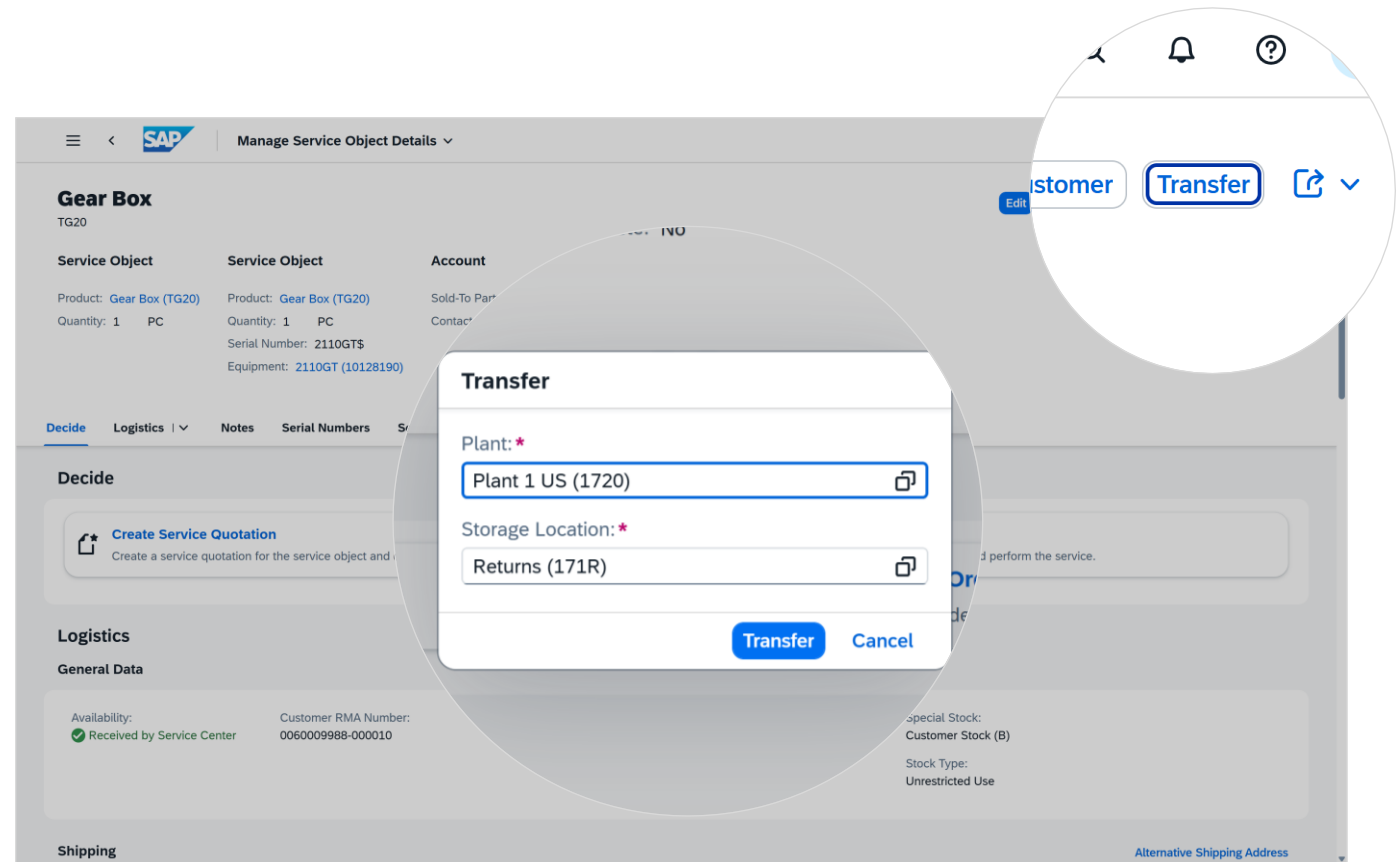
# Updated Business Processes and Functionalities

## Inhouse Service

Split and linkage between the service order (service operations) and in-house service object (logistics and tracking).

The in-house service object concentrates logistics moves and status tracking throughout the in-house service operations.

- Post service objects to customer stock  
Newly supports Customer stock (B) in addition to existing returns order stock (E).
- Receive service objects using inbound deliveries  
Newly supports creating an inbound delivery in addition to a customer return order.
- Transfer service objects to another service center (intracompany transfer)  
Built-in intra-company logistics to transfer repair objects between plant/storage locations within the same company code\*.



\* Intercompany movement is in future [road map](#).





# Updated Business Processes and Functionalities

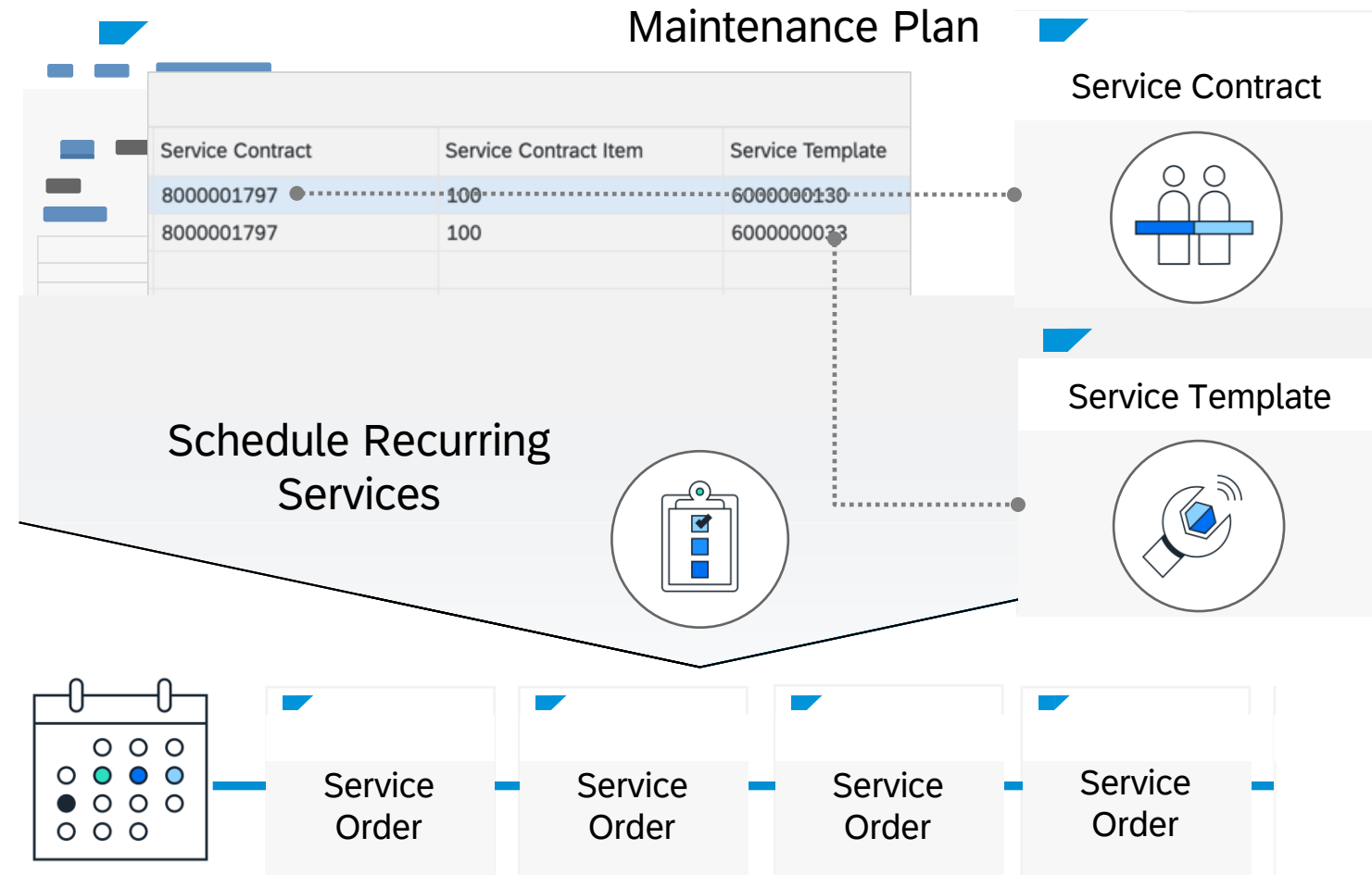
## Service and Maintenance Plan | Service Order Management

### Recurring Service Planning and Scheduling

Plan and schedule recurring services using maintenance plan and service templates, linked with service contracts.

- Link recurring services with service contracts.
- Leverage the familiar maintenance plan master data record.
- Automatically generate service orders with pre-defined service templates.
- You can now create and schedule maintenance plans using the service order quotation as a call object.

[Link to documentation](#)





## Updated Business Processes and Functionalities

Service Contract Management | Service and Maintenance Plan | Technical Assets, Structures, and History

### Service Contract, Recurring Service Planning and Scheduling

Plan and schedule recurring services using maintenance plan and service templates, linked with service contracts.

#### Service Maintenance Plan

- Display of service planning history

#### Service Contracts Management

- Ad-hoc billing for service contracts
- Auto renewal of price adaptation items
- Header price agreements in service contract

[Link to documentation](#)

The screenshot displays the SAP 'Technical Object' interface for object 10002798. It shows a table of 'Maintenance Items for Service' with columns for Maintenance Item, Maintenance Plan, Service Contract, Service Contr..., and Service Order Template. The table contains three rows of data. A dashed box labeled 'Service Planning History' highlights the 'History' tab in the top navigation bar. The 'Technical Object' label is also present on the right side of the interface.

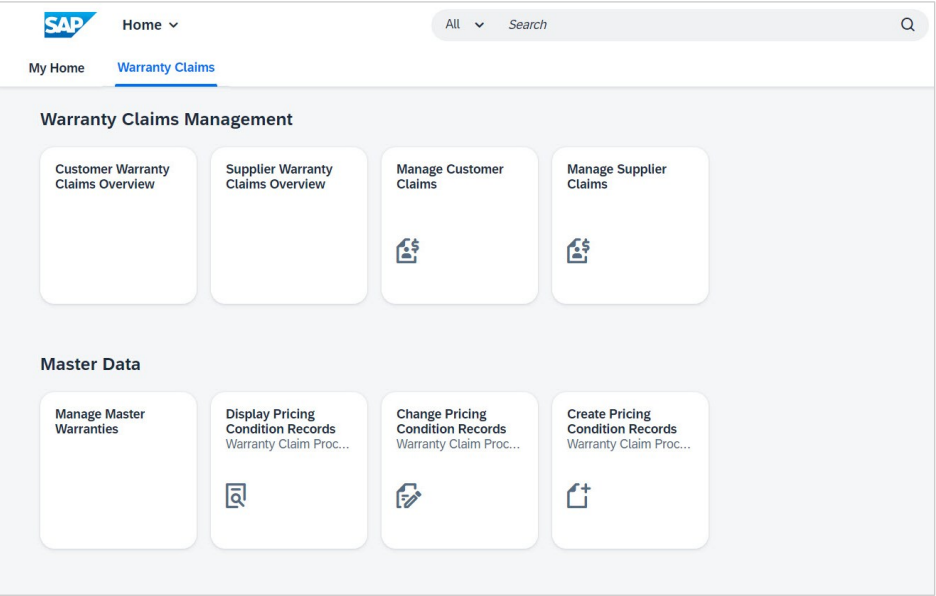
The screenshot displays the SAP 'Service Contracts' interface for contract 8000028432. It shows the 'Header Price Agreement' section with fields for Sold-To Party, Contact, Employee Responsible, Credit Status, Net Value, Gross Value, and Billing Value. A dashed box labeled 'Header Price Agreement' highlights the 'Price Agreement' tab in the top navigation bar. The 'Service Contract' label is also present at the bottom right of the interface.



# Updated Business Processes and Functionalities

## Warranty Management

The warranty claim processing capabilities of SAP S/4HANA let your business manage correspondence of warranty claims, whether your organization is the warrantee or warrantor.



Dealer  
Service Provider

Your organization

Component Manufacturer  
Tier 1 Supplier

Customer  
Warranty Claim

Supplier  
Warranty Claim

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Warranty Management

Warranty management has been enhanced with new features to allow you more control and flexibility in its use:

- Copying accounting indicator from master warranty, which enables automatic price change
- Display of warranty counter information in the Warranty assignment block
- Considering expired warranty when creating or changing service transactions
- Warranty period
- An Under Warranty checkbox to indicate warranty determination on item level of a service transaction
- Filter and search service transactions based on the warranty status.  
The warranty status is also displayed in the result list.

The screenshot displays the SAP Service Orders interface for a specific service order: **Service Order: 8000563370, Regular Remote Service**. The interface includes a top navigation bar with tabs for Service Order Details, Items, Warranty, Qualification Requirements, Notes, Attachment, Confirmations, Transaction History, Parties Involved, Price Totals, and Price Details. The **Items** tab is currently selected, showing a table of items with columns for Actions, Item No., Quantity, Unit, and Product. A search bar and an **Edit List** button are visible above the table. A purple box highlights the **Accounting Indicator** column, which shows 'Z special price discount'.

Below the items table, the **Warranty** section is expanded, showing a table with columns for Warranty Counter, Current Usage, Maximum Warranty, Remaining Warranty, and Unit. A search bar and an **Edit List** button are also present above this table. A purple box highlights the **Warranty Counter** column, which shows 'Warranty Period'.

At the bottom of the interface, there are sections for **Qualification Requirements**, **Notes**, and **Attachment**.



# Out-of-the-Box Integration

Delivering a unified service resolution



## Customer Service

  
Chat

  
E-mail

  
IOT

  
Phone


  
Ticket

  
SLA & Entitlement


  
Timeline & 360°


  
KB


## Service Operations


  
Quoting


  
Repair

  
Maintenance


  
Installation


  
Contract & Warranty


  
Spare Parts


  
Billing & Finance

## Field Service


  
Dispatching

  
Confirmation

  
Mobile

  
Crowd

  
Self

  
Smartforms

## SAP Asset Performance Management

 Predictive Service

 Asset Health

 Asset Performance



# Out-of-the-Box Integration

## SAP Field Service Management: Extending the capabilities of SAP S/4HANA Cloud

### AI Enabled Integrated Field Service

#### Extended Field Service Capabilities



Customer Engagement



Asset Health



Asset Strategy



Asset Collaboration



Asset Visualization



Additional Mobile Personas

#### SAP Field Service Management

Schedule/Dispatch

Service Map

Mobility

Crowd Workforce

Skills Management

Time & Material Journal

AI Scheduling & Optimization

Customer Self-service

Smartforms

Business Rules/Configuration

Extensions

Reporting & Analytics

#### SAP S/4HANA Cloud



Service



Asset Management



Human Resources



Finance & Accounting



Sourcing & Procurement



Supply Chain



Inventory Management



Invoicing



Time & Payroll



Projects



Health & Safety

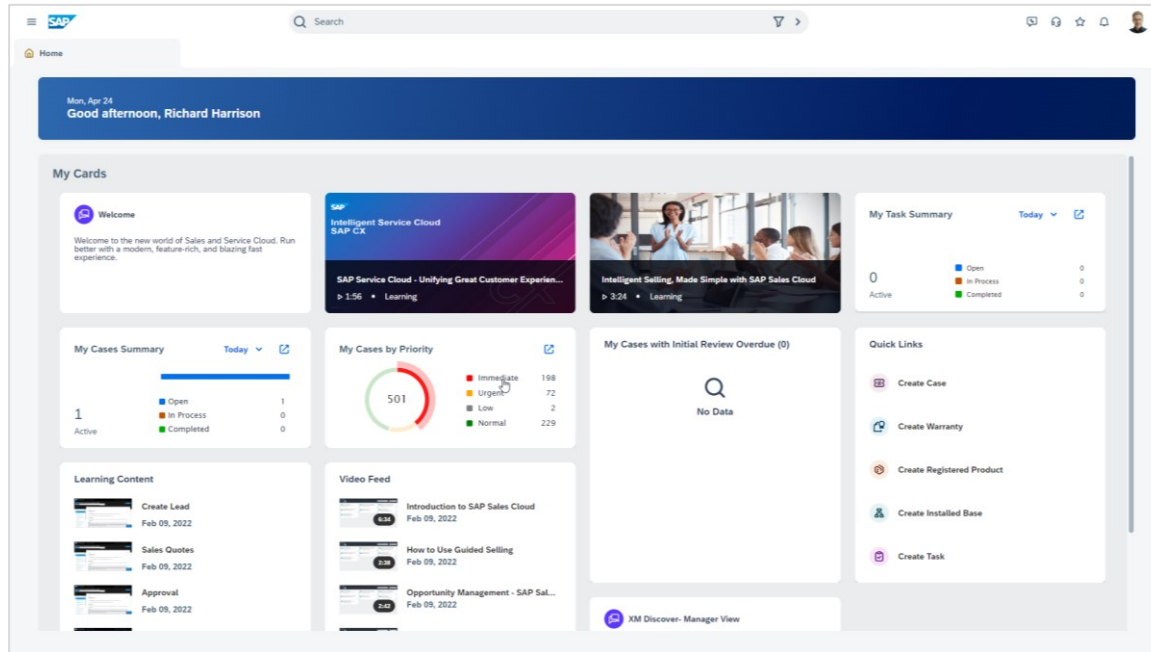


Sales



# Out-of-the-Box Integration

## SAP Service Cloud: Customer Engagement

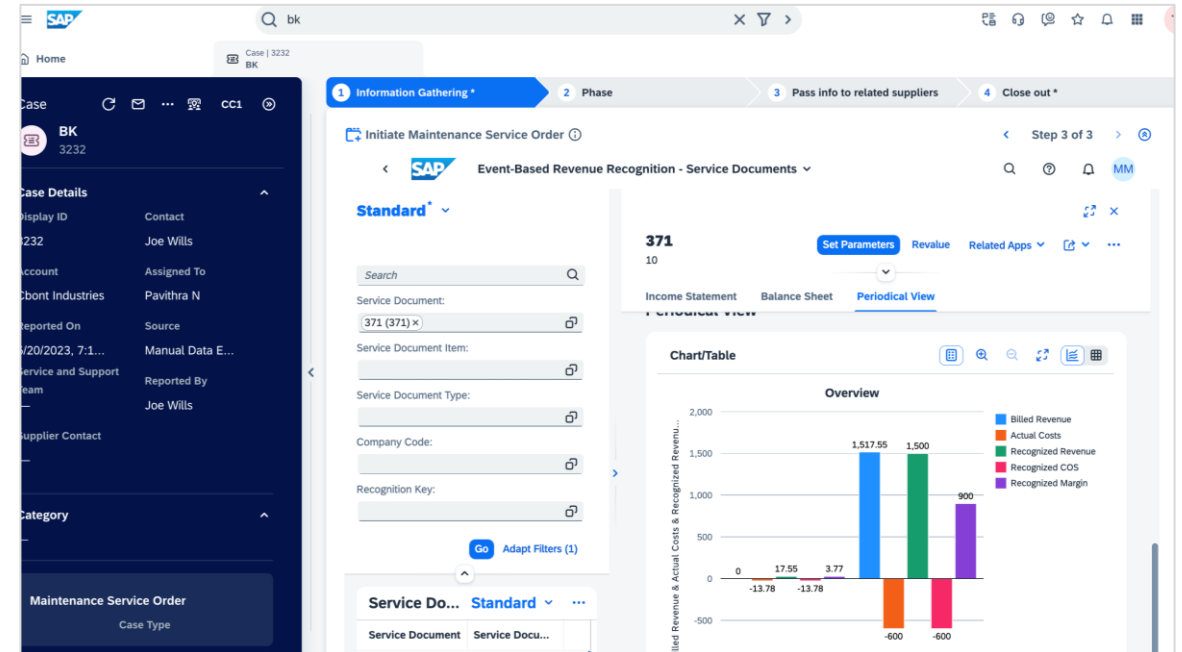


### Engage at the point of need

Reduce customer effort and drive loyalty. Simplify agent experiences to improve employee motivation and productivity.

### Connect to the value chain

Collaborate to diagnose and resolve and speed up issue resolution with process orchestration. Unleash the power of data to fix issues before they become problems.



### Deliver greater profitability

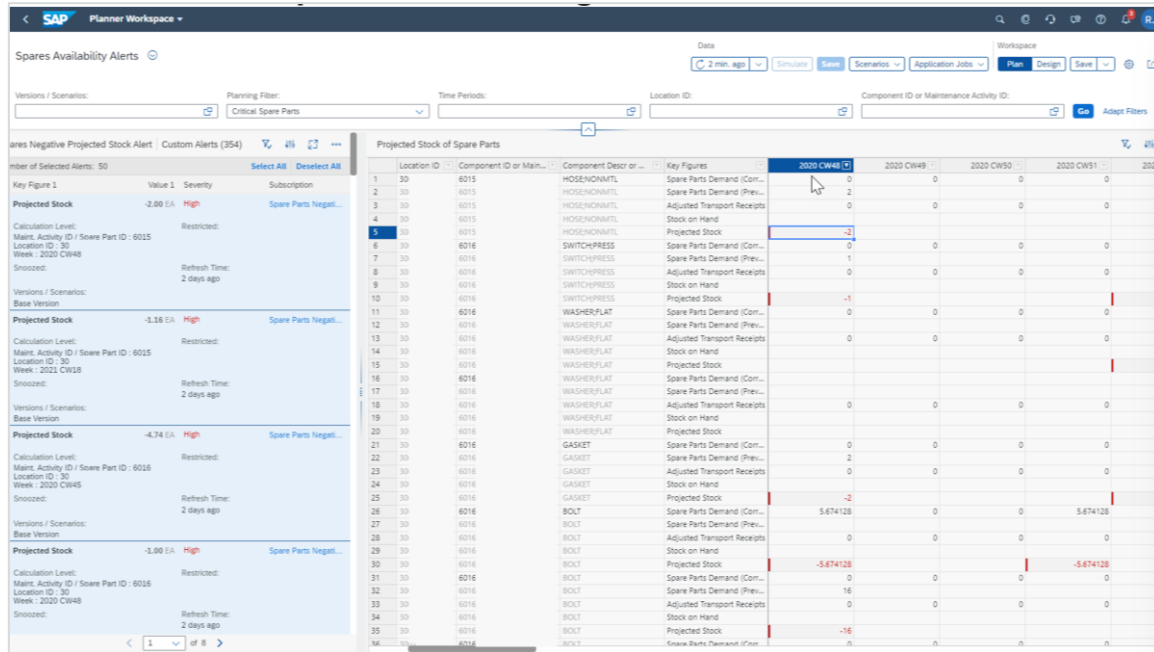
Increase the business impact of customer service and solve issues faster with connected customer service. Improve customer satisfaction and maximize the business impact





# Out-of-the-Box Integration

## Maintenance, Repair and Operations: Spare parts & resource planning with SAP IBP

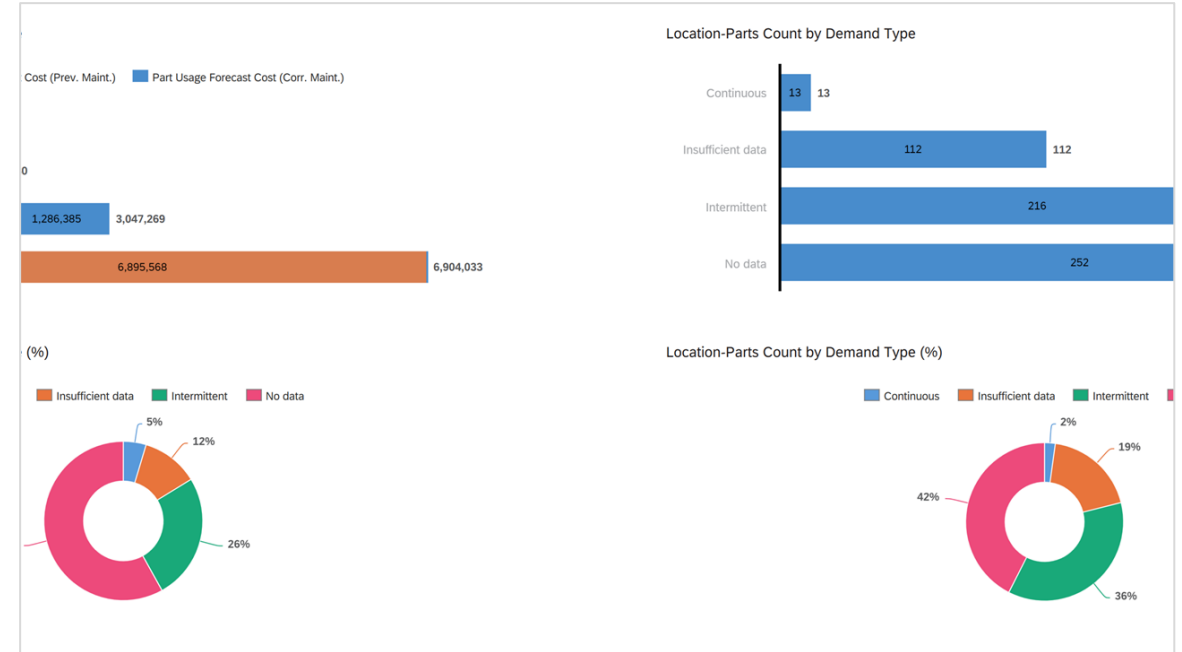


### Evolve from reactive inventory consumption planning to maintenance-driven parts planning

Moving from reactive planning to preventive planning, avoiding costly asset downtime.

### Improve visibility & exception management

Bring together insights from reactive, corrective and preventive demand streams as well as financial data.



### Include labor plans

Insights into cost and availability of the labor needed to perform the maintenance.

### Reduce working capital

Avoid overstocking while at the same time keeping parts availability high.





# Out-of-the-Box Integration

## Aftermarket: Service Parts End-to-End Planning

**SAP DRP Matrix**

BoD: BOD-SPP-1 Valid from: 10.12.2020 17:02:09 (UTC) Valid to: 31.12.9999 23:59:59 (UTC)

Level ID	Level 1	Level 2	VCI	Location Descr.
SPP1			<input type="checkbox"/>	SPP DC 1
SPP1			<input checked="" type="checkbox"/>	SPP DC 1
SPP2			<input type="checkbox"/>	SPP DC 2
SPP3			<input type="checkbox"/>	SPP DC 3

Product: SPP-DRP-100 Location: SPP1  
Product Descr.: SPP-DRP-100 Location Descr.: SPP DC 1  
UoM: EA Time Zone: PST

Timebucket Profile: Variable \* Tm.BktPrf: SAP Default (180 Days)

	Overdue	29.11.2021	30.11.2021	01.12.2021	02.12.2021	03.12.2021	06.12.2021	07.12.2021	08.12.2021	09.12.2021	10.12.2021	13.12.2021	14.12.2021
Total Gross Demand	7,551.125	1,985.170	187.180	564.179	745.180	564.179	187.180	1,122.179	187.180	564.179	745.180	564.179	187.180
Total Gross Receipt (Confirmed)													
Initial Warehouse Stock	200.000												
Projected Stock							4,456.807	5,579.628	5,392.448	4,828.269	6,328.089	5,763.910	5,576.730
Supply Shortage	7,351.125	9,336.295	9,523.475	10,087.654	10,832.834	11,397.013							
Planned Minimum Safety Stock Level		4,456.331	4,456.331	4,456.331	4,456.331	4,456.331	4,456.331	4,456.331	4,456.331	4,456.331	4,456.331	4,456.331	4,456.331
Minimum Net Demand													
Rounded Net Demand (Simple)	7,351.125	6,441.501	187.180	564.179	745.180	564.179	187.180	1,122.179	187.180	564.179	745.180	564.179	187.180
Rounded Net Demand (Unconstrained)	7,352.000	6,441.000	2,245.000				2,245.000				2,245.000		
Rounded Net Demand (Adapted)							16,040.524	1,121.703			373.242		
Rounded Net Demand (Constrained)							16,041.000	2,245.000			2,245.000		
Net Receipt from Supplier (Not Frozen)													
Net Receipt from Supplier (Unconst.) by Shp.Date	16,038.000	2,245.000				2,245.000		2,245.000					

Enable real-time and network-based planning and end-to end visibility for aftermarket business units with complex and volume intense processes.

Leverage dedicated process support, from specific forecasting models, over EOQ & safety stock calculations, to distribution requirements planning and deployment (and more) in one single tool.

Reduce inventory investment while keeping or even increasing customer service levels.

Streamline and automate processes and increase planner productivity, e.g. through workflows, alerts, analytics and ML based forecasting.

**SAP Forecasting**

BoD: BOD-SPP-1 Valid from: 04.12.2020 Valid to: 31.12.9999

Level ID	Level 1	Level 2	Relevant for Planning	Virtual Child Indicator	TPOP	Location Descr.
1	SPP1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SPP DC 1
2	SPP1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SPP DC 1
2	SPP2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SPP DC 2
2	SPP3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SPP DC 3

Product: SPP-FCST-100 Location: SPP1  
Product Descr.: SPP-FCST-100 Location Descr.: SPP DC 1  
UoM: EA

Forecast Change Save Save Profile Fine-Tuning Model Selection View

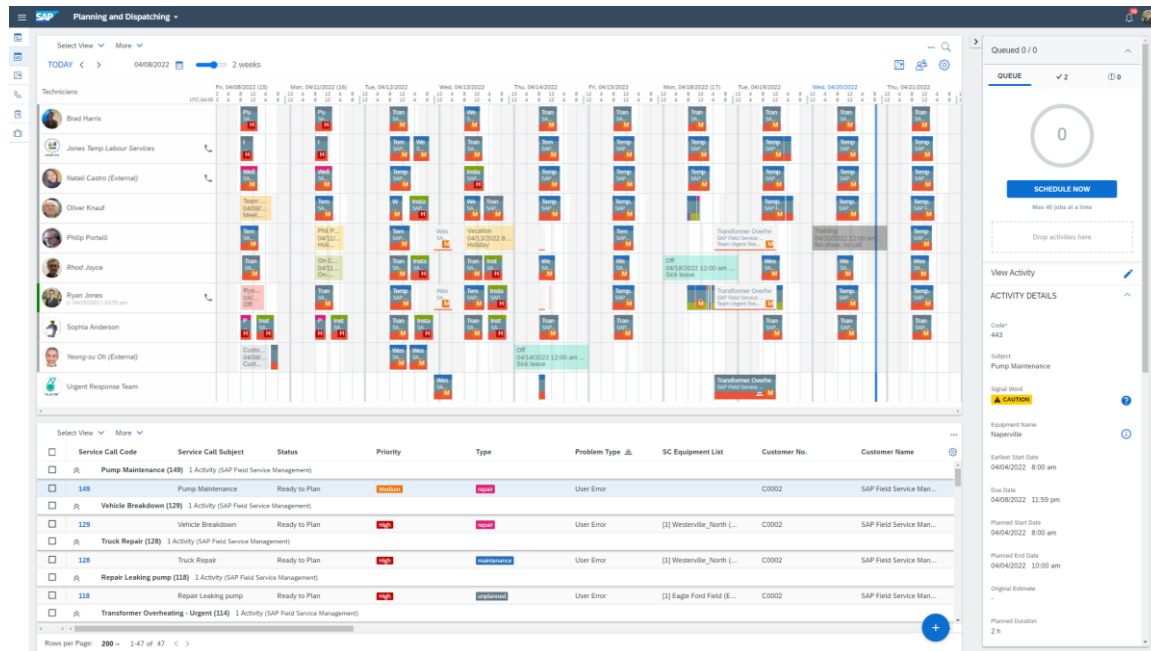
Key Figures	M 08.2021	M 09.2021	M 10.2021	M 11.2021	M 12.2021	M 01.2022	M 02.2022	M 03.2022	M 04.2022	M 05.2022	M 06.2022	M 07.2022	M 08.2022
Demand: Final History	11,007.819	15,210.000	14,760.900	6,067.896									
Demand: Outlier Correction	11,007.819	15,210.000	12,706.594	5,748.533									
Demand: Std Dev. Outlier Correction	4,480.401	4,480.401	4,480.401	4,480.401									
Demand: Forecast	11,451.887	16,496.285	12,258.554	7,997.694	4,871.441	5,069.252	10,570.098	16,813.499	11,253.382	6,695.469	3,039.976	5,675.814	12,702.014
Demand: Expost Forecast	11,451.887	16,496.285	12,258.554	7,997.694									
Demand: Disaggregated Forecast													
Demand: Manual Forecast													
Demand: Manual Disag. Forecast													
Demand: Final Forecast				11,739.100	11,739.100	11,739.100	11,739.100	11,739.100	11,739.100	11,739.100	11,739.100	11,739.100	11,739.100
Demand: Std Dev. Forecast				1,217.860	1,629.620	2,642.524	4,203.375	2,813.346	1,673.867	1,700.599	1,418.953	3,175.503	
Demand: Std Dev. Disag. Forecast													
Demand: Std Dev. Final Forecast				4,876.335	4,876.335	4,876.335	4,876.335	4,876.335	4,876.335	4,876.335	4,876.335	4,876.335	4,876.335
Demand: MAD				974.288	1,303.696	2,114.020	3,362.700	2,250.676	1,339.094	1,360.479	1,135.163	2,540.403	

Read more on [SAP S/4HANA Cloud for Service Parts Management](#)



# Out-of-the-Box Integration

## SAP Field Service Management: Planning and Dispatching

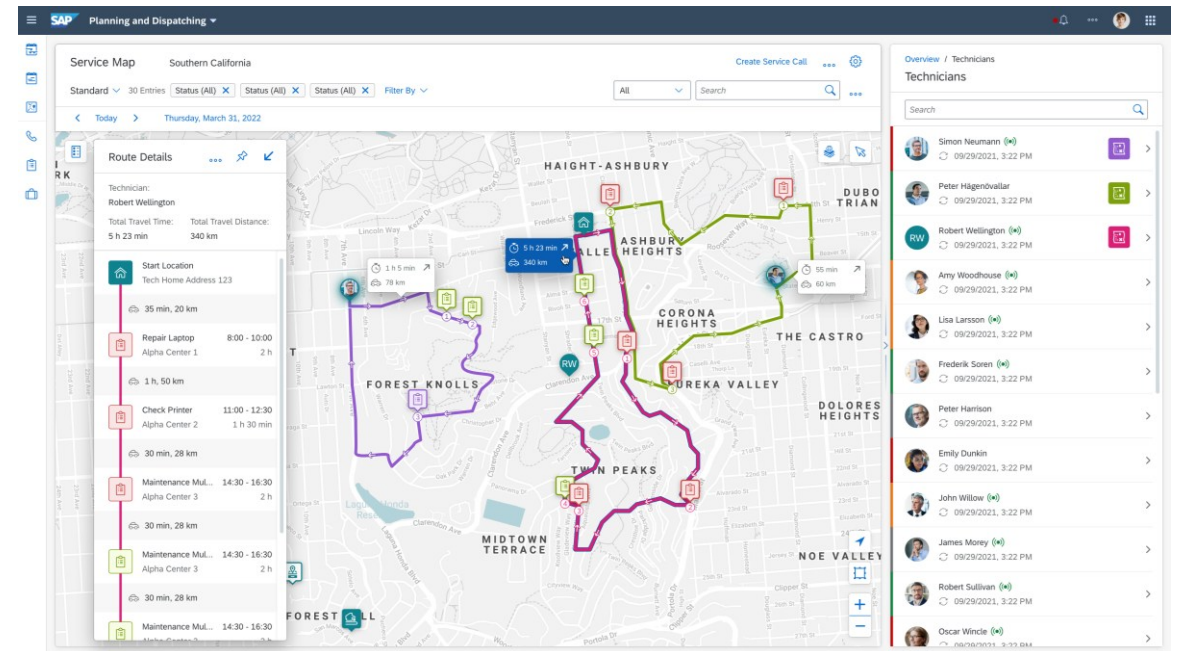


### Accelerate service execution

Leverage digital technologies to optimize field service operations for increased efficiency, reduced costs, and improved customer satisfaction.

### Cut resolution times with skills management

Define job and equipment requirements and manage technicians skills to validate the right technician will be assigned for each job.



### Optimize resource utilization and minimize idle time

Schedule, dispatch and track jobs and workers in real-time and assisted by AI based on a Gantt chart or map view.

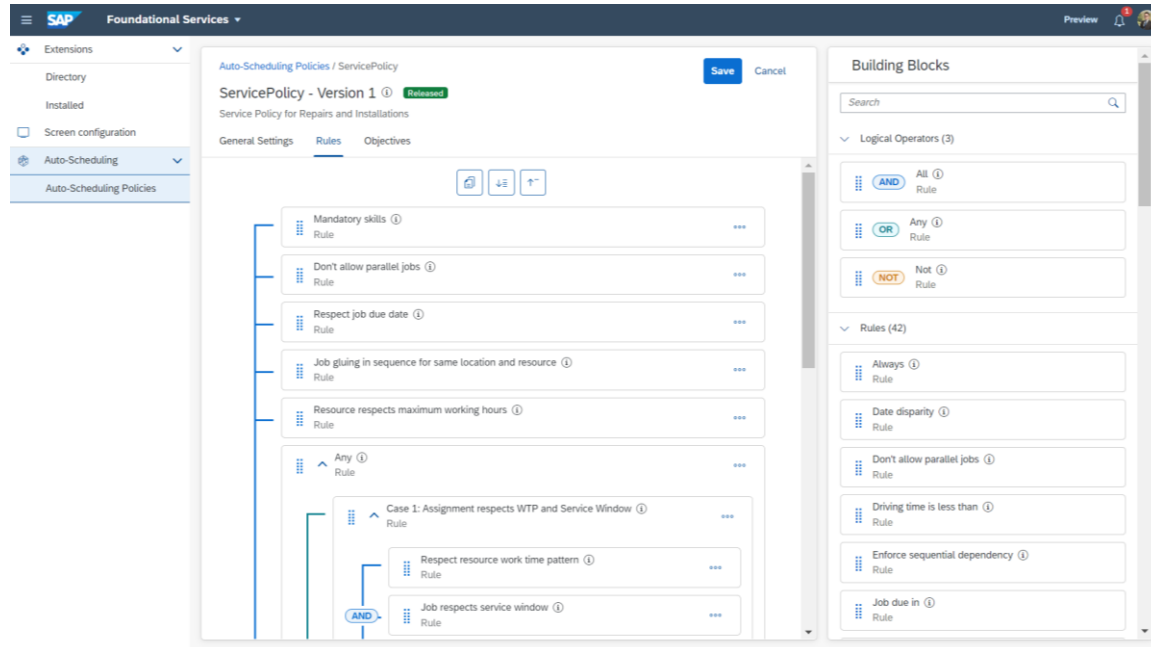
### Improve productivity by visualizing routes

View planned routes on the service map and plan directly from the map with a focus on optimizing routes and minimizing travel time.



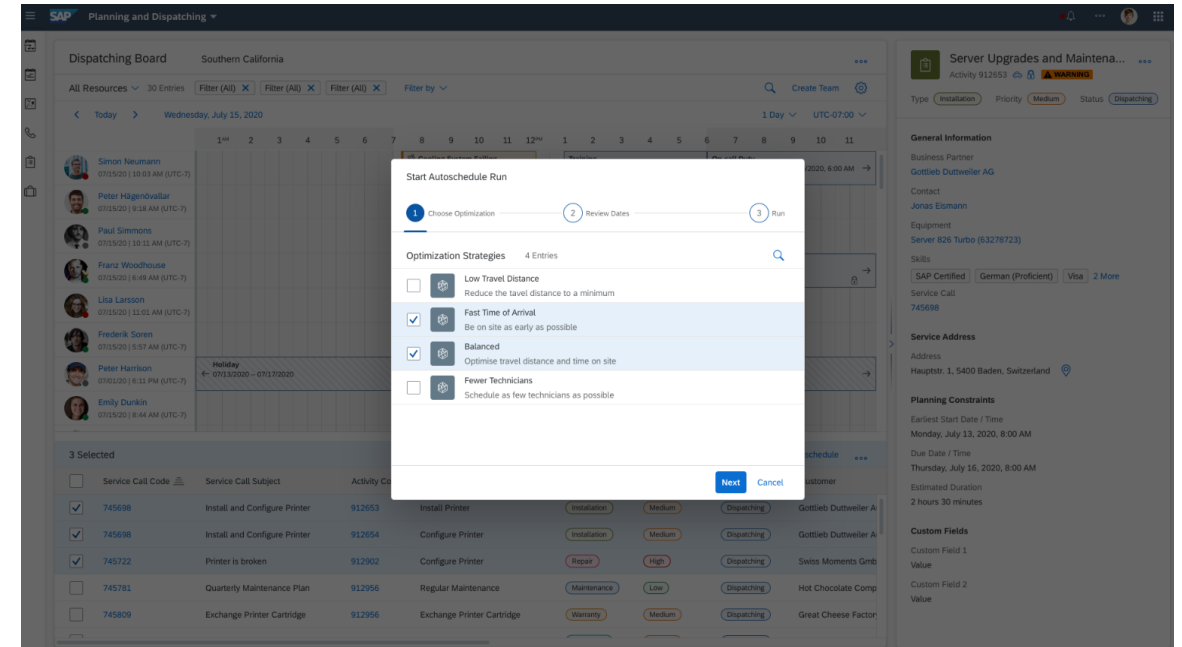
# Out-of-the-Box Integration

## SAP Field Service Management: AI based schedule optimization



**Fully automated scheduling and optimization**  
Trigger automated scheduling on request or automatically based on internal or external events or a predefined schedule.

**Best match technician**  
Find the most suitable technician for an activity based on location, skillset, and availability.

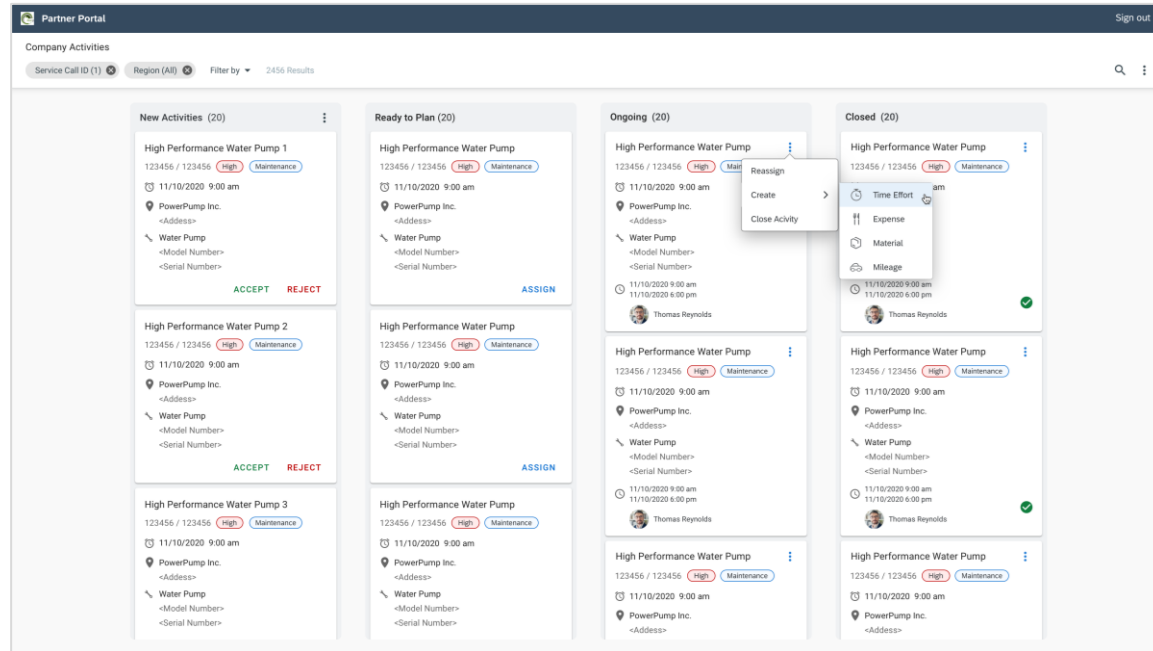


**Policy designer**  
View and modify policies for assisted or automated scheduling in a no-code designer to define company specific requirements.

**Appointment booking**  
Schedule field service appointments from an external solution such as customer engagement or commerce platform using an open API.

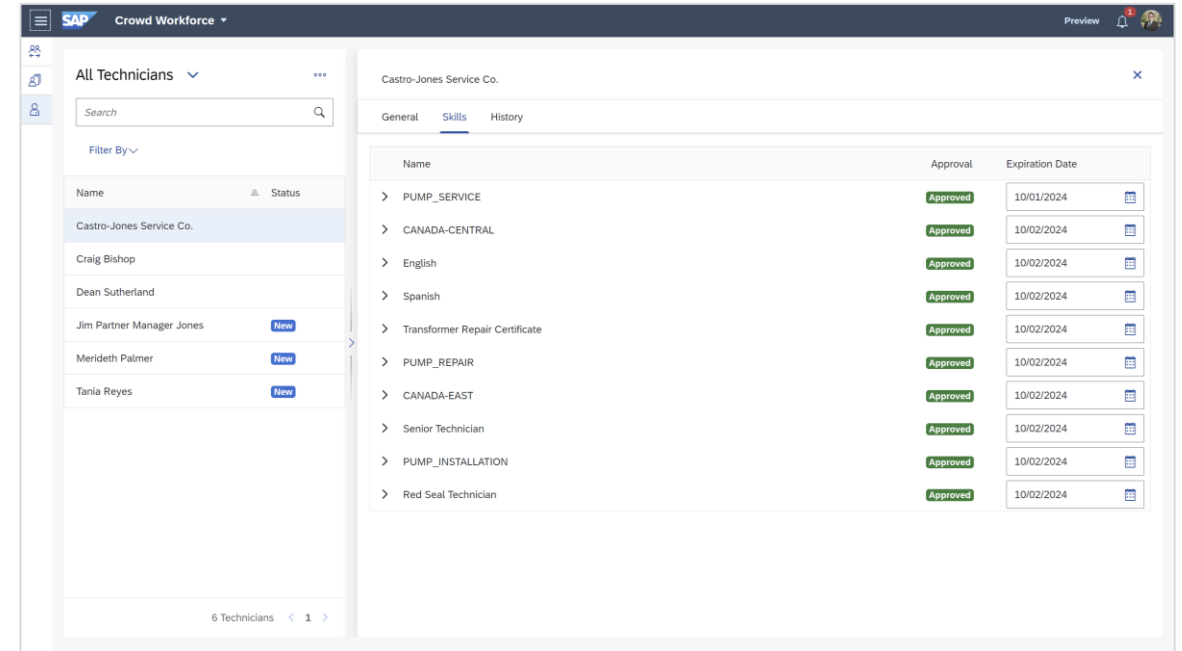


## Out-of-the-Box Integration SAP Field Service Management: Crowd Service



**Build a network of skilled service technicians**  
including partners, customers, and freelancers – on a single AI-enabled platform.

**Improve workforce planning and reduce bottlenecks**  
by helping contingent workers act in real-time, when and where maintenance is needed, anywhere and anytime.



**Skills and qualifications management**  
to provide best possible service with the right technician with the right skills.

**Simplified onboarding for contractors**  
with option to use mobile application, or Smartforms.

**Manage all time efforts**  
Manage expenses, mileage, etc. with options to approve, reject, request changes, etc.



## Out-of-the-Box Integration

### SAP Field Service Management: Mobile Field Service

#### Mobile workforce enablement

Empower field workers with intuitive mobile solutions to be more agile and responsive to changing market demands and customer needs.

#### Native offline first applications

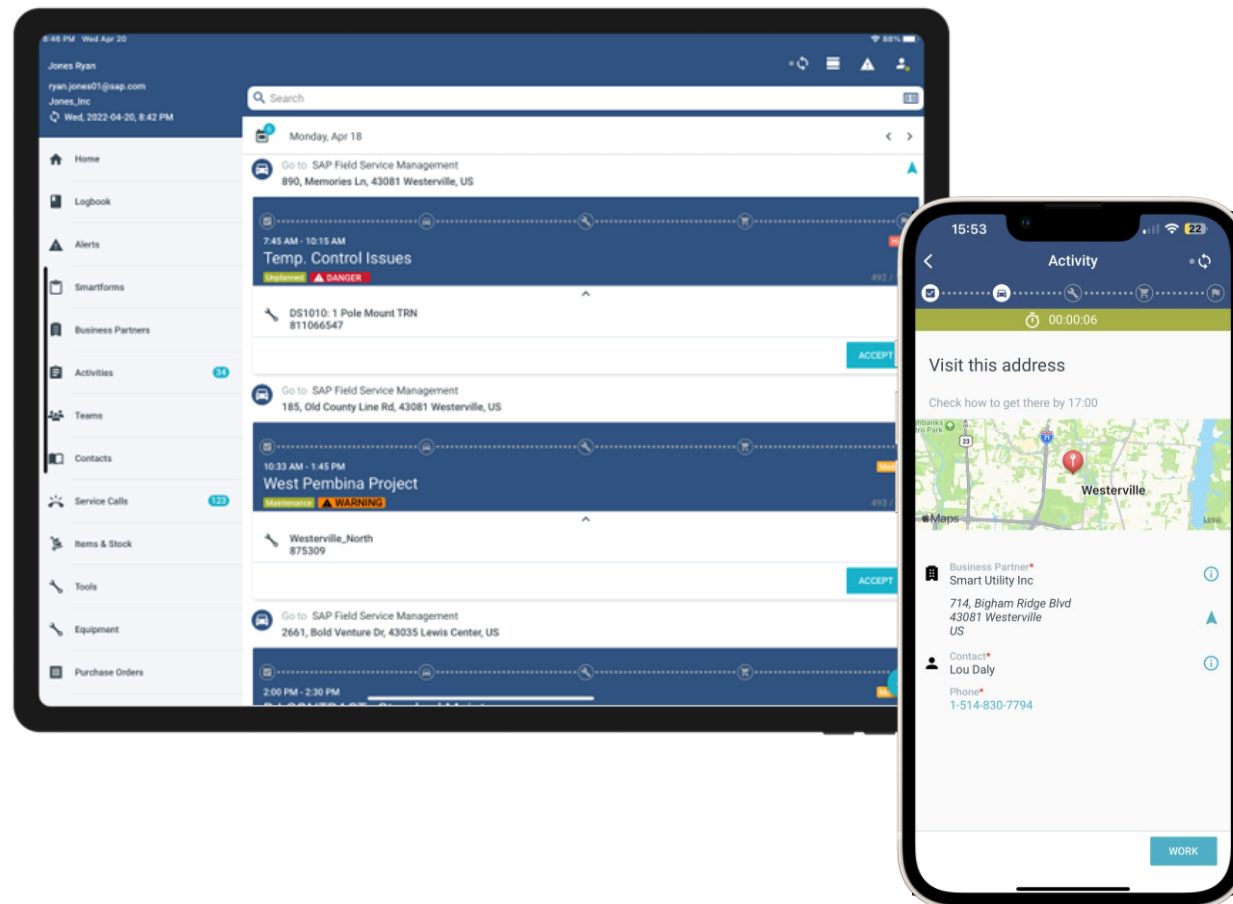
Provide offline access to customer and job information to allow technicians to perform their jobs and capture customer's signature to generate service reports without interruption or delay.

#### Guided workflow and Smartforms

Provide field workers with a step-by-step guidance and relevant data at the right time to ensure correct and safe execution and high data quality.

#### Location Tracking

Monitor real-time location of the field workers using GPS technology to optimize schedules and enhance worker safety.





# Out-of-the-Box Integration

## SAP Field Service Management: Smartforms and Feedback

### Intuitive creation

Create and edit dynamic forms based on easy to use no-code designer, designed for business users without developer knowledge needed.

### Intelligent dynamic forms

Define mandatory fields and visibility conditions, validate data input and pre-define data to guide technicians and automate processes with business rules.

### Seamlessly integrated

Integrate with S/4HANA based on the SAP Field Service Management platform to support service and maintenance processes.

### Digitize business processes and data capture

Ensure high data quality for quality assurance and inspections and improve workers safety with embedded safety labels.

The screenshot shows the 'Edit Safety label' dialog in the SAP Smartforms editor. The 'GENERAL' tab is active. The title is 'Opening the engine cover' and the ID is 'safetyLabel1'. The preview area displays a yellow warning label with a flame symbol, the text 'CAUTION Hot surface can be expected even hours after operation. Wear suitable gloves when opening the engine cover!', and a blue mandatory symbol (a hand with a flame). Below the preview, the 'Symbol left' is 'Hot surface', the 'Signal word' is 'Caution', and the 'Symbol right' is 'Wear protective gloves'. The message text is 'Hot surface can be expected even hours after operation. Wear suitable gloves when opening the engine cover!'. The 'CANCEL' and 'SAVE' buttons are at the bottom right.

The screenshot shows a mobile device displaying a 'Well Installation Checklist' form. The form is titled 'WELL INSTALLATION CHECKLIST' and includes a 'Customer' field with the value 'SAP Field Service' and a 'Well ID' field with the value 'SAP Field Service'. The form contains several sections with checkboxes for 'Yes', 'No', and 'N/A':

- Material Handling Equipment (MHE):**
  - Is the Proper Type of Equipment being Utilized for Handling of Material on Location?
  - Is Proper Inspection of Equipment (Forklifts) Being Done Prior to Daily Use?
  - All Safety Devices on Equipment (Seat belts, Backup Alarms, Etc.) in Good Working Condition?
- Generator Area / Electrical Systems:**
  - All Electrical Equipment and Generators are Properly Grounded?
  - 'High Voltage' Warning Signs Properly Posted?
  - All Electrical Wiring is off the Ground?
  - All Light Fixtures are Properly Protected from Damage?
- As Left Readings:**

Well ID:	Measurement Point	Reading	UOM
	Flow rate		GPM
	Discharge Pressure		PSIG
	Discharge Temperature		Deg. F
- Additional Findings / Issues / Concerns:** (Text input field)
- Add Photo:** (Image input field)
- Signature:** (Text input field)
- Date:** (Text input field)
- Name:** (Text input field)

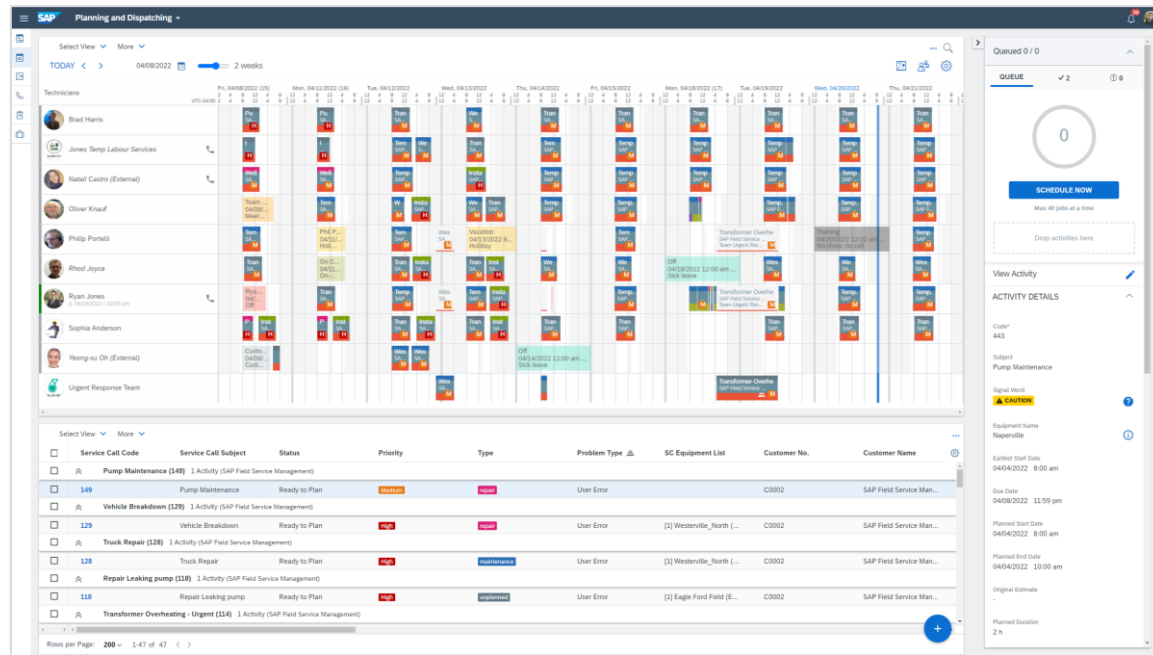
The form is on 'Page 2 of 2' and has 'PREVIOUS' and 'FINISH' buttons at the bottom.





# Out-of-the-Box Integration

## Integrate service across the supply chain: Predictive Service

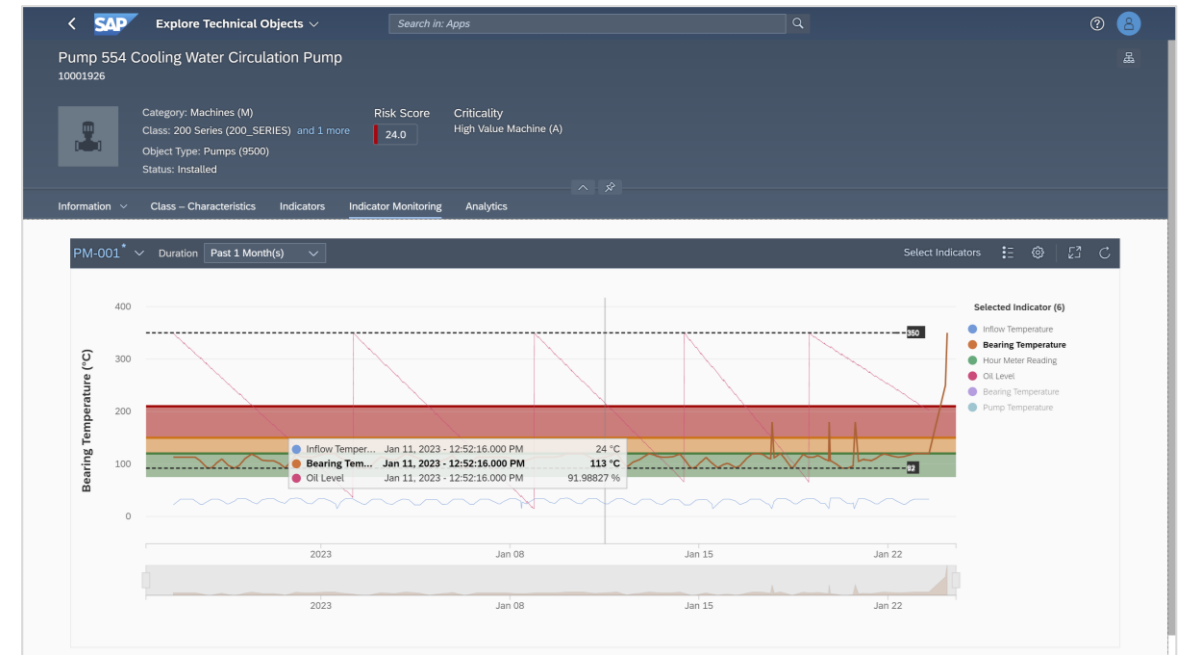


### Integrate with SAP Asset Performance Management

Enables you to offer next generation field services. You can provide proactive and predictive maintenance, increase service efficiency and reduce downtime.

### Reduce downtime with automatic service call creation

Integration managed via SAP BTP Integration Suite



### Set alerts to prevent machine breakdown

Use IoT sensor data to reduce intervention and traveling costs, ensuring costs savings for operations.

### Shorten resolution times with better insights

Support your technicians by providing them historical and real-time data of the equipment.



# Out-of-the-Box Integration

## SAP Field Service Management: Time and Material Journal

The screenshot shows the SAP 'Time and Material Journal' interface. The main table lists entries with columns: Type, Created On, Approval Status, Decision, Service Call, Subject, Activity, and Details. A 'Change Request' button is visible for the first entry. A sidebar on the right shows a 'Summary' of 2 items and a list of 'Time Efforts' with status indicators (Chargeable, Non Chargeable). A tooltip is visible over the 'Change Request' button, showing 'Approval Status: Change Requested' and 'Reason: Please attach receipt'.

Type	Created On	Approval Status	Decision	Service Call	Subject	Activity	Details
TimeEffort	2023-05-03	Change Requested		305	Meter Swap	1152	Standard Service 0 hours 3 minutes 2023-05-03, 9:03:00 PM America/Bozouren 2023-05-03, 9:03:00 PM America/Bozouren
Expense	2023-05-03	Change Requested		305	Meter Swap	1152	Travel 2023-05-03, 9:03:00 PM America/Bozouren 2023-05-03, 9:03:00 PM America/Bozouren
Material	2023-05-03	Pending			Meter Swap	1152	Bearing Type 626 NICE THRST 8002-071-0013 2023-05-03, 9:03:00 PM America/Bozouren 2023-05-03, 9:03:00 PM America/Bozouren
Material	2023-05-03	Pending		305	Meter Swap	1152	Breaker, 3-Pole ITE NO. 803-8050 115 VOL 2023-05-03, 9:03:00 PM America/Bozouren 2023-05-03, 9:03:00 PM America/Bozouren
TimeEffort	2023-04-27	Pending		302	Meter Swap	1058	Standard Service 0 hours a minute 2023-04-27, 4:01:00 PM America/Bozouren 2023-04-27, 4:01:00 PM America/Bozouren
TimeEffort	2023-04-26	Pending		300	Transformer Pl	1056	Standard Service 0 hours a minute 2023-04-26, 4:01:00 PM America/Bozouren 2023-04-26, 4:01:00 PM America/Bozouren
TimeEffort	2023-04-19	Pending		299	Transformer Ins	1054	Standard Service 0 hours a minute 2023-04-19, 9:03:00 PM America/Bozouren 2023-04-19, 9:03:00 PM America/Bozouren
TimeEffort	2023-04-19	Pending		299	Transformer Ins	1054	Travel 2 hours 35 minutes 2023-04-19, 12:45:00 PM America/Bozouren 2023-04-19, 12:45:00 PM America/Bozouren
TimeEffort	2023-04-19	Pending		299	Transformer Ins	1052	Standard Service 0 hours 11 minutes 2023-04-19, 9:03:00 PM America/Bozouren 2023-04-19, 9:03:00 PM America/Bozouren

### Time and Material Journal

View, edit, delete, and approve technician-input values such as mileage, time, efforts, and material critical for billing and service call completions.

### Accurate billing

Avoid overcharging or undercharging by reviewing technician's time sheet and ensuring the clients are accurately billed for the amount of time and material spent on a service order.

The screenshot shows the SAP 'Time and Material Journal' interface with an 'Edit Material' dialog box open. The dialog box has tabs for 'Related to' and 'Details'. The 'Related to' tab is active, showing fields for 'Service Call' (305 - Meter Swap), 'Activity' (1152 - Meter Swap), 'Technician' (Ryan's Van), and 'Item' (Bearing Type 626 NICE THRST 8002-071-0013). The 'Details' tab shows fields for 'Equipment' (Select or start typing), 'Warehouse' (Ryan's Van), 'Date of Material' (2023-05-03), 'Quantity' (2), and 'Unit Price' (400). A 'Chargeable' checkbox is checked. The background shows the same table as the first screenshot.

### Full Transparency

Get an overview on how much time and resources are being spent on a service order or project and provide customers and other stakeholders with regular updates on progress and cost.

### Improved partner management

View details reported by partner companies and technicians as part of the SAP Crowd Service.





# Compatibility Packs



## CP ID 402–413: CS-Service

- Alternative option: SAP S/4HANA 2023
- Business impact note: 2962632
- Simplification item: [S4TWL - Customer Service](#)

CS is one of the three exceptions for which the usage right has been extended to the end of **2030**.

Refer to [SAP Note 2269324 - Compatibility Scope Matrix for SAP S/4HANA](#)

# Sales





## SAP Cloud ERP Private differentiators

# SAP HANA and Embedded Analytics



# SAP HANA and Real-time Analytics

<b>Customer Overview</b> <ul style="list-style-type: none"> <li>Customer Overview</li> <li>Customer 360 View</li> </ul>	<b>Sales Overview</b> <ul style="list-style-type: none"> <li>My Sales Overview</li> <li>Sales Management Overview</li> <li>Order to Cash dashboard*</li> </ul>	<b>Sales Plan and Performance</b> <ul style="list-style-type: none"> <li>Manage Sales plans</li> <li>Sales Performance – Plan/Actual</li> <li>Sales Performance – Plan/Actual(Quantity Based)</li> </ul>	<b>Sales Order Mgmt. and Processing</b> <ul style="list-style-type: none"> <li>Sales Order Fulfillment</li> <li>Track Sales Orders Details</li> <li>Track Sales Orders</li> <li>Incoming sales orders - Flexible Analysis</li> <li>Sales order – Demand Fulfillment</li> <li>Sales order items <ul style="list-style-type: none"> <li>Backorders</li> <li>Confirmed as Requested</li> </ul> </li> <li>Delivery performance</li> <li>Predicted Delivery Delay</li> </ul>	<b>Sales Billing</b> <ul style="list-style-type: none"> <li>Sales volume</li> <li>Profit Margin</li> <li>Check Open Sales</li> <li>Credit Memo</li> <li>Sales volume – Flexible Analysis</li> </ul>	<b>Claims, Returns and Refund Mgmt.</b> <ul style="list-style-type: none"> <li>Customer Returns Overview*</li> <li>Customer Returns – Return Rate</li> <li>Customer Returns – Flexible Analysis</li> </ul>
<b>Sales Quotation Management</b> <ul style="list-style-type: none"> <li>Quotation Conversion Rate</li> <li>Sales Quotation – Flexible Analysis</li> </ul>	<b>Scheduling Agreement</b> <ul style="list-style-type: none"> <li>Sales Scheduling Agreement – Product Demand</li> <li>Sales Scheduling Agreement – Demand Deviation</li> </ul>	<b>Sales Contract Management</b> <ul style="list-style-type: none"> <li>Sales contract fulfillment Rate</li> </ul>	<b>Sales Rebates Mgmt. &amp; Incentive and Commissions Mgmt.</b> <ul style="list-style-type: none"> <li>Monitor Condition Contracts</li> <li>Monitor Settlement Documents</li> </ul>	<b>Price Management</b> <ul style="list-style-type: none"> <li>Pricing elements flexible analysis</li> </ul>	



## SAP Cloud ERP Private differentiators

# Data Products and Intelligent Applications










# Data products

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.

These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.

[Available data products](#)

<div> Data Product</div> <div>Sales Master Data Configuration</div> <div>Data Product Sales Master Data Configuration</div> <div>Version 1.0.0 ACTIVE</div>	<div> Data Product</div> <div>Debit Memo Request</div> <div>Data Product Debit Memo Request</div> <div>Version 1.0.2 ACTIVE</div>	<div> Data Product</div> <div>Sales Order</div> <div>Data Product Sales Order</div> <div>Version 1.0.1 ACTIVE</div>	<div> Data Product</div> <div>Sales Order Without Charge</div> <div>Data Product Sales Order Without Charge</div> <div>Version 1.0.1 ACTIVE</div>
<div> Data Product</div> <div>Sales Status Configuration</div> <div>Data Product Sales Status Configuration</div> <div>Version 1.0.0 ACTIVE</div>	<div> Data Product</div> <div>Customer Return</div> <div>Data Product Customer Return</div> <div>Version 1.0.1 ACTIVE</div>	<div> Data Product</div> <div>Sales Inquiry</div> <div>Data Product Sales Inquiry</div> <div>Version 1.0.0 ACTIVE</div>	











# Data products

Explore a range of data products within Business Data Cloud designed to help businesses manage, analyze, and leverage their data.

These products include curated datasets, data integration tools, and analytical applications, all of which aim to enable data-driven decision-making.

[Available data products](#)

<div> Data Product</div> <div>Invoice List</div> <div>Data Product Invoice List</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div> Data Product</div> <div>Sales Organizational Structure</div> <div>Data Product Sales Organizational Structure</div> <div>Version 1.0.0</div> <div>ACTIVE</div>	<div> Data Product</div> <div>Sales Scheduling Agreement</div> <div>Data Product Sales Scheduling Agreement</div> <div>Version 1.0.0</div> <div>ACTIVE</div>	<div> Data Product</div> <div>Sales Billing Configuration</div> <div>Data Product Sales Billing Configuration</div> <div>Version 1.0.0</div> <div>ACTIVE</div>
<div> Data Product</div> <div>Sales Quotation</div> <div>Data Product Sales Quotation</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div> Data Product</div> <div>Billing Document Request</div> <div>Data Product Billing Document Request</div> <div>Version 1.0.1</div> <div>ACTIVE</div>	<div> Data Product</div> <div>Sales Basic Functions Config</div> <div>Data Product Sales Basic Functions Config</div> <div>Version 1.0.0</div> <div>ACTIVE</div>	<div> Data Product</div> <div>Billing Document</div> <div>Data Product Billing Document</div> <div>Version 1.0.2</div> <div>ACTIVE</div>



# SAP Cloud ERP Private differentiators

**SAP Fiori**





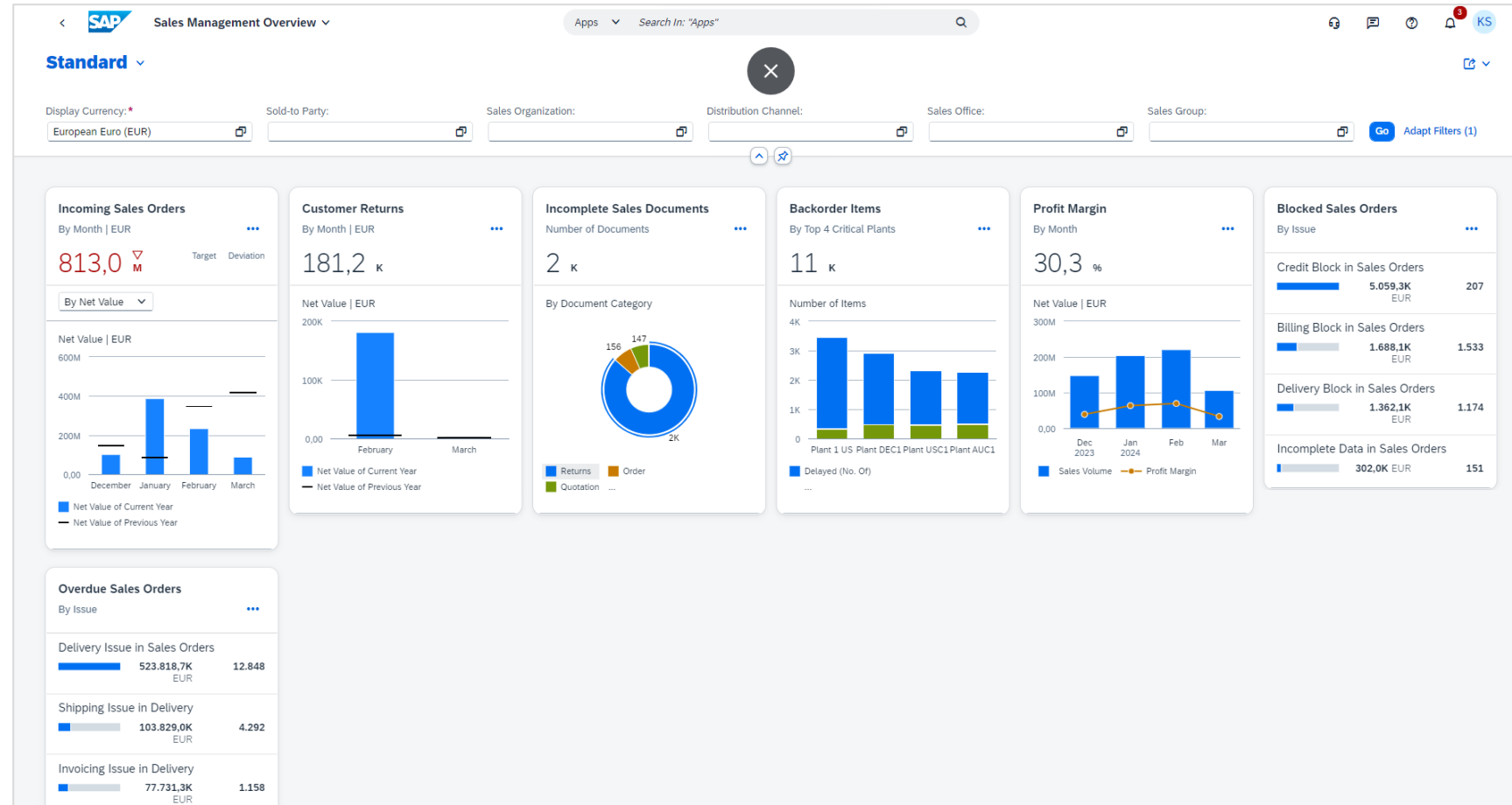
# SAP Fiori

## Lighthouse Apps



### Sales Management Overview

- Analyze the data by navigating to related analytical apps from the cards
- Gain comprehensive insights into current sales situations
- Get a graphical overview of various sales data and insights into current sales situations with the option to navigate to analytical apps for further drill-down



[Link to documentation](#)



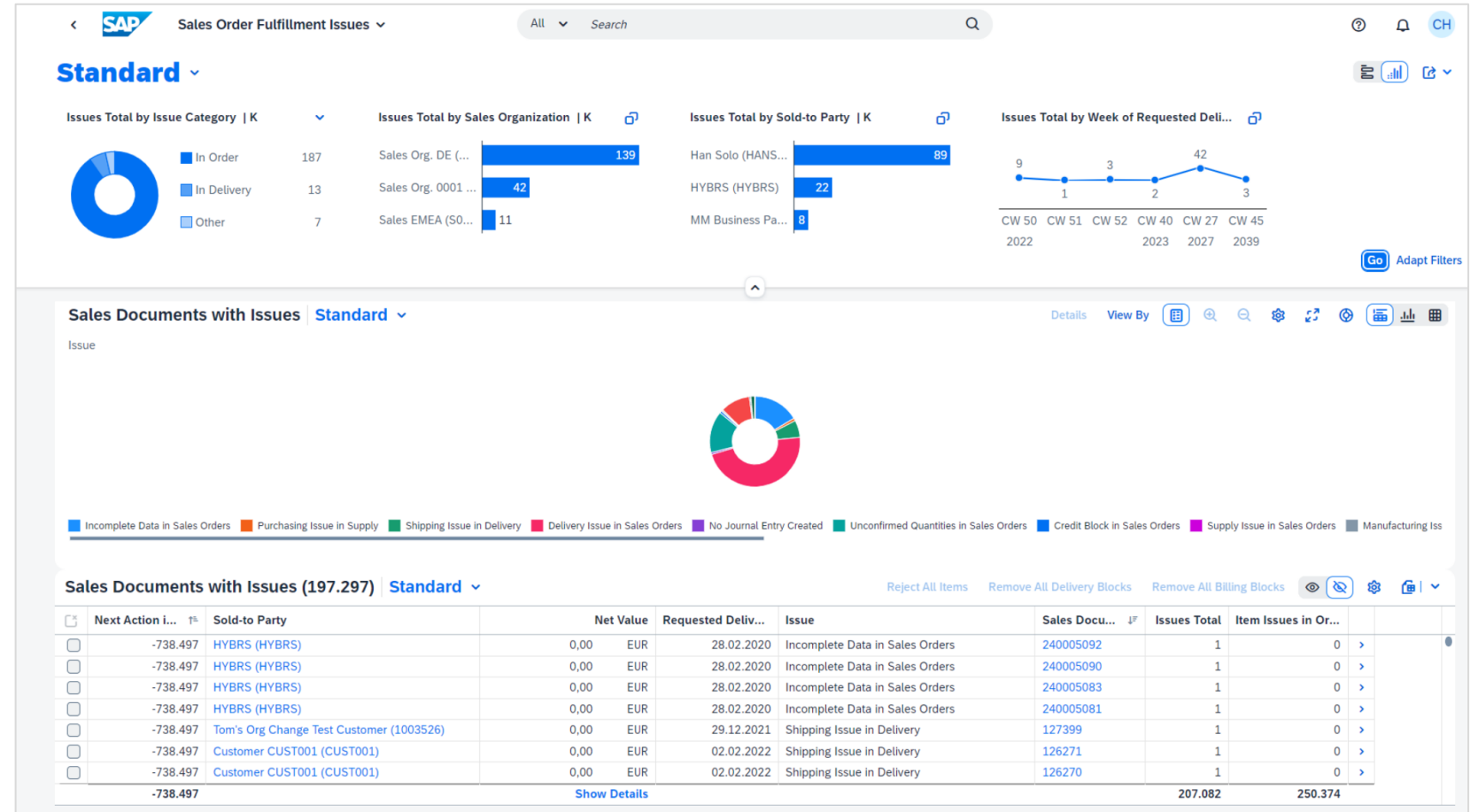
# SAP Fiori

## Lighthouse Apps



### Sales Order Fulfillment Issues

- Analyze and resolve issues that impede sales orders from being fulfilled
- The app provides supporting information and allows to navigate to Track Sales Order Details to resolve the issues
- Monitor critical stages, collaborate with contacts, and efficiently address issues to ensure that sales orders are fulfilled as quickly as possible. The app highlights impediments, provides supporting information, and allows to navigate to Track Sales Order Details to display further details and resolve the issues



[Link to documentation](#)



# SAP Fiori

## Lighthouse Apps



### Track Sales Orders

- Check whether the delivery of a sales order is on track regarding its fulfillment, e.g., whether it has been shipped, invoiced, or whether an accounting document has been cleared
- Recognize whether the fulfillment of the sales order contains issues or not, or whether it has been completed, or is still in process

SAP Track Sales Orders

Apps Search In: "Apps"

Standard

Search Sales Document: Sold-to Party: Customer Reference: Requested Delivery Date: Overall Status: Document Date: Delivery Processing: Order Processing: Supply Processing:

Go Adapt Filters (1)

Sales Document	Overall Fulfillment	Process Phase	Requested Delive...	Net Value	Order Processing	Supply Processing	Delivery Processing	In Transit	Invoicing
406871	⊗	Delivery Processing	03/17/2024	263.828.00 USD	⊙		⊗		>
406783	⊗	Delivery Processing	03/14/2024	272.712.00 USD	⊙		⊗		>
406781	⊗	Delivery Processing	03/14/2024	700.17 USD	⊗		⊗		>
406780	⊗	Delivery Processing	03/15/2024	410.452.00 USD	⊙		⊗		>
402575	⊗	Delivery Processing	03/12/2024	2.016.00 USD	⊙		⊗		>
402574	⊗	Delivery Processing	03/12/2024	16.128.00 USD	⊙		⊗		>
406690	⊗	Delivery Processing	03/15/2024	700.17 USD	⊗		⊗		>
406689	⊗	Delivery Processing	03/15/2024	280.364.00 USD	⊙		⊗		>
406688	⊗	Delivery Processing	03/13/2024	335.700.00 USD	⊙		⊗		>
406685	⊗	Delivery Processing	03/11/2024	334.884.00 USD	⊙		⊗		>
406679	⊗	Delivery Processing	03/13/2024	700.17 USD	⊗		⊗		>
406677	⊗	Delivery Processing	03/13/2024	343.352.00 USD	⊙		⊗		>
406676	⊗	Delivery Processing	03/14/2024	282.716.00 USD	⊙		⊗		>
406574	⊗	Delivery Processing	03/10/2024	3.125.00 USD	⊙		⊗		>
406475	⊗	Delivery Processing	03/11/2024	201.556.00 USD	⊙		⊗		>
406474	⊗	Delivery Processing	03/12/2024	201.556.00 USD	⊙		⊗		>
406380	⊗	Delivery Processing	03/11/2024	1.388.004.00 USD	⊙		⊗		>
406379	⊗	Delivery Processing	03/09/2024	238.256.00 USD	⊙		⊗		>
406377	⊗	Delivery Processing	03/09/2024	1.611.424.00 USD	⊙		⊗		>
406373	⊗	Delivery Processing	03/09/2024	1.828.880.00 USD	⊙		⊗		>

More

[ 20 / 4.292 ]

[Link to documentation](#)

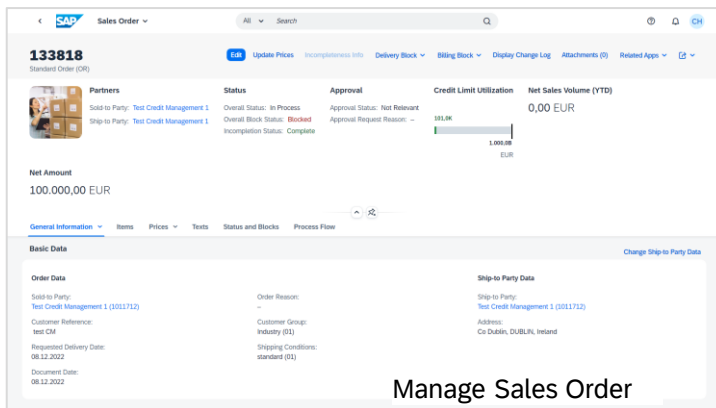


# SAP Fiori

## SAP Fiori App Create Sales Document - Sales Order, Sales Quotation, Sales Contract

### Delightful UX

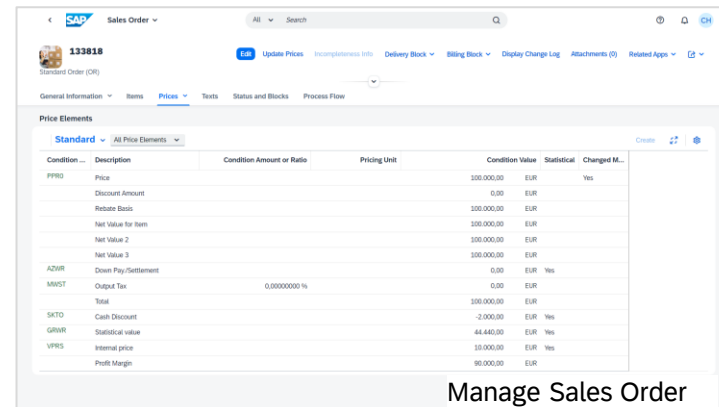
- **Transparency of features** and visible functionalities
- **Embedded** sales order **relevant data**, e.g., credit limit utilization, net sales volume, process flow
- **Fully integrated** in sales operation



Manage Sales Order

### Operational Efficiency

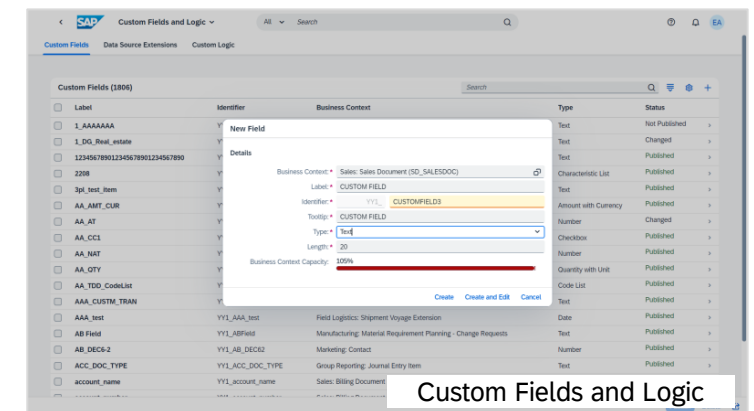
- **Clear structure and easy handling** of the sales order in header and items
- **Real-time response**, e.g., pricing, ATP, sub-items determination (free goods/ Bill of Material explosion)
- **Keyboard navigation** enabled
- NAST output enabled for sales order and billing documents



Manage Sales Order

### Adaptation and Extensibility

- No-code **UI adaptation**
- **Modification-free enhancement** with custom fields, data source extensions and BAdI implementations.
- **Lifecycle-stable** and **upgrade-proof**



Custom Fields and Logic





# SAP Fiori

## Import Sales Document via MS Excel Upload

### Mass Order Creation

- Fiori App **Import Sales Documents**
- Creation of sales orders by importing pre-defined templates in Microsoft Excel spreadsheet formats

### Configurable Template

- Over 160 **Fields** for Sales Order **Headers**, Sales Order **Items**, **Pricing** and **Text**
- Embedded how-to explanation
- Easy and flexible maintenance



Sales Order  
Upload Template

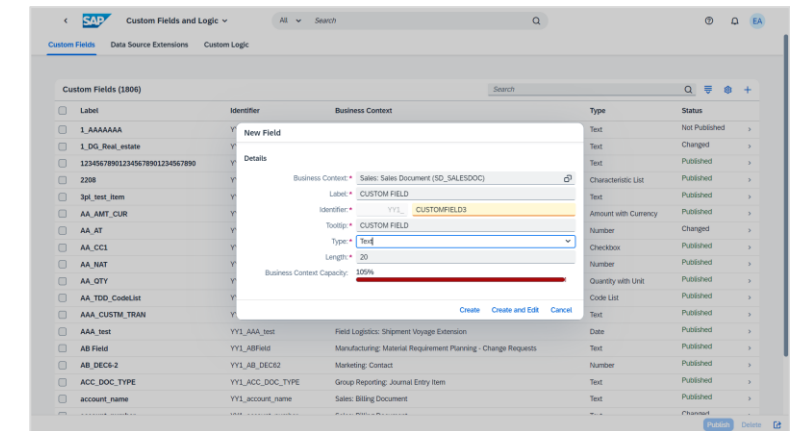
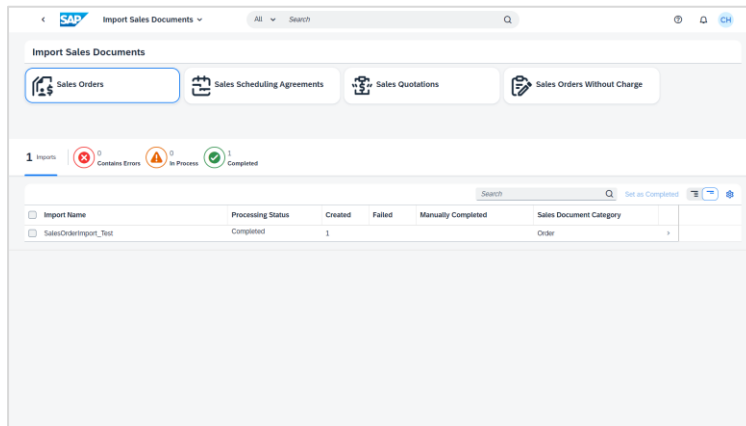
Order Field List

could be read-only. It provides a list of sales order fields that are either required (marked with an asterisk) or optional. You can add optional fields to the "Order Data" sheet as needed. The unique technical identifiers of sales order fields. They serve as a basis for order data import.

Field Name (Technical)	Field Description	Property	Max. Length	Remarks
EDIS	*Sales Order (Temporary ID)	Required	10	
EDERTYPE	*Sales Order Type	Required	4	Supports order types in sales document category C (Eorder).
EDORGANIZATION	*Sales Organization	Required	4	
EDDISTRIBUTION	*Distribution Channel	Required	2	
EDDIVISION	*Division	Required	2	
EDDISTRICT	Sales District	Optional	6	
EDOFFICE	Sales Office	Optional	4	
EDGROUP	Sales Group	Optional	3	
EDPARTY	*Sold to Party	Required	10	
EDPARTY	Ship-to Party	Optional	10	
EDPARTY	Bill-to Party	Optional	10	
EDPARTY	Payer	Optional	10	
EDPARTY	Sales Employee	Optional	8	Requires a numeric key.
EDPARTY	Employee Responsible	Optional	8	Requires a numeric key.
EDCUSTOMER	Customer Reference	Optional	35	
EDCUSTOMER	Customer Reference	Optional	35	
EDCUSTOMER	Customer Ref. Date	Optional	10	Supports YYYY-MM-DD and YYYYMMDD.
EDPURCHASEORDER	Purchase Order Type	Optional	4	Indicates the channel used by your customer to place an order.
EDDELIVERYDATE	Requested Delivery Date	Optional	10	Supports YYYY-MM-DD and YYYYMMDD.
EDDATE	Pricing Date	Optional	10	Supports YYYY-MM-DD and YYYYMMDD.
EDDATE	Document Date	Optional	10	Supports YYYY-MM-DD and YYYYMMDD.
EDDATE	Fixed Value Date	Optional	10	Supports YYYY-MM-DD and YYYYMMDD.
EDCONDITION	Shipping Conditions	Optional	2	
EDTYPE	Shipping Type	Optional	2	

### Adaptation and Extensibility

- **Field extension** via SAP S/4HANA In-App Extensibility
- Fiori App **Custom Fields**
- Enabled fields can be added to Sales Order upload template



[Link to documentation](#)

**SAP** Mass Change of Sales Documents    All   Search   Q   ?   CH

### Create Change Jobs for Sales Documents

Sales Orders
 Sales Quotations
 Sales Contracts
 Customer Returns

Sales Scheduling Agreements
 Sales Orders Without Charge
 Debit Memo Requests
 Credit Memo Requests

Across Sales Documents

**My Jobs**

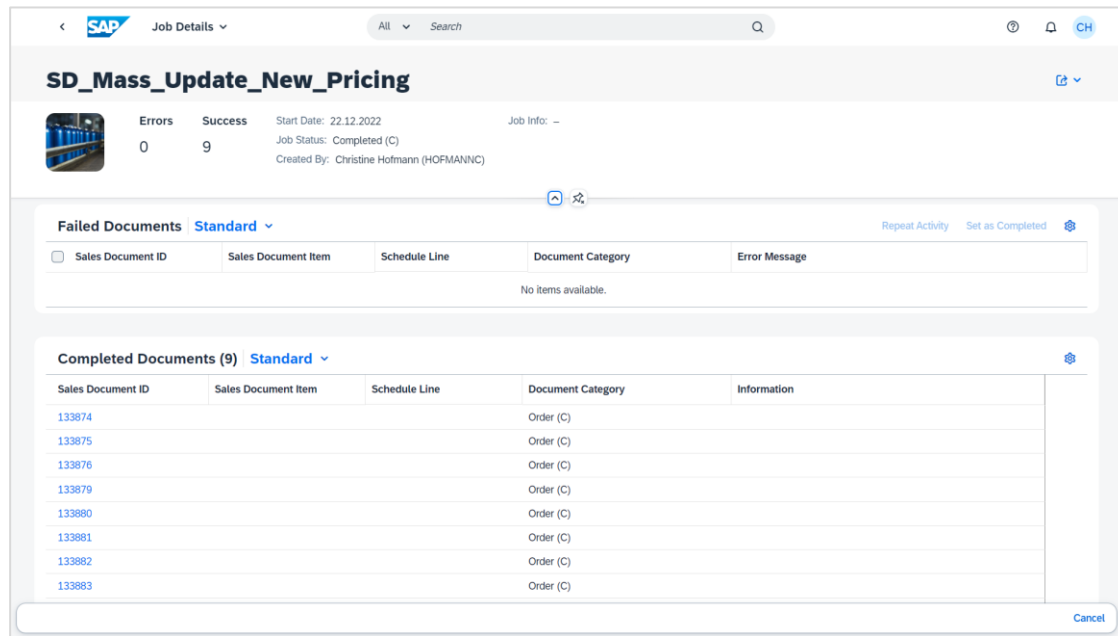
Failed
 In Process
 Completed

Job Name	Created By	Start Date	Error	Success	Manually Completed	Sales Document	Sales Document Level	Action
No data available								

Item	Order Type	Organization	Business Partner	Delivery Status	Quantity	Unit Price	Total Price	Currency
✓ 133884	Standard Order (OR)	Sales Org. 0001 (0001)	Müncher Großhandels AG (MK_CUS_DE1)	Not Delivered				
✓ 133874	Standard Order (OR)	Sales Org. DE (R100)	Alba Flore (20270)	Not Delivered				
✓ 133875	Standard Order (OR)	Sales Org. DE (R100)	Alba Flore (20270)	Not Delivered				
✓ 133876	Standard Order (OR)	Dom. Sales Org DE (1010)	Space Applications Center (ZSPL3)	Not Delivered				
✓ 133877	Standard Order (OR)	Sales Org. DE (R100)	Alba Flore (20270)	Partially Delivered		30.085,94		EUR
✓ 133878	Standard Order (OR)	Sales Org. 0001 (0001)	Goedaboend (HM_CUS_NL1)	Fully Delivered		127,50		EUR
✓ 133862	Standard Order (OR)	Dom. Sales Org DE (1010)	STG-EKO LLC (ZSPL1)	Not Delivered		0,00		EUR
✓ 133863	Standard Order (OR)	Dom. Sales Org DE (1010)	STG-EKO LLC (ZSPL1)	Not Delivered		0,00		EUR
✓ 133864	Standard Order (OR)	Dom. Sales Org DE (1010)	STG-EKO LLC (ZSBL1)	Not Delivered		0,00		EUR

Change ▾ Check ▾ ⚙️ 📄 | ▾  
Change Header Data  
Change Header Partner  
Remove Header Partner  
Reject  
Set Billing Block  
Remove Billing Block  
Set Delivery Block  
Remove Delivery Block  
Update Prices



- Sales Order, Sales Quotations, Sales Contracts
- Sales Scheduling Agreements
- Sales Order without Charge
- Customer Returns
- Debit Memo Request
- Credit Memo Request
- Customer expected price

- Completed
- In process
- Failed
  - - Resolution option 1: Reschedule change job
  - - Resolution option 2: Manually set to be completed

PUBLIC

# SAP Fiori

## Manage duplicate sales documents



SAP Manage Duplicate Sales Documents

Standard

Duplicates by SD Document Category

Order	87
Returns	25
Credit Memo Re...	20

Duplicates by Sales Organization

Sales Org. 0001 ...	53
TM ERP Sales O...	53
Sales EMEA (SO...	16

Go Adapt Filters (1)

Duplicate Sales Documents (138)

Reject Duplicates Compare Duplicates

<input type="checkbox"/> Sales Document	Overall Status	Sold-to Party	Created On	Items	Created By	Net Value
Duplicate For: Credit Memo Request 60011507						
<input type="checkbox"/> 60011507	Open	BP for WDF27/28 - DO NOT TOUCH!!! sFIN Unit Testing - DO NOT TOUCH (WDF28-1)	10.05.2023	1	Kerstin Schlicker (SCHLICKER)	117.60 EUR
<input type="checkbox"/> 60011508	Completed	BP for WDF27/28 - DO NOT TOUCH!!! sFIN Unit Testing - DO NOT TOUCH (WDF28-1)	10.05.2023	1	Kerstin Schlicker (SCHLICKER)	117.60 EUR
Duplicate For: Credit Memo Request 60011512						
<input type="checkbox"/> 60011512	Open	CMH_OPBP01 (CMH_OPBP01)	19.05.2023	1	Puja Saraswat (SARASWATPU)	0.00 EUR
<input type="checkbox"/> 60011516	Open	CMH_OPBP01 (CMH_OPBP01)	19.05.2023	1	Puja Saraswat (SARASWATPU)	0.00 EUR
Duplicate For: Credit Memo Request 60011523						
<input type="checkbox"/> 60011523	Open	CMH_OPBP01 (CMH_OPBP01)	19.05.2023	1	Puja Saraswat (SARASWATPU)	0.00 EUR
<input type="checkbox"/> 60011525	Open	CMH_OPBP01 (CMH_OPBP01)	19.05.2023	1	Puja Saraswat (SARASWATPU)	0.00 EUR

Supported Sales Document types:

- Order
- Returns
- Quotations

[Link to documentation](#)

- An internal sales representative can search for duplicate sales documents to avoid having them being processed multiple times
- By rejecting duplicates, the internal sales representative can avoid for example, unnecessary returns, or causing a product to be out of stock unnecessarily
- Search duplicate sales orders according to various criteria, such as creation period, sales document, sales document category, sales organization, sold-to party, created by, and overall status



# SAP Fiori

## My Inbox - Flexible workflow for sales documents

- Provisioning of key sales data in the approval workflow allowing for quick decisions
- Easy navigation to the sales document from the approval workflow
- Revised process to rework approval requests for sales documents
- Receive workflow notifications during the approval workflow processing of sales documents
- Approval status visible in sales documents
- Follow-up processing, for example sub-sequent document creation, is prohibited as long as the document is in approval

Supported Sales Document types:

- Sales Order
- Credit/Debit Memo Request
- Sales Quotations
- Sales Contracts
- Customer Return
- Sales Prices/Price Changes

[Link to documentation](#)

The top screenshot displays the 'Release of Credit Memo Request' task in the SAP Fiori My Inbox. The task is titled 'Credit Memo Request 60038654' and has a status of 'Released'. The 'Net Value' is 159.11 EUR. The task is associated with the sales document 'Inlandskunde DE 3 (10100003)'. The bottom screenshot displays the 'Approve Sales Prices' task in the SAP Fiori My Inbox. The task is titled 'Approve Sales Prices in Request 0000122967' and has a status of 'Ready'. The task is associated with the sales document 'SAP\_WFRT'. The bottom screenshot also shows a list of other tasks in the 'My Inbox'.





# SAP Cloud ERP Private differentiators

**Joule**



[Fetch Sales Order Information](#)

[Create Sales Documents with Reference](#)

[Fetch Billing Document Information](#)

[Perform Mass Change of Sales Orders](#)

[Perform Release and Acceptance of Solution Quotations](#)

[Fetch Solution Quotation Information](#)

The image displays three overlapping screenshots of the SAP Fiori user interface, demonstrating the integration of the Joule AI assistant.

**Top Left Screenshot:** Shows the 'My Home' dashboard. The 'Pages' section includes tiles for 'My Business Role Assignment', 'Fiori Launchpad', and 'Sales Order Items Backorders'. The 'Insights (5)' section shows a 'Sales Order Items Backorders' card with a table of data: Delayed (No. Of) 23,68K, Partially Confirmed 8, and Unconfirmed (No...) 5,14K. The 'Apps' section shows 'Manage Sales Orders Version 2'.

**Top Right Screenshot:** Shows a Joule chat window. The user asks: 'provide me with a summary of sales order 27111'. The response states: 'Sales Order 27111 was created on July 19, 2024, by SANKANNAVAR for Company Domestic Customer US 3/70363-5455 Houma. The order is complete and fully delivered, although the billing is blocked due to incomplete pricing. The order consists of two items, both being 'Trad.Good 12,Reorder Point,Reg.Trad.' with a net amount of \$120 each. The items were shipped to 100 Boundary Rd, Houma, US. The customer payment terms are set to 'As of End of Month'.'

**Bottom Screenshot:** Shows a Joule chat window. The user asks: 'what is the document flow of sales order 27111'. The response lists the document flow: 1. Sales Order: 27111 (Order), 2. Delivery: 80006734 (Delivery), 3. WMS Transfer Order: 0180006734 (Delivery), 4. Goods Movement: 0280006734 (Delivery), 5. Invoice: 0290004313 (Invoice), 6. Journal Entry (Temporary): 9400000044 (Invoice). The bottom-right screenshot shows a Joule chat window. The user asks: 'Create a billing document for sales order 60005958'. The response states: 'Billing documents will be created for valid reference documents. Valid Reference Documents: Document 60005958, item 10 (Handelsware 11, PD, normaler Handel), will be created with billing date 15.01.2025.'



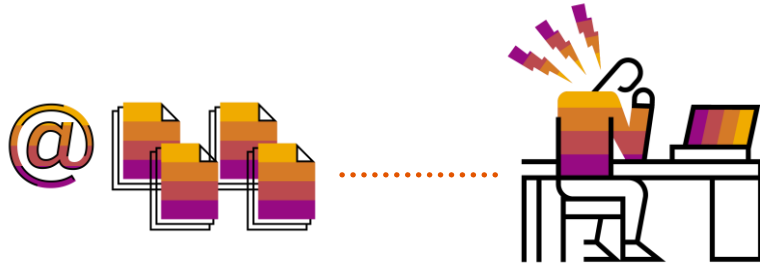
## SAP Cloud ERP Private differentiators

**SAP Business AI**



# Intelligent technologies

## Machine Learning: Create Sales Order from Unstructured Data

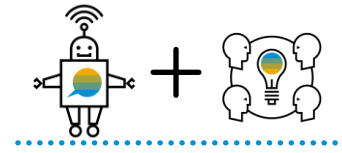


Receive customers' buying request via E-mail

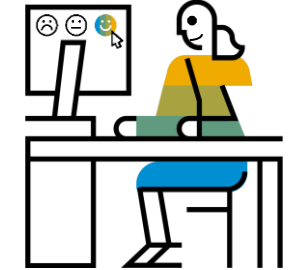
Process E-mail and Sales Order manually



Receive customers' buying request via Email



RPA Bot & Machine Learning



Verify Order Request & Confirm Order entry

### Manual and error-prone sales order creation process

- Sales offices receives customer's buying orders in PDF files as Email attachments
- Sales representative monitors Email inbox regularly, "translates" order data into sales order data format and enters sales orders
- **High manual repetitive effort, error-prone process**

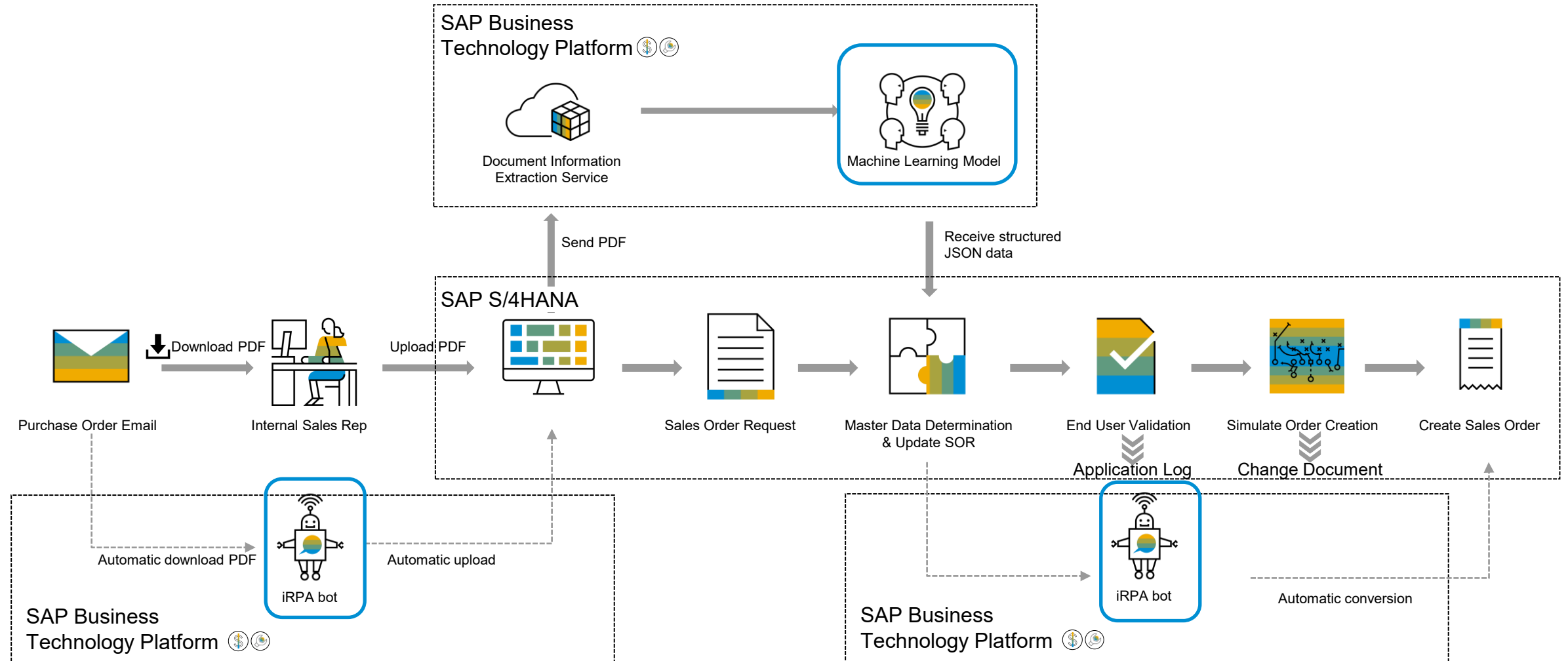
### Automated sales order creation process

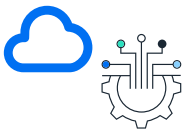
- SAP RPA bot regularly checks the dedicated Email inbox and uploads unread PDF (customer order) automatically into SAP S/4HANA
- SAP machine learning Document Information Extraction service extracts the sales order relevant data for SAP S/4HANA
- Within SAP S/4HANA a sales order request is automatically created
- In case of incompleteness or incorrect data SAP S/4HANA provides guided procedure for correction
- Sales rep. can verify order data, simulate order creation and confirm order creation
- **Improved sales productivity with process automation**



# Intelligent technologies

## Machine Learning: Create Sales Order from Unstructured Data – the Technical View



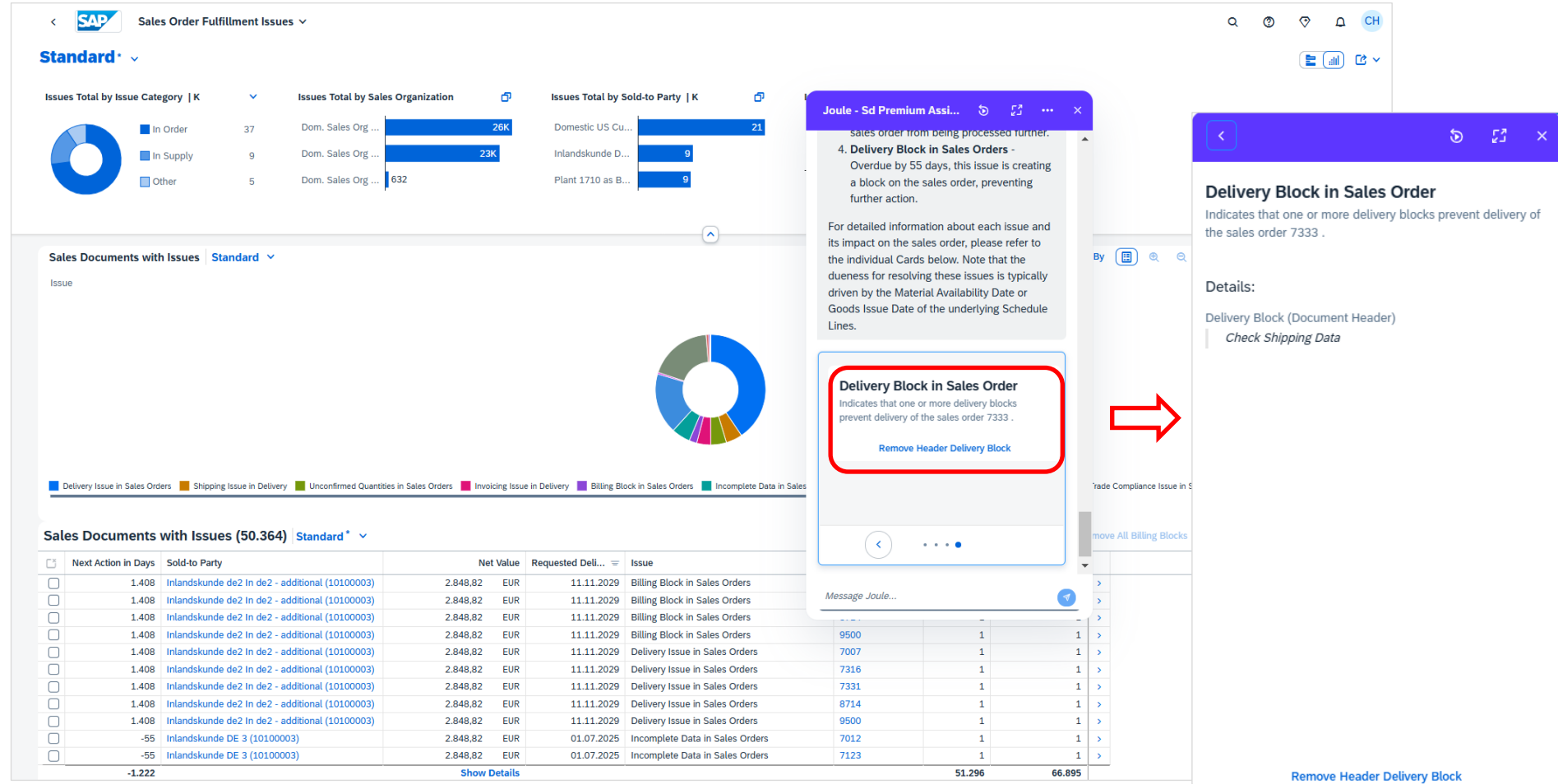


# Intelligent technologies

## Joule and Generative AI: Monitor, get explanations and resolve sales order fulfillment issues

- In addition to monitoring and resolving sales order fulfillment issues, Joule now also provides explanation for issues and blocks.
- Ask Joule about incomplete data, delivery block issue, credit block issue, billing block issue, delivery issue, and trade compliance issues
- Get a quick overview about the fulfillment status of a sales order
- Provide issue explanation and resolution based on real time fulfillment status by analyzing follow up documents

Discovery Center





# SAP Cloud ERP Private differentiators

**Situation Handling**



# Intelligent technologies

## Situation Management

Some examples:

## Sales Contract Fulfillment Alert

## Sales Quotation Is Close to Expiring

## Mass Change of Sales Docs: Jobs Complete

## Data Not Extracted for Order Creation

## Data Incomplete for Order Creation

## Billing Documents Not Posted

SAP

Sales Quotation

Q

Quotation 20000841

Related Apps

Situation

General Information

Items

Business Partners

Process Flow

This sales quotation is about to expire

2 hours ago

The validity of this sales quotation ends in 3 days, and 0% of its net value has been referenced by sales orders. Check if you need to take any follow-up actions.

Close Situation

Hide Details

General Information

Sales Area:

Dom. Sales Org US, Direct Sales, Product Division 00

Employee Responsible:

—

Customer Reference:

—

Customer Reference Date:

—

Created By:

VAMSI SIVA NAGA LAKSHMAN POLISETTI (CB9980003762)

Last Changed By:

VAMSI SIVA NAGA LAKSHMAN POLISETTI (CB9980003762)

Created On:

11/19/2025

Changed On/At:

11/19/2025, 07:05:12

Items (1)

Standard

Search

Item	Product	Order Quantity	Requested Delive...	Overall Status	Rejection Status	Net Value	Configuration	
10	Material 0011,PD,Regular Proc. (TG0011)	4	PC	11/18/2025	Open	Nothing Rejected	200,00 USD	

Business Partners

Domestic US Customer 1

Sold-to Party

Domestic US Customer 1

Bill-to Party

Domestic US Customer 1

Payer

Domestic US Customer 1

Ship-to Party

## Situation templates in Sales





# New Business Processes and Functionalities

## Business Area and Business Capability Overview



New business capabilities in SAP S/4HANA



# New Business Processes and Functionalities

## Sales Lead Management

- Accelerate the process between initial interest and a sale
- Automate the first step in the presales process
- Create leads manually or automatically
- Classify the leads
- Assign leads to a responsible party
- Use questionnaires and surveys to evaluate leads
- Define rules for document distribution
  - Qualification
  - Survey assignment
  - Deduplication
  - Creation via Workflow
  - Rule based distribution
  - Follow-up documents

**Lead: 557, srv04, Andersons and Sons**

Lead Details **Parties Involved** Notes Assessments Products Attachments Transaction History

ID	Name	Address	Check
332037	Mr. Bowen Zhang	45 45 Lispenard Street 7E / New York NY 1...	<input type="checkbox"/>
9980004970	Ms. Barbara Lee		<input checked="" type="checkbox"/>
WDF1_CTC_1	WDF1 Tester 1	TC Road 12 / Los Angeles CA 12345	<input type="checkbox"/>
WDF1_CTC_2	WDF1 Tester 2	TC Road 12 / Los Angeles CA 12345	<input type="checkbox"/>
9980011144	Ms. Barbara Lee		<input checked="" type="checkbox"/>
C0016	Andersons and Sons	TC Road 12 / Los Angeles CA 12345	<input checked="" type="checkbox"/>

> Notes

> Assessments

Actions	ID	Description	Version
	LEAD QUESTIONNAIRE	Testing	

[Link to documentation](#)



# New Business Processes and Functionalities

## Opportunity Management

- Opportunity: the sales prospect, its requested products or services, budget, potential sales volume, and estimated sales probability, which is defined over the course of the sales cycle and can be displayed and evaluated
- Start of sales cycle for a product or service – when an opportunity for sales is recognized
- End of sales cycle – when a sales order is received or a rejection comes from the customer
- Some of the things you can do in opportunity management:
  - Create a sales methodology to suit your sales processes
  - Map sales cycles and stages
  - Classify your opportunities
  - Create opportunity hierarchies
  - Use sales methodology tools to help your sales employees

Select Transaction Type

Select Transaction Type

Search

Transaction Type	Transaction Type Description
OPPT	Opportunity Default
OPSM	Sales Methodology

Close

SAP Search: Opportunities

Opportunity Default: 82, Quotation Opp, ste...

New Edit Delete Copy Create Follow-Up Trigger Output

Opportunity Details Items Contacts Competitors Sales Team Planned Activities Completed Activities Transaction History Attachments Notes Sales Stage History

Search

Actions	Function	Name	Phone	Extension	E-Mail	Position	Personnel No.
	Sales Representative	Ms. Ann Anderson					511
	Employee Responsible	Ms. Ann Anderson					511

> Planned Activities

> Completed Activities

> Transaction History

Search

Actions	Transaction	Transaction Type	Date
	20001501	Customer Quotation	28.02.2019

[Link to documentation](#)



# New Business Processes and Functionalities

## Activity Management

- Create activities such as interaction logs or appointments to document interactions with customers
- Create tasks to manage workloads
- View appointments and activities in the calendar
- Access the fact sheet for valuable information about accounts
- Monitor activities using the worklist and search facilities

The screenshot shows the SAP Activity Management interface for a specific task. The header includes the SAP logo, a search bar with 'Search: Activities', and a dropdown menu set to 'All'. The task title is 'Task: C65\_VK001\_Create Product Presentati...'. Below the title are tabs for 'Task Details', 'Attachments', 'Transaction History', 'Scheduled Actions', 'Questionnaires', and 'Reference Objects'. The 'Task Details' tab is active, showing a 'Show More' button. Below this are sections for 'Attachments', 'Transaction History', 'Scheduled Actions', 'Questionnaires', and 'Reference Objects'. The 'Transaction History' section is expanded, displaying a table with columns for 'Actions', 'Transaction', 'Transaction Type', and 'Date'. A search bar and 'Subsequent Assignment' link are also visible in this section.

Actions	Transaction	Transaction Type	Date
	C65_VK001_Visit according to campaign	Appointment	28.02.2019

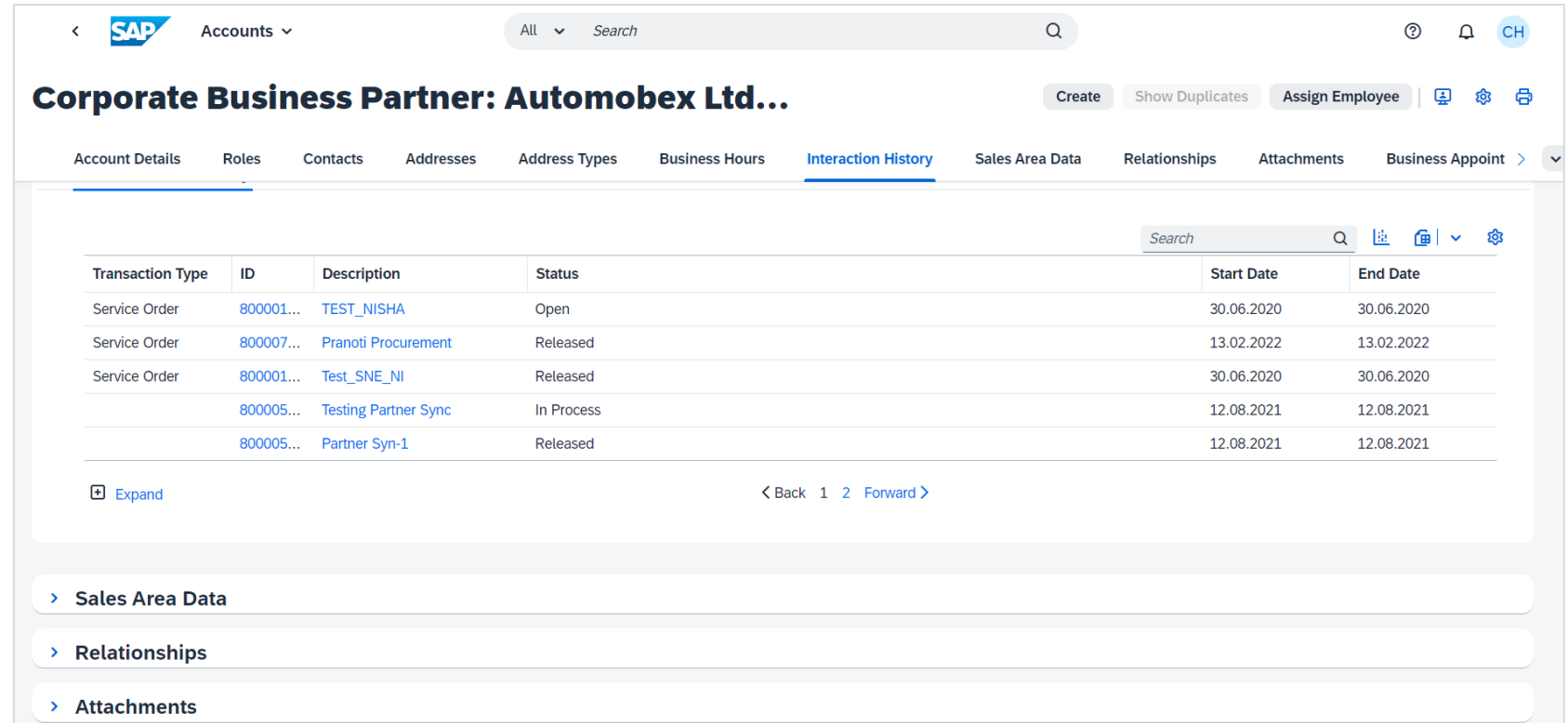
[Link to documentation](#)



# New Business Processes and Functionalities

## Account and Contract Management

- Search and display accounts, contacts, employees
- Create and maintain account and contact data
- Classify account and maintain account life-cycle
- View all relevant information at a glance
- Use the PDF account fact sheet to distribute relevant information



The screenshot displays the SAP S/4HANA interface for managing a Corporate Business Partner, specifically 'Automobex Ltd...'. The top navigation bar includes the SAP logo, 'Accounts' dropdown, a search bar, and user information (CH). The main header shows the partner name and action buttons: 'Create', 'Show Duplicates', and 'Assign Employee'. Below this is a tabbed interface with options: 'Account Details', 'Roles', 'Contacts', 'Addresses', 'Address Types', 'Business Hours', 'Interaction History' (selected), 'Sales Area Data', 'Relationships', 'Attachments', and 'Business Appoint'. The 'Interaction History' tab contains a table with the following data:

Transaction Type	ID	Description	Status	Start Date	End Date
Service Order	800001...	TEST_NISHA	Open	30.06.2020	30.06.2020
Service Order	800007...	Pranoti Procurement	Released	13.02.2022	13.02.2022
Service Order	800001...	Test_SNE_NI	Released	30.06.2020	30.06.2020
	800005...	Testing Partner Sync	In Process	12.08.2021	12.08.2021
	800005...	Partner Syn-1	Released	12.08.2021	12.08.2021

Below the table, there is an 'Expand' button and a pagination control showing '< Back 1 2 Forward >'. At the bottom, there are three expandable sections: 'Sales Area Data', 'Relationships', and 'Attachments'.

[Link to documentation](#)



# New Business Processes and Functionalities

## Sales Quotation Management

### Creation and editing of sales quotations with the SAP Fiori app “Manage Sales Quotations”

Create and edit sales quotations quickly and intuitively with the new SAP Fiori app, which enables:

- Efficient creation of sales quotations, with immediate determination of pricing
- Ability to adopt the UI to company best practices using key-user adaptation; for instance, show, hide, or rearrange standard and extension fields
- Embedded analytics with context-based navigation
- Quick actions accelerating users' work
- Mass data entry through XLS cut and paste capabilities

### Manage duplicate quotations

- Display of two sales documents on one screen through the SAP Fiori user experience
- Comparison of potential duplicate sales documents detected in the Manage Duplicate Sales Documents app

The screenshot displays the SAP Fiori app interface for 'Manage Sales Quotations - Version 2'. The app shows a list of sales quotations with columns for Sales Quot., Sold-to Party, Customer Reference, Valid From, Valid To, Overall Status, Net Value, and Document... The list includes various quotations from HyperCom Inc. (MY) and Domestic Customer US 3 (17100003), with statuses ranging from Open to Completed.

Sales Quot. iF	Sold-to Party	Customer Reference	Valid From	Valid To	Overall Status	Net Value	Document... iF
20001712	HyperCom Inc. (MY) (S54100252)	PUT20220810095833	08/10/2022	09/15/2022	Open	100,00 MYR	08/10/2022
20001711	HyperCom Inc. (MY) (S54100252)	PUT20220810095819	08/10/2022		Open	789,80 MYR	08/10/2022
20001710	HyperCom Inc. (MY) (S54100252)	PUT20220810095740	08/10/2022	09/17/2022	Open	100,00 MYR	08/10/2022
20001709	HyperCom Inc. (MY) (S54100252)	PUT20220810095653	08/10/2022	09/15/2022	Completed	100,00 MYR	08/10/2022
20001708	HyperCom Inc. (MY) (S54100252)	PUT20220810095425	08/10/2022	09/15/2022	Completed	100,00 MYR	08/10/2022
20001707	HyperCom Inc. (MY) (S54100252)	PUT	08/10/2022	09/15/2022	Completed	0,00 MYR	08/10/2022
20001706	HyperCom Inc. (MY) (S54100252)	PUT20220810094534	08/10/2022	09/20/2022	Open	150,00 MYR	08/10/2022
20001705	Domestic Customer US 3 (17100003)		08/08/2022	09/08/2022	Open	17,55 USD	08/08/2022
20001704	Inlandskunde DE 3 (10100003)		08/08/2022	09/08/2022	Open	17,55 EUR	08/08/2022
20001703	Domestic Customer US 3 (17100003)		08/08/2022	09/08/2022	Open	17,55 USD	08/08/2022
20001702	Inlandskunde DE 3 (10100003)		08/08/2022	09/08/2022	Open	17,55 EUR	08/08/2022
20001701	Domestic Customer US 3 (17100003)		08/07/2022	09/07/2022	Open	17,55 USD	08/07/2022
20001700	Inlandskunde DE 3 (10100003)		08/07/2022	09/07/2022	Open	17,55 EUR	08/07/2022
20001699	Domestic Customer US 3 (17100003)		08/07/2022	09/07/2022	Open	17,55 USD	08/07/2022
20001698	Inlandskunde DE 3 (10100003)		08/07/2022	09/07/2022	Open	17,55 EUR	08/07/2022
20001697	Domestic Customer US 3 (17100003)		08/06/2022	09/06/2022	Open	17,55 USD	08/06/2022
20001696	Inlandskunde DE 3 (10100003)		08/06/2022	09/06/2022	Open	17,55 EUR	08/06/2022
20001695	Domestic Customer US 3 (17100003)		08/06/2022	09/06/2022	Open	17,55 USD	08/06/2022
20001694	Inlandskunde DE 3 (10100003)		08/06/2022	09/06/2022	Open	17,55 EUR	08/06/2022
20001693	BP Multi Addresses DE 01 (S10103280)	PUT	08/05/2022	09/10/2022	Open	10,00 EUR	08/05/2022
20001692	HyperCom Inc. (MY) (S54100252)	PUT20220805091316	08/05/2022	09/10/2022	Completed	0,00 MYR	08/05/2022
20001691	HyperCom Inc. (MY) (S54100252)	PUT20220805091227	08/05/2022	09/12/2022	Open	100,00 MYR	08/05/2022
20001690	HyperCom Inc. (MY) (S54100252)	PUT20220805091151	08/05/2022		Open	789,80 MYR	08/05/2022



# New Business Processes and Functionalities

## Solution Billing

Solution billing capability enables an omnichannel approach, creating one single invoice combining billable items from different channels (e.g. internal and external) and billing categories (e.g. one-time billing, recurring billing, and usage-based billing).



Delivery



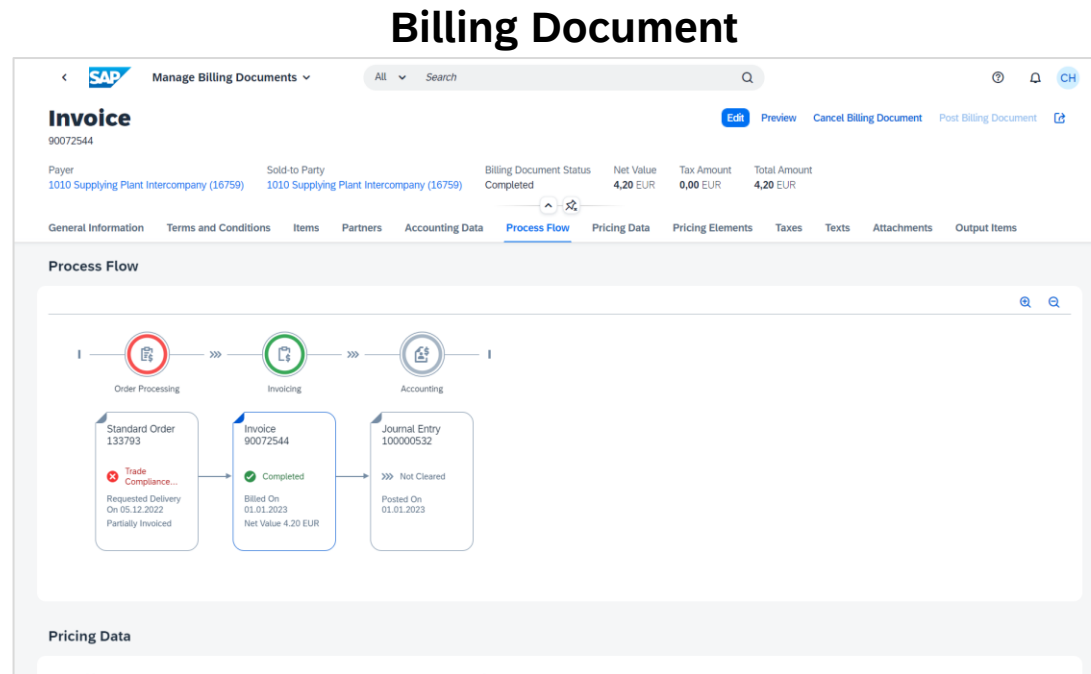
Debit Memo Request



External Billing Request



Sales order



## One single Invoice



SAP Business Technology Platform

[Link to documentation](#)



# New Business Processes and Functionalities

## Sales Rebates

### Condition Contracts

- In Settlement Management, a condition contract combines all information relevant to an agreement for conditions requiring subsequent settlement, the conditions for calculating the settlement amount and for posting accruals, and a settlement calendar for scheduling partial and final settlements or for delta accruals postings
- Create condition contracts to enter rebate agreements with rebate conditions and other contractual data
- Monitor the business volume related to condition contracts
- Post accruals with transactional documents or for a delta accruals settlement in an aggregated way

[Link to documentation](#)

The screenshot displays the SAP 'Manage Condition Contracts - Sales Rebates' interface. The top section shows search filters for Condition Contract, Contract Type (5 Items), Customer, External Identifier, Valid From, and Valid To. Below this is a table of Condition Contracts (28) with columns for Condition Contr..., Contract Type, Customer, External Identifier, Valid From, Valid To, and Activation Status. Two contracts are visible: 233 and 231, both for 'Sales Rebate - Multiple Customers (0S02)' with a validity period from 23.05.2023 to 25.05.2023 and an 'Inactive' status.

The bottom section shows a detailed view of a 'Condition Contract' for 'CCM Customer Multiple Adresses 3 (CCMCUSTMA3)'. It displays the 'Current Contract Value' as 40,00 EUR and 'Open Accruals Amount' as 0,00 EUR. The 'Activation Status' is 'Active', 'Settlement Lock Status' is 'Not Locked', and the 'Status' is 'Released'. The 'Document Flow' tab is selected, showing a flow from the 'Condition Contract' (Document 166, Condition 0SG1) to a 'Sales Rebate Goods...' document (Document 1051, Actual Settlement Date 08.10.2021, Settlement Doc. 0SA2, Type A - Accounting Documents Exist).





# New Business Processes and Functionalities

## Sales Rebates

### Settlement Calendar for Condition Contracts

- Perform partial settlements and a final settlement automatically based on a settlement calendar and pay out rebates to customers in time to increase satisfaction
- Track transactional documents processed in settlement runs to fulfill auditing requirements
- View the settlement calendar of the selected condition contracts

SAP Display Settlement Dates

Standard

Search Condition Contract: Settlement Date: Settlement Date Type: Supplier: Customer: Sales Organization: Purchasing Organization: Settlement Status: Scheduling Worklist ID:

Go Adapt Filters (1)

All Contracts Customer Contracts Supplier Contracts

Settlement Dates (20)

Condition Contract	Settlement Date	IF	Settlement Date Type	Customer	Sales Organization	Settlement Status	Scheduling Worklist ID
147	11.10.2021		Partial Settlement	CCM Customer Multiple Adresses 4 (CCMCUSTMA4)	0001 (Sales Org. 0001)	Action Needed	
144	08.10.2021		Partial Settlement	ATP_Cust02 (ATP_CUST02)	0001 (Sales Org. 0001)	Action Needed	
145	08.10.2021		Partial Settlement	CCM Customer Multiple Adresses 1 (CCMCUSTMA1)	0001 (Sales Org. 0001)	Action Needed	
146	08.10.2021		Partial Settlement	CCM Customer Multiple Adresses 3 (CCMCUSTMA3)	0001 (Sales Org. 0001)	Action Needed	
148	08.10.2021		Partial Settlement	CCM Customer Multiple Adresses 5 (CCMCUSTMA5)	0001 (Sales Org. 0001)	Action Needed	
161	08.10.2021		Partial Settlement	CCM Customer Multiple Adresses 4 (CCMCUSTMA4)	0001 (Sales Org. 0001)	Action Needed	
162	08.10.2021		Partial Settlement	CCM Customer Multiple Adresses 4 (CCMCUSTMA4)	0001 (Sales Org. 0001)	Action Needed	
166	08.10.2021		Partial Settlement	CCM Customer Multiple Adresses 3 (CCMCUSTMA3)	0001 (Sales Org. 0001)	Action Needed	



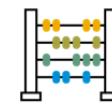
Condition Contract



Sales Transactions



Monitor Business Volume



Post Accruals



Perform Settlement



Track Transactions in Settlement

[Link to documentation](#)



# New Business Processes and Functionalities

## Solution Portfolio Management

- Business solution portfolios bundle service contract items, service order items, sales order items, and subscription contract items that are related to a solution and its customer.
- One single view for all aspects of a customer's solutions
- Automatic creation of a business solution portfolio by reference ID from solution quotations
- Support of the object types "service contract", "subscription contract", "service order," and "sales order"
- Ability to add or remove objects in an existing business solution portfolio

The screenshot displays the SAP 'Manage Business Solution Portfolio' interface. On the left, a list of 'Business Solution Portfolios (50)' is shown, with 'Test\_BSP\_620' selected. The main panel provides a detailed view of 'Test\_BSP\_620' (ID: 1000000039), including its external reference (Test\_BSP\_789), sold-to party (Andersons and Sons (C0016)), and leading currency (USD). A 'Total Net Value by Transaction Type' bar chart shows 51.8% for Service Contracts and 47.6% for Service Orders. Below this, a table lists the portfolio's components:

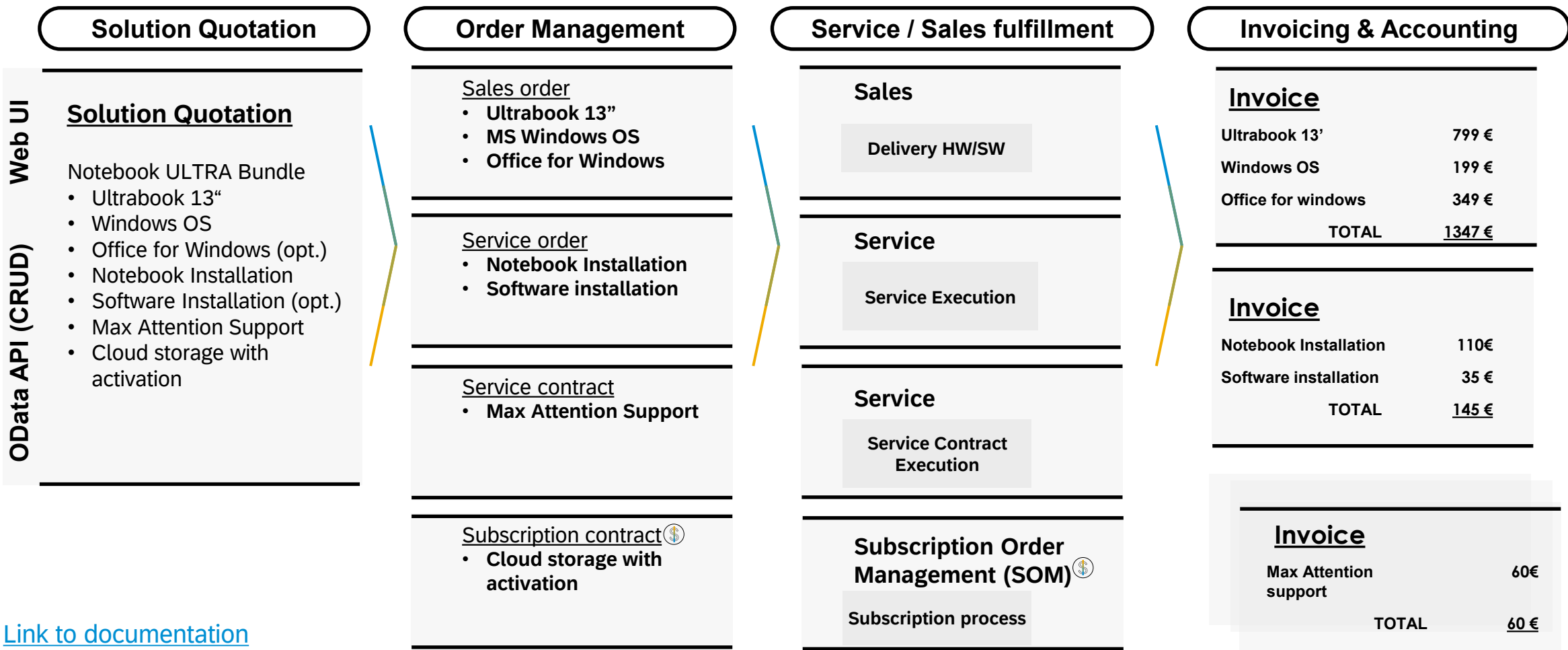
Transaction Type	Description	Item No.
Service Contract	Tax Dest Ctr CN Tag - UPD3 Product: Item 100 (SRV_01) Quantity: 1,000 HR	100
Service Contract	Tax Dest Ctr CN Tag - UPD3 Product: Item 200 (SRV_01) Quantity: 1,000 HR	200
Service Contract	CTU4 Automation By PTF Product: Service Product (SRV_01)	100

[Link to documentation](#)



# New Business Processes and Functionalities

## Solution Quotation Management





- Offer solutions by creating quotations for combinations of different types of products (such as tangible products, services, service contract items and sales contract items). These combinations of products can be modeled as product bundles in master data.
- Create solution quotation with sales item, service order item, service contract item, subscription items, and product bundles containing a combination of these items
- Automatically create respective follow-on documents to complete the end-to-end process
- Accept a solution quotation partially if at least one item in the quotation is in released status

[Link to documentation](#)



# New Business Processes and Functionalities

## Solution Quotation Management

### Support of multilevel configuration in solution quotation management

- Support of multilevel configuration for subscription and physical products
- Ability to configure multilevel advanced variant configuration (AVC) products using the UI

Enable customers to gain flexibility and transparency using the following in solution quotation management:

- Offer configurable multilevel subscription products with increased efficiency and accuracy and predetermined rules
- Improve customer satisfaction with increased customization options

[Link to documentation](#)

SAP Service Quotation

**Solution Quotation: 8000481338, mkl**

Create Edit Copy Create Follow-Up Send To Customer Accept Actions Simulate Credit Check

Quotation Details **Items** Notes Payment Method Transaction History Additional External Reference

Show: All Items

Actions	Item No.	Higher-Level Item	Product ID	Bundle Structure	Quantity	Unit	Product	Item Category
...	10		SOM_MSU_PVT_CLOUD_INFRA	SOM_MSU_PVT_CLOUD_INFRA	1	EA	Multi level Cloud Infrastructure	Sub.It.Qt. multi AVC
	20	10	SOM_IOF_ACTIVATION		1	AUJ	Subscription Activation Fee	Subscription One Off
	30	10	SOM_SCR_WL_CONTAINER		1	EA	Workload - Container	SubsitmOut multi AVC

> Notes

> Payment Method

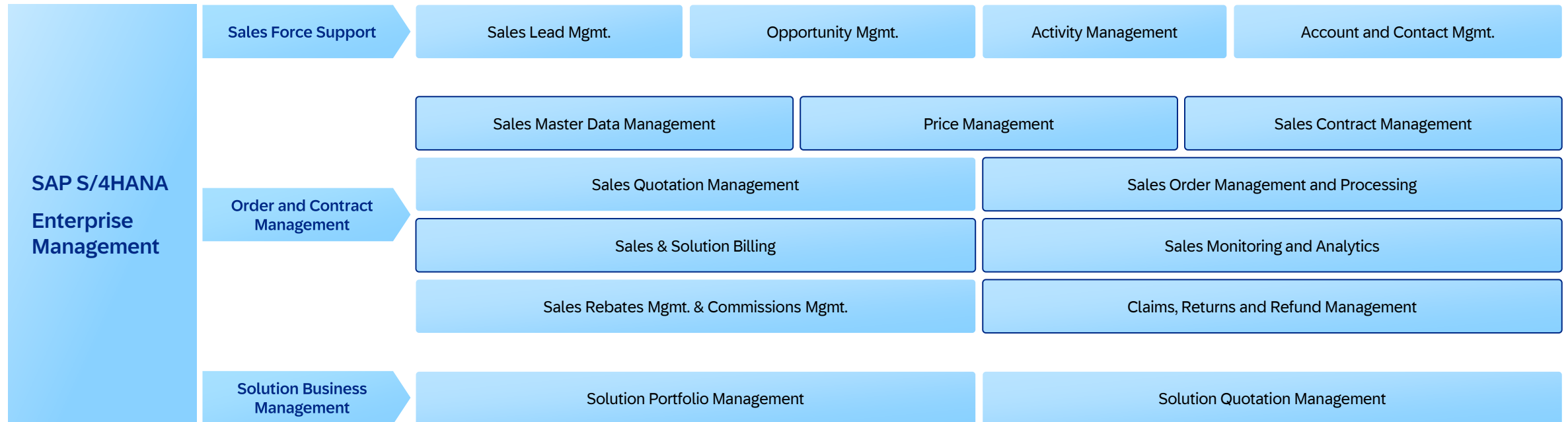
> Transaction History

Actions	Transaction	Transaction Type	Date
	mkl	Subscription Contract Document	15.08.2023



# Updated Business Processes

## Business Area and Business Capability Overview



Updated business capabilities in SAP S/4HANA



# Updated Business Processes and Functionalities

## Master Data Management

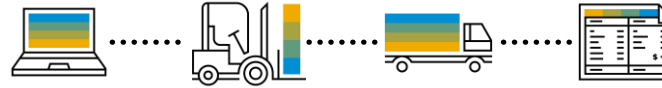
### Business Partner Management and multiple addresses adoption in Order-to-Invoice Process

In SAP ERP, Customer and Vendor master data is maintained independently

In SAP S/4HANA Business Partner (BP) is the leading object and Customer & Vendor are the respective roles of the Business Partner

- Enablement of the Business Partner multiple addresses in order-to-invoice process
  - Sales documents (e.g. sales orders)
  - Outbound deliveries
  - Billing documents
- [Multiple Address Handling for Customer Master Data in SAP Business Partner](#)
- [Multiple Address Handling for Business Partners in Sales and Distribution](#)

[Link to documentation](#)



Business Partner: S10103280 BP Multi Addresses DE 01 / 68309 Mannheim

\*Display in BP role:

Address	Address Overview	Identification	Control	Payment Transactions	Sta
Address Overview					
Cou...	Address Description	Valid From	Valid To		
<input type="radio"/> DE	Am Aubuckel 6 / 68309 Mannheim	08/11/2021	12/31/9999		
<input type="radio"/> DE	Friedenplatz 7 / 20456 Hamburg	08/11/2021	12/31/9999		
<input type="radio"/> DE	Brühlische Gasse 5 / 01067 Dresden	08/11/2021	12/31/9999		
<input type="radio"/> DE	Ottostr. 4 / 80333 München	08/11/2021	12/31/9999		
<input type="radio"/> DE	Postplatz 3 / 20456 Hamburg	08/11/2021	12/31/9999		
<input type="radio"/> DE	Bahnhofstr. 2 / 10178 Berlin	08/11/2021	12/31/9999		
<input type="radio"/> DE	Hauptstr. 1 / 69619 Walldorf	08/11/2021	12/31/9999		
<div> <input type="button" value="Move"/> <input type="button" value="Print Preview"/> <input type="button" value="Change History"/> </div>					
Address Usages					
<div> <input checked="" type="checkbox"/> Standard Address           <div> <input type="checkbox"/> 08/11/2021-12/31/9999 Am Aubuckel 6 / 68309 Mannheim           </div> </div>					
<div> <input checked="" type="checkbox"/> Billing Address           <div> <input type="checkbox"/> 08/11/2021-12/31/9999 Ottostr. 4 / 80333 München Standard           </div> </div>					
<div> <input checked="" type="checkbox"/> 08/11/2021-12/31/9999 Bahnhofstr. 2 / 10178 Berlin           </div>					
<div> <input checked="" type="checkbox"/> 08/11/2021-12/31/9999 Am Aubuckel 6 / 68309 Mannheim           </div>					
<div> <input checked="" type="checkbox"/> Supplier Return-To Address           <div> <input type="checkbox"/> 08/20/2021-12/31/9999 Ottostr. 4 / 80333 München Standard           </div> </div>					
<div> <input checked="" type="checkbox"/> Delivery Address           <div> <input type="checkbox"/> 08/11/2021-12/31/9999 Bahnhofstr. 2 / 10178 Berlin Standard           </div> </div>					
<div> <input type="checkbox"/> 08/11/2021-12/31/9999 Postplatz 3 / 20456 Hamburg           </div>					
<div> <input type="checkbox"/> 08/11/2021-12/31/9999 Am Aubuckel 6 / 68309 Mannheim           </div>					



# Updated Business Processes and Functionalities

## Price Management

### Uploading of prices using template-based spreadsheets

Use of the Manage Prices – Sales app to:

- Select a specific template for the combination of price-relevant attributes
- Download the template to a spreadsheet
- Specify values in the spreadsheet for amount, currency, price unit, and unit of measurement for price-relevant fields and validity dates
- Create or change condition records by uploading the spreadsheet

The screenshot displays the SAP Manage Prices - Sales app interface. At the top, there's a search bar and navigation icons. Below, the 'Standard' filter is active. The interface shows various filter fields: Editing Status (All), Filter Method (Filter with Applicable Crit...), Condition Type (Customer Discou...), Key Combination, Valid On (dd.MM.yyyy), Condition Record No., and Approval Request ID. Below these are Release Status, Customer, Sales Organization, and Distribution Channel. A 'Go' button and 'Adapt Filters (3)' link are also present.

The main section displays 'Condition Records (13)' in a table. The table has columns: Condition Type, Condition ..., Customer, Sales Organization, Distribution Channel, Valid From, Valid To, Condition Amount or Ratio, and Pricing Unit. The data rows show various condition records for different customers and sales organizations.

Below the table, there's a spreadsheet template for uploading data. The template has columns A through I. The first row is a 'Condition Key' header. The second row is a 'Condition Type' header. The third row is a 'Condition Table' header. The fourth row is an 'Access' header. The fifth row is a 'Sales Organization' header. The sixth row is a 'Distribution Channel' header. The seventh row is a 'Product' header. The eighth row is a 'Release Status' header. The ninth row is a 'Customer' header. The tenth row is a 'Condition Record No.' header. The eleventh row is a 'Sequence' header. The spreadsheet shows data for various condition types, condition tables, and access values.

[Link to documentation](#)





# Updated Business Processes and Functionalities

## Price Management

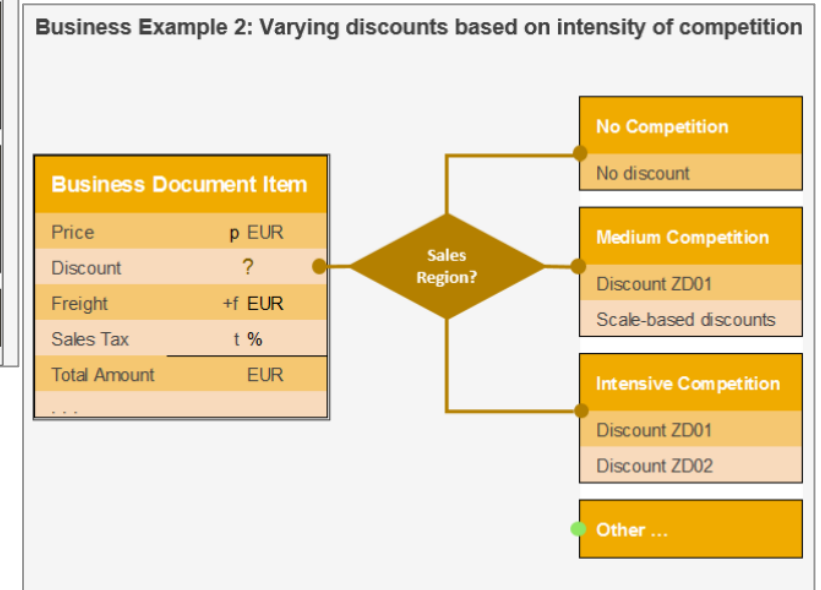
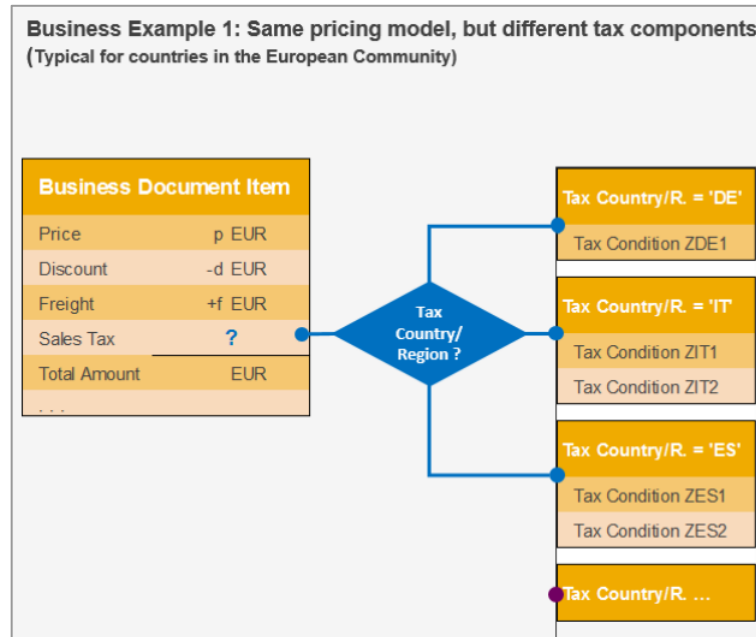
### Pricing procedure configuration to handle international sales transactions and tax requirements

Carve out into separate sub pricing procedures:

- Country-dependent pricing conditions (such as tax conditions)
- Recurring parts of pricing procedures (for example, for freights, discounts, and surcharges)

Dynamically include additional condition types of the sub pricing procedure:

- Basing it on the configured formula for sub procedure determination
- During the pricing process in a business document





# Updated Business Processes and Functionalities

## Price Management

### Configure role-based access to price and cost details in sales documents


Configure which user roles can access which price and cost details of a pricing procedure in the following SD documents:

- Sales order
- Credit memo request
- Debit memo request
- Customer return
- Billing process documents

Restrict access to sensitive price and cost information in the following SD documents:

- Sales order
- Credit memo request
- Debit memo request
- Customer return
- Billing process documents

### Configuration




Access Levels for Price Elements		
Access Level	Description	
1000	Level 1 - Low Sensitivity	
8000	Level 8 - High Sensitivity	

Pricing Procedure			
Description	Cond.	Type	Access Level
Price	ZPR0		1000
Discount	ZD01		1000
Freight	ZF01		1000
Net Value			1000
Sales Tax	ZTX1		1000
Total Value			1000
Internal Cost	ZPIP		8000
Margin			8000
...			

Example: Role based access to price elements

### Different Access to Price Elements of a Sales Order




**Michael**  
Logistics Expert

Valid Access Rules:

- ✓ Display discounts
- ✓ No access to internal costs and profit margin

Read Access  
1000

No Write Access




**Clara**  
Internal Sales Representative

Valid Access Rules:

- ✓ Display discounts
- ✓ Display internal costs and profit margin

Read Access  
1000-8000

No Write Access



**Nasreen**  
Sales Manager

Valid Access Rules:

- ✓ Change discounts
- ✓ Display internal costs and profit margin

Read Access  
1000-8000

Write Access  
1000

Sales Order Item			
Price	ZPR0	101.50	EUR
Discount	ZD01	-5.00	EUR
Freight	ZF01	+3.50	EUR
Net Value		100.00	EUR
Sales Tax	ZTX1	19 %	
Total Value		119.00	EUR
...			

Sales Order Item			
Price	ZPR0	101.50	EUR
Discount	ZD01	-5.00	EUR
Freight	ZF01	+3.50	EUR
Net Value		100.00	EUR
Sales Tax	ZTX1	19 %	
Total Value		119.00	EUR
Internal Cost	ZPIP	73.87	EUR
Margin		26.13	EUR
...			

Sales Order Item			
Price	ZPR0	101.50	EUR
Discount	ZD01	-6.00	EUR
Freight	ZF01	+4.50	EUR
Net Value		100.00	EUR
Sales Tax	ZTX1	19 %	
Total Value		119.00	EUR
Internal Cost	ZPIP	73.87	EUR
Margin		26.13	EUR
...			



# Updated Business Processes and Functionalities

## Price Management

### Use of prices in the Manage Prices – Sales app that are specific to the product hierarchy level

The Manage Prices - Sales app now supports product hierarchies to flexibly create prices that are offered in the form of condition records as the pricing master data. This enhancement allows for more organized and efficient pricing management by grouping materials based on various characteristics.

- spreadsheet export and import through the SAP OData Provisioning service
- Replicate prices through Simple Object Access Protocol (SOAP)
- Make prices part of a multilevel approval workflow
- In the standard system, the product hierarchy includes three levels
- If more than three levels are needed, the product hierarchy can have up to nine levels with 18 characters. Product hierarchy nodes can be defined at each level. For more information, see SAP Note [1070939](#)

**Manage Prices - Sales**

**Standard**

Editing Status: All Filter Method: Filter with Applicable... Condition type: Product Hi... Key Combination: Valid On: Condition Record No.: Approval Request ID:

Material Price Grp: Sales Organization: Distribution Channel: Product: Main group: Group: Subgroup:

Go Adapt Filters

Condition Records (1)	Edit	Create	Copy	Request Approval	Delete	Import	Export	Download Template	View Import History
<input type="checkbox"/> Sales Organization									
<input type="checkbox"/> Dom. Sales Org DE (1010)									

**Manage Prices - Sales**

**Condition Record**

0000017608

General Information Details Scales Additional Data

Valid From: 17.02.2025 Valid To: 31.12.9999

Distribution Channel: Direct Sales (10) Sales Organization: Dom. Sales Org DE (1010) Product: Trad.Good 11,PD,Reg.Trading (TG11\_PRODH) Material Price Grp: -

Main group: Apparel (A) Group: Men's Clothing (MEN) Subgroup: Casual Wear (CSW)

Condition Description: -

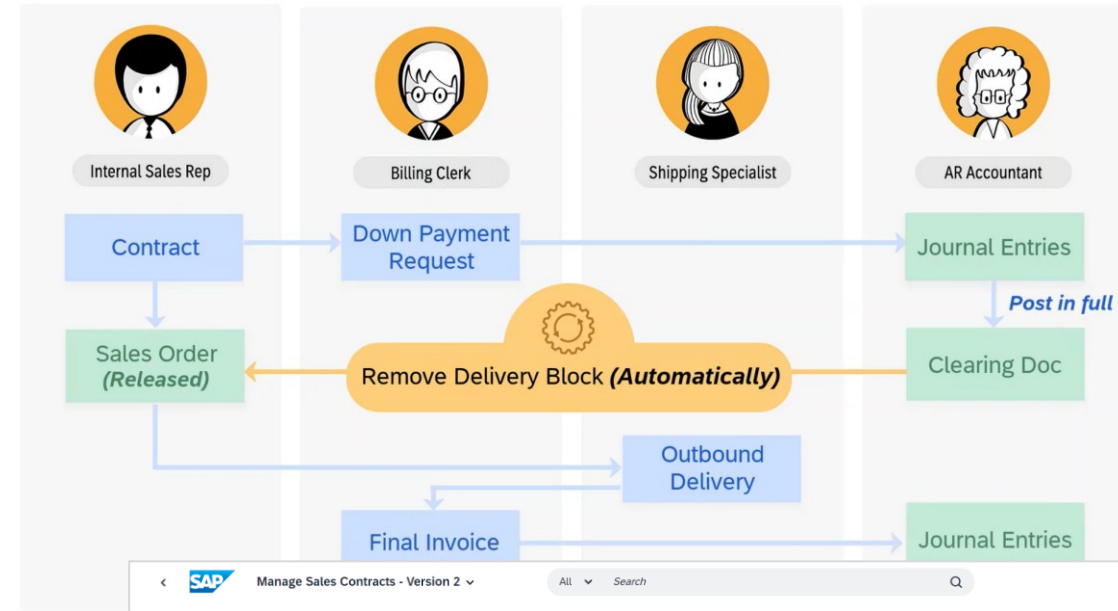


# Updated Business Processes and Functionalities

## Sales Contract Management

### Enable down payment processing for sales quantity contracts using billing plans

- Create a sales contract with a down payment agreement using the milestone billing plan
- Create a contract-release order with reference to the sales contract with a delivery block on the schedule line level
- After the down payment request has been cleared, automatically remove the delivery block in the contract release order
- Create a delivery-related billing document with the cleared down payment items through the contract release order with reference to the sales contract



SAP Manage Sales Contracts - Version 2

Standard

Search

Sales Contract: Sold-to Party: Overall Status: Customer Reference: Valid To: Document Date:

Approval Status: Down Payment Status: (Missing Payment) x

Go Adapt Filters (1)

Sales Co...	IF	Sold-to Par	Down Payment Status	Valid From	Valid To	Overall Status	Approval Status
40007091	BP_CUST1	BP_CUST1	Partially Paid (Missing Payment) (B)	23.04.2019	30.04.2019	Open	Not Relevant
40007088	BP_CUST1	BP_CUST1	Partially Paid (Missing Amount) (C)	23.04.2019	30.04.2019	Open	Not Relevant
40002385	BP_CUST1	BP_CUST1	Fully Paid (D)	11.04.2019	30.04.2019	Completed	Not Relevant
40007075	BP_CUST1 (BP_CUST1)	BP_CUST1 (BP_CUST1)	Partially Paid (Missing Amount)	26.03.2019	25.04.2019	In Process	Not Relevant
40007074	BP_CUST1 (BP_CUST1)	BP_CUST1 (BP_CUST1)	Partially Paid (Missing Amount)	26.03.2019	25.04.2019	In Process	Not Relevant

[Link to documentation](#)

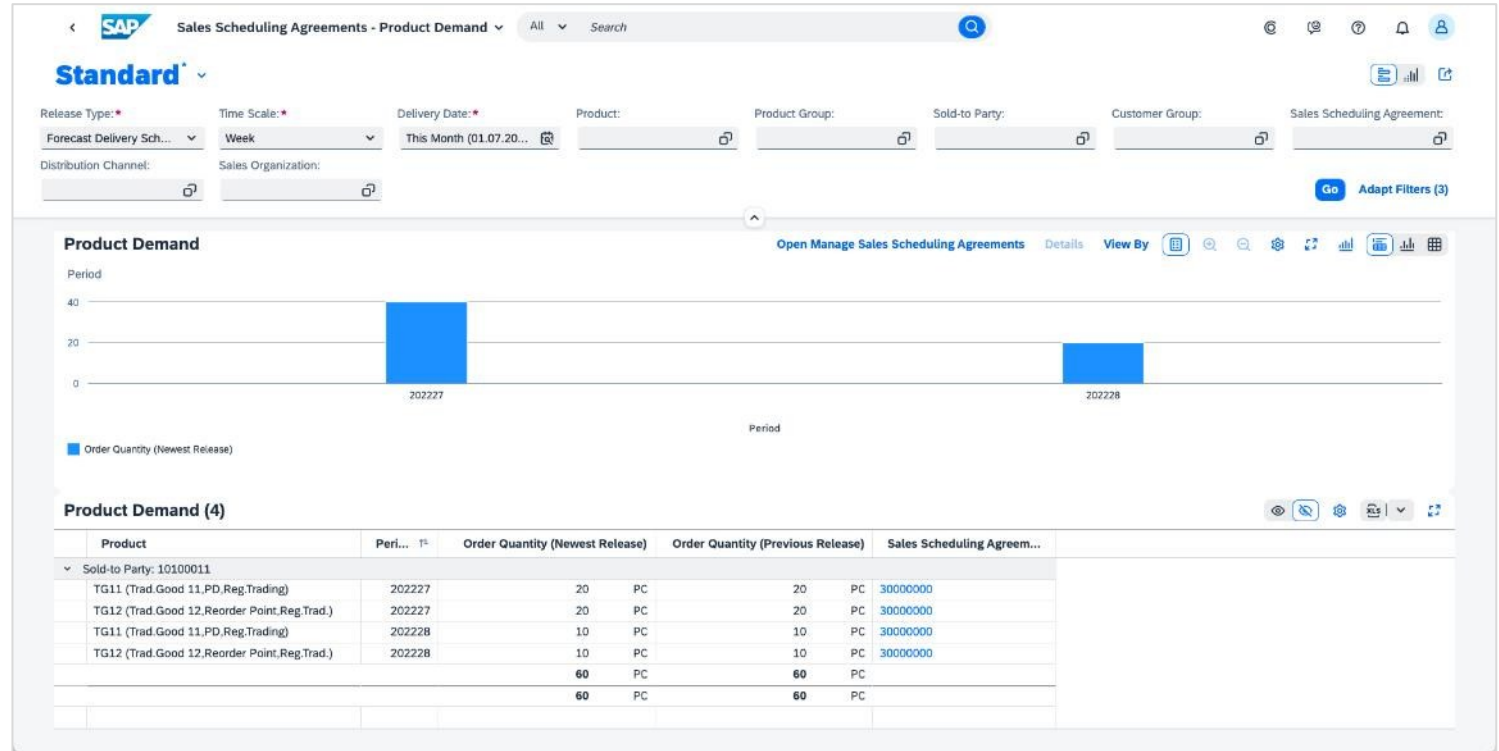


# Updated Business Processes and Functionalities

## Sales Contract Management

### Sales scheduling agreements – product demand: preview of delivery schedules

- Enable preview of previous release (delivery schedule) order quantity
- Enable navigation to the Manage Sales Scheduling Agreements app
- Enable preview of Sales Scheduling Agreements in the list page and navigation to Delivery Schedule - Demand Deviation



[Link to documentation](#)



# Updated Business Processes and Functionalities

## Sales Order Management and Processing

### Track Sales Orders

- Internal sales representatives can monitor the fulfillment status of sales orders across the entire process chain of the order-to-cash process, enabling them to respond to customers and internal partners
- Insight to action – resolve issues instantly by drilling down
- Communicate with customers, collaborate with the team
- Navigate to sales order details to visualize the sales order fulfillment status and its subsequent documents

The screenshot displays the SAP Track Sales Orders interface. At the top, there's a search bar and filters for 'Standard' and '5 Items'. Below this is a table of sales documents with columns for Sales Document, Overall Fulfillment, Order Processing, Supply Processing, Delivery Processing, Process Phase, Requested Delivery Date, and Net Value. The table lists several sales documents, with some showing fulfillment issues (red X) and others showing successful completion (green checkmark).

On the right, a detailed view for 'Fulfillment Standard Order 135056' is shown. It includes a 'Process Flow' diagram illustrating the order-to-cash process. The flow starts with 'Order Processing' (Completed), followed by 'Supply Processing' (In Process), 'Intercompany Processing' (Open), 'Delivery Processing' (Shipped), and 'Transportation' (Planned Invoice). A 'Planned Invoice' is shown with a red X, indicating an 'Invoicing Issue'.

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Sales Order Management and Processing

### Detection of expiring payment-card authorizations and an option to reauthorize the sales orders

- List sales orders with payment card authorizations that are about to expire or have already expired
- Select one or more sales orders and trigger reauthorization of the payment cards

SAP Resolve Payment Card Issues - ... My Favorites Search In: "My Favorites"

Standard\* No filters active

Sales Orders (204) Reauthorize

Sales Order	Sold-to Party	Customer Reference	Overall Status	Authorization D...	Expiration ...	Outbound Delivery
<input type="checkbox"/> 18280	Inlandskunde DE 2 (10100002)	r	Completed	2023/07/06	✓ 2023/08/04	80036167
<input type="checkbox"/> 18543	Inlandskunde DE 2 (10100002)	TS Paypal - PC 2	Completed	2023/07/06	✓ 2023/08/04	80036167
<input type="checkbox"/> 18545	Inlandskunde DE 2 (10100002)	TS Paypal - PC 2	Completed	2023/07/06	✓ 2023/08/04	80007845
<input type="checkbox"/> 18545	Inlandskunde DE 2 (10100002)	TS Paypal - PC 2	Completed	2023/07/06	✓ 2023/08/04	80007846
<input type="checkbox"/> 18545	Inlandskunde DE 2 (10100002)	TS Paypal - PC 2	Completed	2023/07/06	✓ 2023/08/04	80036167
<input type="checkbox"/> 20100	Inlandskunde DE 2 (10100002)	fc	Completed	2023/07/06	✓ 2023/08/04	80036167
<input type="checkbox"/> 119604	Connection Test Digital Payments CC3/715 <-> DPCEDEL/DEV-TEST (DP_TEST)	123	In Process	2023/07/06	✓ 2023/08/04	
<input type="checkbox"/> 78820	Domestic CustomerUS99 (1087149)	1233	Completed	2023/06/07	✗ 2023/07/06	80033239
<input checked="" type="checkbox"/> 58560	Domestic US Customer 101 (17100010)	AfterPay SO Integr. Test 675	Completed	2023/05/15	✗ 2023/07/05	80031589
<input checked="" type="checkbox"/> 58603	Domestic US Customer 101 (17100010)	AfterPay SO Integr. Test 895	Completed	2023/05/15	✗ 2023/07/05	80031590
<input checked="" type="checkbox"/> 58605	Domestic US Customer 101 (17100010)					
<input type="checkbox"/> 58608	Domestic US Customer 1 (17100001)					
<input type="checkbox"/> 58653	Domestic US Customer 1 (17100001)					
<input type="checkbox"/> 76879	Inlandskunde DE 2 (10100002)					
<input type="checkbox"/> 56800	Domestic US Customer 1 (17100001)					
<input type="checkbox"/> 56804	Domestic US Customer 1 (17100001)					
<input type="checkbox"/> 59942	TronicTrade Inc. (US) (S10100197)	DigPay	Completed	2023/05/19	✗ 2023/06/17	80023796

Messages

- ✓ Reauthorization has been triggered for order 58560.
- ✓ Reauthorization has been triggered for order 58603.
- ✓ Reauthorization has been triggered for order 58605.

[Link to documentation](#)





# Updated Business Processes and Functionalities

## Sales Order Management and Processing

### Receive intelligent product and quantity proposals when creating sales orders

- Receive product and quantity recommendations based on historical data, while considering product listings and exclusions for the product proposals
- Fine-tune the provided proposals based on additional criteria such as customer or sales document type (for example, standard order)
- Enable external consumers to use the provided API to call the intelligent product proposal function

**SAP** Create Standard Order: Overview

Menu Services for Object

Standard Order:  Net Value: 0.00 EUR

Sold-to Party: 10100001 Company Inlandskunde DE 1, street, 12345 Walldorf, Germany

Ship-to Party: 10100001 Company Inlandskunde DE 1, street, 12345 Walldorf, Germany

Cust. Reference:  Cust. Ref. Date:

**Sales** Item Overview Item Detail Ordering Party Procurement Shipping Configuration Reason for Rejection

\* Req. Deliv.Date: D 15.02.2023 Deliver.Plant:

Complete Dlv.: ☐ Total Weight: 0.000

Delivery Block:  Volume: 0.000

Billing Block:  Pricing Date: 02.03.2023

Pyt Terms: 0004 As of End of Month

Inco. Version:

Incoterms: EXW

Inco. Location1: Walldorf

Group

**All Items (Active product proposal)**

	Item	Material	Order Quantity	Un	S	Item Description	Customer Material Number	ItCa	HL Itm
<input type="checkbox"/>		TG11	<input type="text"/>	PC	<input type="checkbox"/>	Handelsware 11, PD, normaler Ha...			0
<input type="checkbox"/>		TG12		KG	<input type="checkbox"/>	HAWA 12, Bestellpunkt, normaler ...			0
<input type="checkbox"/>		TG13		PC	<input type="checkbox"/>	Handelsware 13, Bestellpunkt, Str...	ROUNDING		0

**Copy Product Proposal Quantity**

**Save** **Cancel**

[Link to documentation](#)





# Updated Business Processes and Functionalities

## Sales Order Management and Processing

### Available-to-promise (ATP) provides hybrid sourcing results

- Advanced available-to-promise returns a hybrid sourcing result on sales order item and subitems:
  - Source from internal (plants) and from external (supplier) locations, allowing for the optimal balance to be fulfilled for the customer in time and in full
  - Generate subitems for the third-party order processing, in which the third-party supplier ship to your plants or subsidiaries.
  - Combine items for standard order processing and third-party order processing to fulfill specific requirements.
- Enable a direct shipment from the supplier to the customer to bridge missing availability of parts that are not included in the customers' own stock

The screenshot displays the SAP Sales Order 79073 interface. The top section shows the order header with fields for Partners, Status, Net Sales Volume (YTD), and Net Value. The 'Partners' section lists 'Sold-to Party: Test ATP\_CUST' and 'Ship-to Party: Test ATP\_CUST'. The 'Status' section shows 'Overall Status: Open', 'Overall Block Status: Not Blocked', and 'Incompletion Status: Complete'. The 'Net Sales Volume (YTD)' is 0,00 EUR, and the 'Net Value' is 9.100,00 EUR.

The 'Items' tab is selected, showing a table of Sales Order Items (8). The table has columns for Item, Higher-Level I..., Product, Requested Quantity, Confirmed Quantity, Item Category, Requested Deliver..., Confirmed Deliver..., and Availability. The items are listed as follows:

Item	Higher-Level I...	Product	Requested Quantity	Confirmed Quantity	Item Category	Requested Deliver...	Confirmed Deliver...	Availability
10		ATP - TPOP direct ship material 2 ...	100 EA	100 EA	Standard Sourcing (TAPA)	14.08.2024	23.08.2024	Confirmed Later
20	10	ATP - TPOP direct ship material 2 ...	50 EA	50 EA	Standard Item (TAN)	14.08.2024	20.08.2024	Confirmed Later
30	10	ATP - TPOP direct ship material 2 ...	10 EA	10 EA	Standard Item (TAN)	14.08.2024	20.08.2024	Confirmed Later
40	10	ATP - TPOP direct ship material 2 ...	40 EA	40 EA	Third Party Item (TAS)	14.08.2024	23.08.2024	Confirmed Later
50		ATP - TPOP "bought-in" material 3...	90 EA	90 EA	Standard Sourcing (TAPA)	14.08.2024	23.08.2024	Confirmed Later
60	50	ATP - TPOP "bought-in" material 3...	50 EA	50 EA	Standard Item (TAN)	14.08.2024	20.08.2024	Confirmed Later
70	50	ATP - TPOP "bought-in" material 3...	10 EA	10 EA	Standard Item (TAN)	14.08.2024	20.08.2024	Confirmed Later
80	50	ATP - TPOP "bought-in" material 3...	30 EA	30 EA	Indiv.Purchase Order (TAB)	14.08.2024	23.08.2024	Confirmed Later

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Sales Order Management and Processing

**Flexible numbering of sales, delivery and billing documents, with configurable parameters and formulas**

- Enable the various different sales and logistics documents types, excluding accelerated returns (ARM) orders, to invoke CPF to flexibly identify the wanted internal number range based on context of the document header
- Allow customers to use internal number range intervals with alphanumerical prefixes

The first screenshot shows the 'Change View "CPF Parameter Catalog": Overview' screen. It features a 'Usage' field set to 'S01' and a table of parameters. The table has columns for 'Parameter Name', 'Description (short)', 'Parameter Description', 'Referenced Data Type', and 'Data Cat.'. The parameters listed are COMPANYCODE, DISTRIBUTIONCHANNEL, ORGANIZATIONDIVISION, SALESDOCUMENTTYPE, SALESGROUP, SALESOFFICE, SALESORDERREASON, SALESORGANIZATION, and SDDOCUMENTCATEGORY.

Parameter Name	Description (short)	Parameter Description	Referenced Data Type	Data Cat.
COMPANYCODE	CoCode	Company Code	BUKRS	Data Element
DISTRIBUTIONCHANNEL	Distr. Chl	Distribution Channel	VTWEG	Data Element
ORGANIZATIONDIVISION	Division	Division	SPART	Data Element
SALESDOCUMENTTYPE	SalesDocTy	Sales Document Type	AUART	Data Element
SALESGROUP	Sales Grp	Sales Group	VKGRP	Data Element
SALESOFFICE	Sales Off.	Sales Office	VKBUR	Data Element
SALESORDERREASON	Ord.Reason	Order Reason	AUGRU	Data Element
SALESORGANIZATION	S			
SDDOCUMENTCATEGORY	D			

The second screenshot shows the 'Change View "Define Decision Table": Overview' screen. It also has a 'Usage' field set to 'S01'. Below it, the 'Formula ID' is 'DOCNUM\_BY\_COMPANY' and the 'Usage Task' is 'SET\_NUMBER\_RANGE'. A 'Dialog Structure' sidebar on the left lists 'Define Formulas', 'Assign Formula Parameters', 'Formula Tasks', 'Assign Parameter Priority', and 'Define Decision Table'. The main area displays a table for defining the decision table logic.

Operator	Company Code	Number Range Interval	Number Range Prefix

[Link to documentation](#)




# Updated Business Processes and Functionalities

## Sales Order Management and Processing

### One-step payment: supporting the sales process with payment before the sales order is created

- Enable payment to happen before the sales order is created, for example, in a web shop and provide payment details during the creation of the sales order through an API
- Carry over liability and payment details from the sales application to the finance application
- Match the liability against the payment in the finance application
- Provide refunds through manual creation of credit memo requests and credit memos
- Reduce your financing cost or increase liquidity by shortening days sales outstanding (DSO)
- Simplify the settlement process for customers
- Extend your business to customers who prefer to pay for goods in advance
- Accelerate incoming digital payments by enabling customers to pay their liabilities before the goods are shipped

Order Number	757906
Date	Nov 15, 2024
Customer Number	1035165
Our tax Number	DESAPPUSH01

Scan QR code to pay or  
[Click here](#)

Currency EUR

<b>Conditions:</b>	
Terms of payment	Up to 15.11.2024 without deduction
Inco. Version	
Inco. Location1	Cost and Freight
Terms of delivery	CFR

<b>Weights - Volume:</b>	
Net weight:	5 KG
Gross weight:	6.25 KG

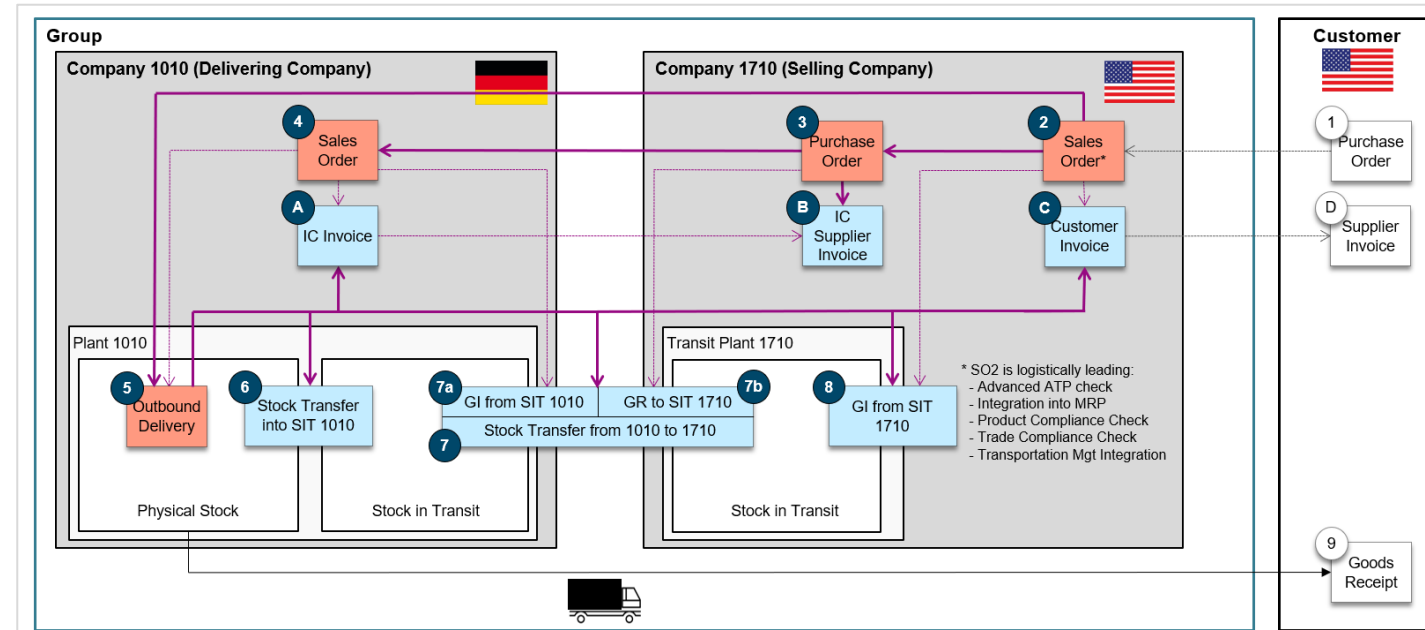


# Updated Business Processes and Functionalities

## Sales Order Management and Processing

### Advanced Intercompany Sales

- Intercompany sales process:
- Receipt of a purchase order from an external customer by a sales organization assigned to a selling company
- Subsequent creation of a sales order for goods from a plant assigned to another company code, which acts as the delivering company
- Advanced intercompany sales process:
- Automatic creation of an intercompany purchase order in the selling company that, in turn, triggers the creation of an intercompany sales order in the delivering company
- Availability of all required business documents in both affiliates, documenting the process flow in an auditable fashion and providing the basis for consistent reporting on both sides
- Delivery of goods to the customer by the delivering company, which invoices the selling company
- Invoicing of the customer by the selling company
- Integration of the entire process into the value chain monitoring framework (VCM)
- For the transfer of control of goods between the affiliated companies and to the customer, system use of valuated stock in transit (VSIT)



[Advanced Intercompany Sales in SAP S/4HANA OP/Private Cloud](#)  
[Customer Community Call](#)

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Sales Order Management and Processing

### Advanced Intercompany Sales

- **Highly automated end to end process** – fully integrated with:
  - Available-to-Promise check (ATP)
  - Material Resource Planning (MRP)
  - Product Compliance
  - Trade Compliance
  - Transportation Management
  - Support of IFRS 15 compliant for revenue recognition and Cost Of Goods Sold (COGS)
  - Product Costing
  - Profitability reporting across legal entities
  - Group Reporting / Consolidation
- **End to end value chain and process monitor**
  - Ensures process transparency with the ability of issue detection and document posting monitoring
- **Change** in customer-facing sales order is allowed, all follow-up documents will be **automatically updated**
- **Valuated Stock in Transit** in the Selling Company manages
  - Seamless change of control between affiliates and customer
  - Related material document posting automatically
- **Purchase Order** in the Selling Company enabling landed cost in product costing for the selling company

The screenshot displays the SAP Monitor Value Chains interface. On the left, a Sales Order (133528) is shown with a 'Processed with Errors' status. A message indicates: 'There are 1 message(s) for the business process. For details, open link.' Below this, a list of documents is shown, including Sales Order, Outbound Delivery, and Purchase Order, with their respective processing stages and statuses.

On the right, a 'Pending Document' (Purchase Order) is shown with a 'Document Processing Stage: Error' and 'Process Step: IC Purchase Order (POIC)' status. A message indicates: 'There are 1 message(s) for the business process. For details, open link.' Below this, a 'Message Log' table is displayed with 5 messages.

Type	Text	Date/Time
Error	An exception was raised	21.11.2022, 05:30:14
Warning	Can delivery date be met?	21.11.2022, 05:30:14
Error	Intercompany Sales requires condition for supplier DIC2 material VCM_SA_002 unit EA	21.11.2022, 05:30:14
Error	Error when creating purchase order for sales order 0000133528.	21.11.2022, 05:30:14
Error	Error when synchronizing sales item 0000133528 000010 with purchase order	21.11.2022, 05:30:14

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Sales Order Management and Processing

---

### **Sell-from-stock process with valuated stock in transit (VSiT)**

Using sell-from-stock with valuated stock in transit (VSIT) process, you can:

- Use VSiT in the sell-from-stock process to enable a more precise valuation of the stock currently owned by your company than the standard sell-from-stock process can provide
- Define the conditions under which the system uses valuated stock in transit as part of a sell-from-stock process by:
  - Setting values for a given set of business attributes (sales organization, incoterms, plant) of sales document items as criteria
  - Using these criteria to decide whether a given sales document item is relevant for the sell from stock with valuated stock in transit (SFS w. VSiT) process
- Embed (VSiT) in the existing sell from stock process
- Reuse existing sales document types, item categories, and schedule line categories
- Enable goods-issue transfer processes:
  - Transfer the goods to VSiT of the delivering company through goods issue for outbound delivery
  - Transfer control to the customer, issuing the goods to the customer
- Execute goods issue automatically from VSiT to customer based on the newly introduced "transfer of control dates"
- Execute the sell-from-stock process with VSiT based on the process context, such as incoterms

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Sales Billing

**External billing document requests allow to persist billing data from external systems in SAP S/4HANA**

- Appear in the billing due list alongside other SD documents
- Can be billed standalone or combined with internal billing data
- Create external billing document requests via
  - SOAP API
  - Excel upload

SAP Manage Billing Document Requests

Standard

Search

Billing Document Request: Source Document: Sold-to Party: Status: Billing Date: BDR Type:

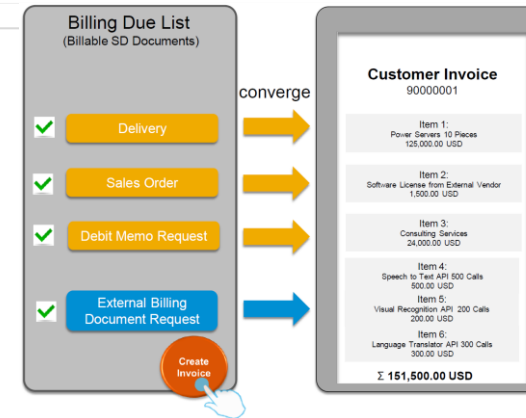
Source Doc. Category: Source System:

(External Transa... X)

Go Adapt Filters (1)

Billing Document Requests (106)

Billing Document ...	Source Document	Sold-to Party	Status	Billing Date	Net Value	BDR Type	Source System
<input type="checkbox"/> 195000103	1708310902	Store for External Billing (ZAT_CUST01)	To Be Invoiced	05.06.2023	64,00 USD	Ext. Billing Doc. Request (BDR1)	QKV910
<input type="checkbox"/> 195000102	1708310901	Store for External Billing (ZAT_CUST01)	Invoiced	05.06.2023	64,00 USD	Ext. Billing Doc. Request (BDR1)	QKV910
<input type="checkbox"/> 195000101	605201018	Store for External Billing (ZAT_CUST01)	Invoiced	05.06.2023	96,00 USD	Ext. Billing Doc. Request (BDR1)	API_TEST
<input type="checkbox"/> 195000100	601011029	Store for External Billing (ZAT_CUST01)	Invoiced	02.06.2023	96,00 USD	Ext. Billing Doc. Request (BDR1)	API_TEST
<input type="checkbox"/> 195000099	1117075142	CUST_0001 (CUST_0001)	To Be Invoiced	17.11.2022	0,00 EUR	Ext. Billing Doc. Request (BDR1)	API_TEST
<input type="checkbox"/> 195000098	1117075141	CUST_0001 (CUST_0001)	To Be Invoiced	17.11.2022	0,00 EUR	Ext. Billing Doc. Request (BDR1)	API_TEST
<input type="checkbox"/> 195000097	1117075137	CUST_0001 (CUST_0001)	To Be Invoiced	17.11.2022	0,00 EUR	Ext. Billing Doc. Request (BDR1)	API_TEST
<input type="checkbox"/> 195000096	1117075136	CUST_0001 (CUST_0001)	To Be Invoiced	17.11.2022	0,00 EUR	Ext. Billing Doc. Request (BDR1)	API_TEST
<input type="checkbox"/> 195000095	1117075132	CUST_0001 (CUST_0001)	To Be Invoiced	17.11.2022	0,00 EUR	Ext. Billing Doc. Request (BDR1)	API_TEST
<input type="checkbox"/> 195000094				11.2022	0,00 EUR	Ext. Billing Doc. Request (BDR1)	API_TEST



[Link to documentation](#)



# Updated Business Processes and Functionalities

## Sales Billing

### Preventing creation of blocked credit or debit memos after trade compliance check

- When a source document item of an order-related billing, debit memo request, or credit memo request item is blocked by SAP Global Trade Services (SAP GTS) during trade compliance check, the creation of the corresponding credit or debit memo item is suppressed, and a message is raised.
- Once the document is released in SAP GTS, the invoices can be processed as usual.

The screenshot shows the SAP 'Change Credit Memo Req WDF2 60027675: Overview' screen. The document is partially blocked. A pop-up window titled 'SAP GTS compliance check results for blocked documents' displays the following data:

Item	Embargo Check	Screening Status	Legal Control	Blocking Reason LC
10	Released	Released	Blocked	License

The screenshot shows the SAP 'Create Billing Documents' screen. A message pop-up is displayed with the following text:

Document 60027675, Item 10: Item is blocked by Legal Control (SAP GTS)





# Updated Business Processes and Functionalities

## Sales Billing

### Preliminary billing documents

Provide preliminary billing documents, which are the basis for repeated negotiations with customers regarding billing document details:

- Create preliminary billing documents based on items in the "billing due" list (sales orders and deliveries, for example) by changing prices, attachments, or texts
- Display a print preview of the preliminary billing document
- Create and post the final billing document
- Output preliminary billing documents the same way as final billing documents (print and e-mail, for example)
- Workflow
- New Fiori app for scheduling the conversion of preliminary billing documents to billing documents
- The conversion of preliminary billing documents to billing documents can be executed in the background on a regular basis (e.g., periodic nightly runs)

SAP Manage Preliminary Billing Documents

Standard

Preliminary Billing Documents (123)

Preliminary Billing ...	Billing Type	Sold-to Party	Status	Billing Date	Net Value
<input type="checkbox"/> PBD0000129	Invoice (F2)	Andersons and Sons (C0016)	Completed	17.12.2023	1,680.00 USD
<input type="checkbox"/> PBD0000128	Invoice (F2)	Andersons and Sons (C0016)	In Progress	01.08.2023	0.67 USD
<input type="checkbox"/> PBD0000150	Invoice (F2)	Test Credit Management 1 (1011712)	In Progress	06.12.2022	11,000.00 EUR
<input type="checkbox"/> PBD0000099	Invoice (F2)	Andersons and Sons (C0016)	Completed	13.05.2022	199.00 USD
<input type="checkbox"/> PBD0000098	Invoice (F2)	Andersons and Sons (C0016)	Completed	12.05.2022	199.00 USD
<input type="checkbox"/> PBD0000090	Invoice (F2)	Andersons and Sons (C0016)	Completed	12.05.2022	199.00 USD
<input type="checkbox"/> PBD0000097	Invoice (F2)	Andersons and Sons (C0016)	Completed	11.05.2022	199.00 USD
<input type="checkbox"/> PBD0000094	Invoice (F2)	Andersons and Sons (C0016)	Completed	11.05.2022	199.00 USD
<input type="checkbox"/> PBD0000093	Invoice (F2)	Andersons and Sons (C0016)	Completed	11.05.2022	199.00 USD
<input type="checkbox"/> PBD0000096	Invoice (F2)	Andersons and Sons (C0016)	Completed	10.05.2022	199.00 USD
<input type="checkbox"/> PBD0000092	Invoice (F2)	Andersons and Sons (C0016)	Completed	10.05.2022	199.00 USD
<input type="checkbox"/> PBD0000091	Invoice (F2)	Andersons and Sons (C0016)	Completed	10.05.2022	199.00 USD
<input type="checkbox"/> PBD0000088	Invoice (F2)	Andersons and Sons (C0016)	Completed	10.05.2022	199.00 USD
<input type="checkbox"/> PBD0000087	Invoice (F2)	Andersons and Sons (C0016)	Completed	10.05.2022	199.00 USD
<input type="checkbox"/> PBD0000086	Invoice (F2)	Andersons and Sons (C0016)	Completed	10.05.2022	199.00 USD
<input type="checkbox"/> PBD0000082	Invoice (F2)	Andersons and Sons (C0016)	Completed	10.05.2022	199.00 USD

SAP Preliminary Billing Document

Invoice PBD0000129

General Information Items Business Partners

Bill-to Party: Andersons and Sons (C0016)

Sold-to Party: Andersons and Sons (C0016)

Company Code: SAP SE (0001)

Sales Organization: Sales America (5002)

Billing Date: 17.12.2023

Terms of Payment: 14 days 3%, 20/2%, 30 net

Incoterms: Costs, insurance & freight (CIF)

Incoterms Location 1: CIF

Incoterms Location 2: --

Issue Type: --

Reference: PBD0000129

Tax Amount: 0.00 USD

Net Value: 1,680.00 USD

Items

Standard

Prelim. Billing ...	Product	Billing Quantity	Net Value	Tax Amount
1	Service Product (SRV_01)	1,000 HR	1,680.00 USD	0.00 USD

Business Partners

[Link to documentation](#)



# Updated Business Processes and Functionalities

## Claims, Returns and Refund Management

### Integration of customer returns and in-house repairs

Triggering of an in-house repair from a customer return order:

- Create an in-house repair as a follow-up document in the return order and in the material inspection
- After repair processing is complete, trigger the outbound delivery to send the repair object back to the customer

Triggering of a customer return order from an in-house repair:

- Create customer return orders as follow-up documents from the in-house repair
- Allow creation and management of repair quotations while the customer return order is in process
- Continue with the in-house repair upon completion of the customer return order

SAP Display: Material Inspection in Warehouse for Delivery 84000106

Menu Refresh Restart Document Creation

Processing Status: ■ Process Complete

Logistical Status: Complete

Refunding Status: Complete

Splits Exist: No

Delivery: 84000106 10

Ship-To Party: 10100003 Inlandskunde DE 3

Receiving Plant: 1010 Plant 1 DE

Goods Receipt Date: 21.07.2022

Returns Steps	Processing Status	Plant	Receiving Plant	Next Plants	Document Number	It...	Document Status	Approval Status
<input type="checkbox"/> Customer return received directly	<span style="color: green;">■</span>	1010						
<input type="checkbox"/> Returns Order	<span style="color: green;">■</span>	1010			60001720	10	Active	Not Relevant
<input checked="" type="checkbox"/> Returns Delivery	<span style="color: green;">■</span>	1010			84000106	10	Active	Not Relevant
<input type="checkbox"/> Goods Receipt	<span style="color: green;">■</span>	1010			4900011522	1	Active	Not Relevant
<input type="checkbox"/> Inspection	<span style="color: green;">■</span>	1010			500000000218	1	Active	Not Relevant
<input type="checkbox"/> Logistical Follow-Up	<span style="color: green;">■</span>	1010			500000000218	1	Active	Not Relevant
<input type="checkbox"/> Credit Memo Request	<span style="color: red;">▲</span>	1010			60001721	10	Document was Rejected	Not Relevant
<input type="checkbox"/> Transfer to In-House Repair (Service)	<span style="color: green;">■</span>	1010						
<input checked="" type="checkbox"/> In-House Repair (Service)	<span style="color: green;">■</span>	1010			1000000137	10	Active	Not Relevant
<input type="checkbox"/> Goods Movement for In-House Repair (S)	<span style="color: green;">■</span>	1010			4900011531	1	Active	Not Relevant



# Updated Business Processes and Functionalities

## Claims, Returns and Refund Management

**Retroactive Creation of a Returns Purchase Order from an Order Confirmation**

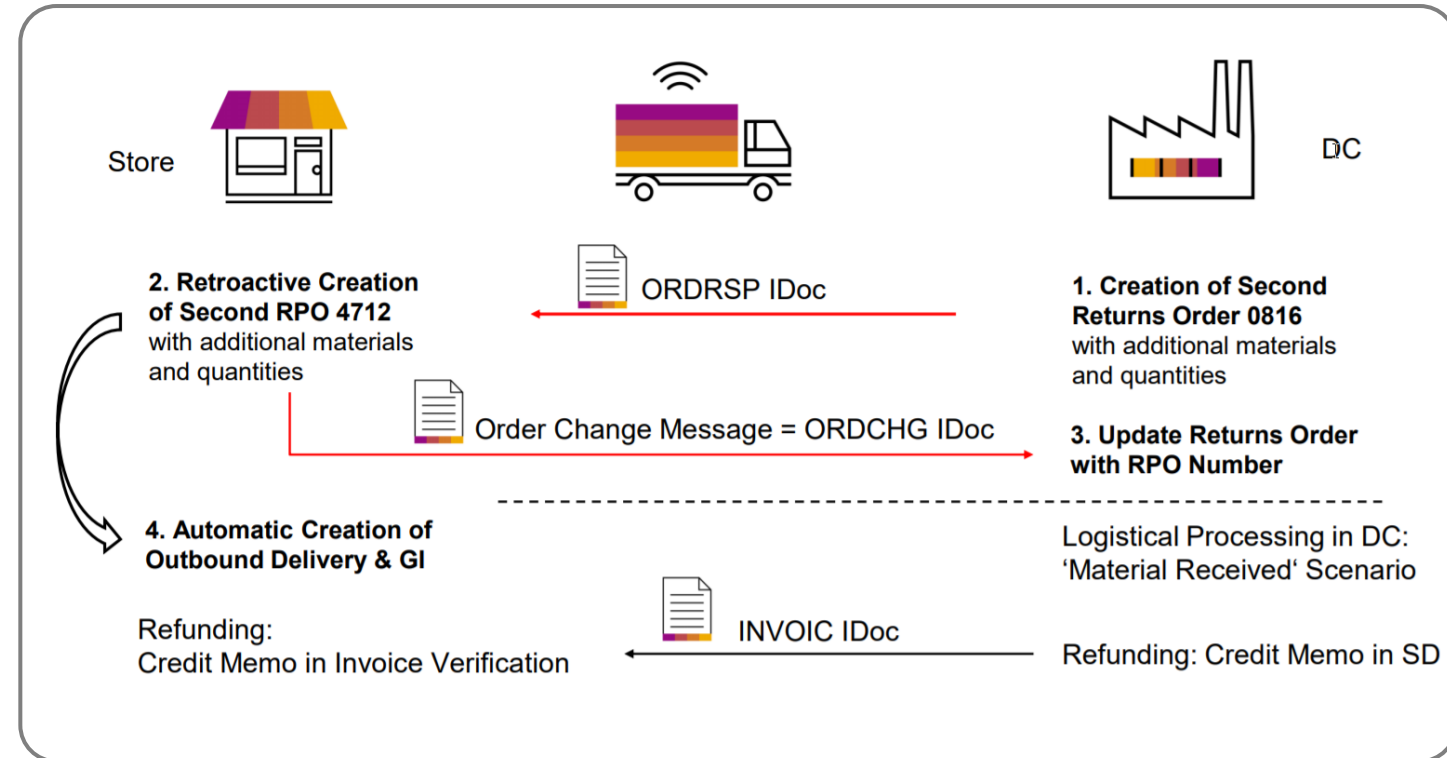
**Suspending product valuation initiated by a refund in the customer returns process**

Enter the inspection result when you create a returns order and before the product is returned.

Triggering of quality management notifications from advanced customer returns orders

Support for the refurbishment process using production and maintenance orders in customer returns

Valuating Returns Based On Preceding Sales Process



EDI based Process for retroactive creation of Returns Purchase Order



# Out-of-the-Box Integration

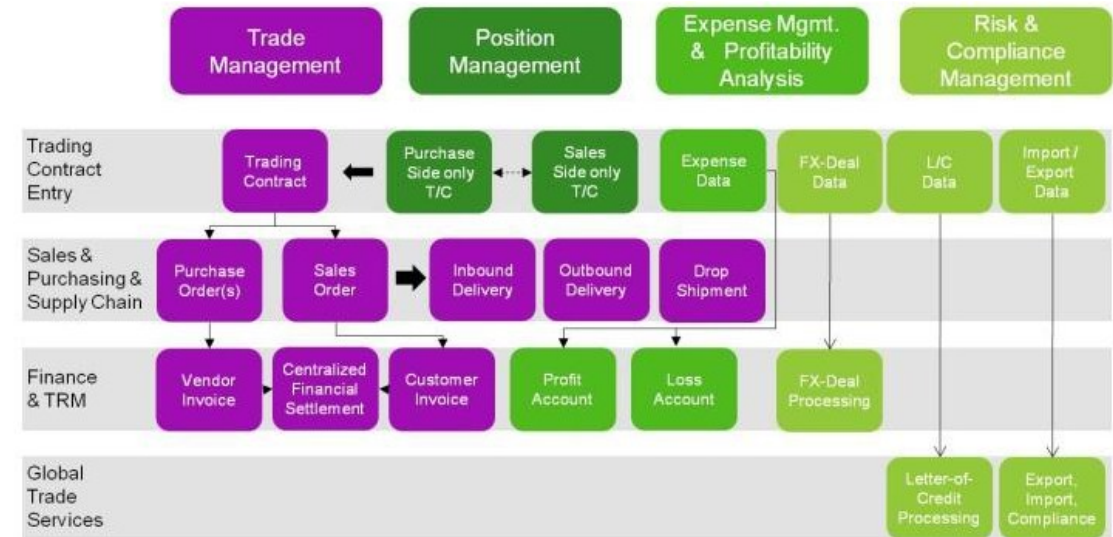
## Global Trade Management

In the trading environment, it is necessary to control and organize the flow of materials and services from suppliers to customers. The principle of the business is to match demand from customer's with supply from supplier's.

This type of business is known as triangular business, principal business, or back-to-back business. In the SAP system, this type of business process, in which sales and purchasing processes are carried out simultaneously, is defined as Trading Business.

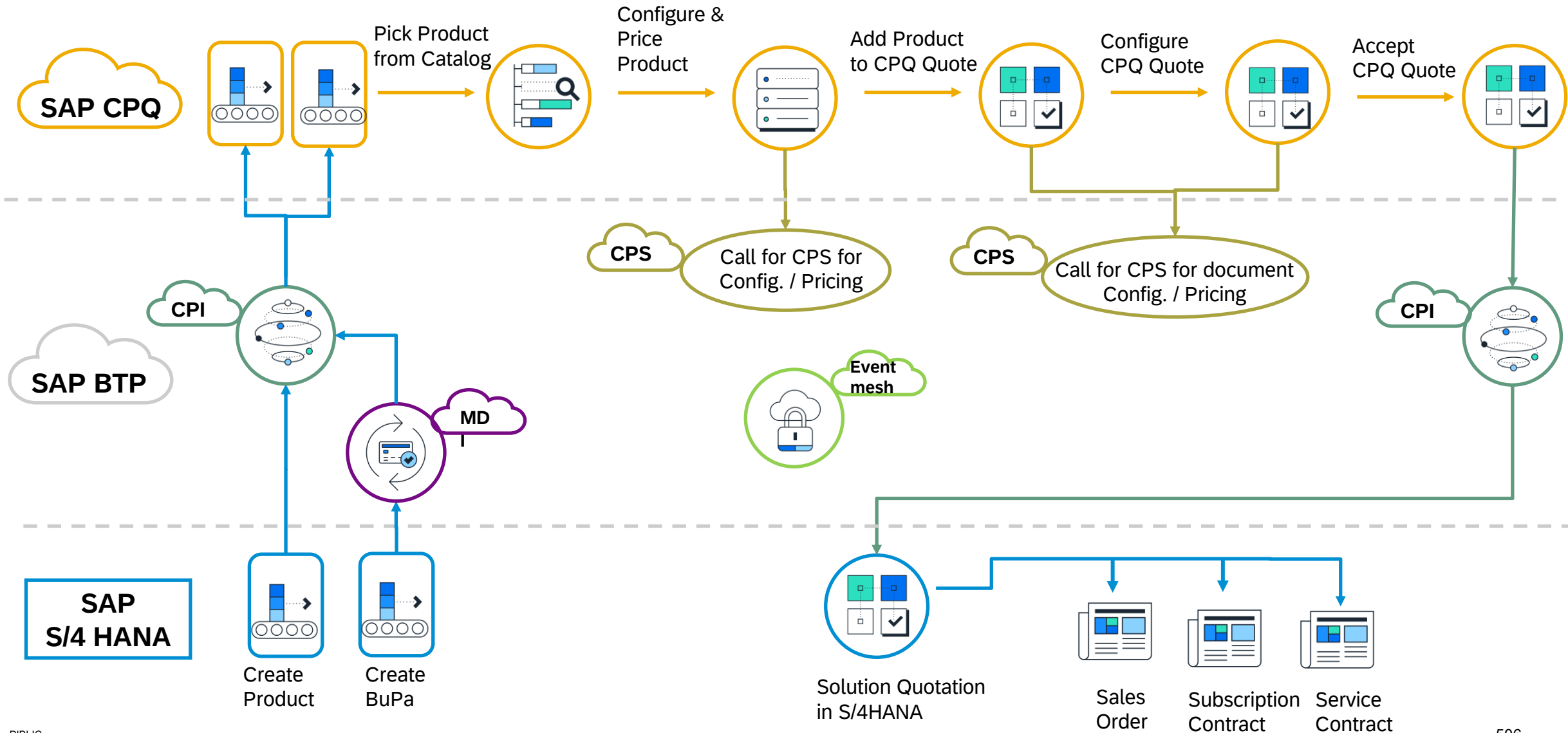
The Trading Contract, is used to handle this ordering process.

- Enables to streamline trading (buy and sell) processes out of one transaction
- Supports the logistics and supply chain processes of trading companies, including Expense Management and Position Management
- It provides specific trading functionality which enables planning, sourcing, selling, delivering, and financial processes.
- SAP GTM makes logistics and supply chain processes transparent. Rules-based automation which can be tailored to the business requirements can reduce the number of process steps.
- Expense handling and profit simulation possible throughout the entire end-to-end process





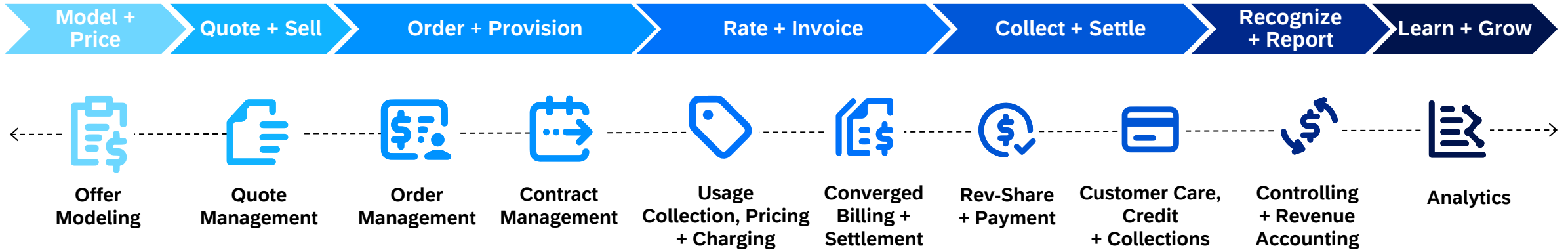
# Out-of-the-Box Integration SAP CPQ








# Out-of-the-Box Integration

## SAP Billing and Revenue Innovation Management



 Quote-to-Cash modules  Optional Quote-to-Cash modules  SAP S/4HANA / BTP core capability

NOTE: Actual product modules will vary based on customer-specific requirements and use cases.



## Out-of-the-Box Integration Sales Automation with SAP Sales Cloud

- Native integration between SAP Cloud for Customer and SAP S/4HANA
- Provides a flexible option for customers needing **true hybrid scenarios** and incremental updates
- Empower sales with a mobile SFA cloud solution to manage sales process together with SAP Cloud for Customer
- Provide sales with the transparency of order-to-cash management process (including pricing, credit, and inventory data) with SAP S/4HANA
- [Best practices integration package](#) is available

**SAP S/4HANA**

Customers  
Products  
Prices  
Contacts

Pricing Engine  
Credit Check  
Inventory

Quote  
Sales Order  
Delivery, Return  
Invoice

Reporting, Margin

**SAP Sales Cloud**

Review Products & existing customers

Review Products & Customers  
Review Pipeline

Create new Contacts & Leads  
Qualify Lead  
Convert to Opportunity

Check Opportunity  
Pricing & Availability

Manage Opportunity  
Update Pipeline

Submit Quote or Order

Create Offer or

Update order status

Close Deal

Review Actual  
Revenues & Margin

Dashboards,  
Reporting & Analysis



# Out-of-the-Box Integration

## Integration with SAP Commerce Cloud

- Native integration for SAP Commerce Cloud and SAP S/4HANA, leveraging powerful core sales office functionality with sales front end office
- Take full advantage of the well-established order fulfillment process on SAP S/4HANA and extend sales channels with SAP Commerce Cloud
- Flexible integration options for order management -- Order management for B2B and B2C business scenarios
- [Best practices integration packages](#) available

**SAP S/4HANA**

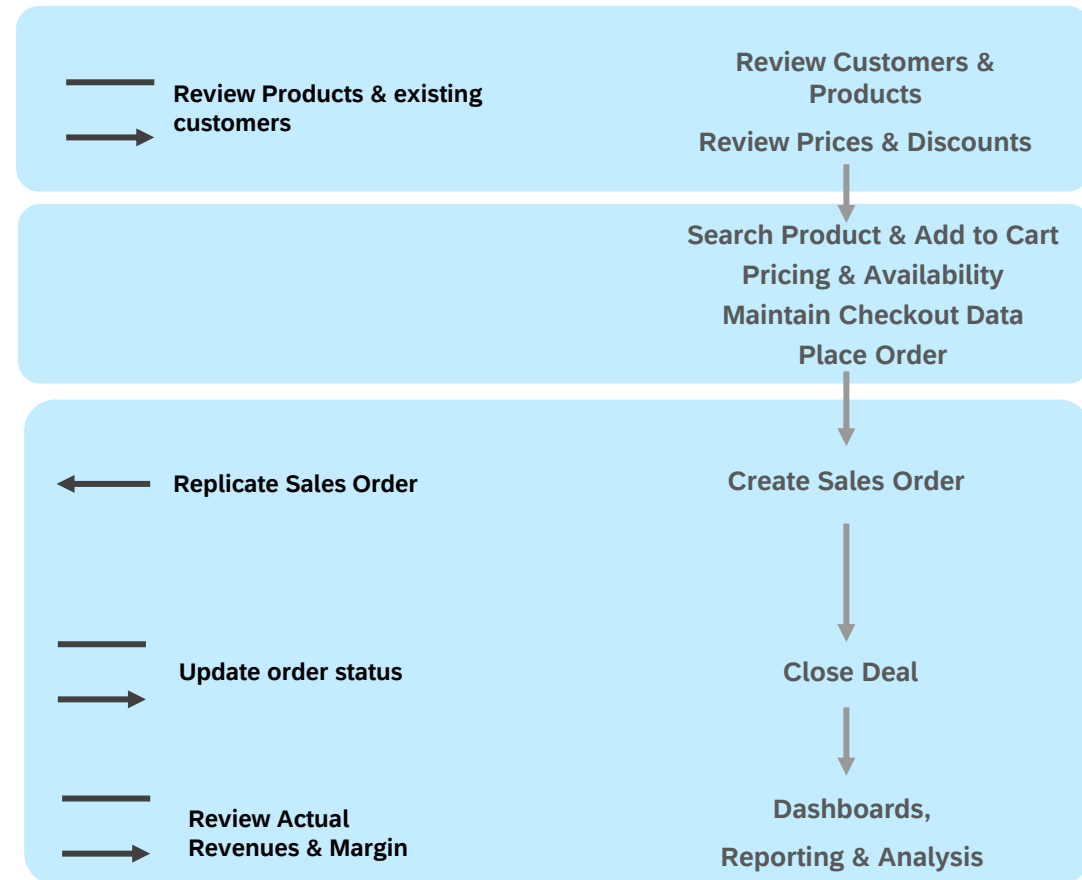
Customers  
Products  
Prices  
Inventory

Sales Order

Delivery  
Pick, Pack, Ship  
Invoice

Reporting, Margin

**SAP Commerce Cloud**

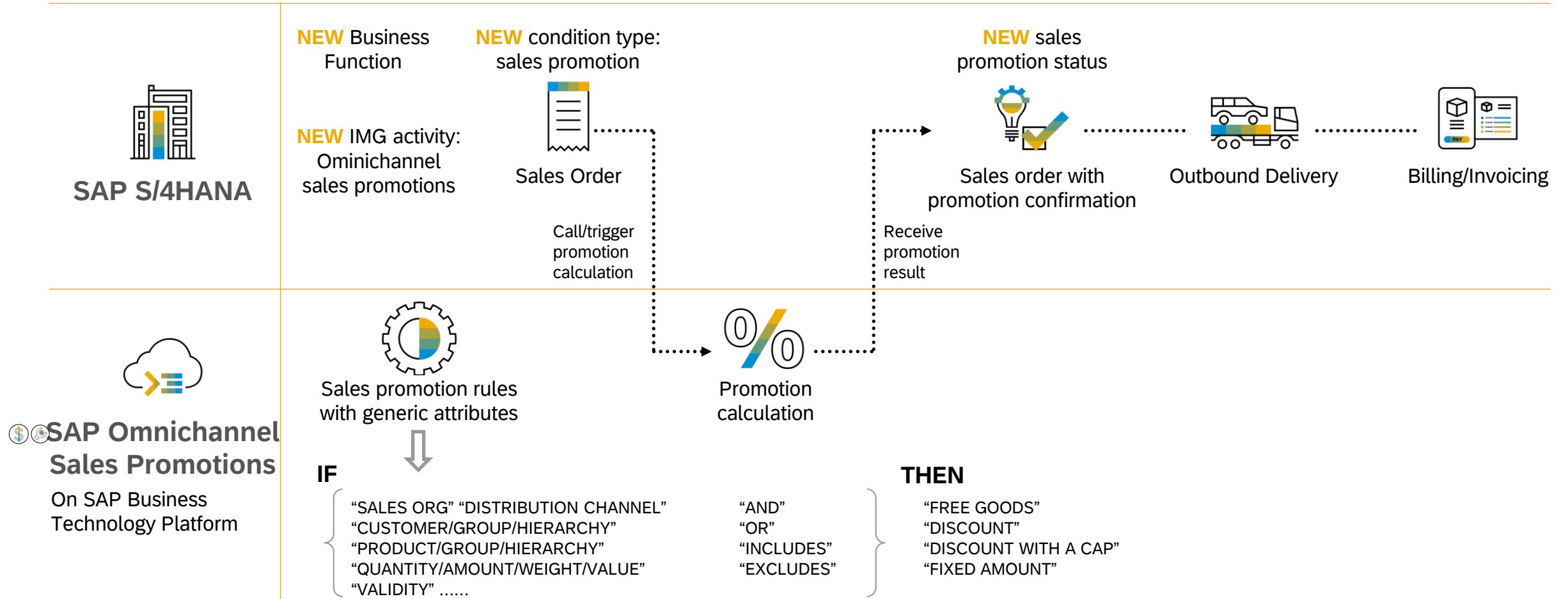






# Out-of-the-Box Integration

## Sales Promotions (aka Bonus Buy) with SAP Omnichannel Sales Promotions





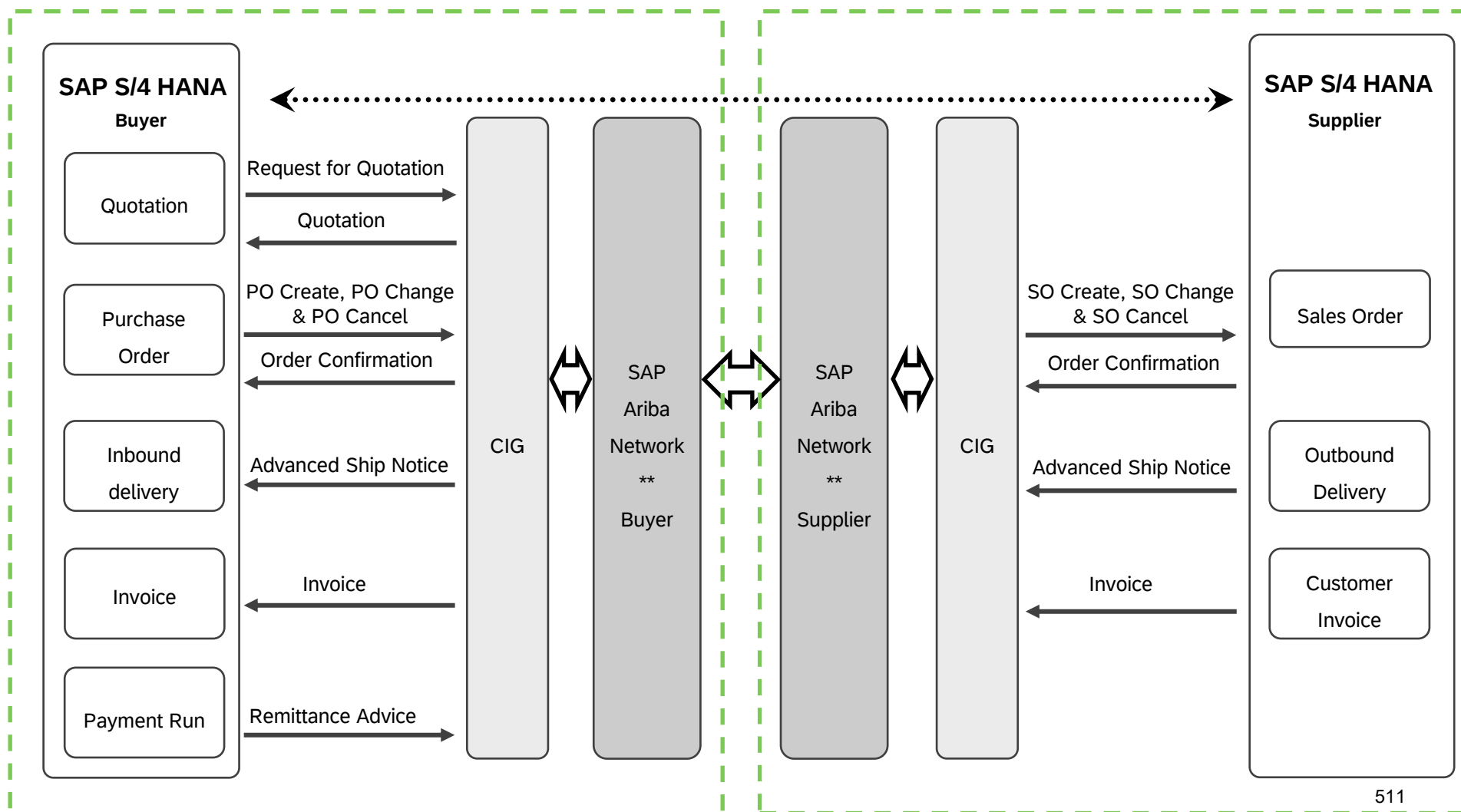
# Out-of-the-Box Integration

## Integration with SAP Business Network

- Exchange your sales data with buyers from Ariba Network automatically using an automated Order-to-Invoice Process
- Supporting integration between SAP S/4HANA and SAP Ariba via SAP managed Ariba Cloud Integration Gateway (CIG)
- B2B SOAP services are available on SAP S/4HANA to integrate with the Ariba Network

### 42K (Automation of Source-to-Pay with Ariba Network)

### 4A1 (Automation of Order-to-Invoice with Ariba Network)





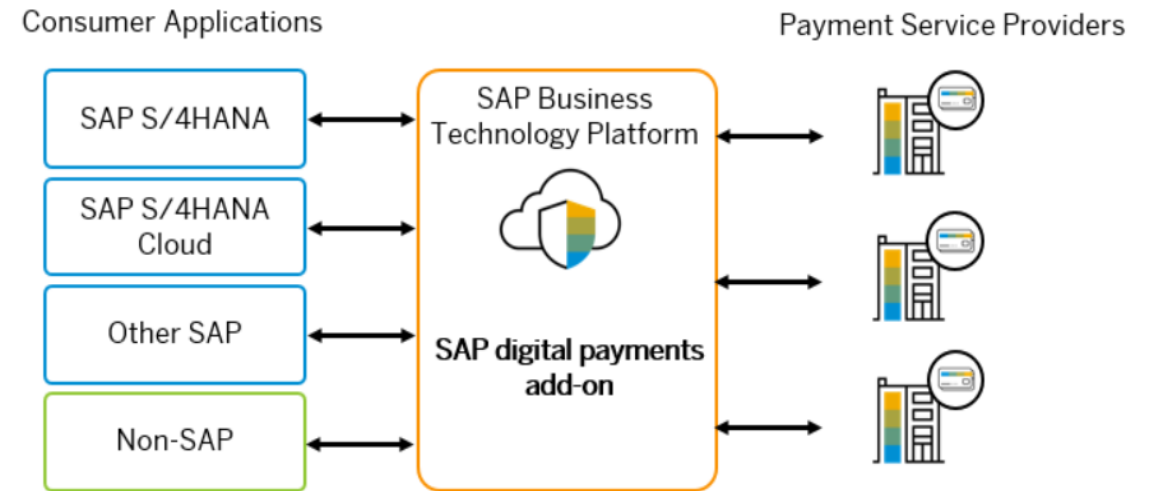
# Out-of-the-Box Integration

## Integration with SAP Digital Payment Add-On


SAP digital payments add-on offers connections to payment service providers (PSPs) to have standardized processing of credit cards. With this solution, SAP provides an alternative to complex customer-specific implementations by an out-of-the box integration to SAP products/components.

SAP manages the operation, maintenance and support of connectivity centrally, giving companies a flexible choice of PSPs.

- Out of the box integration to multiple Payment Service Providers (PSPs) without implementation effort
- Easy onboarding of new PSPs
- Tokenization approach avoids costs & risks (PCI compliant) - no sensitive credit data stored in business solution!
- Reduce the manual effort of post-processing of bank statements items with open items (automatic reconciliation)
- Support of automated splitting and posting of fees and taxes
- Central operations, maintenance and support - improve predictability of cost of integration and operations
- Ensure compliance with lower audit cost
- With the payment by link customers pay electronically using URLs and QR codes on billing documents. A payment service provider processes these payments. This feature simplifies the payment process and enhances customer convenience by offering multiple digital payment methods.



Order Number	757906
Date	Nov 15, 2024
Customer Number	1035165
Our tax Number	DESAPUSH01

Scan QR code to pay or  
[Click here](#)

Currency EUR

Conditions:	
Terms of payment	Up to 15.11.2024 without deduction
Inco. Version	
Inco. Location1	Cost and Freight
Weights - Volume:	
Net weight:	5 KG
Gross weight:	6.25 KG

Terms of delivery	CFR
-------------------	-----



# Compatibility Packs in Sales

CP ID 129: SAP Configure, Price, and Quote for solution sales configuration, up to 20 units

- Alternative option: SAP S/4HANA Cloud, for Solution Sales Configuration, private edition - (material code 8008692)
- [SAP Solution Sales Configuration for SAP S/4HANA 1907](#)

CP ID 458: Sales and Operations Planning

- Alternative option: SAP Integrated Business Planning (IBP)
- Business impact note: [2268064](#)
- Simplification item: [S4TWL - Sales and Operation Planning](#)

CP ID 479: SD Rebate Processing

- Alternative option: SAP S/4HANA Settlement Management
- Business impact note: [2267377](#)
- Simplification item: [S4TWL - SD Rebate Processing replaced by Settlement Management](#)

CP ID 481: SD Analytics based on Logistics Information System (LO-LIS)

- Alternative option: SAP S/4HANA Sales Monitoring and Analytics
- Business impact note: [2267348](#)
- Simplification item: [S4TWL - Simplification in SD Analytics](#)

# People





# SAP S/4HANA – Human Capital Management Solution Strategy

As SAP SuccessFactors remains the primary focus of SAP's HCM innovation, there are no plans for major additional functionalities or re-architectures in S/4HANA. HCM in S/4HANA is intended as a bridge to give customers additional time to move to SAP SuccessFactors. Consistency with the Business Suite is ensured by applying the same data model.

Therefore, no new or updated business processes are developed here. Some Fiori apps will be provided over time, including analytical pages – check out the [Fiori Apps Library](#) and filter for Product Suite SAP S/4HANA and the LoB “Human Resources”.

Investments into intelligent scenarios are entirely focused on SuccessFactors, which is one of the frontrunners for Generative AI – more details here: [Generative AI with SAP](#)

The HCM functionality in S/4HANA is licensed - both in private cloud and on-premise - via engine licenses with an “employee” metric, no longer by core named user licenses. SAP thus paves the way also commercially for the transition to SuccessFactors, where the same commercial model applies.



## Compatibility Packs in HCM

- In S/4HANA Cloud, private edition, classic HCM can only be accessed based on the respective license materials. The CP use right for HCM only exists in on-premise.
- Customers using the HCM compatibility pack in on-premise have to upgrade to release 2022 or later and implement HCM for S/4HANA *by the end of 2025*.
- CP IDs 414 – 424:
  - S/4HANA on-premise customers can use classic HCM as compatibility pack until the end of 2025. By then, they must have licensed HCM use via the respective license materials which were released in October 2022. They also need to activate the H4S4\_1 business function ([docu](#)).
  - Enterprise Management / the FUE licenses only cover Time Recording and Org Structure Management. All other capabilities are only provided via the HCM licenses, with an “employee” metric.
- Relevant notes:
  - General approach for HCM: <https://me.sap.com/notes/2273108>
  - Detailed notes are accessible via the WayForward excel in <https://me.sap.com/notes/2269324>

# Cross







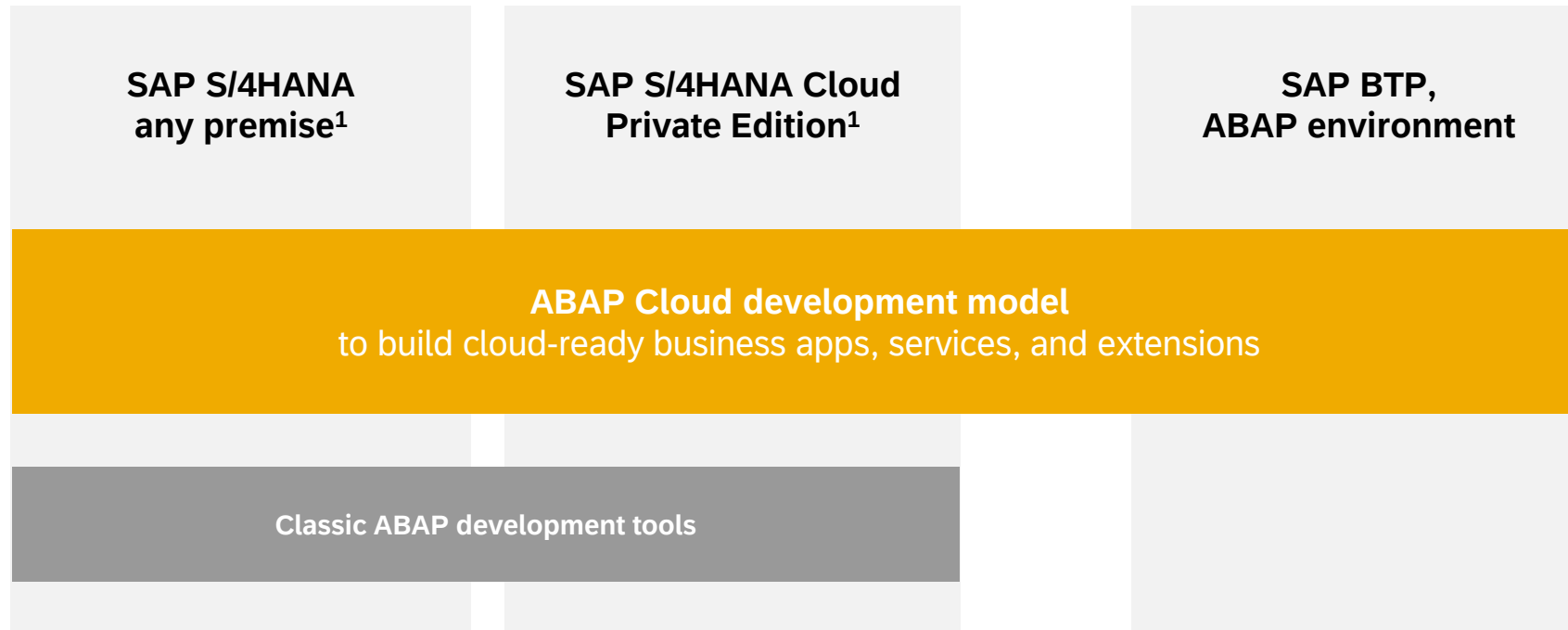
## SAP S/4HANA Differentiator – Cross

- Extensibility
- Enterprise Search
- Master Data Governance
- Responsibility Management
- Flexible Workflow
- Intelligent Scenario Lifecycle Management
- Integrated Business Communications 



# Extensibility

ABAP Cloud – One development model for SAP S/4HANA and SAP BTP

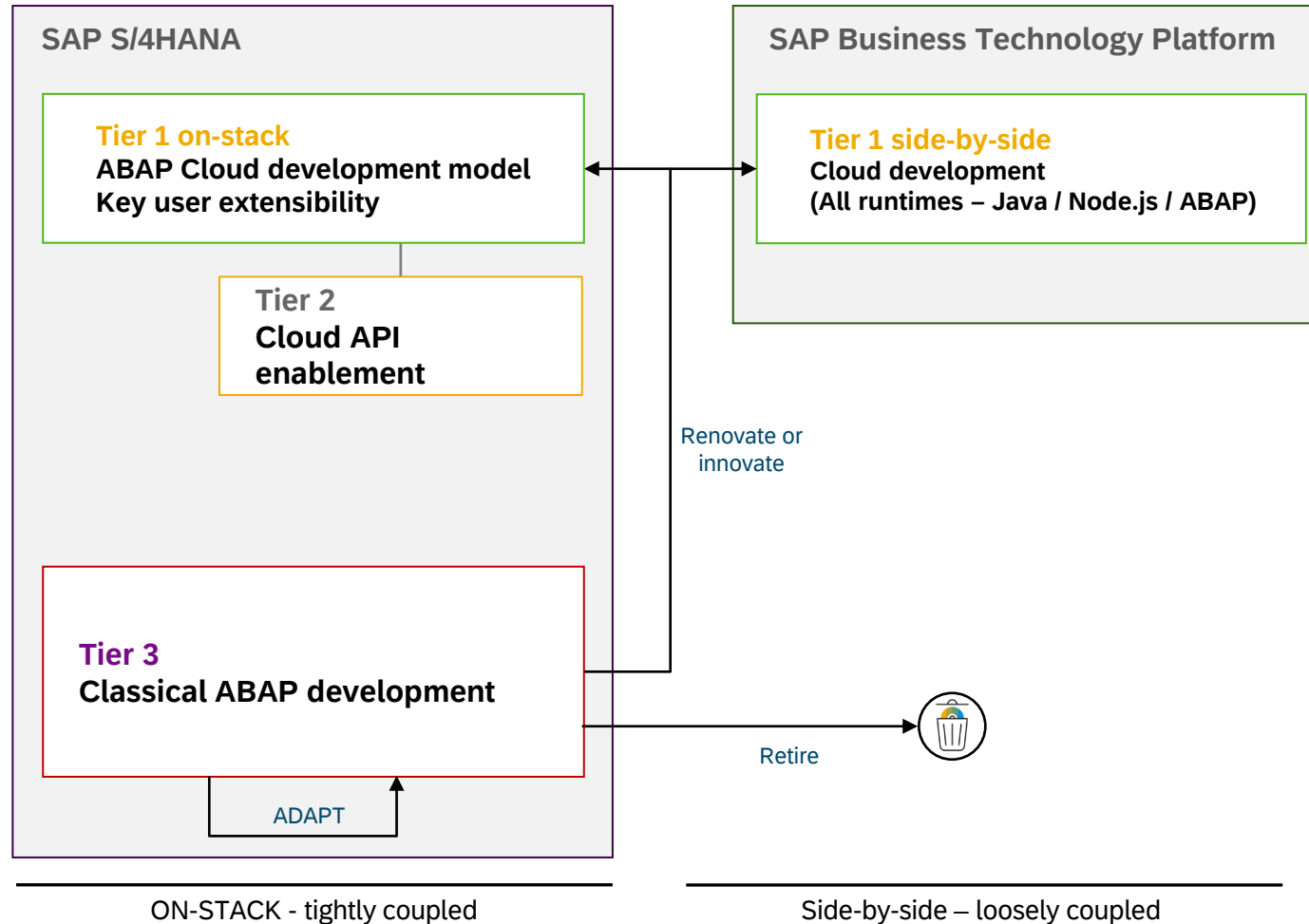


<sup>1</sup> SAP S/4HANA any premise or SAP S/4HANA Cloud Private Edition release ≥ 2022



# Extensibility

## Three-tier extensibility model for SAP S/4HANA Cloud Private Edition and on-premise



### Tier 1 – Cloud extensibility model

Development of cloud-ready and upgrade-stable applications and extensions

Default for new extensions and custom apps

### Tier 2 – Cloud API enablement

Extends and enables tier 1 for private cloud and on-premise

Mitigates missing public SAP APIs or extension points:

- Develop custom wrapper objects for not released SAP objects to be used in tier 1
- Retire wrapper once a released SAP API is available

### Tier 3 – Classic ABAP extensions

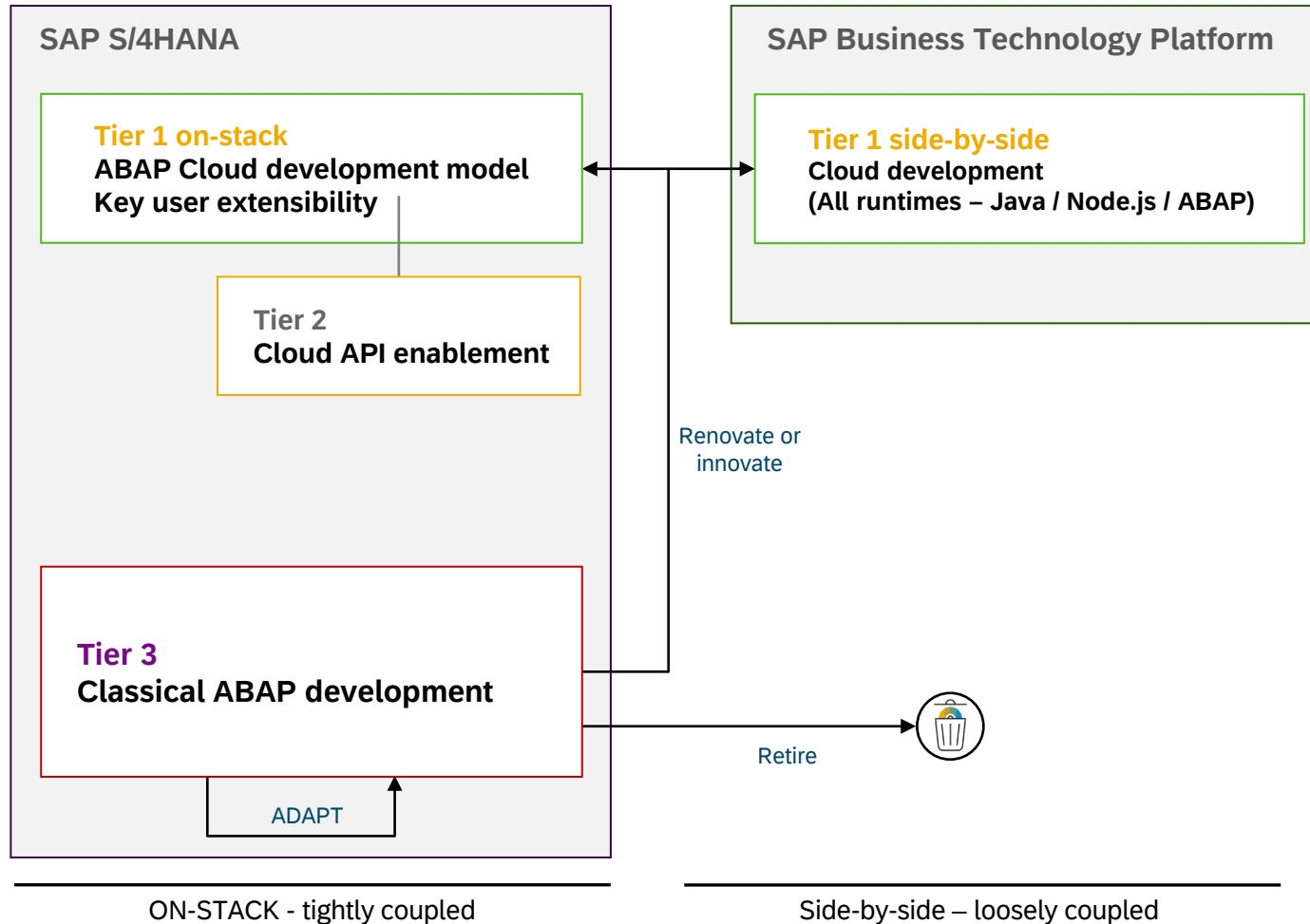
Legacy/existing custom ABAP code or new on-stack extensions code that cannot follow the rules of tier 1 and 2

Guidance to avoid and reduce the content in tier 3



# Extensibility

## Three-tier extensibility model for SAP S/4HANA Cloud Private Edition and on-premise



### Benefits:

- Clean core using tier 1, with clear technical guidance, cloud-ready
- Upgrade stability for tier 1 extensions
- Exploit rich PCE/OP scope, mitigate missing public APIs
- Controlled violations of clean core principles (authorizations, ATC)
- Enablement of stepwise cloud transformation
- Greenfield: Tier 3 empty, only use tier 1 and 2
- Brownfield: Legacy in tier 3, new extensions in tier 1 and 2

[Extend SAP S/4HANA with ABAP based extensions](#)

[Blog](#)

[Custom Extensions in SAP S/4HANA Implementations](#)



# Key User Extensibility

SAP S/4HANA key user extensibility allows adapting standard functionalities to user requirements without the need for any external tools. Whether you want to apply small changes, such as hiding standard fields for specific user groups or including some business logic, SAP S/4HANA offers a variety of tools covering diverse extensibility needs. Here's an overview of the things you can do using key user extensibility tools:

- Change and adapt the UIs for SAP Fiori Apps through Key User Flexibility or classic applications using Screen Personas
- Create a new custom user interface
- Create and extend forms and email templates
- Create custom-specific CDS Views
- Enhance the current business process by creating custom business logic
- Create custom fields
- Create custom business objects

SAP S/4HANA embodies key user extensibility tools, which are completely web-based. They are targeted at key users who have a deep knowledge of the product itself, but not necessarily a very deep technical knowledge.

As mentioned above, the tools we provide create lifecycle-stable artifacts. In other words, SAP software updates do not depend on adoptions by customers or partners and are upgrade-proof.



# Developer Extensibility

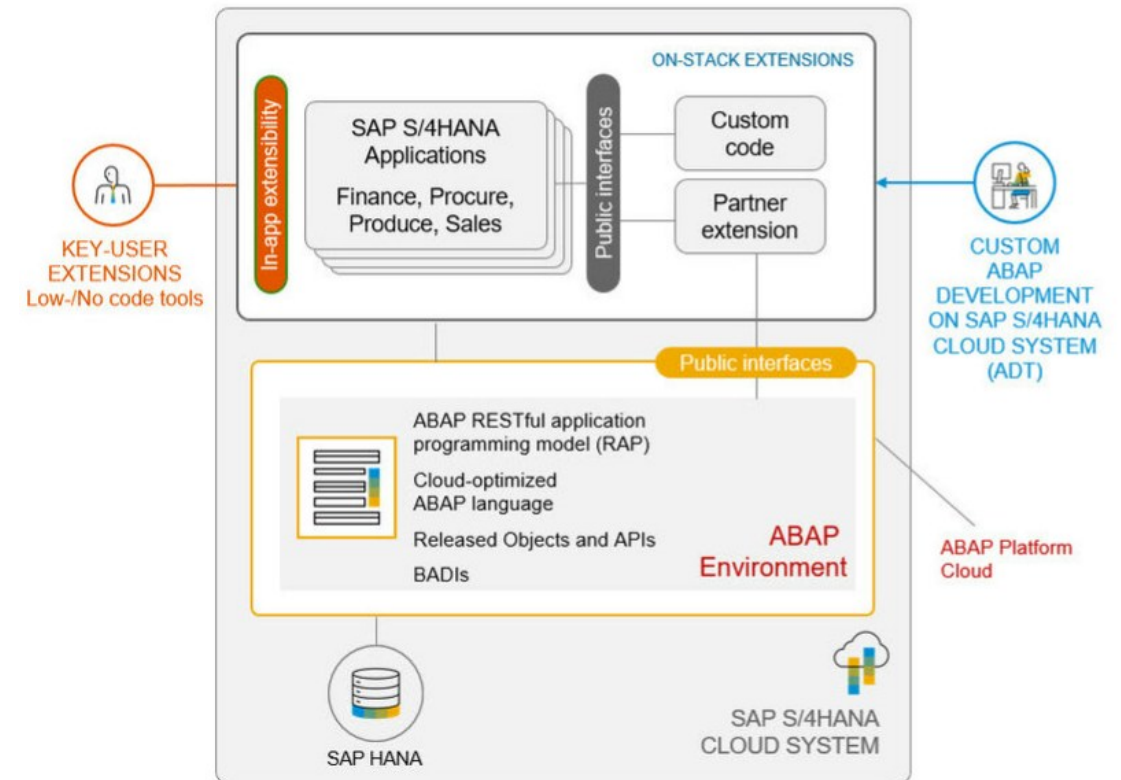
Developer extensibility allows you to create development projects in an SAP S/4HANA system. It gives you the opportunity to develop cloud-ready and upgrade-stable custom ABAP code on SAP S/4HANA, combining the benefits of custom ABAP code, with the required restrictions for cloud-readiness, and the SAP S/4HANA programming model to build SAP Fiori apps.

This includes:

- ABAP RESTful Application Programming model (RAP) to build services and SAP Fiori apps
- Eclipse-based IDE (ABAP Development Tools) with debugger, troubleshooting, and testing tool support
- ABAP software lifecycle support

To ensure cloud-readiness, you have to take into account the following restrictions:

- Cloud-optimized subset of ABAP language
- Usage of released SAP APIs or objects in the custom code
- Usage of predefined extension points to extend SAP objects
- Controlled access to admin, user, authorization, monitoring tools, and services
- No security by default when creating your own tables, in particular, you cannot use ILM (Information Lifecycle Management) and IRF (Information Retrieval Framework)





# Side by Side Extensibility

In addition to the SAP S/4HANA key user extensibility, we have the side-by-side extensibility concept in place.

Here, we allow our customers and partners to develop dependent extensions, develop their own custom applications or consume existing apps. The SAP Business Technology Platform is the accepted choice for building an extension for any SAP cloud solution. The goal is to develop a loosely coupled, but seamlessly integrated extension.

## SAP S/4HANA Side-By-Side Extensibility Extension Use Cases

You can extend existing processes or invent completely new processes while easily combining SAP S/4HANA data with data from other systems. Here are a few typical extension archetypes that our customers and partners are implementing (this list is not exhaustive):

- Proxy applications
- Convenience applications
- Substitute applications
- Pre-processing applications
- Postprocessing applications
- Analytical applications

[Custom Extensions in SAP S/4HANA Implementations](#)



# Enterprise Search

SAP HANA enterprise search enables a full-text search, navigation, and access to structured and unstructured information across multiple systems.

- Full-text search for business objects and documents
- Results ranking along business criteria, e.g. user's organizational context
- Access to information across multiple systems; navigation along object relations
- Direct navigation into source systems/transactions
- Integrated support for SAP authorization concepts
- Infrastructure for modeling, administration, and monitoring of search models
- Provides search results based on similar search strings
- Suggestion list is shown when user enters minimum number of characters (Type ahead)

The screenshot displays the SAP Enterprise Search interface. At the top, there's a search bar with the text 'API Organization' and a search icon. Below the search bar, the results are categorized into 'Search In' and 'Results (1,204)'. The 'Search In' section lists various business objects and their counts, such as 'Billing Documents duplicate QKV910...' (1), 'Business Partner Core' (4), 'Credit Memo Requests duplicate QK...' (6), 'Customer Returns duplicate QKV9...' (400), 'Customers duplicate QKV910~CUST...' (3), 'Debit Memo Requests duplicate QKV...' (1), 'Organization Core' (4), 'Outbound Deliveries duplicate QKV9...' (2), 'Return Deliveries' (57), 'Sales Contracts duplicate QKV910~...' (41), 'Sales Inquiries duplicate QKV910~C...' (29), 'Sales Orders duplicate QKV910~S...' (611), and 'Sales Quotations duplicate QKV910...' (45). The 'Results (1,204)' section shows a list of search results, including 'BP\_ADOP API Organization | Business Partner Core', 'BP\_ADOP API Organization | Organization Core', 'Credit Memo Request 60011227 | Credit Memo Requests duplicate QKV910~CREDIT\_MEMO\_REQ\_H~', 'Credit Memo Request 60011233 | Credit Memo Requests duplicate QKV910~CREDIT\_MEMO\_REQ\_H~', and 'Credit Memo 90067752 | Billing Documents duplicate QKV910~CUSTOMER\_BILL\_DOC\_H~'. Each result entry includes details like Title, External Number, Search term 1, Search term 2, Kind, Category, Source Data, Business Partner, Name, Sold-To Party, Customer Reference, Net Value, Document Date, Payer, Billing Date, Overall Billing Status, and Net Value.





# Master Data Governance

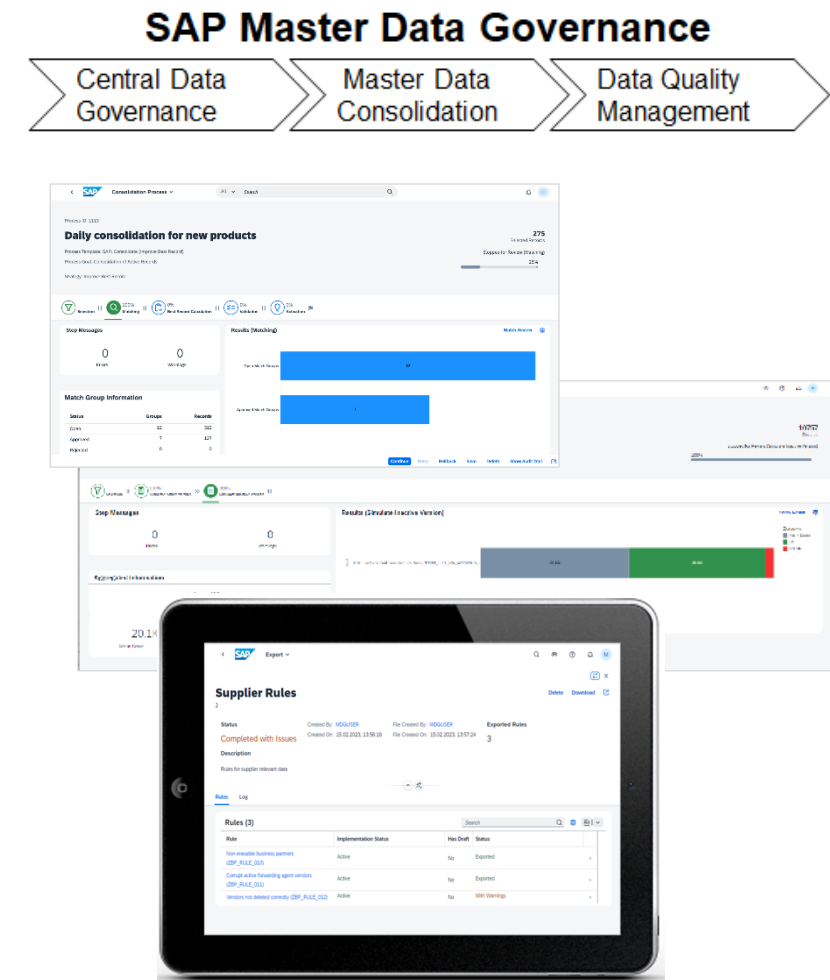
SAP Master Data Governance on SAP S/4HANA: the efficient way towards consistent and high-quality master data – the foundation of your Digital Business

SAP MDG on SAP S/4HANA provides preconfigured, domain-specific master data governance as well as a flexible framework for custom data models and processes. This allows to de-centrally manage and consolidate, or centrally manage and distribute all master data for your company's complete system landscape.

The clean master data from SAP MDG on SAP S/4HANA enables you to accelerate your enterprise software journey, and to enable new digital business models.

For example...

- SAP MDG on SAP S/4HANA supports your system landscape simplification and move to the cloud with synchronized master data across on premise and on-demand applications
- Leverage SAP MDG on SAP S/4HANA's harmonized master data and SAP's platform capabilities to connect transactional and IoT or other big data, and derive real business value
- Mobilize your business with simplified master data access and efficient scenarios for request, approval, or to monitor KPIs and trends
- MDG can support your SAP S/4HANA move: get experience with a controlled subset, ensure master data quality before the implementation and maintain quality after go live





# Master Data Governance

## Generative AI for assisted changes in custom object/summary of mass changes in central governance (classic mode)

### Summarize Changes:

Get an overview of change requests with multiple objects (mass changes) in natural language (using a Large Language Model) to:

- verify the completeness and/or correctness of master data changes
- get a brief overview of the changes comprised in an MDG change request
- prevent pointless revisions based on incomplete changes
- have a non-technical summary of changes (in contrast to change documents)
- facilitate approver's final checks

### Assisted Change:

In the governance of custom objects with reuse entities, change master data attributes with as little effort and steps as possible so that applying changes to a master data object is time efficient. A user makes prompts in natural language to make field changes.

The screenshot displays the SAP MDG (Master Data Governance) interface for a change request titled "Process Airline AB". The interface is divided into several sections:

- Change Request Section:** Includes tabs for "General", "Assisted Changes", "Summaries", "Notes", and "Attachments". A text input field contains the prompt "Change currency to USD" with a "Go" button.
- Airline Section:** Includes tabs for "Airline" and "Edit". Under "Airline Details", fields show "Airline: AB", "Airline local currency: EUR", "Name of Airline: Air Berlin", and "Airline URL: http://www.airberlin.de".
- Activate Change Request Section:** Includes tabs for "Atta", "Hier", "Save", "Activate", "Reject", "Read Only", "Print Preview", "Check", "Run Validation", "Validation Log", and "Related Services". A dropdown menu shows "Change Request: 29271", "Type: Process Multiple Materials", and "Status: Changes to Be Executed".
- Summaries Section:** Includes tabs for "Overview", "Changes", "Summaries", "Notes", and "Attachments". It displays a "Summary of Change Request 29271 (09.01.2025 18:12:46)" with details about material specifications and units of measure.

A "Cancel" button is visible in the bottom right corner of the interface.



# Master Data Governance

## Extension of Validations with SAP S/4HANA Finance

As a master data specialist, I want to validate changes to existing and distributed master data before change request activation. By considering situations in target systems in advance, while processing change requests in MDG hub, I would know earlier if certain changes are no longer allowed rather than needing to wait until receiving confirmation messages from the target systems.

Solution: By introducing remote function calls to target systems with checks for the most business-critical attributes, proposed changes are validated before change request activation.

Target Systems for Remote Validation

	Entity	Logical System	Val.
<input type="checkbox"/>	G/L Account	✓ QM7CLNT405	<input checked="" type="checkbox"/>
<input type="checkbox"/>	G/L Account	✓ QM7CLNT410	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Cost Center	✓ QM7CLNT405	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Profit Center	✓ QM7CLNT410	<input checked="" type="checkbox"/>

All ✖ 2

✖ G/L Account (Company Code) INT/113100/0001 You cannot change the open item management at thispoint; see long text >

✖ G/L Account (Company Code) INT/113100/0001 Changing the currency not possible; account has abalance; see long text >

< ✖

✖ **G/L Account (Company Code)**  
**INT/113100/0001 You cannot change the open item management at thispoint; see long text**

Message No. USMDZ3003

**Diagnosis**

This message was returned by an S/4 HANA system which was called during the validation.

Original system & message number are: QM7\_410 & FH087

**Procedure**

You can find more background information in the long text of the original message.



# Responsibility Management

A functionality which helps determine the **responsible contacts within the organization** for various contexts in order to address tasks and activities, along the working structure and, dimensions of the respective lines of business.

In responsibility management, business process experts create and maintain teams consisting of members with defined functions. Business Workflows as well as Situation Handling are integrated with responsibility management and can consume the defined responsibilities. In the case of business workflows you can allocate responsibility definitions to each workflow step in order to define who is in charge of the related action. In Situation Handling, you may use responsibility definition to determine, who receives the respective notification.

## Responsibility Determination by Teams:

The image displays three screenshots of the SAP Responsibility Management interface, illustrating different functional areas:

- Left Screenshot:** Shows the 'Team Members' list. Annotations include:
  - A circle around the search bar with the text 'Procurement'.
  - A circle around the 'Replace Team Member' button.
  - A circle around the 'Changed By' field.
  - A circle around the 'Business Process' dropdown.
- Middle Screenshot:** Shows the 'Team Hierarchies' view. Annotations include:
  - A circle around the 'Manage Sub Teams' button.
  - A circle around the 'Manage Team Hierarchies' button.
- Right Screenshot:** Shows the 'Team Member Authorization Status' table. Annotations include:
  - A circle around the 'Change Documents' section.
  - A circle around the 'Team' column header.



# Flexible Workflow

## My Inbox

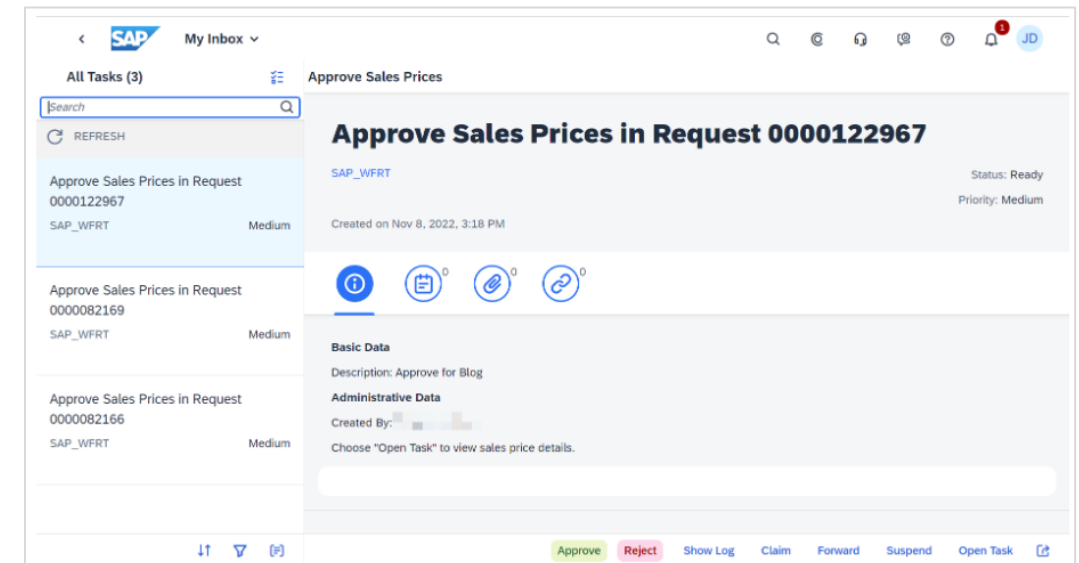
- All workitems for all processes with process-dependent decision (e.g. Release [green] and Reject [red])
- Visible to all possible agents, but only one can process
- Workitem will disappear when obsolete or processed
- Forward: send workitem to a colleague
- Claim or Suspend: reserving a workitem for later
- Log: show processing history

## Manage Workflow

- Workflow Steps (e.g. approval, rework)
- Responsibilities (e.g. Team function, manager)
- Conditions (e.g. Amount > x)
- Specify exception handling

## Manage Teams and Responsibilities

- One Team for each range of responsibility – depending on the process type (e.g. Procurement)
- Multiple assignment of business users to various teams
- Various functions per team member

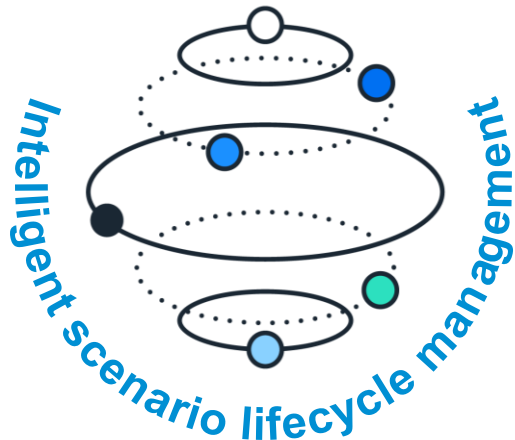


[Link to documentation](#)



# Intelligent Scenario Lifecycle Management

## Capabilities to support end users in managing their intelligent scenarios



Create custom predictive scenarios

Harmonized framework in basis SAP software layer

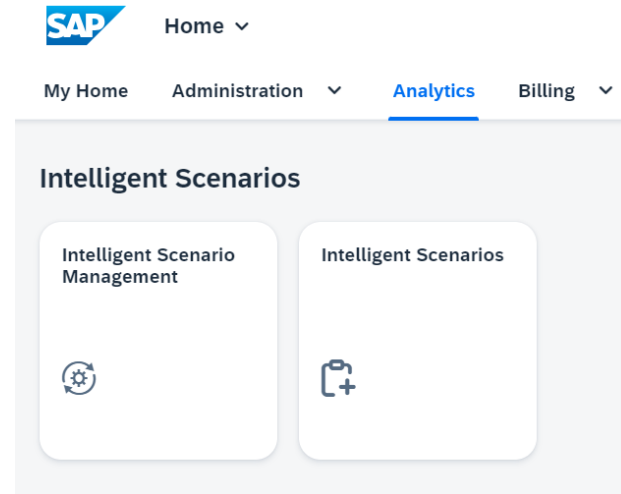
Successor of SAP Predictive Analytics integrator

Standard to train, deploy, activate even for remote ML providers

Support for all phases (readiness, first usage, lifecycle operations, deletion, decommission)

Lifecycle management for ML services provisioned as a service

Common consumption model for application integration in SAP S/4HANA Cloud



Intelligent Scenario Management				
Intelligent Scenarios (76)				
Package	Intelligent Scenario	Intelligent Scenario Description	Scenario Type	Created At
SCWB_KRK_100	AICORE_TEST_1	AICORE	SAP AI Core	22.03.2022, 08:23:01
	AKS_ISLM_RELTEST_00	Release testing	Regression	23.03.2022, 11:11:45
	AKS_ISLM_RELTEST_01	release testing	Classification	23.03.2022, 11:20:21
	AKS_ISLM_SYSLVR_01	Without system flavour	Regression	01.09.2021, 12:28:51
	AKS_ISLM_SYSLVR_03		Classification	01.09.2021, 13:09:47

[Community Call](#)

[Blog](#)



# Integrated Business Communications

Design and deliver personalized, traceable, scalable communications with your business contacts directly within and out of SAP Cloud ERP Private

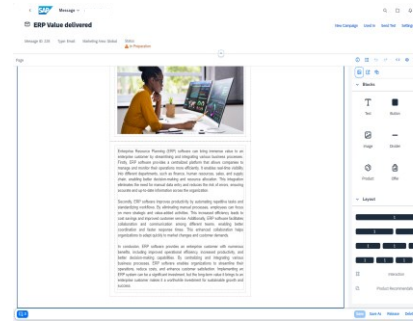
Ensure consistency and timing with the set up of **automated, multi-step communication** flows that run regularly or are event-based

**Ad-hoc communication\*** initiated directly from within the current process step, considering the business context **without leaving the system.**

Enhance productivity, transparency and customer satisfaction with personalized communication for business partners for **all areas and industry agnostic**



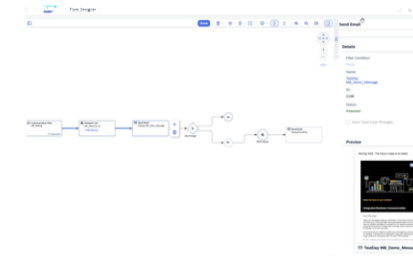
Create recipient lists



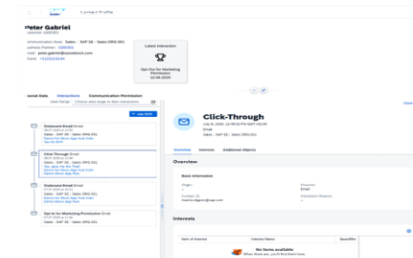
Editor for reusable templates in corporate styling



Overview Video



Flexible communication flow with follow ups



Communication history and reactions

# Additional information

[SAP S/4HANA Community](#)

[Roadmap SAP S/4HANA Cloud Private Edition](#)

[Roadmap SAP S/4HANA Cloud Private Edition only innovations](#)

[RISE on sap.com](#)

[SAP Cloud ERP Private on sap.com](#)

[Learning Site SAP S/4HANA Cloud Private Edition](#)

[Videos for SAP Cloud ERP Private](#)

[Enterprise Resource Planning Blogs by SAP](#)

[SAP S/4HANA Cloud Private Edition Value Map - SAP Enterprise Support](#)



# Thank you.

Contact information:

