Business Scope SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023 FPS2)





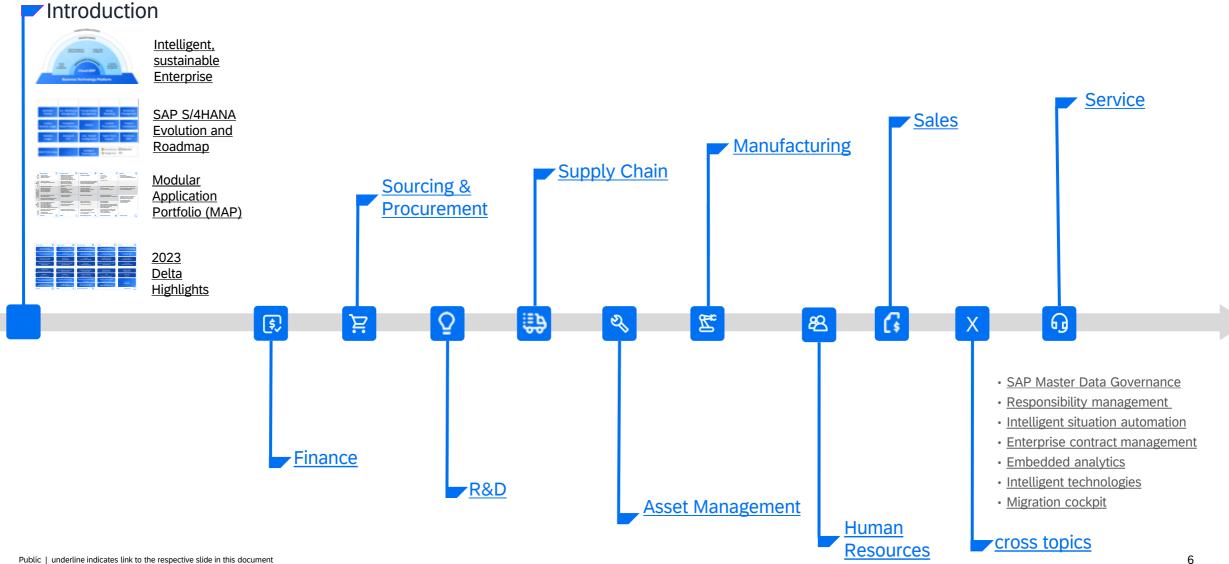
Introduction SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)

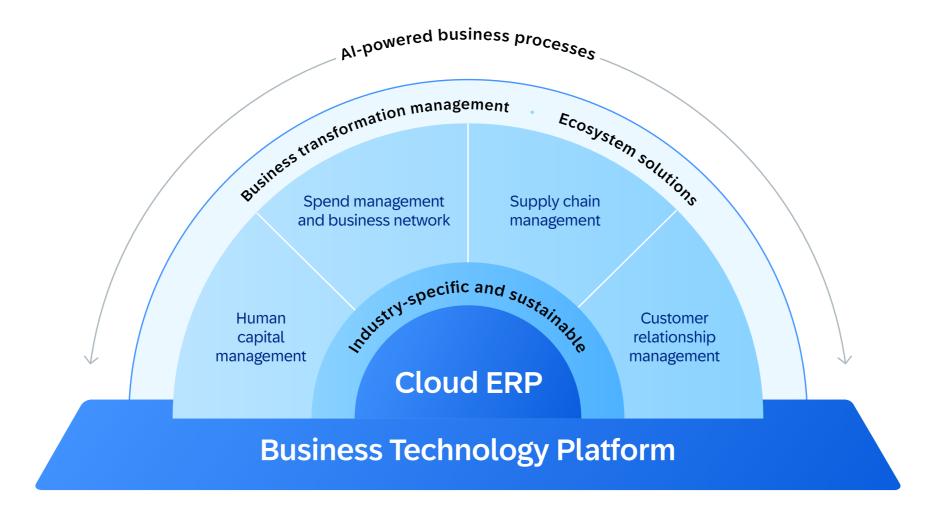




SAP S/4HANA Cloud Private Edition: Business Scope Outline



SAP Portfolio



SAP Portfolio: SAP Business Technology Platform

Migrate and maintain relevant data, deliver trusted master data, and keep the core clean by decoupling custom code

Integrate, optimize, and automate processes with 2,000+ prebuilt integrations and comprehensive tools

Innovate to gain a sustained competitive advantage with high value SAP BTP solutions including analytics and intelligent technologies embedded in SAP S/4HANA

App Development

- Process automation
- Digital experience
- Visual Low-Code /
- No-Code programming
- Development Operations

Integration

- Process integration
- Data integration
- API led integration
- Event based integration

Data and Analytics

- Database
- Data management
- Data warehouse
- Analytics & planning

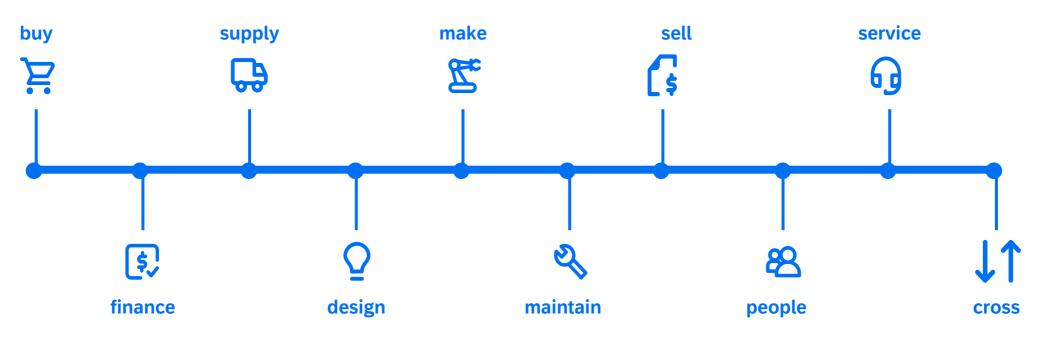
Value Proposition:

- Secure & compliant
- Open & flexible
- Unified & simple
- Broad ecosystem
- Enterprise-grade & scalable
- Business-centric

Intelligent Technologies
Pre-built AI models
Intelligent processes
Self-learning programs
Data security & decentral persistence

SAP Portfolio: Cloud Enterprise Resource Planning





Adapt to volatile markets and disruptions with dynamic reallocation of resources

Drive step change improvement in time and drive insight into action

Design new business models and maximize existing ones

Drive real-time insight eliminating manual effort, increasing productivity

Operate as ONE for processes, operations and networks

Decide and act immediately from anywhere

SAP Portfolio: Cloud ERP: GROW and RISE with SAP

Differentiated cloud journeys



Start Fresh with SaaS Cloud ERP	Modernize your legacy ERP from SAP
GROW with SAP	RISE with SAP
SAP S/4HANA Cloud Public Edition is a ready-to-run cloud ERP that delivers the latest industry best practices and continuous innovation	SAP S/4HANA Cloud Private Edition is a tailored-to-fit cloud ERP that adapts to your organization's unique transformation
 Run on the industry standard 	 Run on your own standard
Accelerate business growth	Modernize your business
 Keep innovation moving 	 Keep the control
Customer Journey	Customer Journey
Implement a ready-to-run SaaS cloud ERP that delivers the latest industry best practices and continuous innovation. This is for net new and existing customers who want to start fresh with a greenfield SaaS cloud ERP.	Migrate customers to cloud by leveraging their existing ERP or deploying greenfield. This is for customers to realize a tailored-to-fit, clean-core cloud ERP that adapts to their unique transformation.

SAP Portfolio: RISE with SAP S/4HANA Cloud Private Edition



Cloud ERP

Future-proof your business with a Cloud ERP enhanced with Business AI

RISE with SAP Cloud Operations

Unlock agility with a cloud operating model

RISE with SAP Methodology

Transform and enable continuous innovation with best practice guidance



SAP Portfolio: Industry Solutions



Discrete Manufacturing

- Aerospace and Defense
- Automotive
- 🖵 <u>High Tech</u>
- Standard Manufacturing

Consumer

- 💋 <u>Agribusiness</u>
- & Consumer Products
- 💼 <u>Fashion</u>
- **<u>Life Sciences</u>**
- 😤 <u>Retail</u>
- Wholesale Distribution

Energy & Natural Resources

- 👗 <u>Chemicals</u>
- 脑 Mill Products
- Mining
- 🚯 Oil, Gas, and Energy
- ℁ <u>Utilities</u>

Service Industries

- ✤ Engineering, Construction, and Operations
- Media and Entertainment
- Passenger Travel and Leisure
- Cargo, Transportation, and Logistics
- Professional Services
- Sports
- Stelecommunications

Financial Services

- 🚯 <u>Banking</u>
- 🔓 Insurance

Public Services

- Defense and Security
- <u>Government</u>
- ♥ Healthcare
- <u>Higher Education</u>
 <u>and Research</u>

Industry-specific features and functions

in SAP S/4HANA Cloud Private Edition

from Automotive

- Integrated Product and Process Engineering
- Packaging Logistics
- Executing Inbound Deliveries
- Just-in-Time, Just-in-Sequence
- Automotive-specific Kanban features
- Production Backflush for Discrete Industries
- Self-Billing and Evaluated Receipt Settlement
- Scheduling Agreement Processing (enhancem.)
- Vehicle Management System, Vehicle Search
- Long Material Number

from E&CO, Aerospace & Defense, Mill

- Equipment Tools Management
- Bill of Services
- MRO Maintenance, Repair & Overhaul
- Order Combi. for Prod. and Process Orders (Mill)

from Consumer Products

- SAP Direct Delivery (SDD) Last Mile Distribution
- Catch Weight Management (incl. conversion)
- Commodity Management
- SAP Agricultural Contract Management

from Utilities

- Asset Operations and Maintenance
- Meter Logistics and Operations Services
- Intelligent Meter Reading Processing
- Bill to Cash for Energy Prosumers
- Credit and Collection Management
- Customer Interaction Center

from Oil & Gas

- Hydrocarbon Product Management
- Trader's and Scheduler's Workbench (TSW)
- Joint Venture Accounting
- Retail Fuel Network Operations
- Secondary Distribution Management

from Retail & Fashion / Wholesale

- Master Data Management for Merchandising & Fashion
- Omnichannel Merchandise and Assortment Planning
- Pricing and Promotions
- Merchandise Procurement
- Demand and Supply Planning
- Inventory Management and Order Response
- Store Commerce
- Planned and Production Order Management for Fashion
- Demand and Supply Segmentation
- Supply Assignment

from Banking

- Average Daily Balances
- · Amount Field Length Extension in the General Ledger
- Multi-Currency Processes and Accounting
- Error Correction and Suspense Accounting

from Professional Services

Commercial Project Management

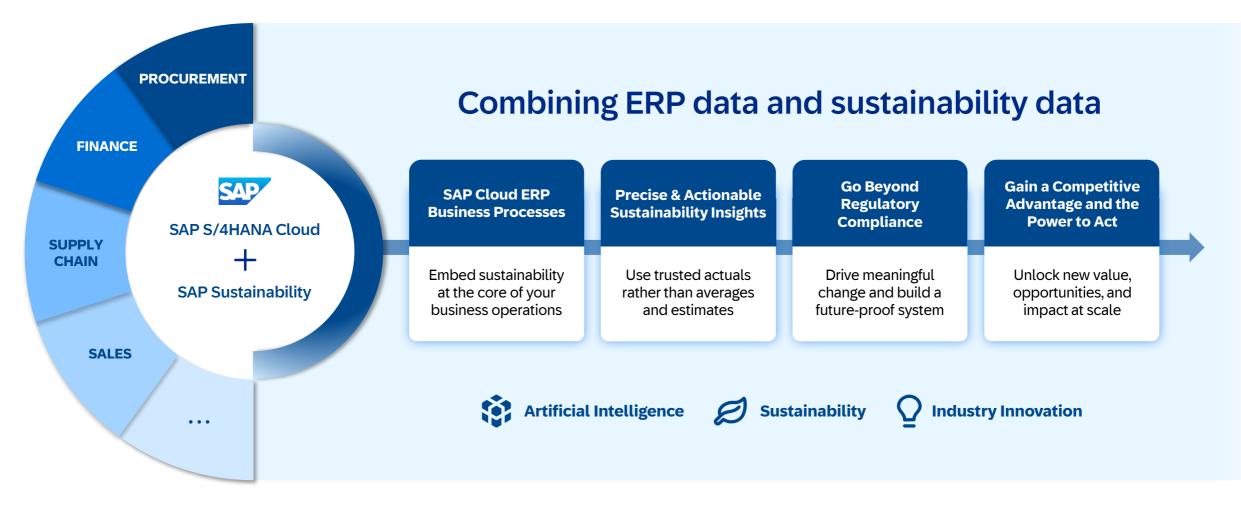
from Media

• Product Master Hierarchy



SAP Portfolio: Sustainability





SAP Portfolio: Business Processes

Gain the visibility needed to automate and innovate effectively

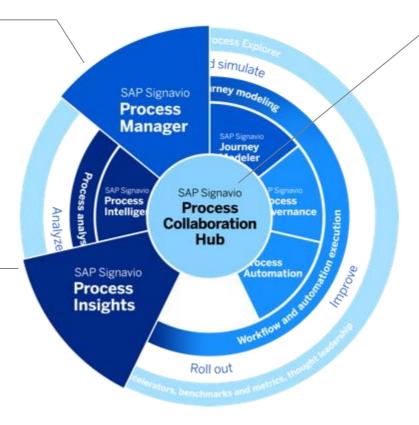


Co-create your future processes

- Collaborate with your team on improving and reinventing your processes using a single source of truth.
- Model, design, document all steps.

Identify and remove bottlenecks

- Gain instant insights into your current process performance to understand where to transform.
- Leverage recommendations to understand how to transform.

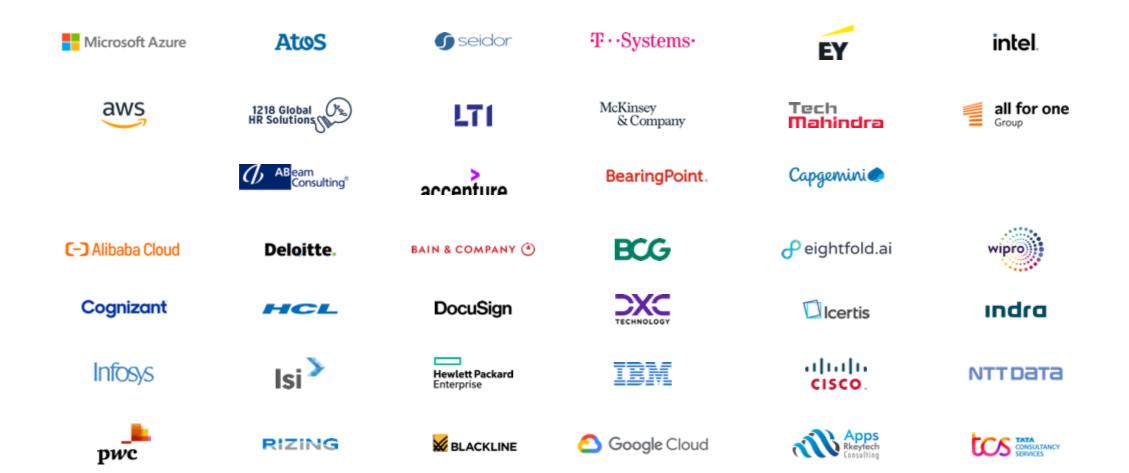


Improve your business continuously

- Provide full transparency over your processes and who is responsible for which task.
- Engage all stakeholders and create a culture of constant optimization.

SAP Portfolio: 20000+ Partner Ecosystem





SAP Portfolio: Business AI Generative AI capabilities in RISE with SAP



		Relevant	Reliable	Respons	sible	
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Cloud ERP	Supply chain management	Human capital management	Spend management	Customer relationship management	Business Technology Platform	Customized AI
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	IBM	🔿 Meta	Microsoft	HI AI	STRAL	

SAP Portfolio: Business Drive business growth with cloud ERP powered by AI



Business

Accelerate processes and optimize decisions Al-powered processes and data-driven insights and recommendations to make faster, safer decisions

People

Multiply productivity and increase efficiency Transform work through automation and simplified user experiences to drive business outcomes

SAP S/4HANA Cloud Private Edition

Modular Application Portfolio (MAP)

ر Modular Cloud LoB Solutions	 Procurement Guided buying Supplier management Business network 	Supply Chain Integrated business planning Global batch traceability Logistics business network Transportation management Extended warehouse management	Manufacturing 🛣 • Digital manufacturing	Sales (\$ • E-Commerce • Sales automation • Customer data • Marketing • Customer service	Service • Service cloud • Field service management • Customer relationship management
(f) SAP S/4HANA LoB Solutions	 Central procurement Sourcing and contract (extended) 	 Advanced warehousing Advanced transportation Advanced order promising Service parts distribution 	 Ext. Production planning & scheduling Ext. prod. engineering & operations Environment, health, and safety 		
IANA Cloud e Edition Management	 Operational procurement Sourcing and contract Supplier management Procurement analytics Invoice management 	 Inventory Warehousing Delivery and transportation Order promising Logistics cross topics Circular economy logistics 	 Production engineering Production planning Production operations/options Quality management Manufacturing insights 	 Order and contract management Sales force support Solution Business Management 	 Service master data and agreement Service operations and processes Service parts management
SAP S/4H Privat Enterprise	 Accounting and financial close Financial operations Cost mgmt. and profitability analysis Enterprise risk and compliance 	Enterprise portfolio and project management	Maintenance management	 Time sheet management Organizational structure management 	 Application lifecycle management Intelligent business processes Business technology platform Extensibility framework Custainability used triang
ھ) SAP S/4HANA LoB Solutions	 Adv. accounting, financial close Adv. financial operations Treasury management Commodity management Real estate management Subscription billing and revenue mgmt. 	 Extended enterprise portfolio and project management Product lifecycle management Product compliance 	 Resource scheduling Spatial asset management (linear asset management) 	 HR administration Time management Payroll, reimbursement and rewarding Talent mgmt. and learning management HR strategy and planning Travel management 	 Sustainability solutions Industry specifics
م Modular Cloud LoB Solutions	 Governance, risk, and compliance Multi-Bank connectivity Cash application Analytics cloud for planning 	 Enterprise product development Collaborative project management 	 Asset performance management Mobile asset management Spatial asset mgmt. (geo framework) Asset collaboration 	 Core human resources and payroll Time and attendance management Talent management Human capital analytics 	
Υğ	Finance (\$)	R&D Q	Asset Management 🛛 🔌	Human Resources 88	$Cross Topics \qquad \qquad \overleftarrow{}$

Evolution of SAP S/4HANA Cloud Private Edition

supply	Ext. Warehouse Management	Transportation Management	Service Parts Management	Adv. Variant Configuration	Stockroom Management	adv. ATP Available-to- Promise	Supply-based Confirmation	Adv. Shipping & Receiving	Greenhouse Gas Emissions in TM
make	Constraint- Based Planning	Prod. Engineering & Operations	Accelerated MRP (live)	Demand-Driven MRP	Predictive MRP	Optimized MRP	Collaborative MRP	Adv.Prod. Scheduling Board	Work Center Capacity Evaluation
design sell	Portfolio & Project Management	Product Compliance	Service Management	Direct Delivery	Sales Force Support	Solution Business	Sales Order Automation	advanced Intercompany Sales	Service with adv. Execution
finance people	Business Partner	General Ledger	Material Ledger	Commercial Project Management	Central Procurement	AI GR/IR reconciliation	Entitlement Management	HCM on SAP S/4HANA	Predictive Liquidity Forecast
foundation	SAP HANA (data base)	SAP FIORI (UX)	Intelligent Technologies	(cloud) Integration	Hyperscaler (IaaS)	SAP S/4HANA Cloud ABAP environment	RISE with SAP	2 yearly Release	Clean Core

1511	 2023

Delta Highlights SAP S/4HANA 🗇 SAP ECC

Central Procurement

(EWM)

• Extended Warehouse Mgmt.

 Product Sour Carbon Footp Service Proce Supplier Eval Catalog Buyi 	rcing print in procurement urement luation	 Advanced Available to Prom Direct Delivery Advanced Shipping and Rece Extended Service Parts Mgm Greenhouse Gas Emissions Unified Package Builder 	Demand-Driven MRP Constraint-Based Planni	tion • Sales Force Support	Advanced Execution In-House Repair with Advanced Execution Item-Based Accounting
buy	[\$]	supply	make	sell	service
• SAP HANA Database	finance • Universal Jour	design	maintai	in cross to	opics r and Developer Extensibility
and Real-time AnalyticsState of the art SAP Fiori UI	Group ReportiniCentral Financ	• Product C		-	ibility Mgmt.
 Intelligent Technologies New and updated functions Out-of-the-box integration 	 Multi-Bank Con Doc. & Reporti Financial Complete 	ng Compl. • Change R		erformance Analysis • Flexible •	pata Governance Workflow nt Scenario Lifecycle Mgmt.

Accelerated MRP (Live)

Service with

Advanced Intercompany

SAP S/4HANA Cloud Private Edition Innovation Highlights 2023





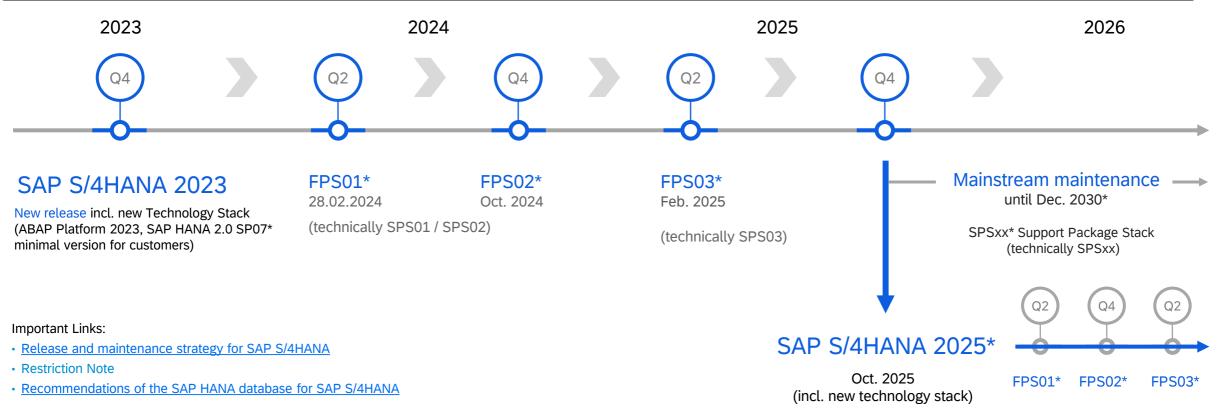
SAP S/4HANA Cloud Private Edition, and SAP S/4HANA





- Executive Summary

- [1] SAP S/4HANA 2023 released for SAP S/4HANA Cloud Private Edition and SAP S/4HANA OP with RTC on October 11th, 2023
- [2] 2 years innovation phase delivered via 3 Feature Package Stacks (FPS)
- [3] 5 years standard maintenance phase (until Dec, 2030 for SAP S/4HANA 2023
- [4] SAP S/4HANA 2025 planned for Oct. 2025
- [5] SAP will continue to support SAP S/4HANA until 2040



SAP Fiori

SAP Fiori Launchpad as **single point of entry**

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Start from an individual home page:

- Role-based spaces and pages
- Customization via dedicated apps
- First insights with KPI tiles

Domain-specific information and actions

Provide overview on business relevant data

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Investigate and drill-down from:

- Overview pages (graphical)
- Analytical list pages (hybrid)
- List report/worklist (list)

Work on a list of business objects

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Carry out transactions:

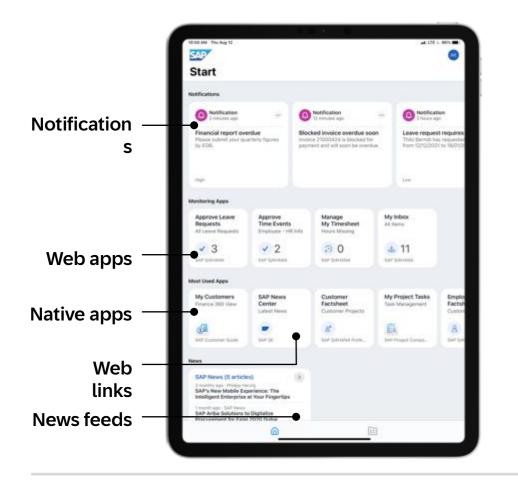
Enter details and explore in depth

- Combined in native SAP Fiori apps
- Based on insights from embedded analytics
- With the SAP Fiori visual theme

Manage individual business

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SAP Mobile Start





Native Entry Point

- Instant **mobile access** to the Intelligent Enterprise Suite
- Native launchpad to access **native and web apps** mobile on iOS devices

Deep UX Integration

- Spotlight search for app content
- Widgets to **monitor** important content
- Native notification to react instantly

Tailored Content

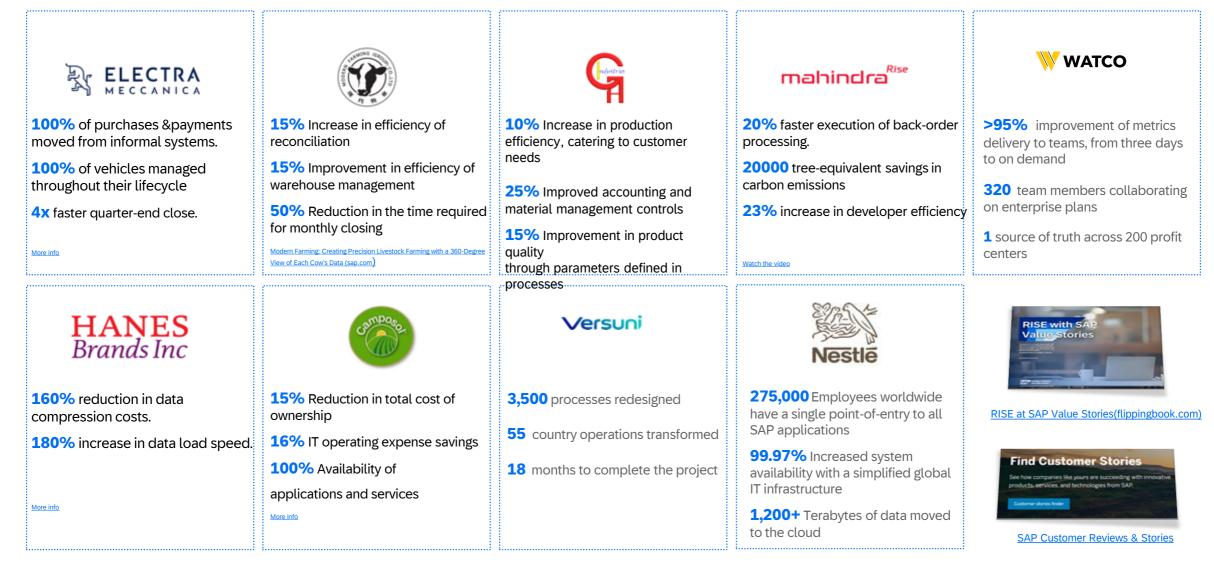
- Maximized focus on role-specific topics
 through persona-centric content
- Personalized mobile User Experience

Improve End User Productivity

Connect Anywhere

Set Up Easily

SAP S/4HANA Cloud Private Edition: Customer References



Sourcing & Procurement

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





Sourcing and Procurement: Business area overview

Modular Cloud LoB Solutions

(\$) additional license

SAP Ariba

SAP Fieldglass

Sourcing and Contract

Invoice Management

Supplier Mgmt. and

Procurement Analytics

Management

SAP Build Process Automation (iRPA)

Additional installation

LoB Apps

SAP S/4HANA

Management

Enterprise

Integrate the SAP S/4HANA hub system with multiple SAP ERP and SAP S/4HANA Central Procurement back-end systems. Optionally you can leverage SAP Ariba solutions: e.g., guided buying SAP S/4HANA capability and catalog. Sourcing and Contract (\$) additional license Management (ext.) Simplify the direct material sourcing process to increase savings on direct material spend and reduce the cost of sourcing operations Streamline the buying process by integrating automated or manual function. Support human decision making by analytical visualization embedded within transactional **Operational Procurement**

applications.

Determine the actual cost of product-based purchasing rebate agreements with suppliers.

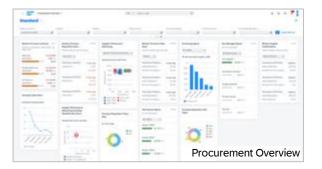
Ensure delivery of committed quantities and values. Find, negotiate, and contract the most qualified, reliable sources and suppliers efficiently.

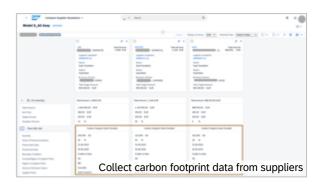
Get accurate invoices to accounts payable faster with electronic invoicing and automated verification.

Improve the invoice processing lifecycle with higher transparency and at faster rate/pace.

Gain visibility to determine the right mix of suppliers, best serve to business objectives, and reduce overall supply risk.

Reveal near-real-time insights into organizational spend, suppliers, and market information.



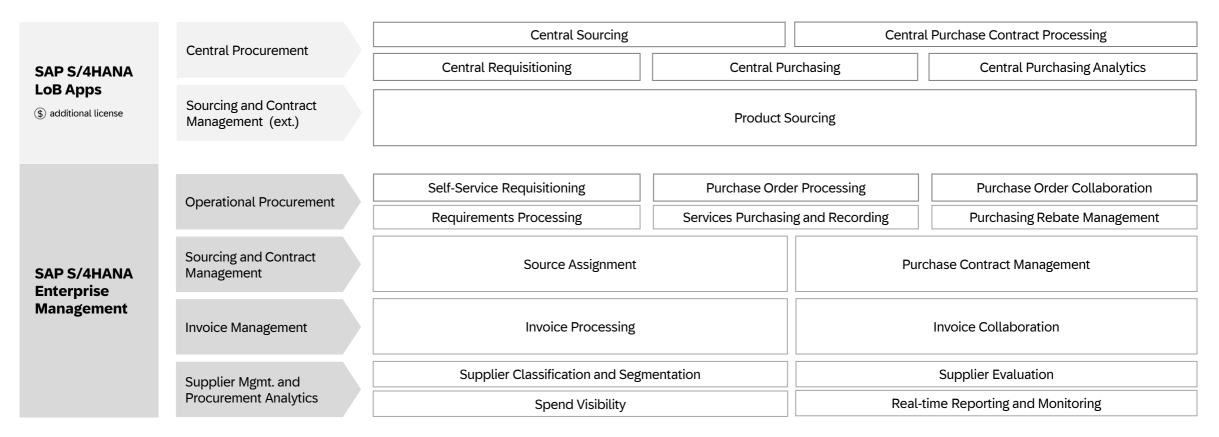


Sourcing and Procurement: Business area overview

Modular Cloud LoB Solutions

- SAP Ariba
- SAP Fieldglass
- SAP Build Process Automation (iRPA)
- ${}^{\otimes}$ additional installation

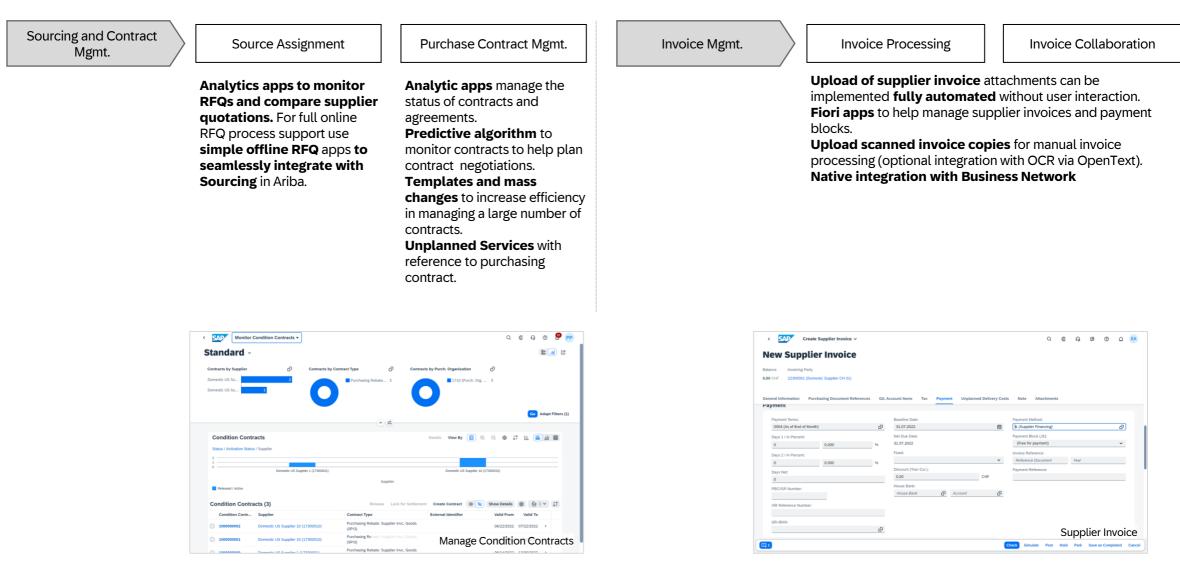
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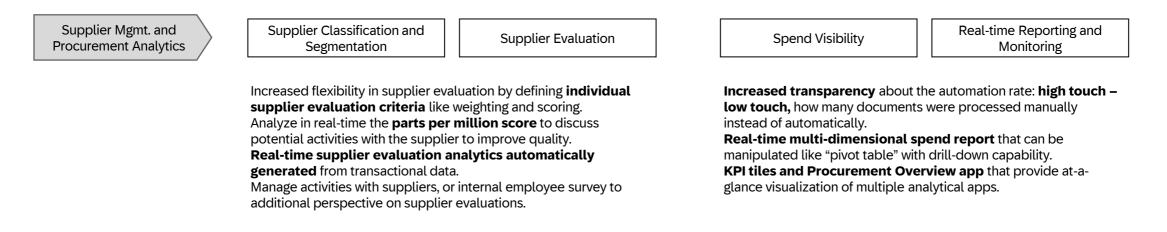
Sourcing and Procurement: Operational Procurement

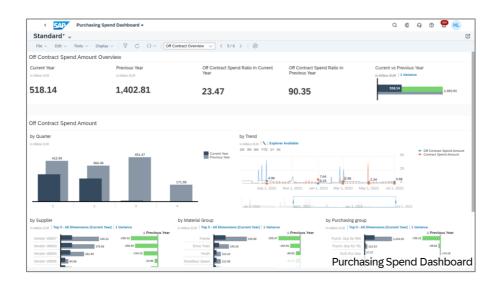
Operational Procurement	Self Service Requisitioning Consumer-grade UX and cross-catalog search enabling employees to adopt procurement processes and policies. Enhanced workflow to complete purchase requisitions. Workflow inbox Fiori app and notification center.	Purchase Order Processing Indirect and direct procurement other business areas, automatio Analytical apps to monitor the Comprehensive business proce Network. Flexible workflow enhancem POs or add tax dates. Increase quantity delivery deficit situal order Fiori app.	n and harmonized UX. e status of POs. ss integration with Business ents like maintain deadlines in ed visibility by including	Requirements Processing Control over automation and manual intervention where appropriate. Human decision making supported by analytical visualization embedded within transactional applications.	Purchasing Rebate Mgmt. Harmonized UX for both goods & service purchasing processes. Simplified limit (value- only) PO items to control over "unplanned" services and record details via Fiori service entry sheet application.		
	Services Purchasing and Recording Harmonized UX for both goods & service purchasing processes. Simplified limit (value- only) PO items to control over "unplanned" services and record details via Fiori service entry sheet application .			C Control Purchase Order Items * Detectary Temes By (2): Diplay: Camery, Order Date, Fully Delivered & Invoice Purchase Order Items United Grap United Grap	Inter (1041100) 07721/2022 Not Pyelicited 1 > Inter (1041100) Not Applicable 0 > Not Applicable C > Not Applicable C >		

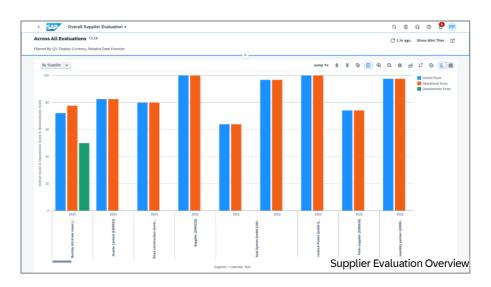
Sourcing and Procurement: Sourcing and Contract Mgmt. | Invoice Mgmt.



Sourcing and Procurement: Supplier Management and Procurement Analytics







Sourcing and Procurement: Central Procurement

Central Procurement

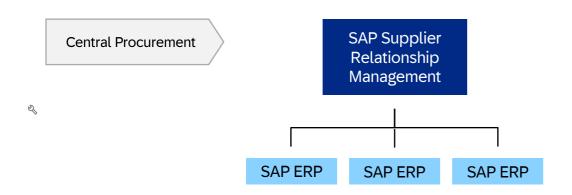
Central procurement enables integration of the SAP S/4HANA hub system with multiple SAP ERP and SAP S/4HANA back-end systems. Contract management, purchasing, and requisitioning processes can be centralized with the hub system. Optionally you can leverage SAP Ariba solutions: e.g. guided buying capability and catalog. **Central Purchase Contract Hierarchy** enables large enterprises to consolidate the requirements across various business groups. **New updated source list** in connected backend system after central purchase contract distribution.

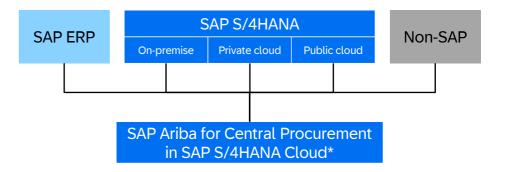
Extended functionality with **Commodity Management** (s) for Procurement and Sales processing to enable advanced commodity pricing on procurement documents and support provisional, differential, and final invoices; to create commodity sales contracts priced on market quotes, automate price calculations, and streamline invoicing. With new **Commodity Pricing** (s) capabilities, key users can apply complex pricing formulas, commodity weights, and price conditions in an easy way in **Central Procurement**.

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Sourcing and Procurement

Transformation from SAP SRM to SAP Ariba for Central Procurement in SAP S/4HANA Cloud





Centralization of procurement functions without the costs and complexities of change

Classic Scenario

- Supports multi-SAP backend installations
- Procurement backbone of every large SAP installed base customer
- End of mainstream maintenance for SAP SRM in 2025

Target Scenario

- SAP S/4HANA system acts as a central system
- Support central requisitioning, central purchase contracts, central purchasing, and central sourcing (RFQ)
- Distribution to local operational systems all SAP S/4HANA deployments or SAP ERP (starting from SAP ERP EHP 6)

Sourcing and Procurement: Product Sourcing (extended)

Product Sourcing

Extended product sourcing optimizes the sourcing process by organizing it into sourcing projects. They allow to invite suppliers, collect and compare key criteria (cost breakdowns, qualities, dates) in a detailed and structured format. 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.

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.

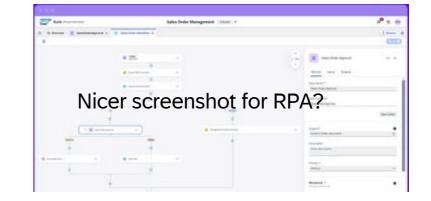
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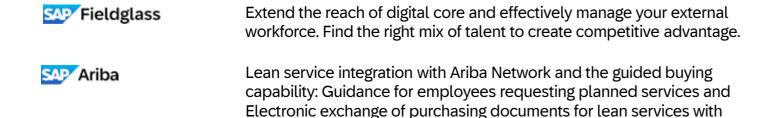
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 2 Cost Break Down Project Item 2 	Total Amount: 32M EUR	Total Amount: 32M E	JR							
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Sourcing and Procurement

SAP Build Process Automation integration with SAP S/4HANA

- Mass Confirmation of Purchase Orders (48K)
- Manage Catalog Items from Excel (529)
- Create Purchase Requisitions from Excel (48M)
- Mass Creation of Business Partner (4MZ)
- Business Partner Master Data Check (4FB)
- Mass Maintenance of Quality Info Records (6NX)
- Manage Source Lists from Excel (4TK)
- Manage Purchasing Info Records from Excel (4W3)

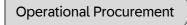




suppliers on Ariba Network



Condition Contract Settlement via Settlement 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

Settlement

Settlement Doc.

Full support of business volume related scenarios

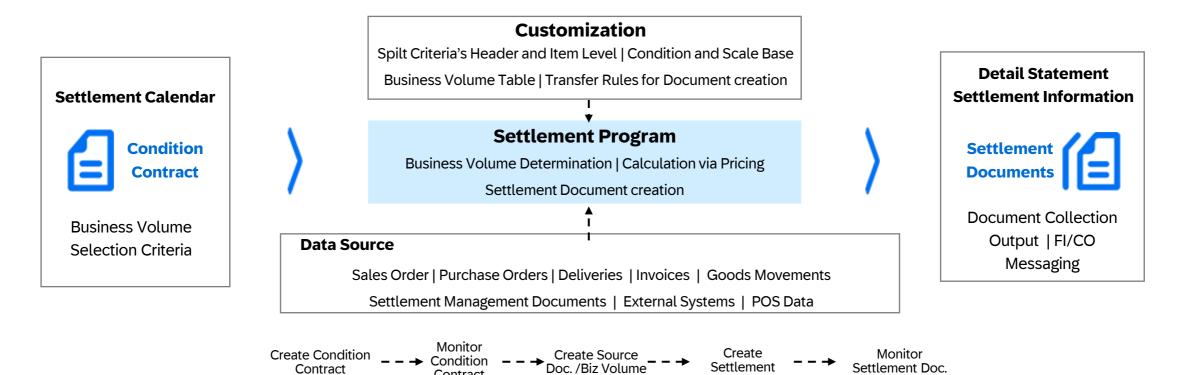
Condition

Contract

Calendar based settlement

Contract

- Accrual conditions can be defined independent from settlement conditions
- Intuitive data entry of settlement information with full transparence of involved documents ٠

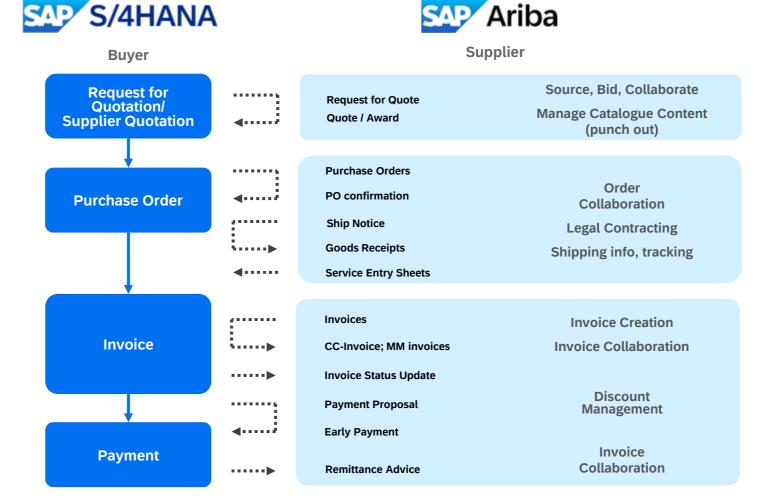


Sourcing and Procurement: **Out-of-the-Box Integration** SAP Ariba - Example integration scenarios

- 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/SAP_FIELDGLASS_INTEGRAT ION/ce64fd359a2248a08e04b92fdf5b6cce/e0e648df3148 49cc872c96b996df6e65.html - S/4HANA documentation

https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/754a46a305c642559f21625ca2744170/593e4f5 6c10fc74ee10000000a44147b.html



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Sourcing and Procurement: Delta Scope Highlight 2023 Mass creation/change of model product specifications

Purchase Contract Management

- Model product specifications are used for engineered services processes, where often mixed hierarchies of products and services need to be procured. Example: construction services.
- Model product specifications can be defined as templates and (since release 2022) copied into purchase contracts. There, procurement-related data is being added to the engineering-focused structure.
- Mass creation/change of model product specifications, based on spreadsheets, is now possible with up to five levels of item hierarchies, comprising products and/or services and free text.

Benefit

• Easy maintenance and re-use of to-be-procured hierarchical structures



Manage Model Product Specifications

	SAP M	odel Product Specif	fication \sim		All 🗸	, S	earch		Q			¢	AH
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0) 3 佰		Yes	Finishing						>			
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1000320

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Total Amoun

1,06M EUR

the items that are sourced through sourcing projectsSuppliers provide carbon footprint information at the item

Sourcing manager requests carbon footprint information for

Sourcing and Procurement: Delta Scope Highlight 2023

Manage carbon footprint data from suppliers during direct material sourcing

SAP

Model X AC Assv 10007649

Compare Supplier Quotations

- level through their quotations
- Sourcing manager can compare carbon footprint information submitted by multiple suppliers to choose carbon conscious suppliers for award decisions

Benefits

Product Sourcing

- Ease collecting scope 3 emission information during the sourcing process directly from suppliers
- Increase visibility to carbon footprint information during the sourcing process to help organizations to choose carbon-conscious suppliers

01

FPS0+1 Carbon Footprint Data

Create V Display Currency: EUR V Selected View: Carbon Footor... V

in Sourcing Projects

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Total Amoun

1,14M EUR



1

Total Amount

988.000... EUF

Sourcing and Procurement: Delta scope summary



Central Procurement	Product Sourcing (extended)
 Material group recommendation based on machine learning algorithm analyzing matching demands in previous backend purchase orders Mass change of standard fields in centrally managed purchase requisitions using a dedicated SAP Fiori app in online mode (not spreadsheet-based) Configure inquiry steps within the approval workflow for centrally managed purchase orders: Central Requisitioning: Guided buying with replication before approval (FPS2) Parked supplier invoices in document flow of central purchase requisitions (FPS2) Searching of central contracts based on backend outline agreement numbers (FPS2) On-hold support for centrally managed purchase orders and requisitions (PFS2) 	 Collecting and managing carbon footprint data from suppliers Product sourcing overview page Mass management of sourcing-project line items using a standard Microsoft Excel template Initiation of negotiations or awarding scenarios directly from the quotation-comparison application Situation-based notification of submitted supplier quotations Information accessibility for sourcing project contributors (FPS2)
Self-Service Requisitioning / Requirements Processing	Supplier Evaluation
 Integration of the Storage Location field into self-service purchase requisition and derivation of delivery address from it Inbound interface for supplier confirmations within a single, central system referencing purchase orders that reside in the connected systems 	Support for the factory calendar in supplier evaluations for accurate and comparable evaluation results
• Extension of Copy to Other Items action : GL account, goods recipient	Service Purchasing and Recording / Purchase Contract Management

Supply Chain

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)

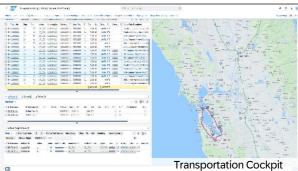


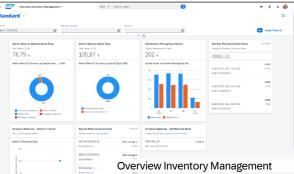


Supply Chain: Overview

Suite LOB Solutions ⓐ additional license ﷺ additional installation		hts Inceability	
	Service Parts Distribution	Plan service parts inventory accurately across distribution networks, based on parts volumes, velocity, and segments; strategically calculate trade-offs between costs and service.	
SAP S/4HANA	Advanced Warehousing Warehousing Deliver the optimal order by leveraging features like cross-docking, workforce management, slotting, inventory optimization, and support for transit warehousing as we		
LOB Apps (3) additional license	Advanced Transportation	Improve transportation efficiency by holistically managing all inbound and outbound freight.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Advanced Order Promising	Commit to orders quickly and accurately by automatically considering the relevant stock in real-time, while protecting business priorities and profitability goals.	
	Inventory	Track and control inventory and stock quantities in a transparent manner and ensure a streamlined material flow across all in and outbound logistics operations.	Net 0.857.0 0.852.0 1010000 Nampi n Nampi n Nampi n 0.355.0 March Nampi n Nampi n Nampi n 0.355.0 March Nampi n Nampi n Nampi n Nampi n
	Warehousing	<i>Store and handle</i> your goods and materials efficiently. Improve asset usage, increase throughput and support accurate on-time order fulfillment with a maximum of transparency.	
SAP S/4HANA	Delivery and Transportation	Orchestrate all delivery demands, plan and run your transports, using functionality for basic agency billing and subcontracting. Ship the right products to the right place at the right time.	() because the magnet of the stands tax. Standard - Ant* Inter the stands of the stands tax. Ant* Inter the stands of the stands of the stands tax. () () () () () () () () () (
Enterprise Management	Order Promising	Determine accurate estimates of delivery dates during order creation & changes considering material availability based on actual stock information to enhance customer satisfaction.	Date Water by fair if about type: Date with any type: if type: Date with any type: <thdate any="" th="" type:<="" with=""> Date with any ty</thdate>
	Logistics Cross Topics	Manage Batches, Serial Numbers and Handling Units to increase efficiency and improve compliance across your shipping and warehousing operations.	
	Circular Economy Logistics	Track and manage re-usable items like packaging materials or empties along their lifecycle in logistics processes to distribute responsibility and costs among the involved parties.	and a state of the







Supply Chain: Business area overview

Suite LOB Solutions (i) additional license (ii) additional installation		s eability						
	Service Parts Distribution			Extended Servic	e Parts Planning			
SAP S/4HANA	Advanced Warehousing			Extended Wareho	buse Management			
LOB Apps (3) additional license	Advanced Transportation	Advanced Transport	ation Manag	ement	Transportation Execution Monitoring			
	Advanced Order Promising	Advanced Available-to-Promise						
	Inventory	Goods Movement Inventory Ar			lytics and Control Physical Inventory			
	Warehousing			Warehouse I	Management			
SAP S/4HANA	Delivery and Transportation	Delivery Ma	nagement		Tra	ansportation	Management	
Enterprise Management	Order Promising			Available-	to-Promise			
	Logistics Cross Topics	Serial Number Management	Handl	ing Unit Management	Batch Managemen	ıt	Business Process Scheduling	
	Circular Economy Logistics	Returnable Pack	aging Logisti	cs		Empties Ma	inagement	

Supply Chain: Inventory and Warehousing

Inventory	Goods Movement	Inventory Analytics and Control	Physical Inventory	Warehousing	Warehouse Management
	Use simplified GI postings for transfer and scrapping. Experience real-time, high- volume processing using sensor data. Benefit from locking elimination and material ledger valuation. Use simplified apps for • Goods Receipt for PO • Initial entry • Goods Receipt without reference	Experience the power of simplification by using state-of- the-art analytical apps, which take full advantage of the simplified data model incl. 40- digit mat-no. and the power of the HANA database. Optimize inventory and material flows based on real-time information. Use simplified apps for • Dead Stock Analysis • Slow or Non-Moving Materials	Enable real-time reporting on your warehouse stocks and inventory. Record the physical quantities of your warehouse stocks (own stock and other stock types). Enable faster and more-efficient inventory adjustments.		Leverage embedded EWM to perform standardized inbound & outbound processing with internal movements, physical inventory and reporting in one system (master data, customizing & UX). Track alternative quantities with integrated Catch Weight Management.

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	and a real states	14.07 2023			Dry Center Columnia (USC) 40	Pick	Outbound Delivery (LR	

Supply Chain: Delivery and Transportation

Delivery and Transportation

Delivery Management

Transportation Management

Execute and confirm on transportation demands from all sources (Sales Order, Purchase Order, Stock Transport Order) in an automated fashion. Leverage electronic collaboration to accelerate the process and avoid redundancies and human error.

Leverage embedded Transportation Management to handle freight agreements and delivery-based charges as well as basic bookings, plan and carry out your transports, use functionality for basic agency billing and subcontracting as well as dangerous goods management. error.

Supply Chain: Order Promising, Logistics Cross Topics, Circular Economy

Order Promising	Available to Promise	Circular Economy Logistics	Returnable Packaging Logistics	Emptie	es Management
	Available-to-Promise: new ATP algorithm based on HANA embedded in mass component check in production. Improve percentage on-time delivery. Leverage just-in-time scenarios for inbound and outbound.	re to Ga di vo in	ack shipping and receiving of turnable packaging materials and from business partners. ain visibility in materials stribution and reduce overall olume of materials by tegrating logistics information to a single version of the truth.	business p detailed d record hig transaction returns and	oties to and from partners, capture ata, accurately h-volume ns for empties d connected
Logistics Cross Topics	Batch Management	Serial Number Management	Handling Unit Manage	ment	Business Process Scheduling
	Various industries – particularly the process industry – have to work with homogenous partial quantities of a material or product throughout the logistics quantity and value chain. Efficient management and processing of batches in all of a company's	Identify and differentiate between individual items of material Integrated with diverse processes incl Plant Maintenance, Production Orders, Sales & Distribution, Quality Management, Inventory Management & Physical inventory, Repetitive	Leverage reflect packing-ba logistics structures Optimize logistics processe track the movements of ent handling units and the mate contain rather than tracking material individually.	s and re rials they	Flexible and configurable scheduling framework that you can use to schedule logistical activities of different business processes.
	business processes.	manufacturing & Purchasing.	Balah v Appa v Senation Appa	M O D 🕷	(2007 South Rough Ten - (Not + Joint Ten age () R () Q ()
		General Manual	an Classification Plants Impectantian Heavy Charges		Courty Paralytins Solid Random Additional Information
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		Course of State	Cons: VIL,EMMS Experiences, and the Stress of Early 63.87.2015 Middlewide 83.87.2015 Middlewide	v	Additional Information
		Plants			Unicading Pulits Goods Recipient

Plants (1) Plant Plant 1 - US (1710) .

Manage Batches

Display Serial Numbers

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Supply Chain: LoB solutions

Advanced	
Warehousing	\$

Extended Warehouse Management with SAP S/4HANA supports all levels of warehouse complexity. Use the **extended functionality** of **SAP S/4HANA Warehouse Management to optimize all warehouse operations** with no data duplication and reconciliation efforts.

Advanced Transportation **Embedded Transportation Management** provides **best-of-breed functionality** seamlessly integrated into the digital core, streamlining processes and reducing the need to replicate data to a decentralized TM system. SAP S/4HANA offers modern transportation management to customers, who want to leverage **enhanced transportation** functionality. The new deployment option also allows customers to run advanced transportation management processes embedded in SAP S/4HANA removing the necessity for costly data replication and additional hardware.

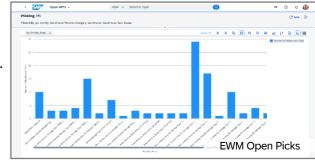
Advanced Order Promising Advanced Order Promising/ATP is a new functionality to optimize the complete Available to Promise process with simplified UI in a harmonized flow. The solution comprises Availability Check, Backorder Processing, Product Allocation & Release for Delivery.

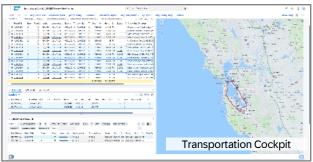
Service Parts Distribution **Extended Service Parts Planning (eSPP)** provides planning functions specific to service parts and transparency throughout the supply chain, right from the moment demand occurs through to the delivery of the product. It allows to plan inventory across a distribution network based on the part volume, velocity, segments, and other practical business rules. It further supports out of the box business process collaboration for the suppliers.

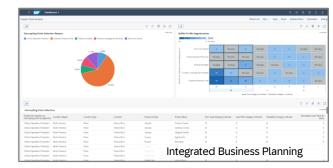
Additional Suite Solutions in Supply Chain (3)

For Superior Planning and Extended Supply Chain Functions, you can also integrate into:

- SAP Integrated Business Planning
- SAP Global Batch Traceability
- SAP Business Network for Logistics
- SAP S/4HANA Extended Warehouse Management & SAP S/4HANA Transportation Management (side by side for Hub Deployment)
- SAP Warehouse Insights

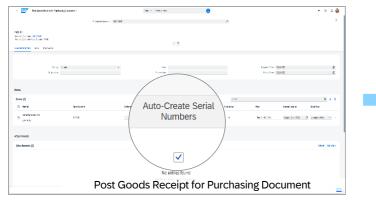






Supply Chain: Serial Number Handling in SAP Fiori applications

Inventory

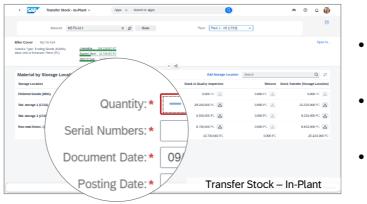


Assign (auto-created) serial number to a material during goods receipt.

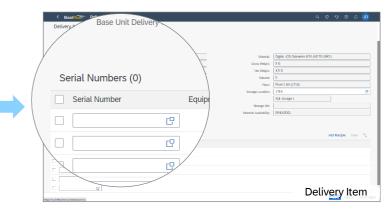
- Track a material from the very beginning of the internal logistics process
- Streamline the tracking process by creating serial numbers automatically
- Keep a **transparent picture** of the serialized materials in stock



Display a list of serialized items in stock for a particular material.

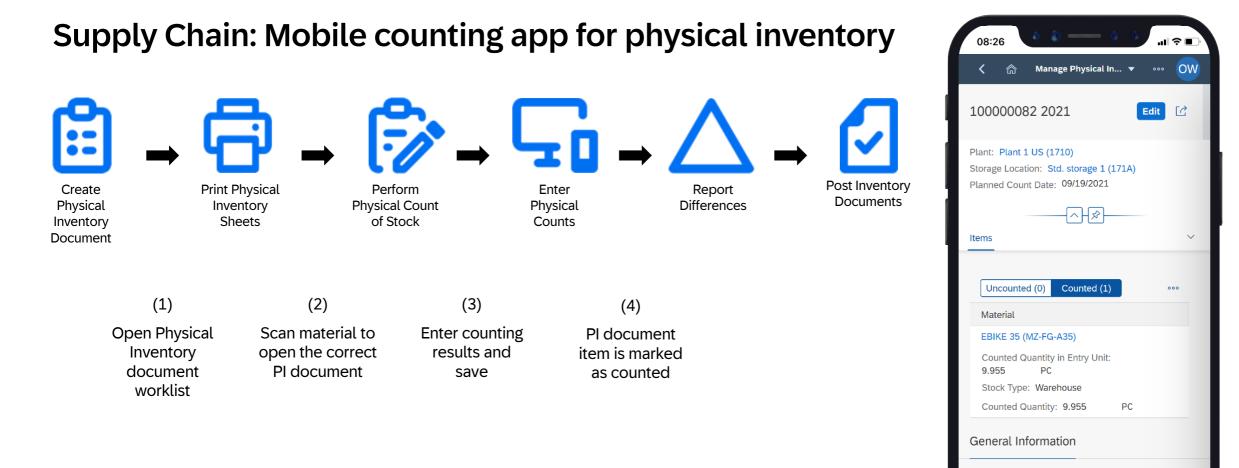


Indicate serial numbers during stock transfers within and across plants



Enter serial numbers of picked materials during goods issue process.

- Ensure that serial numbers are correctly maintained in **internal goods movements**
- Consider serial numbers **during picking** to track the material until the Goods Issue
- Track a material along the internal logistics process in a **transparent and intuitive** way



- Run physical inventory process end-to-end in one system
- Enter counting results via mobile device in the moment of counting
- Leverage device camera or external scanner for scanning the material to be counted

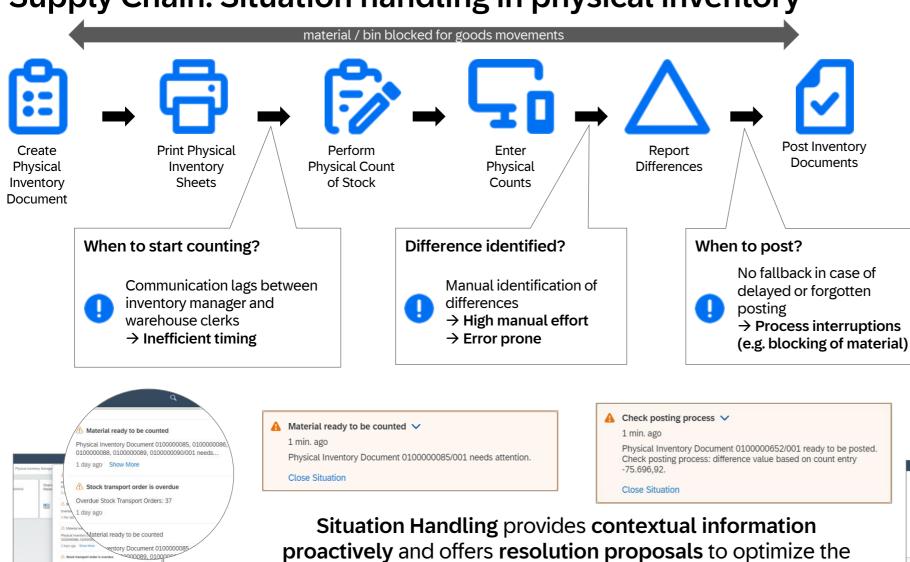
Scan

Location

Plant 1 US (1710)

Storage Location:

Plant:



critical steps of the physical inventory process.

Supply Chain: Situation handling in physical inventory



Recount

Post

Supply Chain: Analyze stock in date range

- Analyze and monitor goods movement postings for one or more materials in a defined date range
- Obtain a comprehensive analysis of all goods movements that happened within the defined date range
- Track goods movement postings based on material documents
- Pre-delivered use case—specific variants like Stock Quantity, Supplier Consignment Stock delivered for quick time to value
- Availability of all stock-identifying fields as dimensions and Additional KPIs (such as absolute and relative posting differences)
- Increased depth of analysis through aggregation and disaggregation of measures based on selected dimensions
- Scheduling of export to Microsoft Excel is now supported

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Inventory



Supply Chain: Warehouse Management Supporting all levels of complexity

Modular Cloud LOB Solutions③ additional license③ additional installation		 Leverage Decentral SAP S/4HANA EWM for High volume warehouses Independent operations, versioning, upgrad Material Flow System (MFS) 	ades	High Volume fulfillment Center
SAP S/4HANA LOB Apps (§ additional license	Extended Warehouse Management	Optimization (e.g., Slotting)YardInbound Process Optimization (e.g., Deconsolidation)ValueOutbound Process Optimization (e.g., Waves)KittiLabor Management (incl. Processors, Shifts, Time & Attendance, Travel Distance, Standards, Tracking andInte	terial Flow Control rd Management g., TU handling, DAS) lue Added Services ting oss Docking arehouse Billing egrated Load Planning proved Package Builder & Stock nsolidation st-in-Time (JIT) processes	Optimize warehouse operations
SAP S/4HANA Enterprise Management	Warehouse Management	 Inbound Processing Outbound Processing (incl. change of deliveries) Internal Warehouse Movements Physical Inventory ASR 	HANA with EWM: k-by-Cart FIORI App ck small quantities, multiple stomers in one run, or into same rcel) R-based basic integration with bedded TM	Transparency and control

Advanced Warehousing



Supply Chain: Advanced Warehousing Batch specific unit of measure

- SAP Extended Warehouse Management (EWM) enhanced with the ability to support batch-specific units of measures
- Batch specific unit of measure enabled to cover different warehouse processesinbound, outbound and internal warehouse processes
- Diverse scenarios supported including processing goods receipt, synchronous good receipt, quality inspection, advanced production integration, physical stock and others
- Batch specific unit of measure currently supported in embedded warehouse management scenarios

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Supply Chain: Advanced Warehousing Integration to defects and notifications in decentral EWM



- New solution to handle defects / defective parts in EWM managed warehouses or PSAs
- Record, follow-up, and analyze defects found in components during production or in products in the warehouse
- Based on both defect
 and quality notification
- Stock assignment EWM-specific postings for the defective material, for example, to blocked stock or quality inspection stock
- Follow-up actions triggering stock postings (in EWM) for one or multiple materials

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112 Demo				Complete Set in Pro	ccess Set to Not Relevant
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Description: Demo Defect Detailed Description:	Defect Code: 1 Defect Code Group:	Batch:	Cost Center:		
Varehouse Defect	OM-E Reference Number:	Plant:* Plant teWh in QM7/133 (Q f? Storage Location: Prod. Supply EWM (PSVM) f?			
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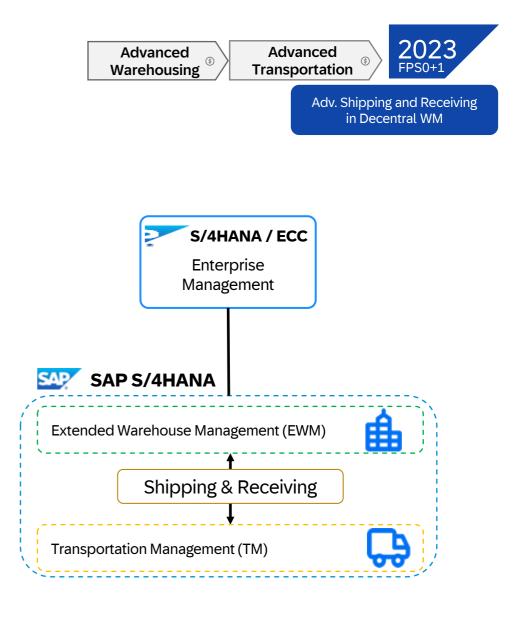
Supply Chain: Warehouse Management Advanced shipping and receiving cockpit

- Fiori based app to cater to the role of EWM clerk to support Advanced Shipping and Receiving process - support for both EWM and IM Warehouses
- Overview of multiple (un)loading points of different freight orders, indicate whether a vehicle arrives at or departs from a door
- Indicate the staging area, staging area group, staging bay and loading of the goods on stop level
- Navigation to Load or Unload app for details and actions
- Support for wave creation and Outbound "streaming" process - ability to start loading parts of a delivery even when not all pick-and-pack tasks are complete

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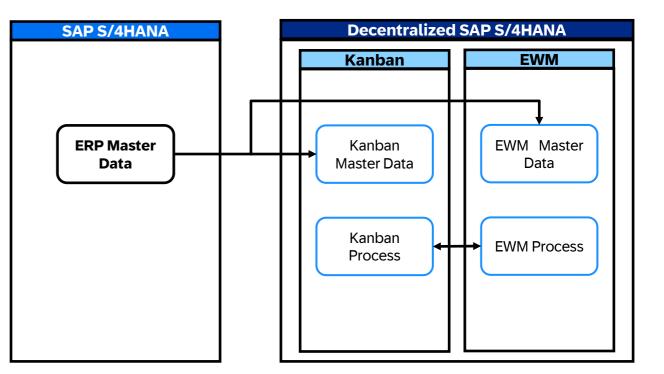
Supply Chain: Advanced Warehousing Decentral advanced shipping & receiving

- Enable Advanced Shipping and Returns process in the Decentralized SAP Extended Warehouse Management (SAP EWM) with local Transportation management capabilities
- Execute transportation logistics independently in the decentralized EWM and TM system once the deliveries have been transferred from the enterprise management system.
- Enablement of outbound delivery process leveraging the Freight Order and catering to both EWM-managed and IM-managed storage locations.
- Simplified communication between the components by leveraging the harmonized data model
- Out of box integration to to SAP S/4HANA (or ECC Ehp7+) Enterprise Management environment



Supply Chain: Advanced Warehousing Decentral EWM integration with kanban

- Simplified KANBAN framework without deliveries for decentralized Extended Warehouse Management (EWM) in SAP S/4HANA.
- Kanban to trigger replenishment requests from your warehouse and create warehouse tasks to move the products from a source storage location managed by decentralized EWM to a production supply area (PSA).
- Easy replication of data incl Kanban control cycle and Kanban event to the decentral EWM.
- Complete the replenishment by creating and confirming warehouse tasks from these warehouse requests.
- Limited to internal replenishment only.



Advanced Warehousing



Supply Chain: Warehousing Field logistics cross docking

- Reduce stockholding costs by reducing the time in storage in the warehouse
- Minimize unnecessary load transfer activities in the warehouse
- Support cross-docking in an intermediate warehouse if a vendor sends goods through an intermediate warehouse to a plant
- Support consolidating goods in an intermediate warehouse in case different vendors send goods at different dates through an intermediate warehouse to a plant
- Support for nested handling-units in cross docking
- Integrate supply and returns processing with plant maintenance, materials management, procurement, warehouse management at base, and logistics

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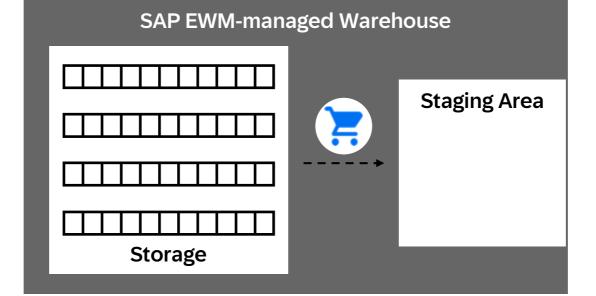
Warehousing

Supply Chain: Warehousing Integration with Asset Management (Plant Maintenance)

Warehousing

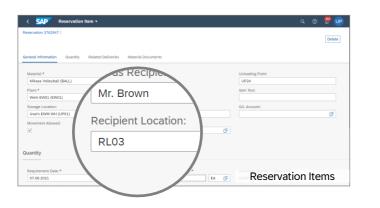
Maintenance Order / Manual Reservation





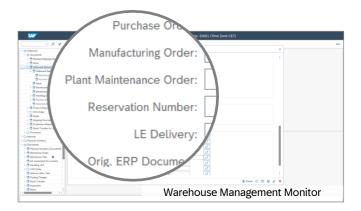
Maintenance operations using staged spare parts





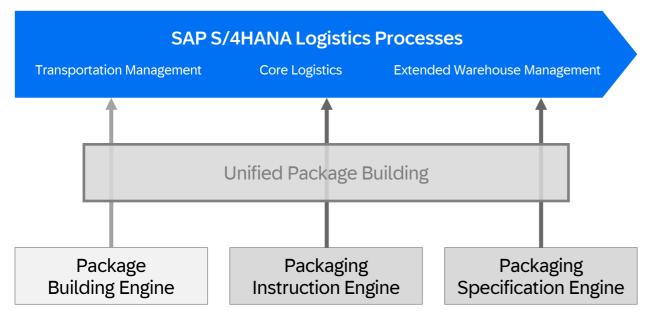
Run enterprise asset management operations that involve EWM-stored spare parts seamlessly

- Staging based on maintenance order / manual reservation
- Recipient location to determine correct staging area
- Adaption of Warehouse Management Monitor
- Unplanned goods issue with reference to PM order



Supply Chain: Warehousing 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



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Warehousing

Processes consuming UPB in 2023 release

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

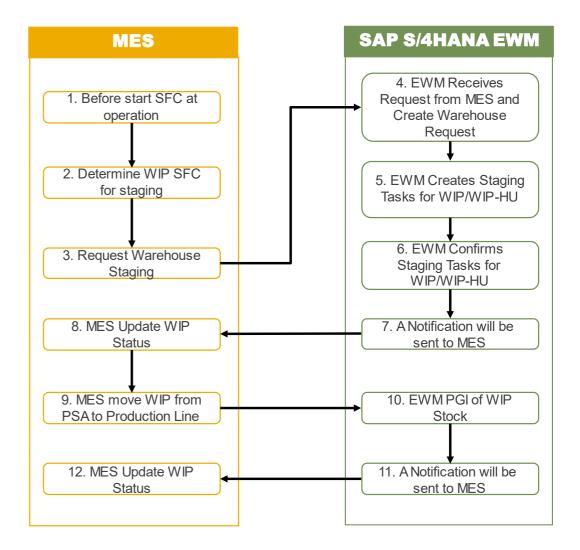
• Packing in deliveries - outbound/inbound, discrete/repetitive manufacturing, handling units from stock

Supply Chain: Advanced Warehousing

Advanced Warehousing

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



Public

Supply Chain: Warehousing

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)

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Warehouse Management

Supply Chain: Advanced Warehousing Slotting by machine learning

- 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 to and determine the three indicators of storage concept for your product. - Putaway control indicator, Stock removal control indicator and Storage section indicator
- Reduce the effort of initial setup, with lower implementation effort to derive slotting rules automatically from the warehouse setup and product master

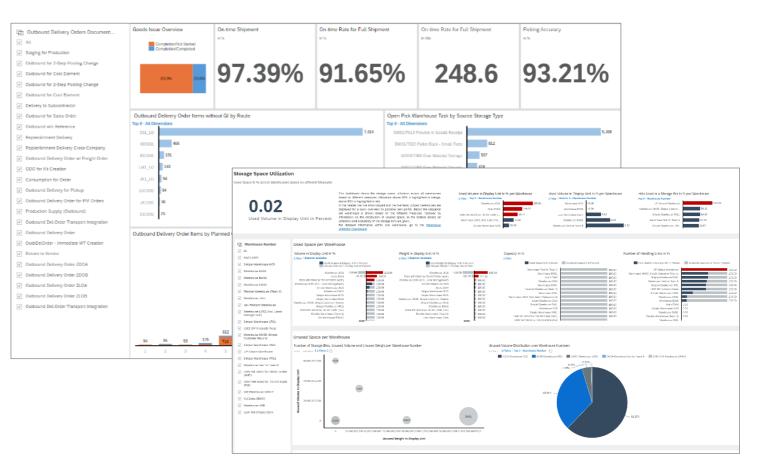
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O EWM_STKRMVL_IND_00	Supply Chain	Published	Stock Removal Indicator	Classification	04.11.2022, 15:27:12 >
O EWM_STORSCTN_IND_00	Supply Chain	Published	Storage Section Indicator	Classification	10.11.2022, 07:45:12 >
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Supply Chain: Warehousing

Warehousing

SAP Analytics Cloud (SAC) business content for warehouse management

- 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



Supply Chain: Transportation Management Supporting all levels of complexity

Modular Cloud LoB Solutions

③ additional license

additional installation

Leverage Decentral SAP S/4HANA TM for

Transportation hub approach

• Independent operations, versioning, upgrades

Enhanced Transportation Model through Hub approach

SAP S/4HANA LOB Apps (§) additional license	Advanced Transportation Management	 Strategic Freight Management Service Order Management Combined Inbound / Stock Transfer / Outbound Transportation Process Driver Management Advanced Charge Calculation Carrier / Service Billing Planning: Order and Delivery Based Planning Process Transportation Cockpit Vehicle Scheduling Routing Optimization 	 Gantt Chart Transportation Proposal Automated Carrier Selection / Carrier Ranking List Load Consolidation / Load Planning (3D Visualization) Package Building Professional Tendering Management EWM Integration (via services) Integration with Event Management Global Trade Service Descartes 	Optimize Transportation Processes
SAP S/4HANA Enterprise Management	Transportation Management	 Main Parts of the Transportation Network Freight Agreements Charge Management Separated Inbound / Outbound Freight Order / Booking Management (Delivery based) Basic Transportation Planning (POWLs / manual Freight Unit Selection) Transportation Execution without Event Management 	 Freight Settlement Management Basic Agency Billing Direct Tendering for Service Agents (Subcontracting) Dangerous Goods Management TM Output Management TM Analytics ASR-based basic integration with embedde EWM 	Shipping Transparency and Control

Supply Chain: Advanced Transportation Management Creation of inbound cargo documents based on the shipment document

- Improve operational efficiency and saving valuable time by automating the checking of delivery notes by AI technology
- Expedite the process of unloading freight by significantly reducing manual checks at the gate
- Flag exceptions in freight orders by enabling clerks in the back office to focus on handling the exceptions
- Significant reduction in the hours spent on manual checks and waiting times for trucks

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Supply Chain: Advanced Transportation Management Advanced Transportation Conversational planning in the transportation cockpit

AI-assisted planning in Transportation cockpit

FPS2

Adv. Transportation

Management

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2023

- 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

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Supply Chain: Advanced Transportation Management Advanced Transportation Greenhouse gas emissions

Greenhouse Gas Emission

Adv. Transportation

Management

2023

FPS0+1

- 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

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Supply Chain: Advanced Transportation Management Advanced Transportation Management Logistics Integration with Product Compliance

Adv. Transportation
 Management

• 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

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Supply Chain: Advanced Transportation Management Advanced Transportation **Enhanced charge calculation capabilities**

- Enhanced charge calculation capabilities through improved integration and execution processes
- Charge calculation capabilities in SAP S.4HANA Transportation Management are enhanced by enabling normalized quantity and additional normalized quantity in charge calculation & subcontracting
- Normalized quantity indicates the consumption of e.g. loading space for a transportation resource
- The additional normalized quantity can (e.g. be used to model loading meters)

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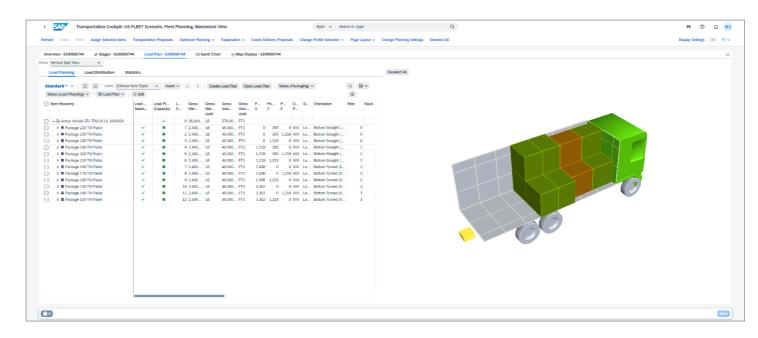
Adv. Transportation

Management

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Supply Chain: Advanced Transportation Management Advanced 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
- Enhancements for package building including support for cylindric product shapes in package building optimizers
- Maximize utilization of containers by considering various constraints such as dimensions, vehicle attributes, stacking rules, loading sequence, flexible split deck
- Enhanced optimization approaches for automatic load planning incl grid-based Rowstack for homogeneous loads and Free positioning for heterogeneous goods
- Accomplish Manual Load Planning and gain flexibility by creating Multiple Load Plan PDF Files in Batch Run



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Adv. Transportation

Management

Supply Chain: Transportation Management SAP Direct Delivery

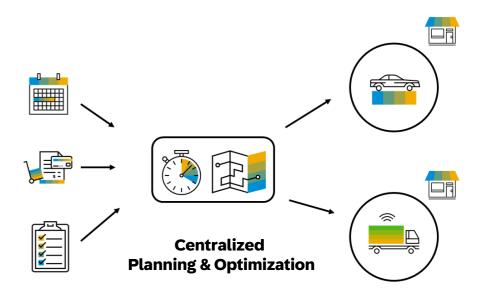
Last mile delivery

Provides planning and optimization capabilities for trucks, routes and the building of packages:

- · Considers service activities together with logistics tour planning
- Builds optimal route thanks to tour optimization engine
- Allows for fully flexible tour planning or fixed route planning

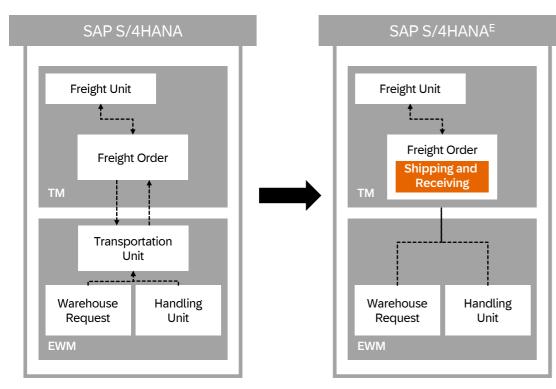
First Last Mile Delivery scenario supported:

- Delivery driver scenario in which a personal truck fleet is used to deliver pre-ordered goods to stores, vending machines, and other points of sale
- Supports combination resources, specific loading patterns as well as vehicle/combination incompatibility for e.g., side- versus backloading locations



Supply Chain: Advanced Transportation Management Warehousing Delivery and Transportation Advanced Advanced Shipping and Receiving (ASR)

Integration between SAP S/4HANA EWM & SAP S/4HANA TM



Integration based on **Transportation Unit**

Integration based on Freight Order

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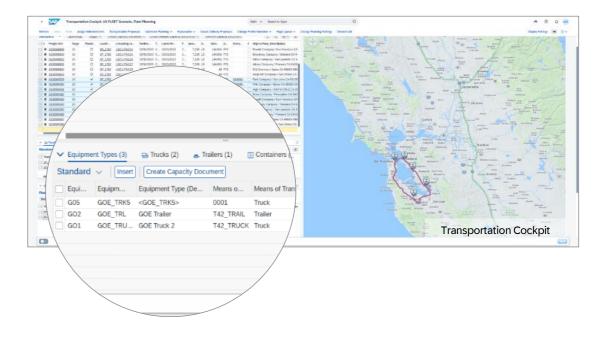
Basic integration approach for EWM and TM

- Improved TCO through reduction of object redundancy (Integration without Transportation Unit object)
- Enhanced scalability enabling high volume retail and e-commerce scenarios
- Holistic process transparency and steering through enhanced freight order UI with warehousing fields and actions
- Adapted warehouse transactions (new/extended RF, GUI and SAP Fiori transactions) for a seamless process flow
- New TM data model and objects (consignment and loading / unloading point) to bundle inbound and outbound operations (e.g., on a single truck) (\$
- Increased flexibility with new scenarios like multi-warehouse or loading and unloading from IM- or EWM-managed storage locations

^E EWM and TM embedded in one SAP S/4HANA system.

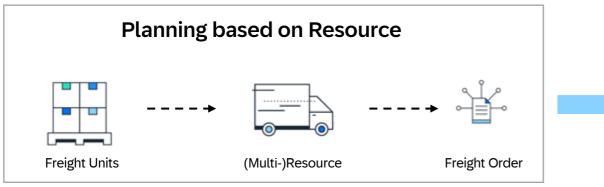
Supply Chain: Advanced Transportation Management Advanced Transportation Transportation Planning based on equipment type

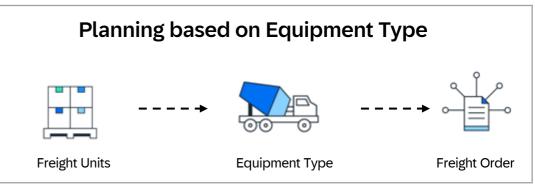
- Leverage vehicle types and transportation unit types for transportation planning:
 - Manual planning in Transportation Cockpit
 - Manual planning with Gantt Charts
 - Load Planning and Consolidation
- → Most natural approach to planning in the context of subcontracting.



Adv. Transportation

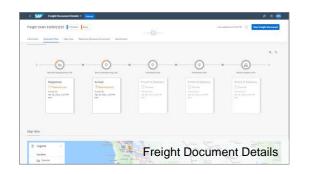
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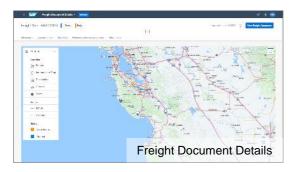


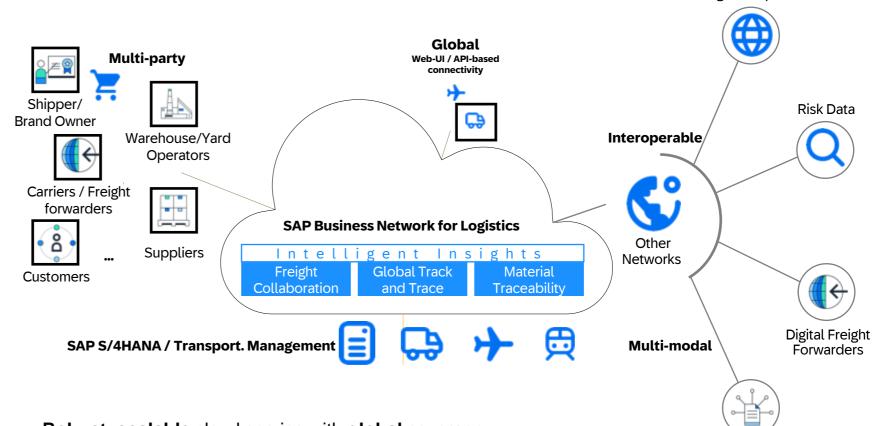


Transportation Management Integration into SAP Business Network for Logistics

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Ordering Party / Preight RFO	Remaining Time	Departure Date and Time	Arrival Date and Time	Departure Location	Arrival Location	Stops	
Best Run Palo Alto 510001125 Price: 510.00 USD Accept Automotically: Yes Freight Order: 6100004611 Accept with Change Price and Dates	3 hours 50 minutes	Aug 10, 2020, 11:34 PM PST	Aug 11, 2020, 2:11 AM PST	Palo Aito	Pescadero	5	>







- Robust, scalable cloud service with global coverage
- Connect business partners for inter-company collaboration and transparency
- Standardized services for logistics collaboration and insights

Mode and Regional Specific

Visibility

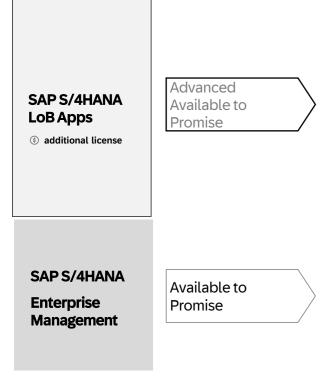
Networks

Supply Chain: Order Promising Supporting all levels of complexity

Modular Cloud LoB Solutions

(s) additional license

additional installation



Integrate with Global ATP (SAP SCM)

- Capable to promise and complex algorithms like location & product substitutions, multi-level ATP
- Backorder processing with intuitive requirement classification
- Last minute confirmation changes via Release for Delivery App
- Product allocation check for both sales
 and capacity constraints
- Intelligent and automated selection of best confirmation considering alternative plants and substitutable materials

Mass enabled fast availability check

Manual material determination

Semi-manual plant substitution

Material-/plant-based backorder

Simple transportation and shipment

processing for sales orders

Basic allocation check

scheduling

- Review Availability Check Results for Sales Orders
- Protect supply for key customers during shortages
- Advanced transportation scheduling (integration SAP TM)^R
- Supply creation-based confirmation (integration with production)^R

Order Promising Optimization





^RThis is the current state of planning and may be changed by SAP at any time without notice.

Supply Chain: Advanced Available-to-Promise overview (1/2)

Product Availability Check (PAC)

Promise what and when you can deliver accurately in real-time.

- Time phased mass enabled check (parallelization)
- Supply consideration: current and future supply elements
- Demand consideration: sales orders (SO) & stock transport orders (STO)
- Checks on plants, distribution centers, sub-locations and batch level
- Supports Product Allocations (PAL) and Alternative Based Confirmations (ABC)
- Review Availability Check Result App
- oData APIs for Product Availability
- Support Scheduling Agreements with delivery schedules (call-offs)



Back Order Processing (BOP)

Order confirmation based on business priorities and changes in the demand or supply situation.

- BOP setup- requirement segmentation and classification Win, Gain/Improve, Redistribute, Fill and Lose
- Easy to use 'select option tool' for configuring BOP segments
- Customizable filter and sorter for BOP segments
- Fiori based BOP Results Monitor
- Automated exception handling with BOP fallback variants
- Supports Product Allocations (PAL), Alternative-Based Confirmations(ABC) and Supply Assignment Run
- Support Scheduling Agreements with delivery schedules (call-offs)

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Product Allocations (PAL)

Prevent single customer from buying the entire available quantity and other requests not being satisfied.

Confirm orders against capacity constrains.

- Simple and flexible Product Allocation setup and maintenance with time dependent assignment to material / plant
- Hierarchical / sequential allocations (Logical 'OR' for PAL constraints)
- Simultaneous multiple allocation checks (Logical 'AND' between PAL constraints)
- Excel download and upload for mass maintenance
- oData APIs for importing / exporting allocation quantities from external systems
- Capacity based Product Allocations
- Easily maintain and extend the characteristic catalogs for PAL

Advanced Order Promising

ATP Analytics

Analyze and monitor Product Allocation data to understand the product allocation situation.

After Supply Assignment Run, analyze the Supply and Demand situation to take necessary actions.

In the Product Allocations Overview App.

- Drill down and analyze the product allocation situation for product allocation objects, characteristic value combinations in different periods.
- Drill down into order items and identify all consumed product allocation quantities and the order in which the quantities have been consumed

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Online Order Promising • Mass Order Processing • Manage Business Priorities • Manage Shortages • Supply Assignment • Fast Re-plan

Supply Chain: Advanced Available-to-Promise Overview (2/2)

Alternative-Based Confirmation (ABC)

Check for all possible alternatives to confirm a requirement when, for example, the availability of the requested materialplant combination is insufficient to confirm the original requirement.

- Trigger during sales order creation and/or Backorder Processing (BOP)
- Dynamic selection of alternative : Best fit vs First fit
- Multiple alternative determination rules (Max-Earlier Confirmation, Full Confirmation, On-Time Confirmation)
- Support manual selection of alternatives
- Supports partial plant substitution, additional hard constraints to limit the number of substitutes and optimize logistics processes

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Supply Assignment Run

Ensure an optimal assignment of supply to the open requirements and distribute available supply to the respective sales orders, or stock transport orders.

- Perform Supply Assignment Run for relevant materials in Backorder Processing (BOP)
- Flexibility to consider future supplies within a specified horizon, rules to sort supplies, and option to retain or delete previous assignments.
- 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

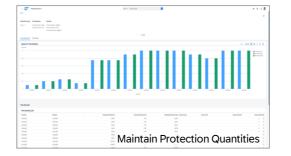
Supply Protection

Helps companies to provide minimum guarantee to priority customers in supply shortage situation.

Protect quantities of a material of a specific plant against other demands.

Supports both horizontal and vertical protection.

- · Time period enabled
- Support Scheduling Agreements with delivery schedules (call-offs)
- Support of Planning Level at Plant, Plant/Storage Location or Plant/Pool Segment level
- Option for restricting demands dependent on the remaining protection



Interactive ATP - Release For Delivery

Advanced Order

Promising

Intuitive and informative fast re-planning. Impact analysis while confirming changes.

- Visualize constraints imposed by delivery groups
- Visualize the time zone of the delivering plant
- Fiori based interactive changes to sales order confirms amounts before releasing the orders to delivery
- Impact simulation of current ATP situation
- Direct navigation to Sales Order

Online Order Promising • Mass Order Processing • Manage Business Priorities • Manage Shortages • Supply Assignment • Fast Re-plan

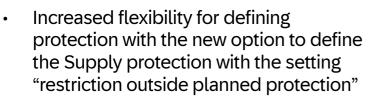
Supply Chain: Advanced Available-to-Promise Supply protection enhancements



- Ability to define supply protection at the combination of a material with a plant.
- Increased flexibility to define supply protection at lower planning levels:
 - Plant / Storage Location- relevant demands are supplied only if the demand includes the specific storage location maintained.
 - Plant/Pool segment- relevant demands are met only if the demand includes the specific pool segments defined e.g. like a certain grade quality grade of a product.

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Supply Chain: Advanced Available-to-Promise Supply protection enhancements



- Enables one to define a check for whether a demand is covered by the remaining protection of the related time bucket or whether it exceeds the remaining protection
- Newer logic helps to ensure that even lower priorities will get at least minimum quantities
- Supply protection that can be defined on the level of the material-plant combination as well as specifically for a selected storage location

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Advanced Order

Promising

Supply Chain: Available-to-Promise



Business process scheduling – enhanced support for business processes

- Business process scheduling (BPS), flexible configurable scheduling solution in SAP S/4HANA
- BPS provides a framework to define, schedule logistical activities of different business processes
- Decouple business documents (for example, a sales order in the sales order scheduling process) from a concrete scheduling application
- Supports various business processes Sales, Outbound Delivery, Stock Transport, Available to Promise
- Pre-delivered BPS schemas, which consume existing scheduling configurations based on shipping point and transportation route
- Delegation APIs for adding custom scheduling logic and accordingly calculating start and end dates of one or more scheduling activities
- Calculate all logistically relevant date types like material availability date, goods issue date, transport duration, transportation requirement routing & scheduling(TM integration), 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)

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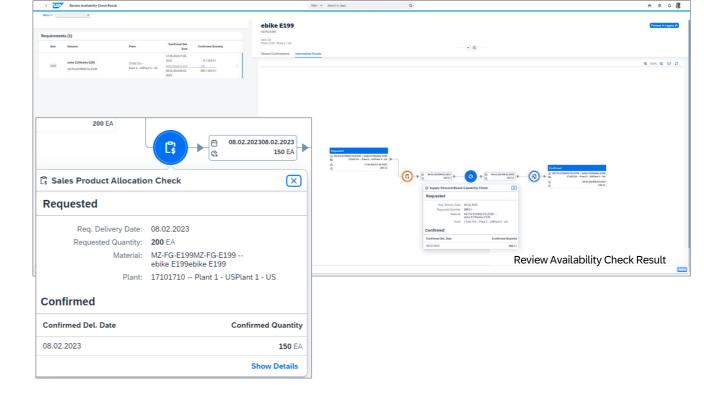
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Supply Chain: Advanced Available-to-Promise **Review availability check results**

- Review availability check results with an ٠ intuitive SAP Fiori User Interface
- Understand in detail how the system ٠ calculates a confirmation
- Visualize the path from a request to a ٠ 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
- Edit capabilities including of fixing of dates, ٠ quantities and deletion of confirmations to













Public

2023

Supply Chain: Advanced Available-to-Promise Supply creation-based confirmation

- 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, Make-to-Stock scenarios and ABC at Finished Product level
- Supports Block Planning and Characteristic Dependent Planning (CDP)

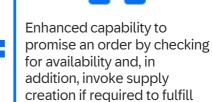
Check for the availability of a product, based on supply and demand matching algorithm in production planning

+

Process of creating new supply, invoking productionplanning tools to increase the confirmation of a request after an availability check

Advanced Order

Promising



the request

Advanced

Available-to-Promise



Supply Chain: Advanced Available-to-Promise Supported features overview in aATP and PP/DS

Advanced Order Promising ⁽³⁾ Advanced Available-to-Promise

Customers now have the flexibility to choose relevant check type

Availability Check Type	Production Planning-Based Availability Check (PPAC) with Supply Creation	Product Availability Check (PAC) with Supply Creation
Production Scenarios	Make-to-Order	Make-to-Order
FIGULCION SCENARIOS	Make-to-Stock	Make-to-Stock without fixed pegging*
	Sales Product Allocation	Sales Product Allocation
Supported Features in aATP	Capacity Product Allocation	Capacity Product Allocation
		BOP executing only PAC**
	Multilevel supply planning	Multi-level supply planning
	Finite/infinite planning	Finite/infinite planning
	Time-continuous and bucket-oriented capacities	Time-continuous and bucket-oriented capacities
	Alternative sources of supply	Alternative sources of supply
Supported Features in	Re-creation of supply elements (Make-to-Order and Make-to-	Re-creation of supply elements (only Make-to-Order) ***
PP/DS	Stock with fixed pegging)	MRP areas (of type storage location)
	MRP areas (of type storage location)	
	Redistribution of supply elements	
	Fixed pegging	 * Fixed pegging in not supported with PAC. ** Supply Creation is not triggered during BOP run, only PAC is executed. As fixed pegging is not supported with PAC. it is not possible to recreate supply elem

*** As fixed pegging is not supported with PAC, it is not possible to recreate supply elements in Make-to-Stock scenarios.

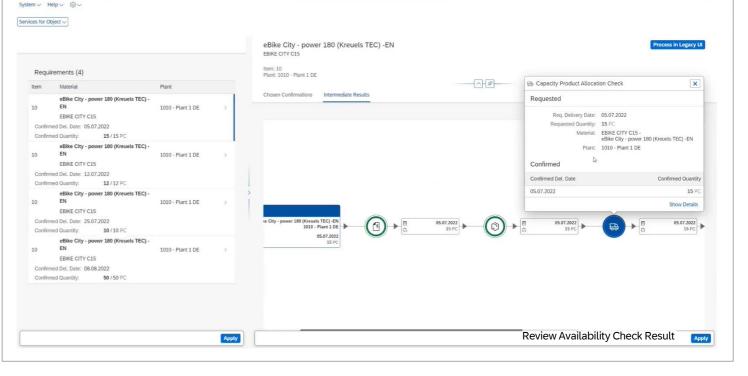
Supply Chain: Advanced Available-to-Promise

Availability checks for sales scheduling agreements with call off

SAP

Review Availability Check Result

- Sales Scheduling Agreements with Delivery Call Offs are now supported in Product Availability Check, Product Allocation, Back Order Processing and Supply Protection
- Get reliable confirmations within the context of scheduling agreements with call-offs
- Ability to execute availability checks at the scheduling line level within a line item for scheduling agreements



Advanced Order

Promising

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Supply Chain: Service parts distribution Extended Service Parts Planning



Extended Service Parts Planning

Distribution Capture & manage Inventory Forecasting **Requirements Planning** Deployment Inventory Balancing demand Planning (DRP) Determine the demands of all React flexibly to demand Plan the **optimal stock** of locations within the **bill of** Balance excess and shortage location products. Capture and manage demand changes. Determine the **distribution of** distribution (BOD), round & at individual locations. for location products to Determine the best forecast Calculate the economic goods within a BOD, and Can be scheduled as a aggregate them along the model for a location product. order quantity in decide how to distribute the generate a demand history. BOD to the entry location. periodical service or Load sales order data & stock Use stability rules to prevent combination with the safety goods and, if necessary, Create scheduling automatically triggered by stock for each location initiate this within the BOD. transfer order data. too rapid changes to the agreement releases & events. forecast model. product. purchase requisitions.

Fixed Demand and Receipt	Forecast Approval	Inventory Planning	DRP Matrix	Deployment Logs	Stocking/Destocking Approva

SAP Note <u>3343332</u> - Release information & restrictions for Ext. Service Parts Planning in SAP S/4HANA 2023 SAP Note <u>2912293</u> – eSPP Product Substitution SAP Note <u>2940185</u>- S/4HANA eSPP – IBP Integration

Supply Chain: Delta scope summary



Advanced Order Promising	Advanced Warehousing	Advanced Transportation
 Enhanced supply protection with restricting demands dependent on the remaining protection Enabling Business Process Scheduling (BPS) for Stock Transport Orders through configuration based on stock transport catalog Business Process Scheduling considers the transportation duration maintained in TM master data during scheduling of sales orders (FPS01) Flexibility for the definition of protection with the additional ability to define the supply protection at plant/pool segment level (FPS02) Integration of TM based scheduling into sales order scheduling enabling determination of accurate order promising dates (FPS02) 	 Support for Advanced Shipping and Receiving (ASR) in decentral warehouses - integration of advanced shipping and receiving processes in decentralized deployment Support for repetitive manufacturing and introduction of a simplified Kanban framework without deliveries for decentralized extended warehouse management in SAP S/4HANA Support for batch specific units of measure in the extended warehouse management (FPS01) Advanced shipping and receiving: outbound streaming, automated creation of freight orders (FPS02) 	 Greenhouse gas emission calculation for road freight including the comparison between planned and reported emissions Support for Advanced Shipping and Receiving in decentral warehouse with local Transportation management capabilities Enhancements for package building Reverse auction where the carriers can revise their bids until response deadline (FPS01) Inbound cargo documents based on Large Language Model (FPS02) Conversational planning in the transportation cockpit based on Generative AI (FPS02)
Inventory	Warehousing	Delivery and Transportation
 Enhanced barcode scanning including support for the composite barcodes based on international GS1 standard various SAP Fiori apps for to process of inventory adjustments Inventory Analytics and Control enhancements including consignment stock reporting and automating email notification to suppliers Extensibility enhancements to various inventory management related business objects 	 Automatic packing, picking, and put away of multiple handling units Enable Record Warehouse Defect app in decentral EWM on S/4HANA Handle defects / defective parts in decentral EWM managed warehouses or PSAs 	 Manage Incoterm Location as Transportation Management (TM) Location and enable better integration with SD, MM, and LE in the context of incoterms Automatic triggering of proforma customer invoices and customer invoice (FPS01)

Manufacturing

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





Manufacturing: Overview

•

•

SAP Integrated Business Planning

SAP Digital Manufacturing

SAP Analytics Cloud

Modular Cloud LoB Solutions

(\$) additional license 🔦 additional installation

.... IBP: Demand Planning

0 0 0 0

SAP S/4HANA LOB Apps	ext. Production Planning ext. Engineering & Ops (PEO) Env. Health & Safety (EHS)	 Plan and optimize production plans considering capacity constraints. Schedule and dispatch production orders to work centers at the shopfloor Engineer and manage changes for Bill of Materials (BoM), Routings, and Work Centers. Operate and provide detailed instructions for production operators and sign-off confirmations. Ensure safety and business continuity. Mitigate health and safety risks by performing risk assessments. Create safety instructions and manage incidents. 	Compared Society Ba Proc. 1991 - Rem 19 (2019) Part 1992 Part 1992 Compare 199 Compare	0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 0 0 0
	Production Engineering	Design products and resources, managing the change throughout the life cycle. Manage master data such as materials, routings, BoMs, recipes, work centers, etc.	r a řího nem	Scheduling Board
SAP S/4HANA	Production Planning	Plan products and components for internal and external procurement. Improve planning results throug memory processing with MRP live, Predictive MRP and Demand Driven Replenishment	C Strange Production Endors * 199 * Search h./pp/ Strandbard* *	۵ ۵
Enterprise	Production Operations	Control manufacturing operations for discrete, process, and repetitive industry variations and extensions, fully integrated with Supply Chain & Finance.	Observation Non-	$\label{eq:constraints} \begin{array}{c} Ourpoints and burths (21) hints that have been closed burths (21) hints that have been closed burths (21) hints (21) have been closed burths (21) hints (21) have been closed burths (21) hints (21) have been closed burths (21) have been closed by been close$
Management	Manufacturing Options	<i>Specialize</i> manufacturing models based on specific functional and industry requirements, including discrete, process, repetitive, project, outsourced, Kanban, and Just-in-Time manufacturing models.	O NAME Line Description 0 MARE 1.00 Description 0.00 0 MARE 1.00 Description 0.00 0 MARE 1.00 Defcer Note (a) (A	1 = 4 + j (1) (10) 1 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +
	Quality Management	<i>Inspect</i> production processes and goods receipts. Manage inspection lots and apply usage decisions to improve manufacturing output.	0 40000 2000 minimum 2000 minim 2000 minimum 200	Non-Bit County Non-Bit County Non-Bit County Notifier Non-Bit County Non-Bit County Note Bit County Non-Bit County Non-Bit County
	Manufacturing Insights	Analyze manufacturing data for process improvements, decision support reporting and documentation purposes. Provide alerts for exception-based management.	D annual Mr-ro-CMD Bit in: Control & Sec Tel-24.300	Production Orders

Manufacturing: Business Area Overview

• SAP Integrated Business Planning

SAP Digital ManufacturingSAP Analytics Cloud

- Modular Cloud LoB Solutions
- ③ additional license

ightarrow additional installation

	ext. Production Planning	Constraint based Planning and Scheduling
SAP S/4HANA LoB Apps	ext. Engineering & Ops (PEO)	Extended Production Engineering Extended Production Operations
(\$) additional license	Env. Health & Safety (EHS)	Environment Health and Safety Incident Maintenance Safety Change
	Production Engineering	Product Definition Product Structure Production Processes Product Infrastructure
SAP S/4HANA	Production Planning	Materials Req. Plan. Capacity Planning Prod. Scheduling Predictive MRP Demand Driven MRP
Enterprise	Production Operations	Production Control Production Execution
Management	Manufacturing Options	Discrete Process Repetitive Project Outsourced Just-in-Time Kanban
	Quality Management	Quality Planning Quality Inspection Quality Improvement
	Manufacturing Insights	Manufacturing Analytics

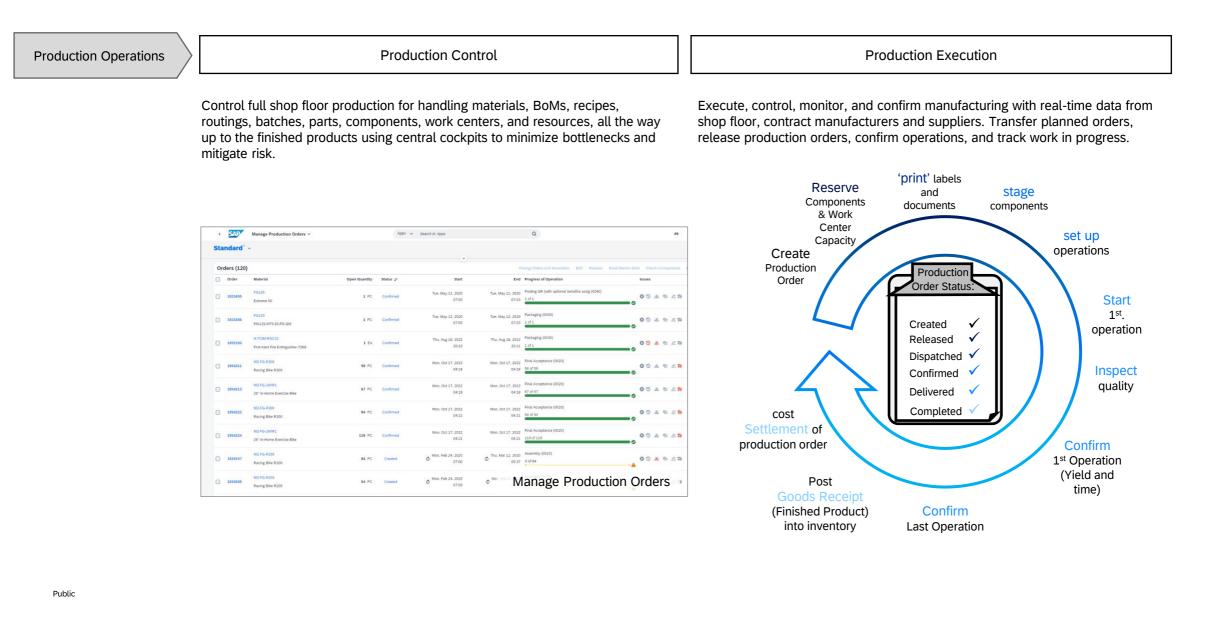
Manufacturing: Production Engineering

Production Engineering Prod	luct Definition Pr	roduct Structure	Production Processes	Production Infrastructure
Material Types [FERT] finish [HALB] semi [HIBE] oper [KMAT] confi [FHMI] prod MRP Types: [VB] cons [PD] plan [VV] forec • Lot size pro	s: hed product Define separation i finished products areas (e.g., I rating supplies Sales, Service igurable materials d. resources / tools Engineering determines to the respective sumption driven version, and / order driven cast driven pocedures parameters	s and assemblies. ma pro- prate BoMs for different da Engineering, Production, ce (ce). Re change Management for the valid BoM version for de ve date, production pro-	outings plan the operations during anufacturing activities. Operations rovide the basis for scheduling ates, capacity requirements for work enters, and material consumption. ecipes define the product rmulation process and the evelopment of manufacturing roducts.	Define work centers, production lines, factory layouts and production resources and tools (PRTs). Assign production capacity based on factory calendar and resources availability. Consider operations and maintenance plan (incl. shutdown plan).
			····· >	

Manufacturing: Production Planning



Manufacturing: Production Operations



Manufacturing Options

Manufacturing Options	Discrete	Process	Repetitive	Project	Outsourced	Just-in-Time	Kanban
	Production order- based manufacturing with reference to routings for manufacturing processes and Bill of Materials for components and sub assemblies	Manage process manufacturing with a continuous flow of fluids and bulk materials. Use recipes to control the production process.	Simplified processing in repetitive scenarios with mass processing and streamlined financial controls in periodic actions.	Control production via projects and network orders. Keep inventory in project specific stock and collect costs via WBS elements.	Replenish with self- steering control circuits. An empty bin triggers the procurement process with parameters like • number of bins in the circle • bin status (full /empty) • Kanban card (source of supply, lot size)	Deliver components and sub-assemblies directly to the production line of the customer in order to avoid inventory buffers. With just-in- sequence the assembly is delivered in sequence according the requested specifications.	 Replenish with self-steering control circuits. An empty bin triggers the procurement process with parameters like number of bins in the circle. bin status (full /empty) Kanban card (source of supply, lot size)
			\mathbf{C}		;;; }		

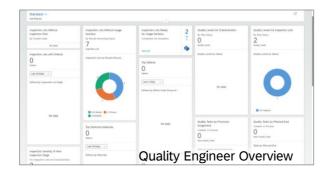
Manufacturing: Quality Management

Quality Management

Quality Planning

Quality Planning ensures the quality of products, processes, and services. During the early stages of product design and development, it is important to have the correct quality tools and to implement appropriate quality-planning strategies.

- **FMEA** (Failure Mode and Effects Analyses) prevents and avoid defects and ensure high levels of quality already in design phase.
- Use **control plans** to perform an integrated inspection planning for goods receipt inspections and during production.
- Use **inspection planning** to define inspection criteria for continuous inspection.



Quality Inspection

Quality Inspection is used to prepare, perform, and monitor quality inspections, for example, in purchasing, production, or sales scenarios.

Use **inspection lots** to perform a quality inspection. Once the inspection results have been recorded, the inspection lot is completed with the **usage decision**.

Define rules so that the system automatically determines the scope of the next inspection dependent on the latest inspection results. Use:

- results recording to enter inspection results
- defects recording to record individual defect items
- sample management for processing
- **calibration inspections** to plan and perform calibration inspections of test equipment
- **stability studies** to track and examine how different environmental conditions
- quality certificates for inbound and outbound

Record Results (9	6)				Record M.	itipla Results 🔳 Accept	ed 🔳 Open 📕 Rejec	ted 🔳 Skipped 🛞 📑) -
Inspection Let w	Material	Batch	Number of Samples	Number of Characteristics	Recording Status	Progress of Characteristics	Progress of Operations	Lot End Date	
81000000000	OM Regular		0	3	2	Open Rejected Accepted Skipped	2 Dpen Pojected 0 Accepted	0 63 Days Ago	,
170003001204	OM Regular		0	2	1	Open Rejected Pccepted Skipped	2 0 Najected 0 6	21 Days Ago)
170003000900	OM Regular		0	2	1	Open Trijiclad Accepted Skipped	2 0 Rejected 6	35 Days Ago	

Quality Improvement

Quality improvement provides tools that are the basis for improving your processes and products. You can gain better insights into your quality-related data and thereby reach your corporate quality goals. Use:

- **quality notifications** to carry out the problem-solving process including root cause analysis
- nonconformance management to correct the defects, prevent them from recurring, and trigger process tasks
- use new defect object for recording and tracking of warehouse or production related defects
- Integration with new SAP Quality Issue Resolution (BTP app) for all types of problem solving processes (customer, supplier, internal)
- **quality analytics** and quality evaluations based on inspection results or based on issue data
- **use audit management** as systematic examination for determining, evaluating, and documenting

905 Setue mar			Complete) [Set in Process] [Set to Not Relevant] (2
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Description Defect total	Detect Date.	Bash.	Cost Canas
Dehict Detailed Description	Defect Code Group Defect Types in Mech. Parts Production (201-16)	Part * 0501	0
	Kalinanja Najvjan	Tionge location	01
Affected Objects			Annia Attention Instantion Instantion Instantion Instantion
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Warebouse Info			or in Events
Vigaloona filotaan BUIS, Co-mervatori (Plant I: Welkii) (BUCD	Production Supply Area		
lisaren linnige 1999. Produktor Sappi Pal II (8733)	Mana	ge Defects	and Follow-ups

Manufacturing: Manufacturing Insights

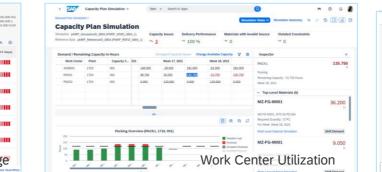
Manufacturing Insights

Manufacturing Analytics

Although analytics and reporting are typically embedded within the manufacturing business processes, see examples of specific manufacturing analytics below.

 Component List: job_today 2 MICES Plant: 1000 (Plan MRP Live Ru 0.85/ 17(TO 201 2 007 010 INFORMATION Run Histo 11132017-11242017 DA. TRUET AN 4 4 4 5 Mean values H9729 ()-PRIZE O Upper Atten Levi
 Upper Netter Unit
 Upper Naming Unit 10126 1937, MDR M, 783701 M, 783701 M, 783731 M, 7837, MDA M, 783710 CLIEFLHI O-00,787,00 Batc Display MRP Key Figures Product Component List Inspection Lot Analytics

	Electr	onics Retail & Co. (FI	D-VEND01)						
ess	Capaci Curre	ry Linit: 40 Pallet			Receiving Plant : Expected Delivery Date :	Tools Germany P (P001) 06.10.2020			Total Waight : 820, Total Volume : 850, el Order Value : 20.8
	Mat	erial List					Show : All Materials	✓ Search	Q #
	Sta tus	Material	Vendor	Next Order (in Working Days)	Guantity in Logistical Unit (PC)	Conversion Factor	Quentity in Base Unit	Time till Next Stock / Replenishment	Availability (Next 21 I
n,		Total		In 2 days	40			0 	
	۵	FIO-TOP-M3 Screened Cable M3 1,5m	Co. FIO VENDO2	1 day ago				2	
		FIO-TOP-M9 Interrupter M9	A Retail & Co. FIO-VEND01	In 3 days	1 6	1 PAL = 100 EA	100 EA 🔕	2	
on		FIO-TOP-M10 Interrupter M10	Electronics Retail & Co. FIO-VEND01	In 2 days	3 6	1 PAL - 100 EA	300 EA 🕅	3	
		FIO-TOP-M12 Slide Switch M12	A Retail & Co.	In 8 days	2 6	1 PAL = 100 EA	200 EA 🔕	5	
		FIO-TOP-M13 Processing Unit M13	Electronics Retail & Co. FIO-VEND01	In 6 days	1 6	1 PAL = 200 EA	200 EA 🖗	3	
5	۵	FIO-TOP-M2 Dattery M2 9V	8 GmbH FIG-VEND03	Optir	nal Or	der an		rial Cov	erage





additional analytics are available in the Logistics Information System (LIS)

- all components that are used for a specific product (multi-level Bill of Material)
- Material where used list for which finished product a specific component is used
- · Batch where used which component batches were used to produce a specific finished goods batch
- Missing Parts: missing components at time of production order release
- OEE Overall Equipment Effectivene
- Planned vs. actuals e.g., for resource consumption costs, time, etc.
- Capacity Utilization analyze Work Center Utilization
- Material Coverage
- Quality Analytics:
- Non-Conformance Analytics Inspection Lot Analytics
- etc.

Manufacturing: Extended Production Planning

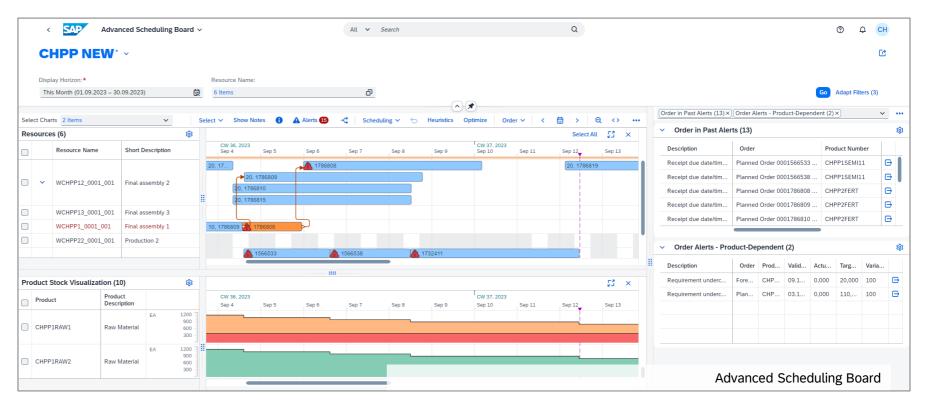


Constraint based production planning

is co-deployed with SAP S/4HANA on the same system utilizing one HANA database for production or external procurement to cover product requirements.

Perform a **visualized production scheduling** to plan critical products, such as products with long replenishment lead times or products that are produced with bottleneck resources.

In addition, use the SAP Fiori app **Create Optimal Orders for Shipment** to order several materials in one purchase order and optimize the order quantities to best utilize the capacity of the means of transport.



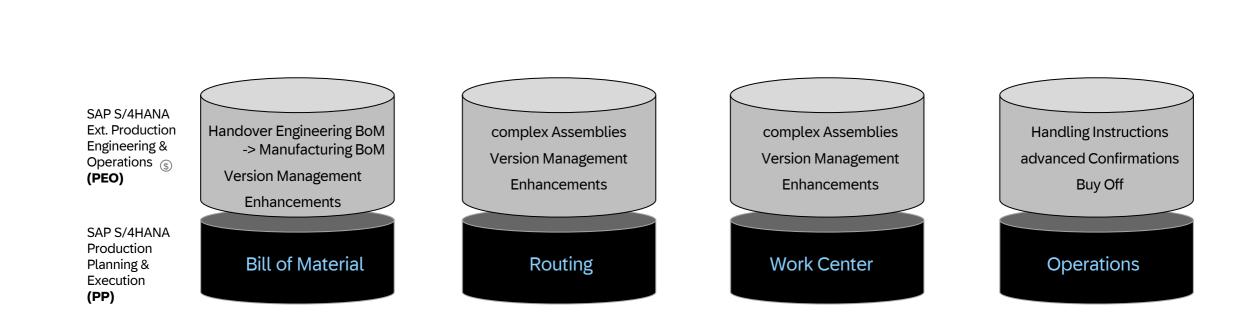
Manufacturing: Ext. Production Engineering & Operations (PEO)

ext. Production Engineering & Ops

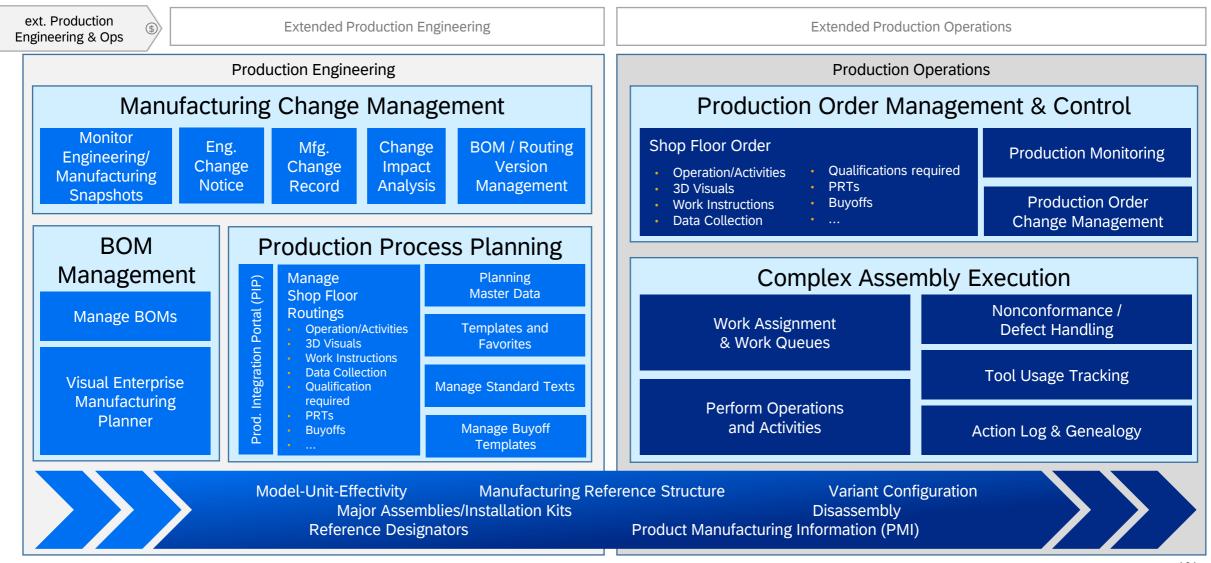
(\$)

Extended Production Engineering

Extended Production Operations



Manufacturing: Ext. Production Engineering & Operations (PEO)



Manufacturing: Environment Health & Safety (EHS)

Forecast emission data based on past emission data with the help of predictive learning algorithms and statistical methods.Manage your general and equipment related safety instructions centrally.Record EHS incidents, near misses, and observations.Control maintenance work through clear safety instructions and permits.Streamline change requests, automating the involvement of the right people to mitigate risks caused by changes to equipment, substances, operating conditions, and procedures.Manage emissions of greenhouse gas as well as other air or water emissions tof fulfill legal requirements while fostering proactive data transparency & monitoringStandardized, cost-effective approach to managing operational risksDecrease injury, illness, and incident rates, reduce EHS penalties and fines, and unplanned downtime.Control maintenance work through clear safety instructions and permits.Streamline change requests, automating the involvement of the right people to mitigate risks caused by changes to equipment, substances, operating conditions, and procedures.Detect and communicate deviations, including investigations, including investigations, including investigations, including investigations, including investigations, including investigations, and tracking follow-up activities.Manage industrial hygiene, monitoring by plan and performManage industrial hygiene, monitoring by plan and performManage industrial hygiene, monitoring by plan and performManage industrial hygiene, monitoring by plan and performControl maintenance work the right people to mitigate risks caused by changes the right people to mitigate risks caused by changes peralties and fines, and unpla	Env. Health & Safety (EHS)	Environment	Health and Safety	Incident	Maintenance Safety	Change
workplace sample campaigns and related measurements. and related measurements. and related measurements. insight into incident root causes. and enforce fully auditable procedures that promote consistent behavior.		on past emission data with the help of predictive learning algorithms and statistical methods. Manage emissions of greenhouse gas as well as other air or water emissions to fulfill legal requirements while fostering proactive data transparency & monitoring. Detect and communicate deviations, including investigations and tracking follow-up activities. Reduce risk of environmental non-compliance and	 equipment related safety instructions centrally. Prevent incidents and reduce EHS risks. Standardized, cost-effective approach to managing operational risks Minimize workplace exposures and related health impacts. Manage industrial hygiene, monitoring by plan and perform workplace sample campaigns 	 misses, and observations. Create transparency and standardization with templates, task tracking, and analytical automated reporting. Decrease injury, illness, and incident rates, reduce EHS penalties and fines, and unplanned downtime. Manage investigations, follow-up activities and improve employee engagement. Role-based analytics provide 	 through clear safety instructions and permits. Link environment, health, and safety (EHS) information to technical equipment and plant maintenance tasks. Support flexible levels of permits natively integrated with the work-order process in enterprise asset management. Automate the permit process and enforce fully auditable procedures that promote 	automating the involvement of the right people to mitigate risks caused by changes to equipment, substances, operating conditions, and procedures. Manage operational changes with thorough review , risk mitigation,

Manufacturing: Order Notes Management



Scope

- Hand-over of planning information to shop floor
- Capturing of object specific free text information in PP/DS
- Structuring of notes by usage of multiple note types
- Exchange of planning relevant information with shop floor by integration with PP long texts
- Improve information flow within and across planning departments
- Hand-over of planning information to shop floor
- Improve process flow

Product View: CHP110FERT, Planning Version 000					
353774 Planned Order Header					
Advanced Planning Notes Ass Notes (2)	Create Inhouse Prod Order Note 23 Title: Inhouse Prod Order Note Language:* English	✓ User Language	~ (Create	~
Inhouse Prod Order Note (1) Inhouse Prod Order Note - English Christian Hald on 05.05.2023, 16:46:14 Test series order	Text: B i U ↔ III II II II II Test series order		0	p	×
Planned Order Long Text (Sync) Planned Order Long Text (Sync) Christian Hald on 05.05.2023, 16:44:42 Needs to be scheduled within first shift of the			Ø,	1	×
	Create Cancel	ł.			
	Creation and administration of order notes in PP/DS	Draft updated	Save	Ca	incel

Manufacturing: Interactive Scheduling Board



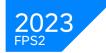
Advanced Scheduling Board

Resourc	^{es (6)} Advan	ced Planning Board 🛛 🕸																					Select All
	Resource Name	Short Description	Sunday, 30.0 00:00 0			Monday, 3 00:00	1.07.2023 08:00		Tuesday, 01.08 00:00 08	.2023 :00 1 2	21:13	Vednesday, 0:00	, 02.08.2023 08:00 1	.6:00 0	'hursday, 0 10:00	3.08.2023 08:00		Friday, 04 00:00	.08.2023 08:00	16:00	Saturday, 00:00	05.08.2023 08:00	16:00
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	WCHPP13_0001_001	Final assembly 3																					
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	WCHPP22_0001_001	Production 2									10	1755685											
	WCHPP2_0001_001	Production 1	10, 1755074	4						10, 1	75568	5											

After dragging an operation with left mouse button, calendar areas of alternative resources are highlighted in green color

Dragged operation can be dropped on one of the resources being highlighted in green color

Manufacturing: New monitoring, alerting and analytics for PP/DS



Advanced Analytics for prod. Plan. / detailed scheduling

Evaluation of production plans:

- 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)

SAP Analytics Cloud:

- Visualization content delivered in SAF Analytics Cloud
- Data extraction from S/4HANA via Live Connect and CDS views based on LiveCache
- Customer specific content in SAP
 Analytics Cloud can be defined

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	Displ	lay Horizon:*				Resource	Name:											
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Pro	oducts	(168)	\$	3				Select All	23 ×									
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Manufacturing: Enhancements in Capacity Planning



Evaluate Work Center Capacity

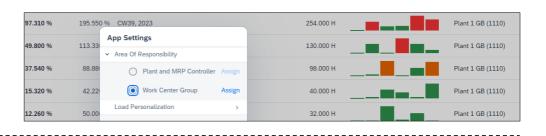
• Work Center Grouping:

Manage Work Center Capacity and work lists via area of responsibilities

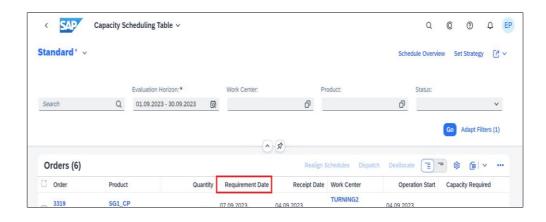
Manage Work Center Capacity:

Include Sales Order data for MTO in Operations Table

 Component availability date in Capacity Scheduling table



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Operations	Standard* ~ (All Ov	ettur								Number of Rov	ws: 12	Apply	8 6
Order	Order Category		Action	Product	Operation Start	Operation End	Operation Status	Planning Status	Capacity Require	m	Operation Qua	antity Sales Orde		es Order Iter
4000000213	Planned Order	0020	Reschedula	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	н	2	EA		
				STD ELECTRIC CAR	27.09.2023.	04.10.2023.								
1000284	PP Production Order	0020	Reichedula	Standard Electric Car	08:00:00 Europe, London	12:00:00 Europe, London	Created	Not Dispatched	40.000	н	10	EA 54422	10	
1000284	PP Production Order PP Production Order	0020	Reschedule					Not Dispatched	40.000 20.000	н	10	EA 54422 EA 54419	10	
	Order PP Production Order			Standard Electric Car STD_ELECTRIC_CAR	London 28.09.2023. 09:00:00 Europe,	London 02.10.2023, 11.00.00 Europe,	Released			н н н				



Manufacturing: Tank Planning Filling, draining, cleaning tanks with on order

2023 FPS2

- Fill the output quantity of one order into multiple storage tanks
- Drain the input quantities of one raw material from multiple storage tanks
- Select the storage tanks
- Define the quantities per storage tank
- Define the sequence of storage tanks

Intuitive User-Interface provides information on:

- Tank sizes
- Fill levels
- Storage resource alerts
- Status
- etc.

Integration to execution processes

- Process confirmation
- Goods receipt postings
- Goods issue postings

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	Displ	ay Horizon:*	÷		Resource Na	ime:								
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	>	W6546	Capacity for AR_TB01	<i>ි</i> 7 🍱 10										
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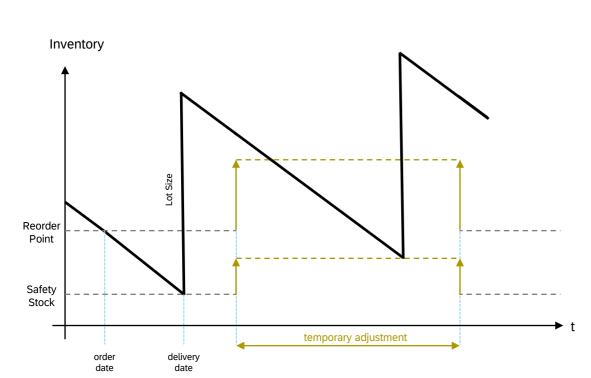
Manufacturing: Time dependent Safety Stock and Reorder Point



Executive Summary

1) Dynamic definition for Safety Stock and Reorder Point 2) Define phases for temporary adjustment of inventory levels 3) No ongoing adjustment of master data required

(Time series for previously static master data) (e.g. for campaigns or seasonal trends) (less data maintenance required)



< SAP Maintain Time-Dependent Stock >	Apps 🗸 Search in: Apps	Q		© G @	D Q 8
Standard' ~ Not Filtered	MZ-FG-R13				Edit C
Materials (49) 🕸 🖭 🗸	R13 Bike				
Material Number	MRP Plant: 1710				
MRP Area: 1710 MRP Type: PD (Forecast Consumption, No Planning Time Fence) MRP Safety Stock Method: (Static Safety Stock) MRP Controller: MZ3	MRP Type: PD (Forecast Consumption, No Plant MRP Safety Stock Method: (Static Safety Stock)				
MZ-FG-R13 > Material Description: R13 Bike MRP Plant: 1/10	Validity Intervals				
MRP Area: 1710 MRP Area: 1710	Validity Intervals (3)		Add Interval Delete In	nterval 🔳 🚍	🕸 xīs 🗸
MRP Type: PD (Forecast Consumption, No Planning Time Fence) MRP Safety Stock Method: (Static Safety Stock)	> Date From Date To Safe	ety Stock Reorder Point	Target Stock	Max. Stock	Safety DOS
MRP Controller: MZ4	03/01/2023 03/31/2023	300 PC 600 PC	0 PC	0 PC	0.00 d
MZ-FG-WL03 >	04/01/2023 04/30/2023	500 PC 800 PC	0 PC	0 PC	0.00 d
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	05/01/2023 12/31/9999	300 PC 600 PC	0 PC	0 PC	0.00 d
MZ-RM-C900-01 >					
Material Description: Frame 900 MRP Plant: 1710 MRP Area: 1710		-	Time Denend		la la sue la
MRP Area: 1710 MRP Type: PD (Forecast Consumption, No Planning Time Fence)			Time-Depend	ient Stoci	k Levels

Quality Management: Failure Mode and Effects Analysis (FMEA)



- 1) Risk Analyses for Quality Management issues
- 2) Define probability, that a specific QM issues occurs
- 3) Narrow down the effects on costs, timeline, safety, trust, etc., of the respective quality issue
- 4) Visualize and mitigate

FMEA											
Manage FMEAs	FMEA Cockpit	FMEA Monitor									
٩											

For Feature Comparison between Fiori App and existing transactions please check out: <u>SAP Help for S/4HANA on-premise</u>



Manufacturing: Advanced Scheduling Board (PPDS)



- Executive Summary

- 1) New interactive Gantt chart with flexible evaluation of planning horizon
- 2) Reschedule and realign interactively
- 3) Area of responsibility extended by work center groups

< SAP Advanced Scheduling Board ~							All	✓ Search				Q							0	а с	H		
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Dis	splay Horizon: *				Resource	e Name:																	
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	arts 2 Items		~		lect ∨	Show Note	es 🚺	Alerts 15	-C, S	Scheduling 🗸 🗧	Heuristics	Optimize Or	der ∽ <	🖶 >	Q <> ···	✓ Order in Past Ale	erts (13)						
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	Resource Name	5101	Description		Sep 4		Sep 5	Sep 6	Sep 7	Sep 8	Sep 9	Sep 10	Sep II	Sep 12		Receipt due date/tim		d Order 0	00156653		PP1SEMI1		⊖
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Product	t Stock Visualiza	tion (10)		ŵ					••••						53 ×	Requirement underc	Fore	CHP	09.1	0,000	20,000	100	E
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Manufacturing: Sales Order specific BOM and Shopfloor Routing (Engineer-to-Order Production Model)

Feature

- 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

Business Benefit

• Flexibility to implement customer specific requirements in sales order specific production model without impacting the generic CTO production model

Design Engineer	PLM Integration	EMP + 150% Production Routing Generate ETO Production Model 90% ETO m-BOM Enrich ETO Production Model 100% ETO m-BOM H Enrich ETO Production Model 100% ETO m-BOM H Enrich ETO Production Model 100% ETO m-BOM H Planned Order Production MRP + Planned Order Order Order	Production Engineer
C SAP ETO Production Model V	All 🗸 Search	9	0

			nfigurable (20 1), Sales Order: 64		1590)), ETO Production Model Ve	rsion: 1, ETO Produc	tion Model St	atus: In Proce	\$5		₩ Component assign)
TO E	BOM C	Compone	ents Standard	~	Add Add Instance D	elete Assign 1	Inassign ~	Show Assign	ment 🤅	5	Production Steps Standard V 🛞 A V 😵 Show Components Add V Delete	0
	Item I	Number	Item Category	Co	Component Description	Quantity	Op. Acti	Operation	Assign		Production Step Production Step Type	
		0010	Non-stock	2	2nd Stage Fuel Tank	1	E 0010-02	0010	-	>	✓ Rocket v159 Configurable (2682-V1590) Assembly	
		0020	Non-stock	2	2nd Stage Engine	1	E 0010-02	0010	-	>	> Hogging (0010) Operation)
		0030	Non-stock	2	1st Stage Engine Heavy	1	E 0010-01	0010	-	>	> Operation 10 (0015) Operation	>
		0050	Stock ite	2	Payload Fairing Heavy	1	E 0020-01	0020	-	>	> Fabric Manufacturing (0020) Operation	1
	>	0070	Stock ite	A	Bolt	4	E 0020-01	0020	-	>	> Operation 20 (0025) Operation	3
	>	0080	Stock ite	M.,	12 Pt Bolt	4	E OA10	0025	-	>	> Forging (0030) Operation	3
		0090	Non-stock	2	1st Stage Fuel Tank	1	E 0020-02	0020	-	>		
		0100	Non-stock	2	Reducer Ring Assy	1	E 0020-02	0020	-	>		
		0110	Stock ite	2	Payload Fairing Light	1	E 0020-03	0020	-	>		
		0120	Stock ite	2	2nd Stage Upper	1	E 0020-03	0020	-	>		
		0130	Stock ite	2	2nd Stage Middle	1	E 0030-02	0030	-	>		
		0140	Stock ite	2	2nd Stage Lower	1	E 0030-02	0030	-	>	ETO BOM Visual BOM Component Production Step	_
		0150	Stock ite	2	1st Stage Upper	1	E 0030-02	0030	-	>		
		0160	Stock ite	2	1st Stage Middle	1	E OA10	0025	-	>	^	
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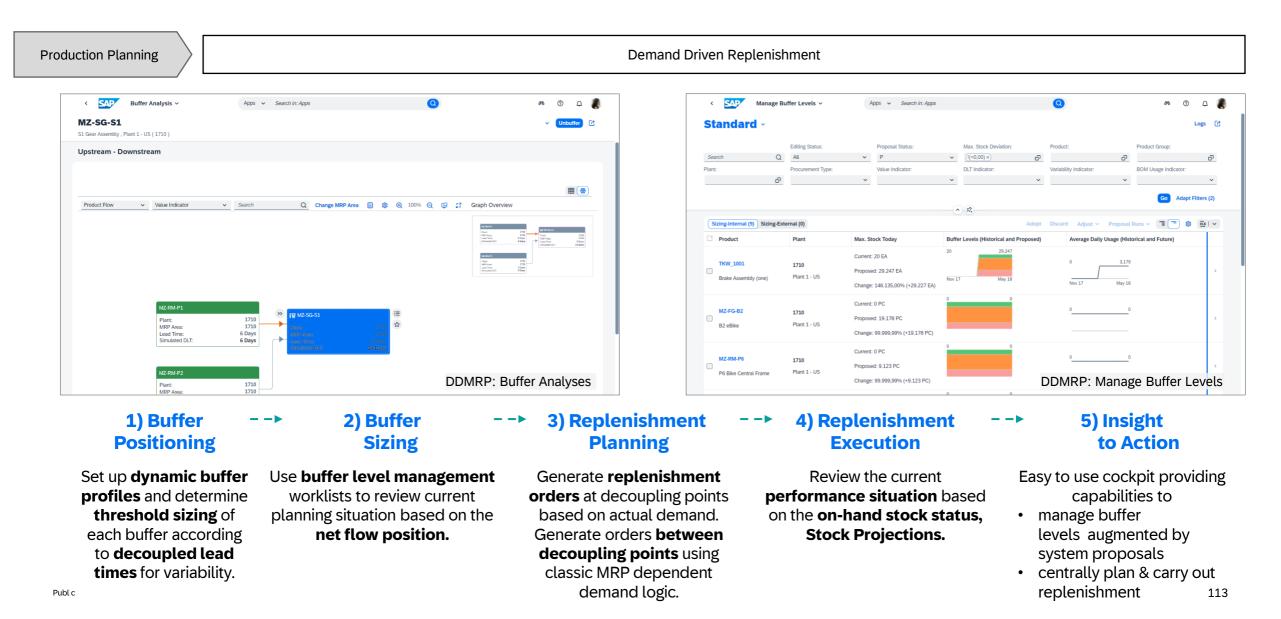
Sales Order specific BoM and Routing (PEO)

SAP S/4HANA Manufacturing: Supply Chain Integration

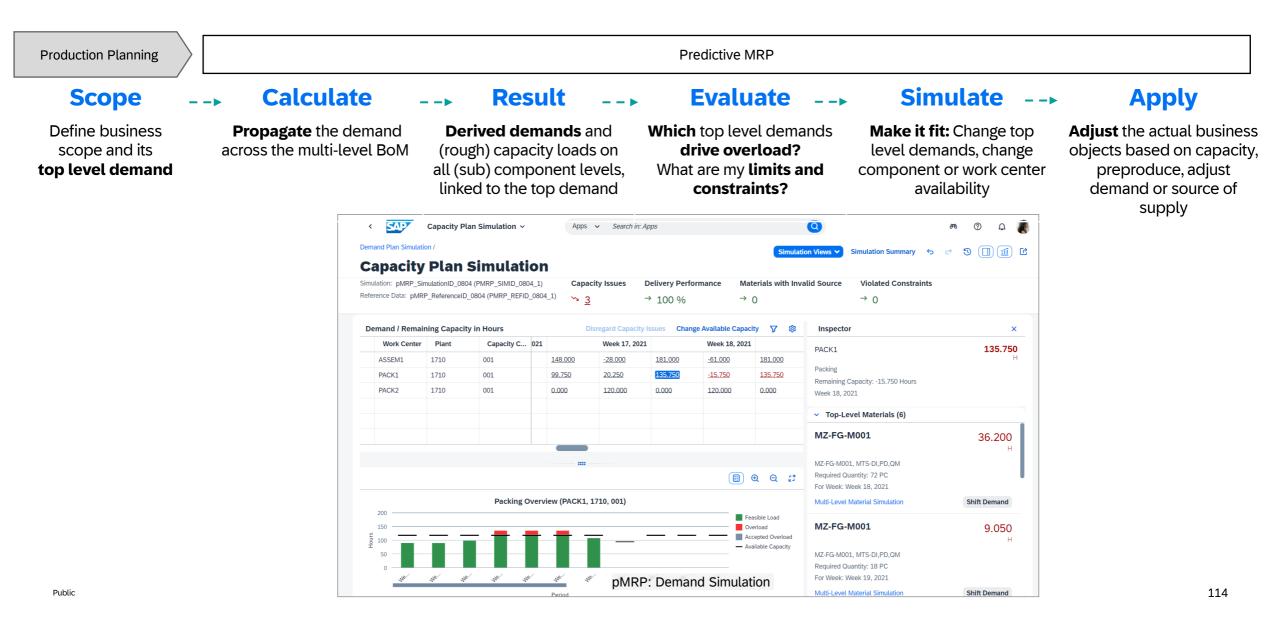
Modular Cloud LoB Solutions (\$) additional license (\$) additional installation	 SAP Logistics Business Network SAP Analytics Cloud Integrated Business Planning (IBP) Responsive manufacturing (ME, MII, QIM, VE) Production operations (MII, QIM) Extended Warehouse Management (Warehousing Hub) Extended Transportation Management (Transportation Hub) 	Digital Manufacturing Digital Supply Chain
SAP S/4HANA LoB Apps (\$) additional license	 PPDS – constraint-based planning and scheduling optimization (short term bottlenecks) Extended Warehouse Management (warehousing optimization) Transportation Management (optimization of routes, driver, freight planning etc.) Advanced Available to Promise, delivery optimization 	Manufacturing & Planning Optimization
SAP S/4HANA Enterprise Management	 MRP & Capacity Demand Driven MRP to reduce stock buffers & prioritize sales over forecast Manufacturing Operations Quality Management Inventory, Basic Warehouse & Basic Transportation Inventory 	Core Manufacturing, Integration, Transparency & control

Ν

Manufacturing: Demand-driven MRP



Manufacturing: Predictive MRP



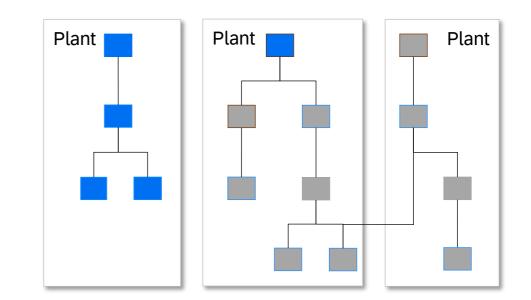
Manufacturing: Production Planning Optimizer

Production Planning (to cover net demand by creating receipts)

- 1) MRP for simple planning, i.e., without the need to consider capacity constraints
- MRP | Heuristics

PP Optimizer

- 2) PPO for constrained based planning
 - cost-based optimization (linear programming)
 - shared production resources
 - common components
 - stock transfer relations between plants
 - bucket based planning
 - improved delivery service

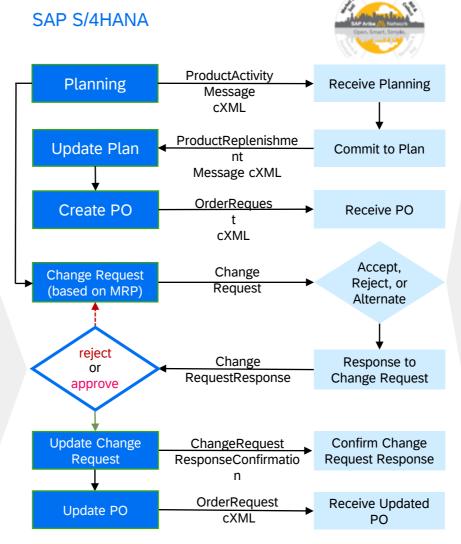


Constraints:	penalty on delay	
 resource capacity 	safety stock violations	
 stock on hand 	non delivery costs	inventory
 firmed orders 	transportation costs	carrying costs
lead time	set up costs	
safety stock	etc.	

Manufacturing: Collaborative MRP MRP change request with Supplier via Ariba Network

- Changing customer demand
- Material planner has to react on hundreds of needed changes for existing purchase orders daily
- Automation needed
- Requested by Ariba CEI:

Pu	rchase Order Sche	dule Lines (454)		Creat	Change Requests Send Cha	anga P	equerm App	ly Char	ge Requists	Decard Charg		New		sadsheet 🗸 🛞 🚰 🗸
	Purchase Order Item	Schedule Line	Material	Supplier	Delivery Date Open Quantity		Proposed D	ata	Propose	ed Quantity		None Requested		Request Response
	4500041952 10	1	2451 Test material	10300089 Inlandslieferant DE (ARB Lean Srv)	01.57.2021 10 EA	\rightarrow	11.10.2021		10	EA		08.09.2021 10 EA	Requested	
	4500041953 10	1	2451 Test material	10300089 Inlandslieferant DE (ARB Lean Srv)	01.07.2021 10 (A	->	11 10 2021		10	EA		13.09.2021 10 EA	Requested	
	4500041961 10	1	2451 Test material	10300089 Inlandslieferant DE (ARB Lean Srv)	01.07.2021 10 EA	\rightarrow	11.10.2021		10	EA		13.09.2021 10 EA	Answered	Rejected
	4500041982 10	1	2451 Test material	10300089 Inlandslieferant DE (ARB Lean Srv)	01.07.2021 10 EA	\rightarrow	11.10.2021		10	EA		13.09.2021 10 EA	Answered	Accepted
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	4500041964 10	1	2451 Test material	10300089 Inlandslieferant DE (ARB Lean Srv)	01.07.2021 10 CA	->	11 10 2021		10	EA		13.09.2021 10 CA	Requested	
	4500041965 10	1	2451 Test material	10300089 Inlandslieferant DE (ARB Lean Srv)	01.07.2021 10 EA	\rightarrow	11.10.2021	m	10	EA				
	4500042041 10	1	2451 Test material	10300089 Inlandslieferant DE (ARB Lean Srv)	01.09.2021 10 EA					EA		14.09.2021 10 EA	Requested	
	4500042042 10	10	2451 Test material	10300089 Inlandslieferant DE (ARB Lean Srv)	01.09.2021 10 EA					EA		14.09.2021 10 EA	Requested	
	4500042043 10	1	2451 Test material	10300089 Intandelieferant DE (ARB Lean Srv)	01.09.2021 10 EA					EA		14.09.2021 10 EA	Requested	
	4500042044 10	1	2451 Test material	10300089 Inforcestationary THE (Al	01.09.2021 10 LA		11 10 2021		10	24		14.09.2021 10 CA	Demosted	
	4500042045	1	2451 Test material		S/4HAN	A	: Cr	ea	te N	IRP	C	Chang	e Re	quest



sap.	Business Ne	stwork 👻 Enterprise Act	count TEST	MODE						
Home	Enablemen	t Workbench Plan	nning ~	Orders ~ Fulf	illment ~ C	Quality ~	Invoices ~ Payments	 Catalogs Reports 	~	
Wo	rkbench									
	3 Orders Last 24 Hour	Order o	259 hange reques	15	22 Changed orders		104 Order change requests Save filter	2 Items to confin Last 31 days	m	2 Items to ship
	der change re Edit filter S cept Reject		ys] [S1,+1]	[2451] [Pendin	g] [Pending]					
		Customer	Location	Order No.	Item No.	Part No.	Original Delivery Date	Customer Proposed Delivery Date	Supplier Proposed Delivery Date	G
		S4Lean - TEST	1010	4500042466	180	2451	Oct 15, 2021	Oct 4, 2021	mm/dd/yyyy	
		S4Lean - TEST	1010	4500042466	150	2451	Oct 20, 2021	Nov 2, 2021	mm/dd/yyyy	•
		S4Lean - TEST	1010	4500042466	150	2451	Oct 15, 2021	Oct 4, 2021	mm/dd/yyyy	
		S4Lean - TEST	1010	4500042466	130	2451	Oct 15, 2021	Oct 4, 2021	mm/dd/yyyy	•
		S4Lean - TEST	1010	4500042466	130	2451	Oct 20, 2021	Nov 2, 2021	mm/dd/yyyy	
		S4Lean - TEST	1010	4500042466	30	2451	Oct 20, 2021	Nov 2, 2021	mm/dd/yyyy	•
		S4Lean - TEST	1010	4500042466	30	2451	Oct 15, 2021	Oct 4, 2021	mm/dd/yyyy	
		S4Lean - TEST	1010	4500042466	140	2451	Oct 18, 2021	Nov 2, 2021	mm/dd/yyyy	
		S4Lean - TEST	1010	4500042466	80	2451	Oct 18, 2021	Nov 2, 2021	mm/dd/yyyy	•
		S4Lean - TEST	1010	4500042466	210	2451	Oct 15, 2021	Oct 4, 2021	mm/dd/yyyy	•
		S4Lean - TEST	1010	4500042466	210	2451	Oct 20, 2021	Nov 2, 2021	mm/dd/yyyy	Ħ
		S4Lean - TEST	1010	4500042466	90	2451	Oct 20, 2021	Nov 2, 2021	mm/dd/yyyy	

SAP Ariba Business Network: Order change request

Quality Management: Integration to SAP Quality Issue Resolution



Supplier

D1 – Team

Define the Team: 8D Leader, Sponsor and 8D Team Members

D2 – Problem Description

Refine the defect description and distinguish between defect description from customer and supplier. Update your defect description depending on findings

D3 – Containment Actions

Define containment actions and assign them to a task processor

D4 – Root Causes

Define root causes manually or supported by a root cause analysis method. Identify root causes with 5 Whys

SAP Quality Issue Resolution

SAP S/4HANA Quality Management

Quality Notification

D5 – Defined Corrective Actions

Customer

Define the Team: 8D Leader, Sponsor and 8D Team Members

D6 – Implemented Corrective Actions

- · Plan corrective actions in the context of an identified root cause
- Indicate the state of planning of a task by its status Implement the planned corrective actions
- Create additionally unplanned corrective actions

D7 – Preventive Actions

process

Other Sources 🚽

Define and implement preventive actions

D8 – Congratulate Your Team

Congratulate the involved team on the problem-solving

SAP Business Technology Platform

Manufacturing: Delta Scope Summary 2023



Ext. Productio	on Engineering ®	Ext. Product	ion Planning
 Production integration portal (PIP) migrate legacy external routings to shop floor Identification of reference-only comp. in a Be Production Integration Portal: create repair ro Compare As-Built with As-Planned (PEO): New app to create a comparison of a serialize with its as-planned MBOM. Order-Specific Shop Floor Routings Create and manage your order-specific shop f that are available for maintaining order-specifi Analyze Change Impact by engineering change production orders (FPS2) 	DM uting e for shop floor routing (FPS1) d product as it was actually built in execution loor routings. You can now use new features	 Notes Management Collaboration and handover between plann Integrated with PP/DS order and PP product Tank Planning for process industries: Manage Filling and Draining multiple Storage Tanks with Constraint-based production planning: new SAP Fiori app to define and manage flexible co Analytics in Production Planning and Detai new CDS (Core Data Services) views to monitor This optimizes the planning of your resources, p 	Tank as storage resource one Order (aka. 'Tank Split') advanced graphical scheduling board nstraints for PP/DS (FPS1) l ed Scheduling (PP/DS): and analye KPIs in PP/DS.
Production Engineering	Production Planning	Production Operations / Options	Quality Management
 Process Production Versions: Network Graph View for Master Recipe. Navigate in the Process Production Versions app to a network graph that represents the sequence of operations and phase relationship for master recipe. Work Center Groups: New app features the column Work Center Group Type and also supports navigation to the Manage Work Center Groups Work Center Responsibility New app defines the area of responsibility by selecting the respective combinations of plant and work center person responsible. (incl. mass maintenance capabilities) 	Manage Material Coverage:: New, modernized SAP Fiori app CoverageCapacity evaluation New SAP Fiori (Graphical Planning Board)MRP live: enablement of the simple distribution keyMRP: Time-dependent Stock levels: • Validity intervals for multiple materials • Visualization of relevant stock level valuesDemand Driven MRP: • Flexible definition of display horizons • Advanced average-daily-use calculations	 Serialization: Batch processing of multiple serial numbers from multiple production orders Internal Collaboration: Cross-domain collaboration between production engineers production supervisors shop-floor workforce Production Supervisor Responsibility New app to define your area of responsibility by selecting the respective combinations of plant and production supervisor. 	 Quality Planning and Improvement Failure Mode Effect Analysis (FMEA) for products and processes with graphical UI Quality Inspection Enablement of usage decisions for inspection lots with serialized materials Quality Improvement Defect recording with defect code determination based on business rules (BRFplus). SAP Quality Issue Resolution Supporting collaborative problem-solving processes (8D) with BTP App integrated with SAP S/4HANA QM (Q-notifications)

Sales

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





Sales: Overview

Modular Cloud LoB Solutions

- E-Commerce Sales automation
- (§) additional license
- additional installation
- Customer data

 Marketing Customer service

	Sales Force Support	<i>Manage</i> customer engagement cycles with embedded presales capabilities for lead, opportunities, and relevant tasks.	¥i fanin 10 (matiker 10 πenin)
			Condition Cant
SAP S/4HANA Enterprise Management	Order and Contract Management	<i>Ensure</i> consistent master data, including pricing across the organization. <i>Process</i> sales documents accurately and timely to maximize customer satisfaction. <i>Access</i> real-time sales performance KPIs for optimized decision making.	2
			4 Control Cont
	Solution Business Management	<i>Manage</i> an end-to-end process that spans from creating a solution quotation to delivering products of different categories, such as physical goods, one-time services, long-running services, and subscriptions.	In the second se







Sales: Business area overview

Modular Cloud • E-Commerce **LoB Solutions** Customer data ③ additional license

additional installation

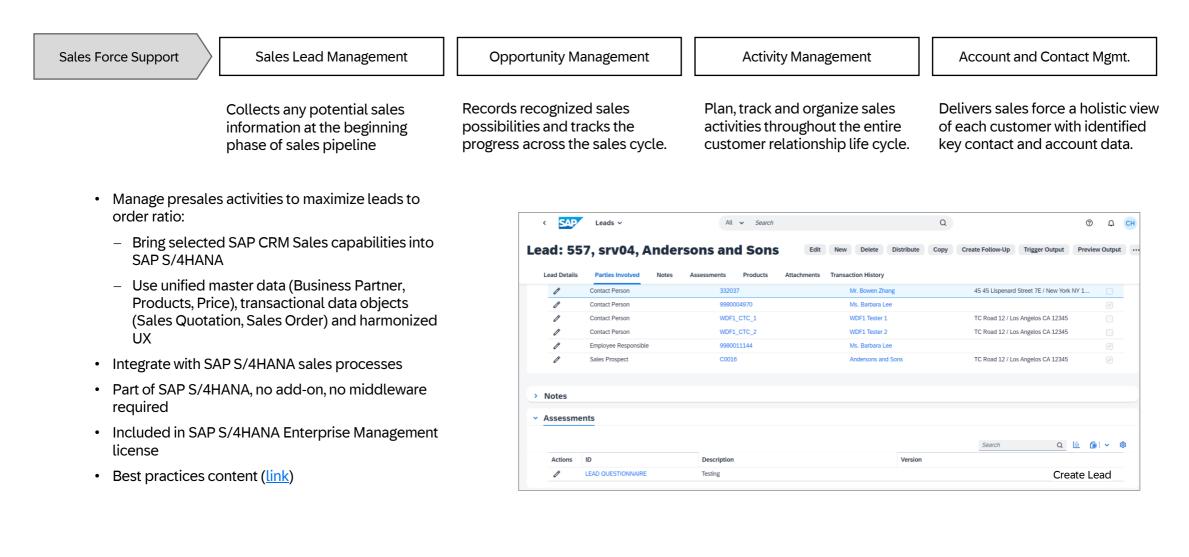
Sales automation

Marketing

Customer service

	Sales Force Support	Sales Lead Mgmt.	Орро	ortunity Mgmt.	Activity Managemen	t Account and Contact Mgmt.		
SAP S/4HANA Enterprise Management	Order and Contract Management		on Manageme	ent	Sale	Sales Contract Management er Management and Processing s Monitoring and Analytics eturns and Refund Management		
	Solution Business Management	Solution Portfo	olio Managem	ent	Solution Quotation Management			

Sales: Sales Force Support



Sales: Order and Contract Management

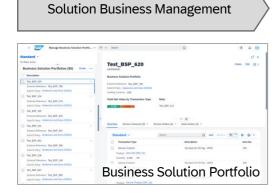
Order and Contract Management	Master Data Management & Price Management	Sales Quotation Management	Sales Contract	Sales Order Management and Processing
	Leverage simplified data models and central Business Partner approach. Create, modify, or display sales master data in a harmonized user experience. Control price master data definition and perform price calculation.	Accelerate sales cycles with integrated sales quotation management by delivering compelling sales quotations to customers and by focusing on prioritized quotations with embedded prediction capabilities for the quotation-to-order conversion rate.	Manage contract types, such as, sales contract, condition contract for Settlement Mgmt., scheduling agreement, trading contract for Global Trade Management. Use real-time and predictive analytics to effectively manage sales contracts.	Provides a 360-degree view of sales order execution. Maximize low- touch order rate, leveraging exception- based order management. Prevent overall delivery delay with embedded predictive analysis. Streamline sales processes with workflow.
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Sales: Solution Business Management

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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.

- Create business solution portfolios automatically as a follow-up transaction for a solution quotation in addition to the contracts
- Create business solution portfolio manually using the app Manage Business Solution Portfolios

Solution Quotation Management

Offer solutions to your customers by creating quotations for combinations of different types of products (such as tangible products, services, and service contract items). These combinations of products can be modeled as product bundles in master data.

- Use product bundles to sell combined products as a single package
- Accept solution quotations to create follow-up transactions
- Use the pricing for one-time charges, periodic charges, and bundle prices

Sales: Master Data Management

Business Partner Multiple Addresses Adoption in Order-to-Invoice Process

WHAT

- In SAP ECC, Customer and Vendor master data is maintained independently
- SAP S/4HANA Business Partner (BP) is the leading object and Customer & Vendor are the respective roles of the Business Partner
- Customers, who use Customer & Vendor in SAP
 S/4HANA applications shall benefit from the advantages of BP compared to customer & vendor concept, e.g., multiple addresses

Enablement of the Business Partner multiple addresses in order-to-invoice process with SAP S/4HANA 2021 release

WHY

- Business Functions:
 - BPCUSTOMER_MULTIPLE_ADDRESSES
 - Q2C_MULTIPLE_BP_ADDRESSES
- Master data migration planned for SAP S/4HANA 2021 FPS02
- SAP note: 3067314



Order and Contract

Management

Sales: Price Management 1/2

- Calculates net values in the sales process across the process
- · Can be carried out automatically or edited manually
- Key elements include:
 - Pricing procedure
 - Condition type
 - Access sequence
 - Condition record
- Available APIs:
 - Asynchronous outbound service allows the replication of condition records for pricing which are used in Sales to external systems

- Synchronous inbound service enables one to create, read, update, and delete condition records for pricing which are used in Sales
- Inbound service enables external applications to read pricing procedure data which is used in Sales
- Price Elements Flexible Analysis
- Manage Price Fiori App video

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Order and Contract

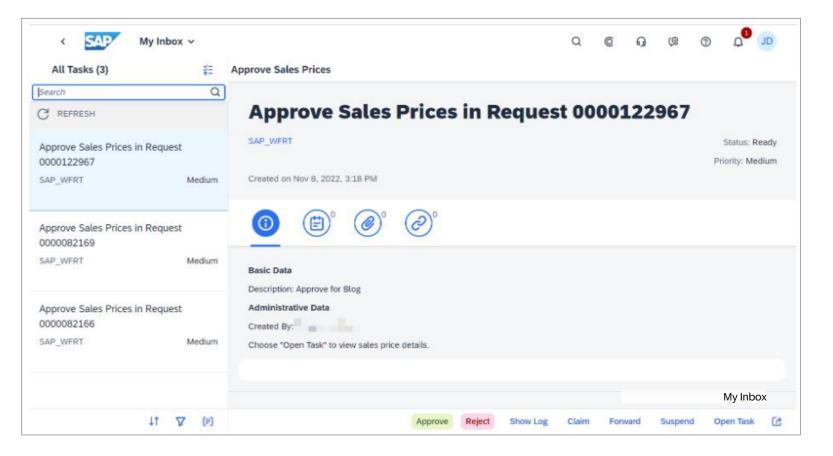
Price Management

Sales: Price Management 2/2

Approval Workflow

Configure workflows according to a company's internal guidelines on how to control and approve price changes in sales by different stakeholders:

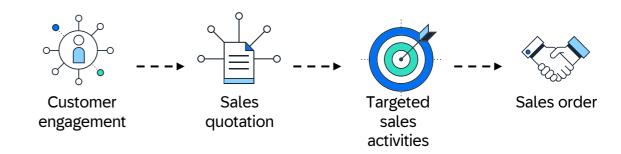
- Configure the process to trigger approval of salesprice changes
- Configure the workflow of approvals
- Define and assign responsible teams to the different approval workflows



Sales: Sales Quotation Management 1/2

- Create a quote in the system or presales system, while being accepted / rejected by customers
- Monitor incomplete quotation
- Use of approval workflow for granular control over which quote goes out to the customer
- Automatic notification of the responsible employee when a sales quotation is about to expire
- Analyze sales quotations based on flexible combinations of dimensions
- Manage duplicate quotations by comparing potential duplicate sales documents detected in the Manage Duplicate Sales Documents app

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Order and Contract Management

Sales Quotation Management

Sales: Sales Quotation Management 2/2

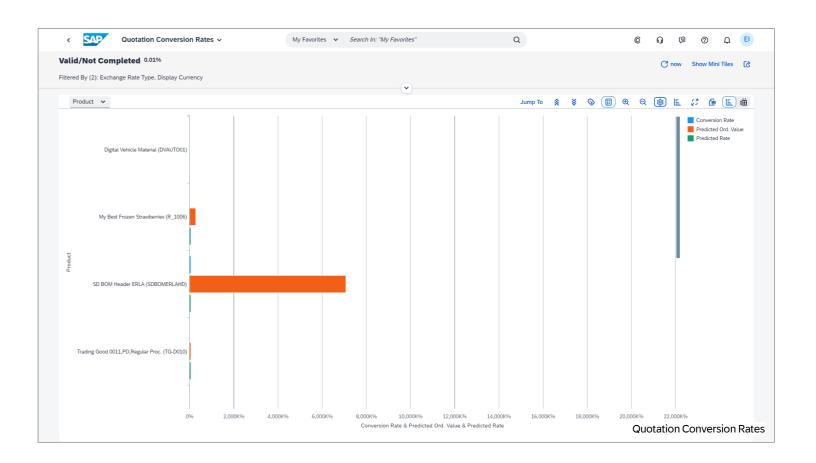
Sales Quotation Management

SAP Fiori App: Sales Quotation Conversion Rate

Allows Sales Manager & Internal Sales Representative to proactively:

- monitor sales quotation to order conversion ratio
- work on high probability and high value quotations
- forecast sales with confidence

Accurate information about the conversion rate enables sales forces to focus on the most reliable quotations in order to increase sales.



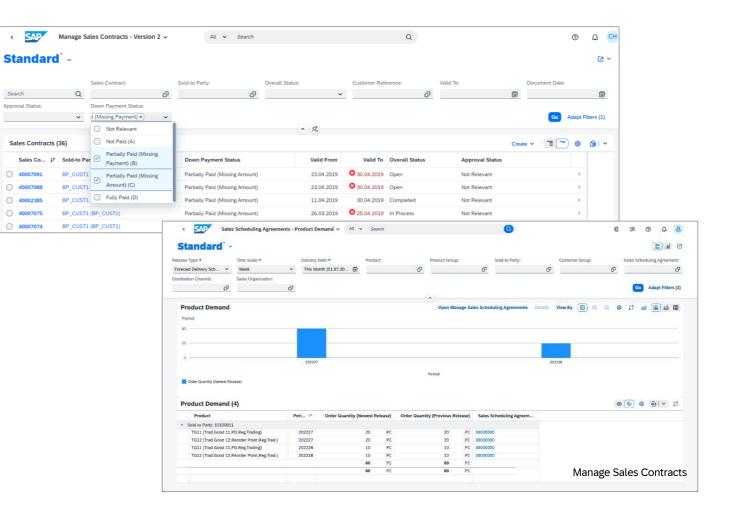
Sales: Sales Contract Management 1/2

Search

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Sales Contract Management

- Capture sales contracts effectively
- Contract types covered:
 - Sales quantity/value contract ٠
 - Sales scheduling agreement ٠
- Approval workflow for sales contracts
- Identify and monitor contracts that need to be ٠ renewed soon
- Proactively alerting for expiring sales contracts with ٠ abnormal fulfillment situation
- Analyze sales contract fulfillment rates to identify ٠ which contracts are not being fulfilled as expected

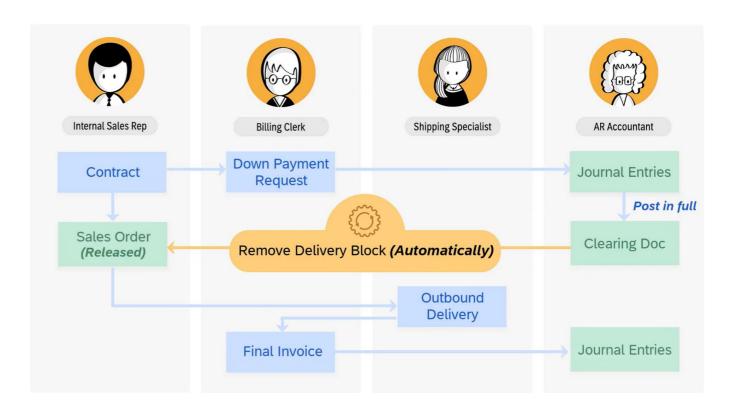


Sales: Sales Contract Management 2/2

Order and Contract Management Sales Contract Management

Enable down payment processing for sales quantity contracts using billing plans

- Create a sales quantity contract with down payment billing plan lines, and contract release orders with reference to the contract.
- The contract release orders are blocked for delivery before all agreed down payments are made.
- Once the customer has made the payment completely, the system removes the delivery block on schedule lines, allowing the continuation of delivery processing and invoicing.



Sales: Sales Order Management and Processing 1/8

Order and Contract Management

Sales Order Management and Processing

- Execute business transactions based on sales documents, such as inquiry, quotation, and sales order, defined in the system.
- Create a sales document with or without reference to an existing document. When creating or changing sales documents, the system confirms dates and quantities.
- When processing a sales document, the system can automatically carry out basic functions, such as the following:
 - Pricing
 - Availability check (if this function is defined in the material master record)
 - Transferring requirements to materials planning
 (MRP)
 - Delivery scheduling
 - Shipping point and route determination (for the sales order)
 - Credit limit check
- Mass Change of Sales Documents.

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Sales: Sales Order Management and Processing 2/8

Mass Order Creation

- Fiori App Import Sales Orders
- 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



Upload Template

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

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	•	leader Fields				
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HEADER, SALESORSERTYPE	*Sales Order Type	Required	4	Supports order types in sales document category C (Order).		
HEADER, SALESORGANIEATION	*Sales Organization	Required	4			
HEADER.DISTRIBUTIONCEANNEL	*Distribution Channel	Required	2			
MEADER, ORGANIZATIONDIVISION	*Division	Required	2			
HEADER.SALESDISTRICT	Sales District	Optional	6			
HEADER, SALESOFFICE	Sales Office	Optional	4			
HEADER . SALESGROUP	Sales Group	Optional	3			
HEADER. SOLDTOPARTY	*Sold-to Party	Required	10			
READER . SHIPTOPARTY	Ship-to Party	Optional	10			
HEADER.BILLTOPARTY	Bill-to Party	Optional	10			
HEADER, PAYERPARTY	Payer	Optional	10			
EALER. SALESENPLOYEE	Sales Employee	Optional	8	Requires a numeric key.		
MEADER . RESPONSIBLEEMPLOYEE	Employee Responsible	Optional	8	Requires a numeric key.		
HEADER, FURCHASEORDERSTCUSTOMER	Customer Reference	Optional	35			
HEADER. FORCHASEORDERBYSHIPTOPARTY	Customer Reference	Optional	35			
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LADER, CUSTOMERFURCHASEORDERTYPE	Purchase Order Type	Optional	4	Indicates the channel used by your customer to place an order.		
HEADER.REQUESTEDDELIVERYDATE	Requested Delivery Date	Optional	10	Supports YYYY-MM-DD and YYYYMMDD.		
HEADER.FRICINGEATE	Pricing Date	Optional	10	Supports YYYY-MM-DD and YYYYMM0D.		
	Document Date	Optional	10	Supports YYYY-MM-DD and YYYYMMDD.		
HEADER. SALESORDERDATE	Fixed Value Date	Optional	10	Supports YYYY-MM-DD and YYYYMMDD.		
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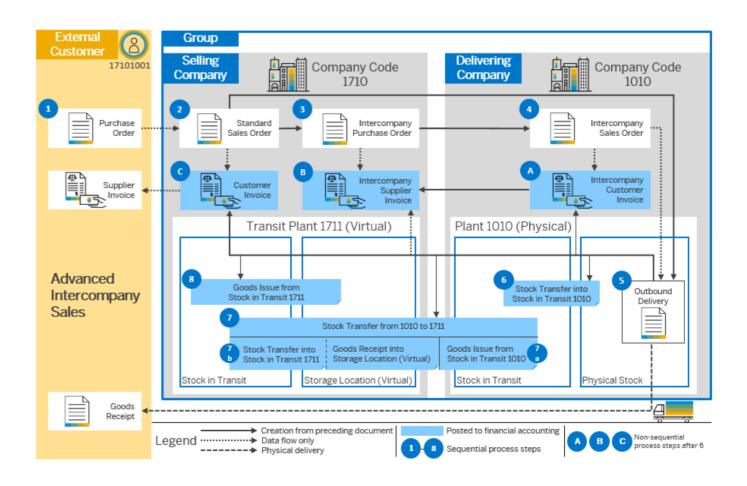
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Sales: Sales Order Management and Processing 3/8

Sales Order Management and Processing

Advanced Intercompany Sales

- Highly automated end to end process fully integrated with:
- Available-to-Promise check (ATP)
- Material Requirements Planning (MRP)
- Product Compliance
- Trade Compliance
- Transportation Management
- Support of IFRS 15 compliance for handling revenue recognition and Cost Of Goods Sold (COGS)
- Product Costing
- Profitability reporting across legal entities
- Group Reporting / Consolidation
- Change in the customer-facing sales order will automatically update all follow-up documents.
- Purchase Order in the Selling Company enables landed cost in product costing for the selling company



Sales: Sales Order Management and Processing 4/8

Sales Order Management and Processing

Advanced Intercompany Sales

- End to end value chain and process monitor
- Ensures process transparency with the ability to monitor document postings and to detect issues

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Sales: Sales Order Management and Processing 5/8 Create sales order from PDF file automatically

Manual and error-prone sales order creation process

Business pain points:

- 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

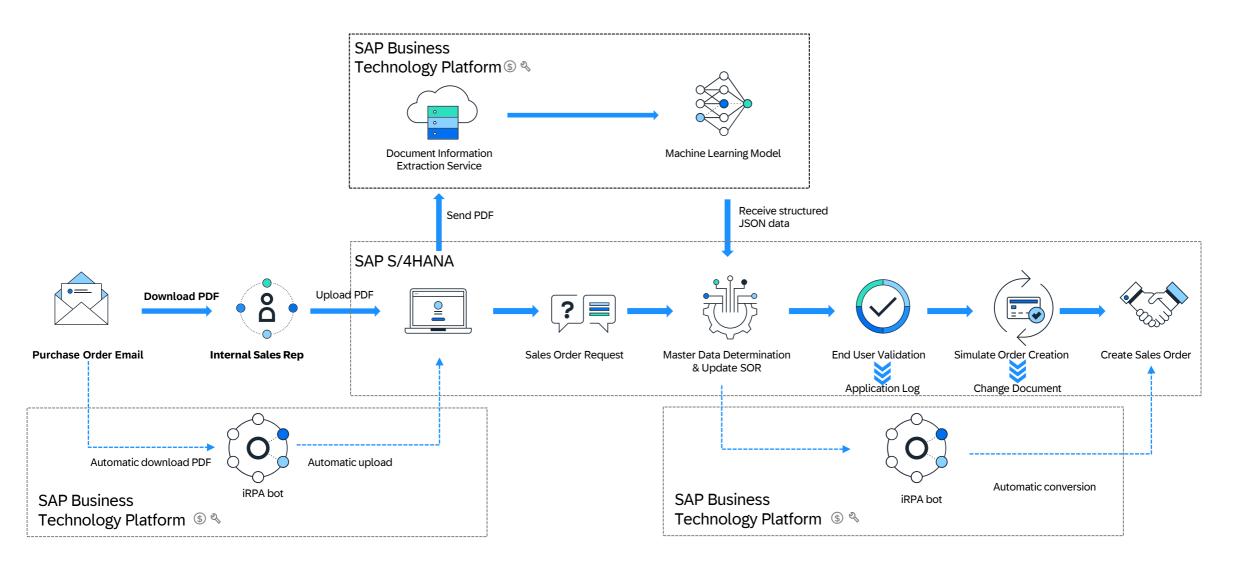
SAP S/4HANA Capabilities and Business Benefits:

- 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 incompletion or incorrect data SAP S/4HANA provides guided procedure for correction. Side-by-side view of uploaded document.
- Sales rep. can verify order data, simulate order creation and confirm order creation.
- Improved sales productivity with process automation.

Sales: Sales Order Management and Processing 6/8 Create sales order from PDF file automatically – technical view

Order and Contract Management

Sales Order Management and Processing



Sales: Sales Order Management and Processing 7/8

Exception-based Sales Order Handling – Sales Order fulfillment Cockpit

Optimizes order resolution with a central entry point for analyzing and resolving sales order fulfillment impediments

Connects to Track Sales Order Details App for a deep dive into the individual sales order

Issues included:

- Incomplete data (in sales orders, in delivery)
- Blocks (delivery block, credit block, shipping block, billing block)
- delivery issue in sales order
- Unconfirmed quantities in sales order
- Issues (shipping issue in delivery, invoice, supply issue, purchasing issue, manufacturing issue)
- Product compliance issue (product marketability status, dangerous goods status, safety data sheet status)
- Trade compliance issue
- Approval Status and Approval Request Reason included
- Navigation to Schedule Line for all Item Issues in Track Sales
 Order Details
- SAP Global Trade Services (SAP GTS) integration to SAP S/4HANA can now be used in the Sales Order fulfillment -Analyze and Resolve Issues and Track Sales Orders apps.

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Sales Order Fulfillment Issues

Sales: Sales Order Management and Processing 8/8

Order and Contract Management

Sales Order Management and Processing

Intelligent Product Proposal in Sales Order Creation

- The intelligent product proposal is an enhancement of the dynamic product proposal functionality
- The intelligent product proposal allows users to receive product and quantity proposals enabling faster order entry
- The quantity of products ordered can be predicted with the help of an algorithm parameter for double exponential smoothing

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Ship-to Party: 10100001 Company Inland	skunde DE 1, street, 12345 Walld	orf, Germ	any								
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Sales: Sales and Solution Billing 1/3

- Create Preliminary Billing Documents for review, negotiation and rework purpose
- Create Billing Documents from internal and external data
- Communicate billing data via print, e-mail or EDI
- Converge data from different sources into a combined billing document

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Invoice 90072544		Edit	Preview Cancel Billing Document	Post Billing Document 🕜
Payer 1010 Supplying Plant Intercompany (16759)			Total Amount 4,20 EUR	
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Process Flow				
				€ Q
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On 05.12.2022 01.0	01/2023 Value 4.20 EUR			
Pricing Data				
			Mana	ge Billing Documents

Sales: Sales and Solution Billing 2/3

Business Partners

Preliminary Billing Documents

- Copying of Output Items (Including Attachments) from Preliminary Billing Documents to Billing Documents
- Schedule Preliminary Billing Creation ٠
- Create Preliminary Billing Documents based on billing due list items
- Get an overview of all preliminary billing documents in ٠ a worklist
- Reject preliminary billing documents ٠
- Create billing documents based on preliminary billing documents
- Approval of Preliminary Billing Documents ٠
- Change prices, texts, and more ٠
- Generate print previews and send output
- Add billing items from documents in the billing due list

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Manage Preliminary Billing Documents

Order and Contract

Management

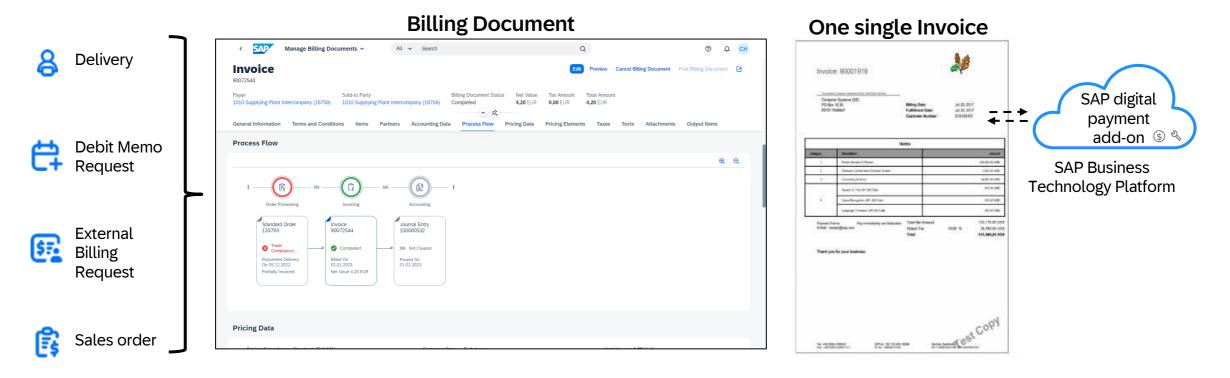
Sales: Sales and Solution Billing 3/3

Order and Contract Management

Sales and Solution Billing

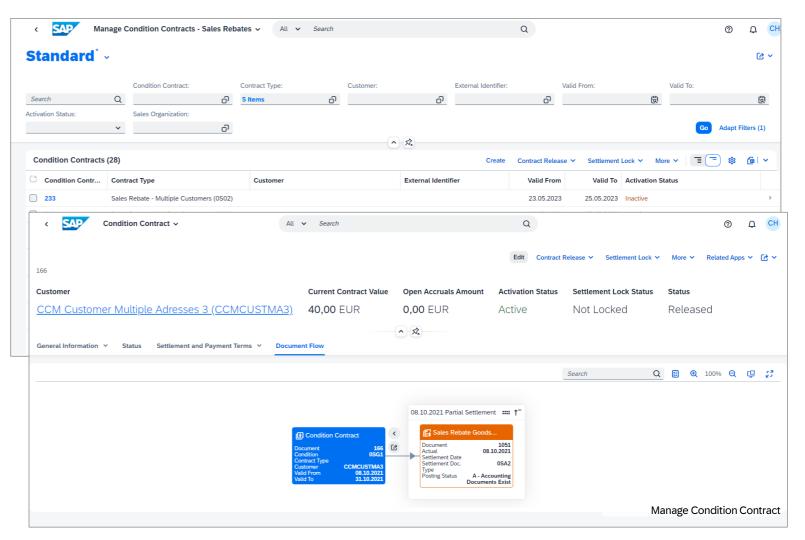
Solution Billing

• Enablement of 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).



Order and Contract Sales: Management Sales Rebates & Incentive and Commissions Management 1/2

- 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.
- 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 ٠ settlement runs to fulfill auditing requirements.
- Create and schedule jobs for updating the settlement calendar by generating new or deleting existing settlement dates from the condition contract settlement calendar.
- Situation templates to notify business users of problem messages related to errors in condition contract settlements.

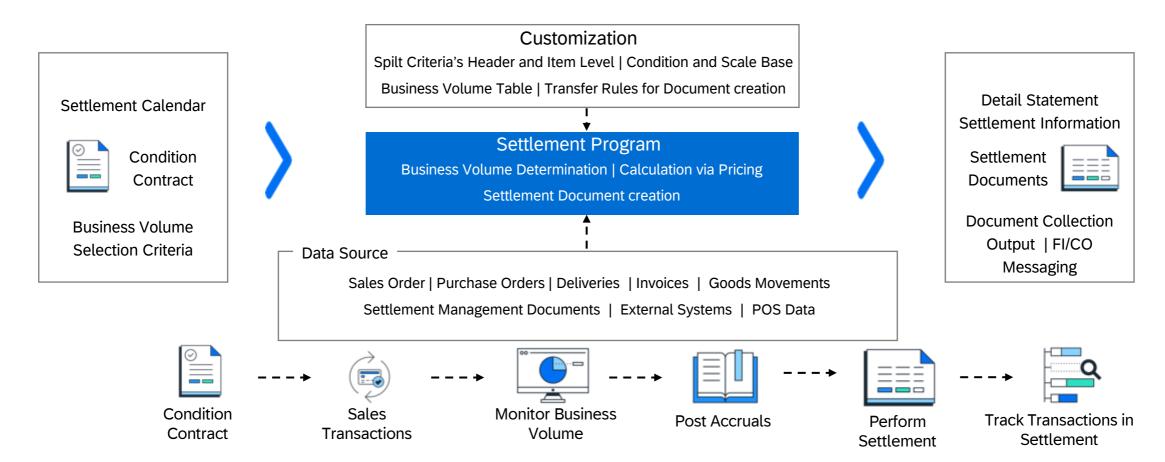


Sales Rebates & Incentive

and Commissions Management

Sales: Sales Rebates & Incentive and Commissions Management 2/2

Condition Contract Settlement by Settlement Management



Public

Sales Rebates & Incentive

and Commissions

Management

Sales: Claims, Returns and Refund Management 1/2

- Manage and monitor the status of customer returns by using a customizable worklist
- Create, display, modify and delete customer returns
- Returns approval process with different roles involved
- Select pre-defined follow-up activities to speed-up the returns process, e.g.:
 - Move to free available stock
 - Move to scrap
 - Ship to supplier
 - Send back to customer
- Perform lean material inspection
- Determine the refund action, such as granting a credit or replacement of products
- Visual overview of returns process flow

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General Information Follow-Up Act	tivity Refund Partners	Prices Y Texts	A \$					
Product			Shipping					
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Follow-Up Activity								
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	Suspend Valuation: No							
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Sales: Claims, Returns and Refund Management 2/2

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

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Sales: Sales Monitoring and Analytics 1/4

Order and Contract Management

Sales Monitoring and Analytics

- Gain insights into periodic sales and service volume, profit margin and delivery performance
- Perform root cause analysis on historical ٠ data
- Enable predictions such as delivery ٠ delays, product proposals
- Generate reports on sales, delivery, on ٠ pricing element attributes chosen independently based on customer requirements
- Consume analytical content real time within SAP S/4HANA box or in SAP Analytical Cloud

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Order to Cash dashboard

Sales: Sales Monitoring and Analytics 2/4

Order and Contract Management

Sales Monitoring and Analytics

SAP Fiori App: Predicted Delivery Delay

Leverages embedded SAP S/4HANA predictive capabilities, analyzing historical data, and forecasting business results

Allows Sales Managers & Internal Sales Representatives to proactively monitor how likely a sales order item is to be delayed with two KPIs and take appropriate actions to ensure delivery as promised:

- predicted delay for creation of outbound delivery
- predicted delay for creation of goods issue

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Sales: Sales Monitoring and Analytics 3/4

Order and Contract Management

Sales Monitoring and Analytics

Customer 360° – Version 2

- Gain a comprehensive overview of the business documents associated with specific customers.
- For example, check the details of business documents that were recently created for a specific customer.
- The app displays aggregated data for sales documents, billing documents, and service documents for a certain period of time.
- Additional functionalities:
 - When navigating to the Customers Overview app from a specific sold-to party, the system automatically copies this sold-to party to the search criteria.
 - When choosing one of the sales areas for a specific sold-to party, the system lists all the addresses, including addresses of multiple partners assigned to this sold-to party.

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	757,57 EUR	No items are currently available			
	757,57 EUR Standard Order 134230 13.02.2023 [] In Process 755,39 EUR	No items are currently available	Outbound Delivery 80092127	13.02.2023	
	757,57 EUR Standard Order 134230 13.02.2023 [] In Process	No items are currently available	80092127	13.02.2023	

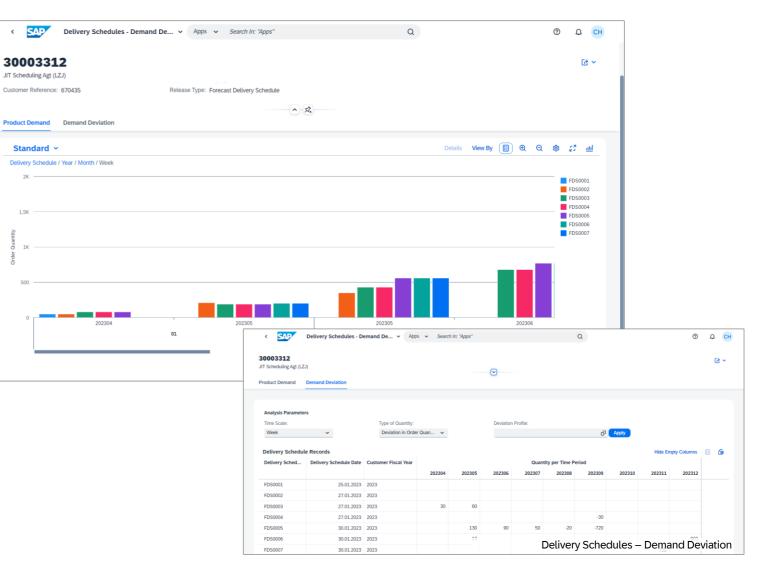
Sales: Sales Monitoring and Analytics 4/4

Order and Contract Management

Sales Monitoring and Analytics

Monitoring of sales scheduling agreement delivery schedules

- Monitor and compare forecast or just-in-time delivery schedules of sales scheduling agreements
- Monitor the linear sequential changes of delivery schedules over time
- Get quick insights into the call-off behavior of your customer in order to verify contract fulfillment and help ensure stable requirements planning
- Detect fluctuations in call-offs in time to take necessary actions



Sales: Solution Quotation Management 1/2

Transaction

Actions

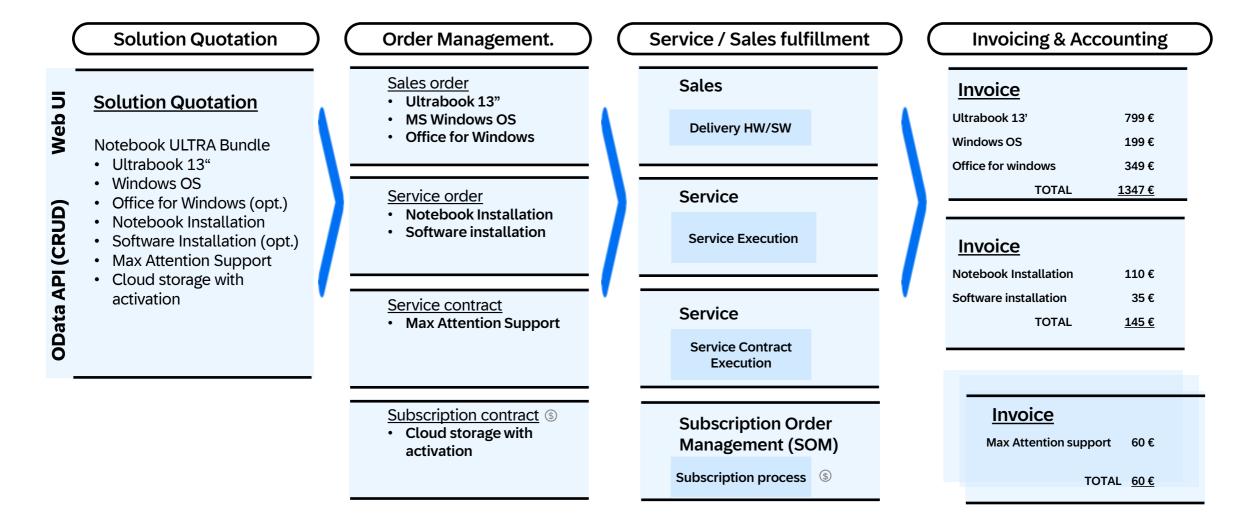
- Create solution quotation with sales item, service order item, service contract item, subscription items and product bundles containing a combination of these items
- Automatically create respective follow-on documents to complete the end-to-end process

n Mana	anagement 1/2					Solution Business Management					Solution Quotation Management		
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	20	Sales Item	↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓		CTU3_AUTO_SAL		EA	Sales Item	120,00	USD	Completed	>	
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	40	Expense Item	1 🗇		CTU3_AUTO_EXP	1	EA	Expense	0,00	USD	Completed	>	
	50	Service Parts Item	a 🖉		CTU3_AUTO_PART	5	EA	Service Spare Item	10,00	USD	Completed	>	
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nsaction		Transaction Type									Date		
51		Sales Order								2	1.10.2019		
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te deep srvc part		Service Contract								2	1.10.2019		
								Se	rvice Ord	ler Que	otation		

- - - - -

Sales: Solution Quotation Management 2/2

Solution Business Management Solution Quotation Management



Sales: Solution Portfolio Management

Solution Business Management Solution Portfolio Management

• Manage Solution Portfolio app offers a combined view to manage multiple businesses sold to a customer (services, physical goods, subscriptions, etc.), representing multielement deals.

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Standard No filters active		Test_BSP_620			요가 X Delete Edit [군 ~
Business Solution Portfolios (50)	Create ····	100000039			
☐ Description		Business Solution Portfolio			
Test_BSP_620	>	Estamol Bafaranan Tari Dob 700			
External Reference: Test_BSP_789 Sold-To Party: Andersons and Sons (C0016)		External Reference: Test_BSP_789 Sold-To Party: Andersons and Sons (C0016) Leading Currency: USD			
Test_BSP_224 External Reference: Test_BSP_279	>	Total Net Value by Transaction Type	Note		
Sold-To Party: Andersons and Sons (C0016)		51.8% 47.6%	Test_BSP_211		
Test_BSP_165 External Reference: Test_BSP_445 Sold-To Party: Andersons and Sons (C0016)	>		 ∧ x² 		
Test_BSP_522 External Reference: Test_BSP_461 Sold-To Party: Andersons and Sons (C0016)	`	Overview Service Contracts (5) v s Standard v	Search	Q Add Remov	· T - & @ · ·
Test_BSP_691 External Reference: Test_BSP_390 Sold-To Party: Andersons and Sons (C0016)	>	Transaction Type Service Contract	Descri Tax De	ption st Ctr CN Tag - UPD3	Item No.
Test_BSP_238 External Reference: Test_BSP_149 Sold-To Party: Andersons and Sons (C0016)	>	Product: Item 100 (SRV_01) Quantity: 1,000 HR Service Contract	Tax De	st Ctr CN Tag - UPD3	200
Test_BSP_897 External Reference: Test_BSP_989 Sold-To Party: Andersons and Sons (C0016)	>	Product: Item 200 (SRV_01) Quantity: 1,000 HR Service Contract	CTU4	Automation By PTF Mana	ge Business Solution Portfolio
		Product: Service Product (SRV, 01)			

Sales: Configure role-based access to price and cost details in sales and billing documents

Order and Contract Management Price Management

Role-Based Access to Price Elements

Control and restrict the access that business users have to price elements of an SD document on header or item level:

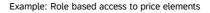
 Supported documents: Sales order, Credit memo request, Debit memo request, Customer return and Billing process documents

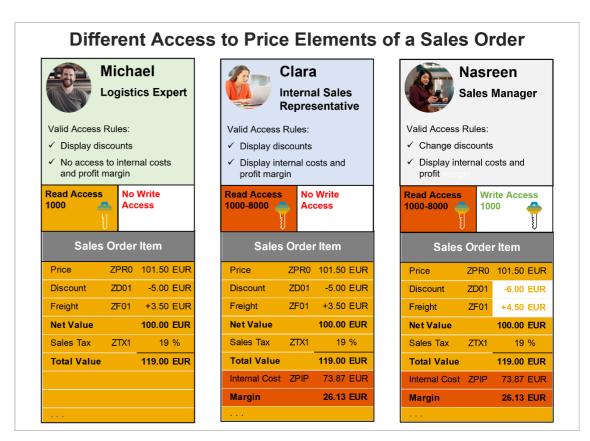
Based on configuration, the system automatically controls whether the business user has the appropriate role and authorization to access the information in the price element area of the respective documents.



Configuration

Description	Cond. Type	Access Leve
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





Sales: Maintaining tax records in sales or uploading them from template-based spreadsheets

- New Fiori app to create tax rates in the form of condition records as the pricing master data in sales.
- When a tax is calculated in a business document, the system looks for the corresponding condition records in the master data to determine the final tax rate.
- Support of mass operation to efficiently manage multiple tax rates at one time

The following tasks are performed in this SAP Fiori app:

- Maintain tax records and its details
- Select a specific template for the combination of taxrelevant attributes
- Download the template to a spreadsheet
- Specify values in the spreadsheet for the tax record and for the tax-relevant fields and the validity dates
- Create or change tax condition records by uploading the spreadsheet

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Tax C	ode:	W/Tax Code:	Departure Ctry/Reg.:		Tax Class.1 Customer:		Tax Class. Material:		
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	Output Tax (TTX1)	Domestic Taxes (002)		Ireland (IE	·		IE:2/3rd lower rate (B)	Full tax (1)	>
	Output Tax (TTX1)	Domestic Taxes (002)		Ireland (IE	Ξ)		IE:2/3rd higher rate (A)	Reduced Tax(Service) (7)	>
	Output Tax (TTX1)	Domestic Taxes (002)		Ireland (IE	Ξ)		IE:2/3rd higher rate (A)	Full tax (1)	>
	Output Tax (TTX1)	Domestic Taxes (002)		Ireland (IE	Ξ)		Liable for Taxes (1)	Reduced Tax(Service) (7)	>
	Output Tax (TTX1)	Domestic Taxes (002)		Ireland (IE	Ξ)		Tax Exempt (0)	Reduced Tax(Service) (7)	>
	Output Tax (TTX1)	Domestic Taxes (002)		Ireland (IE	Ξ)		Liable for Taxes (1)	Full Tax (Services) (6)	>
	Output Tax (TTX1)	Domestic Taxes (002)		Ireland (IE	Ξ)		Liable for Taxes (1)	^{Ex} Manage Tax Rates	>

Order and Contract

Management



Price Management

Sales: Available-to-promise (ATP) result screen in Manage Sales Orders

- Enable analysis and adoption of confirmed delivery dates and quantities on the ATP results screen for sales-order items in the SAP Fiori app "Manage Sales Orders - Version 2"
- Improve efficiency in managing planned product deliveries in sales orders

	My Favorites V Search	n In: "My Favorites"	Q	© (9	② Ω EI
03474 ndard Order (OR)	Edit Update Prices	Delivery Block Y Billing Block	✓ Reject All Items Display Change Log	Attachments (0) Rela	ated Apps 👻 📝 🗸
Partners Sold-to Party: TM Domestic US Cu Ship-to Party: TM Domestic US Cu		Net Sales Volume (YTD) 5.415.572,61 USD Availabilit			
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20 Trad.Good 12,Reorder Point,Reg.Trac		28.03.2 Delivery Block: Movement Typ Open Quantity:	e: GD goods issue:delvy (601)	0 EA	0 EA

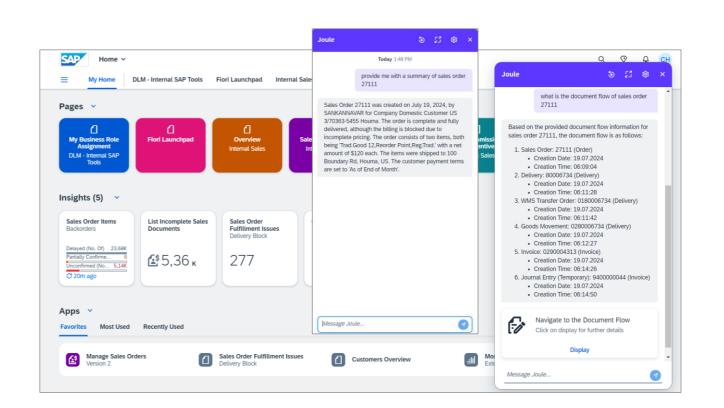
Sales: Available-to-promise (ATP) provides hybrid sourcing results

- 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

SAP	Sales Orde	er 🗸		×				Q (?)	Д (
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Sales: Sales order monitoring based on textual natural language processing using Joule

- Display Sales Order Details:
 - Joule fetches sales order details at both the header and item level. At the header level, Joule fetches details such as the order number, customer information, order status, delivery date and payment terms At the item level, Joule fetches details such as the requested quantity, delivery status, net amount, and billing status.
- Display Sales Order Fulfillment Issues:
 - Joule fetches issues in the sales order fulfillment process. These include incomplete data, billing blocks, delivery issues, credit blocks, and trade compliance issues in sales orders.
- Display Sales Order Document Flow:
 - Joule fetches information regarding the document flow related to a specific sales order, which includes information about the various documents and processes involved in the order fulfillment, such as document sequence, types, status, details, and dependencies.

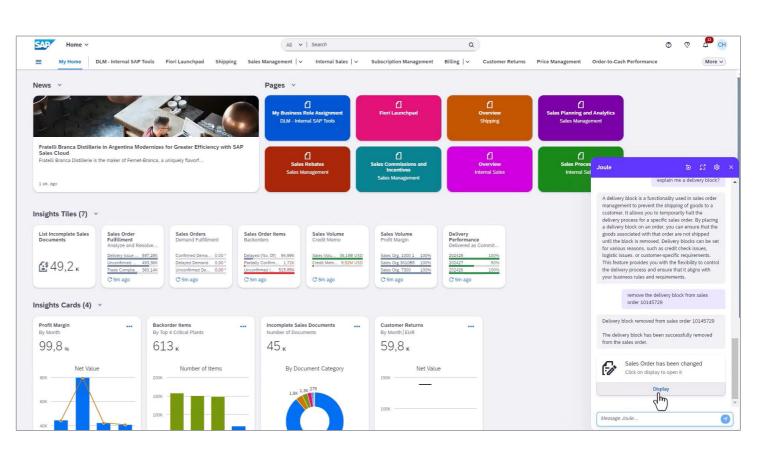


Order and Contract

Management

Sales: Monitor and resolve sales order fulfillment issues with Joule and Business AI*

- Using latest large language models, Joule provides advanced responses for an intelligent order fulfillment process
- Not only fetch and monitor fulfillment issues, but also solve and change data on sales order header and item, e.g. removal of delivery, billing or credit blocks with the support of Joule and Business Al



Order and Contract Management

AI-assisted monitoring of sales order fulfillment issues

Order and Contract Management

Sales and Distribution

Sales: Flexible billing document posting – suppressing automatic posting

Enhancement of flexible billing document functionality to enable the dynamic suppression of the automatic posting of specific billing documents to financial accounting:

- Specify criteria that the system uses to decide whether or not to block the automatic posting of specific billing documents to financial accounting
- Trigger dedicated decision logic depending on the billing document's tax departure country or region
- Base each decision on an evaluation of specific header fields of the billing document to be posted
- Evaluate the following header fields: billing type, sales organization, company code, SD document category, preceding billing type, and destination country or region
- Add custom fields to the billing document header through extensibility to further customize your criteria for posting suppression

> 🔂 Master Data			
> 🛃 Basic Functions			
> 🔂 Sales			
∼🛃 Billing		∨ <u>[&</u> Bil	lling
> 🔂 Billing Documents		~🛃	Billing Documents
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> 🔂 Payment Cards		60	🕒 Define Billing Types for Sales
Rebate Processing		- B (Define Number Range Prefixes for SD Documents
> 🔂 Intercompany Billing			
> 🔂 🛛 Billing Plan		60	Define Number Ranges for Billing Documents
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> Recycling Administration			Accombling Croups
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 Configurable Parameters 	and Formulas in Billing	>	Copying Control for Billing Documents
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🛃 🕒 Define Formulas for Fle	xible Billing Document Numbering		
🔼 🕒 Define Parameter Cata	og for Flexible Billing Document Posting	🔂 (C Assign Custom Routines to Tax Departure Countries/Regions
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> Business Add-Ins (BAdIs)		60	

∼ [&	System Adaptation
> 🛃	Create New Fields (Using Condition Technique)
> 🛃	Create New Fields (Without Condition Technique)
🙆 🤇	Activate Analytics
~ <u>&</u>	Routines
6	🛓 🤆 Define Copying Requirements
6	🛓 🤆 Define FORM Routines for Data Transfers
6	E C Define Requirements
6	<u>C</u> Define Formulas for Pricing
6	E C Define Custom Routines for Flexible Billing Document Numbering
6	<u>C</u> Define Custom Routines for Flexible Billing Document Cancellation
6	C Define Custom Routines for Flexible Billing Document Posting
6	C Define Custom Routines for Flexible Sales Document Numbering
6	<u>C</u> Define Custom Routines for Requested Delivery Date in Sales Documents
<u>6</u>	Define Custom Routines for Pricing Date in Sales Documents

Sales: Suspending product valuation initiated by a refund in the customer returns process

- By default, if you decide to refund the customer (either with a replacement or a credit memo), the product ownership is transferred from the customer to you and the system performs the valuation posting, for example, posting the goods receipt to valuated stock.
- However, there may be cases where you want to refund the customer but do not want the refund to be interpreted as a transfer of product ownership before the inspection. To achieve this, you can now indicate in the returns order item that you want the system to delay the product valuation for any refund decisions made until the final logistical follow-up activity is confirmed in the inspection.
- As a result, only the final logistical follow-up activity determines whether the product valuation should take place or not.

Order and Contract Management Claims, Returns and Refund Management

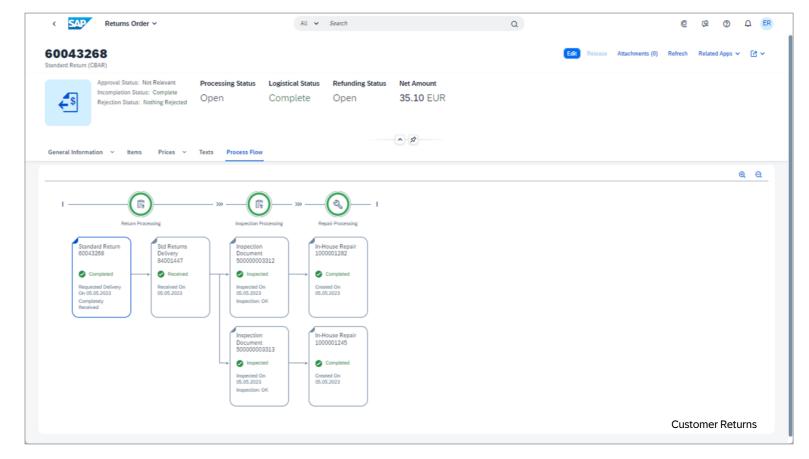
Product Valuation Initiated by Refund

< SAP Returns	Order Item 🗸	All 🖌 Search		Q	© © D E
60065797 / Trad.Good 20 TG20),Reorder Point	,SerialNo			× ئ
Item Processing Status 10 Open General Information Follow	Logistical Status Refund Complete Oper v-Up Activity Refund Partne		Net Value 16.50 USD		
Product Product: Trad.Good 20.Reorder Point,SerialNo (TG20) Batch: -	Returned Quantity: 1 PC Return Reason: -		Shipping Receiving Plant: Plant 1 US (1710)	Receiving Point: Shipping Point 171R (171R)	Storage Location: _
Follow-Up Activity					
Follow-Up Activity: Receive into Plant (0001)	Product Received: Yes	Inspection Code: Inspected at Customer Site: No	Comment: _	Supplier: -	Return-to Address:
Refund					
Refund Type: Credit Memo Refund Control: Decide Later (R)	Refund Code: 100% Refund (100) Suspend Valuation: No				Customer Returns

Sales: Enhancements to the SAP Fiori app "Manage Customer Returns (Version 2)"

More functionalities in the SAP Fiori app "Manage Customer Returns (Version 2)" providing support for:

- Text entities on the header and item levels
- Attachments and process flows
- One-time-customer and document-specific addresses
- Multiple addresses
- Extensibility
- Empower the returns and refund clerk with more functionalities in return order processing





Sales: Support of multilevel configuration

- Solution quotations can be created for ٠ subscription products with multi-level advanced variant configuration (AVC) which has subscription products as its subitems.
- Configuration of the main item and its corresponding subitems is stored as Bill of Materials (BOM).
- Ability to configure multilevel advanced variant configuration (AVC) products using the UI

Solution Business

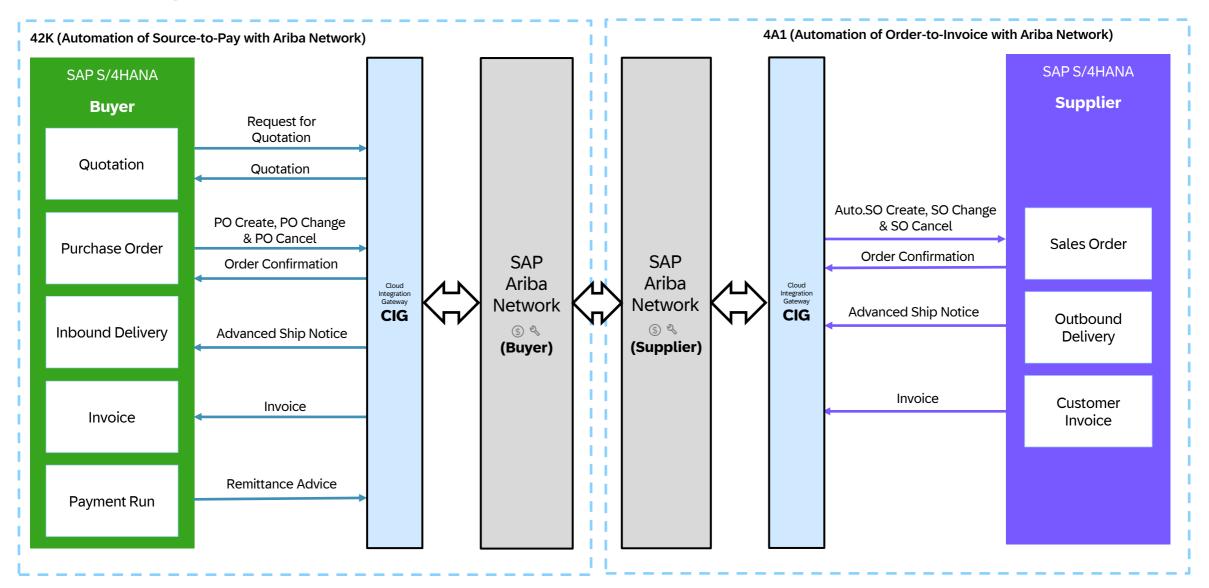
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Sales: Responsibility management and workflow

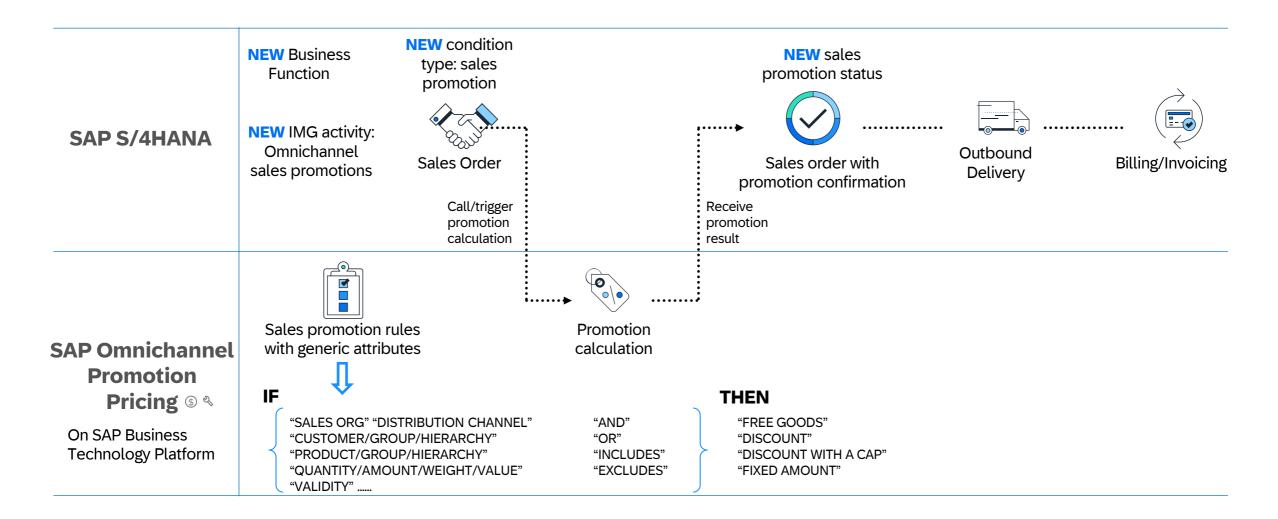
Streamline sales processes with predefined responsibility management and workflow for sales documents.

< SAP Customer Return	✓ My Favorites ✓ Search In: "My Favorites" Q	© G @ Ø L ⁰ ES	By Date By Type By Priority
All Tasks (11)	Release of Customer Return		
Search Q C REFRESH Reserved by You	Standard Return 60004203 Customer Return: 60004203 Overall Status: Open Ovrl Delivery Status: Not Delivered	(Related Apps) (さ 〜	Errors occurred in output processing. Output item processing resulted in 52 errors A hours ago
Release of Customer Return 60004203 _SAPI524954 Medium Release of Customer Return 60004020 _SAPI524954 Medium	Sold-to Party: Inlandskunde DE 1 (10100001) Rejection Status: Not Rejected Billing Status: Not Relev. for Billing Ship-To Party: Inlandskunde DE 1 (10100001) Net Value Approval Status: ▲ In Approval Net Value Approval Request Reason: Approval Reason for Debit Memo Request (CR01) 4.000,00 EUR		Errors occurred in output processing. Output item processing resulted in 98 errors 1 day ago
Release Condition Contract 2000000220 for Settlement Example BillingClerk Medium Release Condition Contract		Created By: _SAPI524954 (_SAPI524954) Created On: 20.10.2022	Errors occurred in output processing. Output item processing resulted in 25 errors days ago
2000000220 Example InternalSal Release of Sales Quotation 20000308	Standard Return (009) –	Last Changed By: _SAPI524954 (_SAPI524954) Last Changed On: 20.10.2022, 04:35:56	▲ Sales contract not fulfilled as expected × The validity period of sales contract 0040002622 has elapsed by 81,15%, but 0,00% of its target value has bee
_SAPI516053 Medium	Items		2 days ago Show More
Release of Sales Quotation 20000307 _SAPI516053 Medium	Standard Search Product Return Quantity Return Reason Overall Status TG11 2 PC Open Net Value: 4.000.00 EUR EUR Open	Q I Reason for Rejection	▲ Sales contract not fulfilled as expected × The validity period of sales contract 0040002621 has elapsed by 81,15%, but 0,00% of its target value has bee
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Sales: Integration with Ariba Network



Sales: Integration with SAP Omnichannel Promotion Pricing

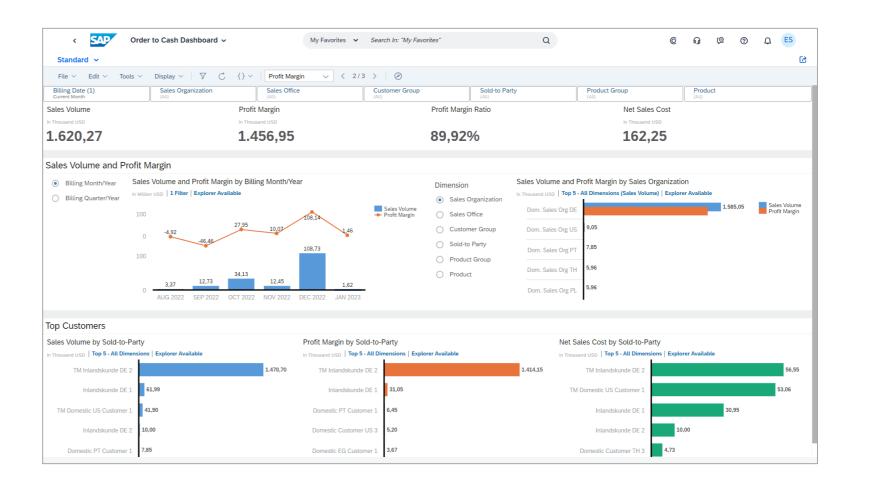


Sales: Order-to-Cash Dashboard

- Ready-to-use, preconfigured Order-to-Cash Dashboard visualizes real-time insights into sales processes for executives and senior management
- The dashboard also provides insights into the after-sales process with additional service key figures.
 This gives sales managers a comprehensive

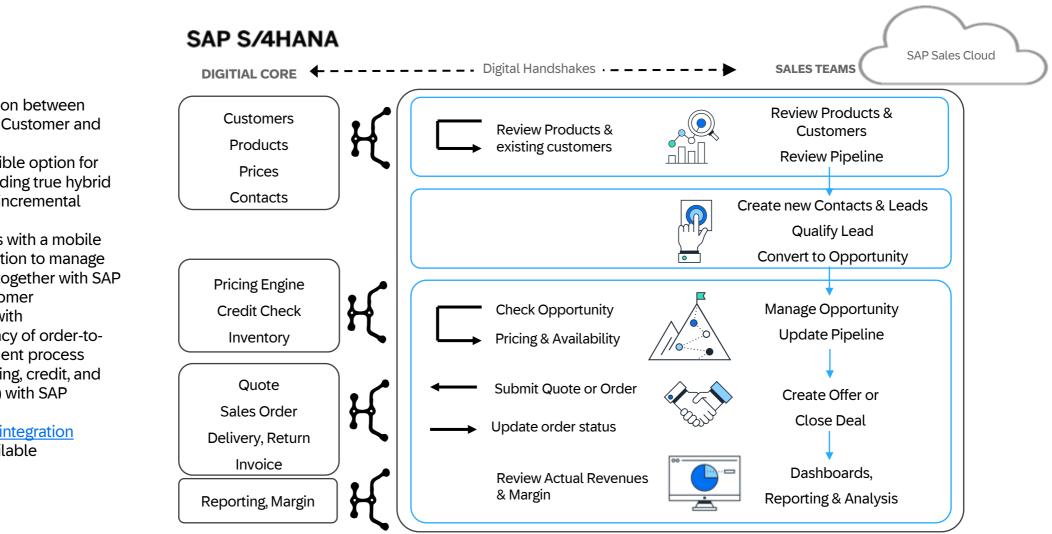
picture of the order to cash process, and helps improve customer satisfaction as well as customer-oriented selling

- The dashboard offers significant key performance indicators such as sales volume, open sales orders, open deliveries, incoming sales orders and sales cost, as well as comprehensive key figures from service, such as incoming service orders and open service orders
- The template of the story is stored in SAP Analytics Cloud



Sales: Sales Automation with SAP Sales Cloud

SAP Sales Cloud

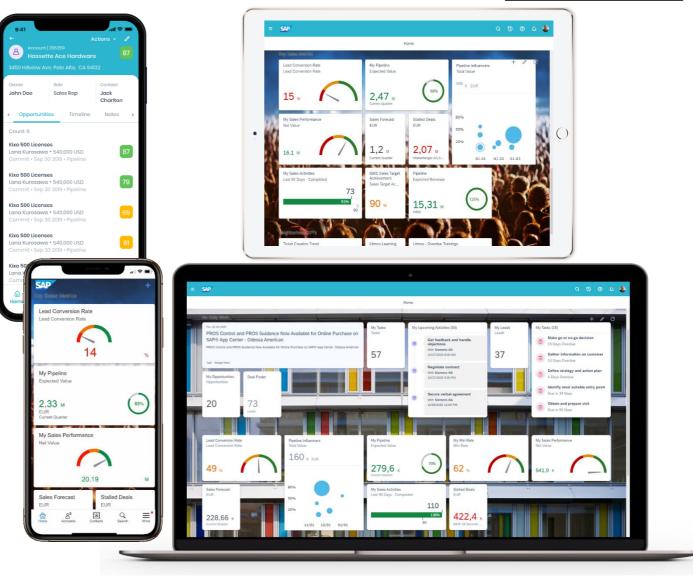


Native integration between SAP Cloud for Customer and SAP S/4HANA

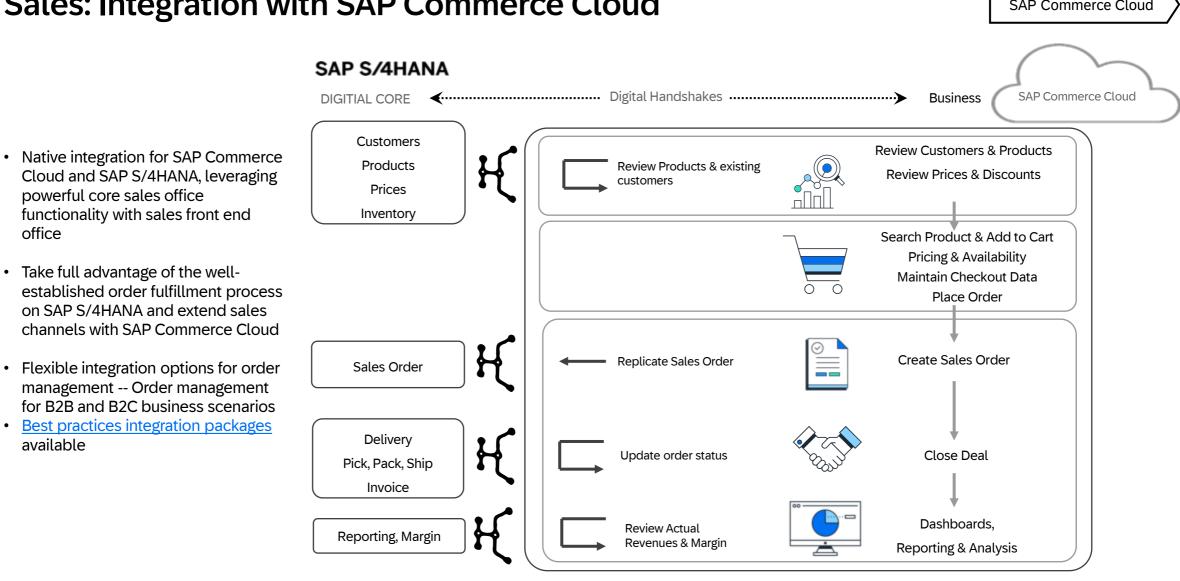
- Provides a flexible option for customers needing true hybrid scenarios and incremental updates
- Empower sales with a mobile SFA cloud solution to manage sales process together with SAP Cloud for Customer
- Provide sales with the transparency of order-tocash management process (including pricing, credit, and inventory data) with SAP S/4HANA
- <u>Best practices integration</u> <u>package</u> is available

Complement SAP S/4HANA with SAP Sales Cloud

- Next generation UX
- E2E process and data integration
- Available on all devices
- Online/Offline capability
- Groupware integration
- Industry specific capabilities for Consumer product industry
- Data driven user assistance (Machine Learning)
- Better TCO than with external CRM system



SAP Sales Cloud

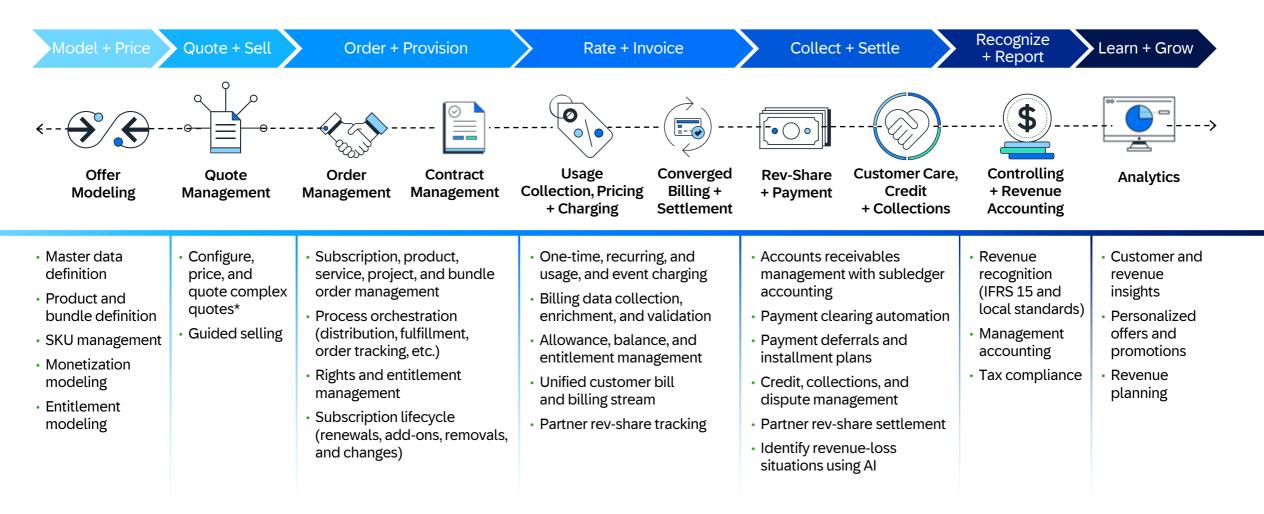


Sales: Integration with SAP Commerce Cloud

SAP Commerce Cloud

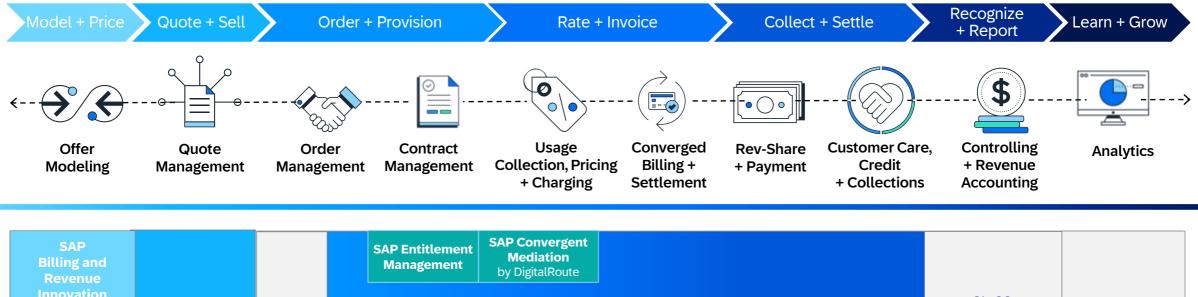
Sales embedded in Quote-to-Cash

End-to-end management of quote-to-cash process for any business model



Sales embedded in Quote-to-Cash

End-to-end management of quote-to-cash process for any business model



Revenue				by DigitalRoute			
Innovation Management	SAP CPQ	Solution Quote	S	AP Billing and Revenue Innovation Manag	ement	GL, CO, Revenue	Analytics
Advanced Variant		Quote	Colos Ordor	1		Recognition	
Configuration			Sales Order	-			
			Service Order	Salas Pilling (SD)			
Master Data			Service Contract	Sales Billing (SD)			
Management			Project				

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.

Sales: Delta Scope Summary



Joule and Business AI * 🖆 🛞	Solution Business Management
 Sales Order Management Monitor and resolve sales order fulfillment issues with Joule and Business AI* (FPS02) Sales order monitoring based on textual natural language processing using Joule (FPS02) 	 Solution Quotation Management Support of multilevel configuration in solution quotation management

Order and Contract Management

Price Management

- Configure role-based access to price and cost details in sales documents and in billing process documents
- Maintaining tax records in sales or uploading them from template-based spreadsheets (FPS01)

Sales Order Management and Processing

- Managing sales orders app, version two support of an available-to-promise (ATP) result screen
- Utilize a hybrid sourcing result from aATP to source from internal (plants) and external (supplier) locations (FPS02)

Sales Billing & Solution Billing

• Flexible billing document posting – suppressing automatic posting

Claims, Returns, and Refund Management

- Suspending product valuation initiated by a refund in the customer returns process
- Enhancements to the SAP Fiori app "Manage Customer Returns (Version 2)": supporting attachments, process flows, and additional fields

Service Management

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





Service: Overview

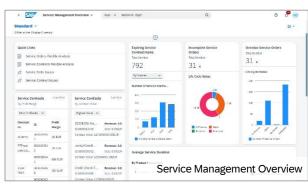
Modular Cloud **LoB** Solutions

- additional license additional installation
- Asset Network and Collaboration with SAP Asset Intelligence Network (AIN) Mobile Field Service Execution with SAP Field Service Management (FSM) SAP Service Cloud

Subscription Order

E SAP Planning and Today ← →
 C31272029 AB Assy CR Callyn Rowland Chemers (hall 2) F 04/09/2019 11:5 P levels 6 Kate Black If you're looking for the latent in SAP Field Service Management Chestrut Street wireless headphones for your Reading PA, USA animment and missta listering

Service Order: 8000	084943, Installat	New Edit Copy Create Follow-Up Actions
Service Order Details Items No	tes Attachment Organizational Data Cor	firmations Transaction History Output Control
 Service Order Details 		
		Edit
General Data	Processing Data	Reference Objects
ID: 8000084943	External Reference:	Product ID:
Description:	Priority: Medium	Punctional Location ID:
Sold-To Party: Domestic US Customer 1	Status: Open	Equipment ID: 10000051 SERVO MOTOR #4
Contact: Mr. Noboru Ota	Credit Status: No item is relevant for credit check	Reference Product: MAC-R9700 / SERVO MOTOR
Situation Status: No Situations	Execution Status: Not Available	Serial Number: 6
No Shations	Net Value:	s for Warranty Managemei
1	попдро	s for warranty warragemen



SAP S/4HANA LoB Apps	Subscription Order Management	Extend commercial service offerings with enhanced subscription management.
③ additional license		
	Service Master Data and Agreement Management	 Manage customer asset records, service history, and commercial agreements. Process warranty claims to supplier/manufacturer or claims coming from your customers. Plan preventive maintenance services based on relevant information readily available. Monitor operations and business outcome of services business by holistically looking at the entire service processes.
SAP S/4HANA Enterprise Management	Service Operations and Processes	 Engage with customers on multiple platforms for their requests, complaints, and any other interactions. Combine services and products as a packaged solution. Perform services efficiently and effectively, with all the required material and human resources. Bill customers in a timely manner in accordance with contractual agreements.
	Service Parts Management	Improve efficiency in parts fulfillment, planning, procurement, and warehousing with integration of core materials management and finance functions.

Service: Business area overview

Asset Network and Collaboration with

LoB Solutions SAP Asset Intelligence Network (AIN) Mobile Field Service Execution with SAP Field Service Management (FSM) ③ additional license SAP Service Cloud 🕸 additional installation Subscription Order SAP S/4HANA **Subscription Management** Management LoB Apps (5) additional license Service Monitoring & Analytics Service Contract Management Service Master Data and Agreement Technical Assets, Structures, and History **Warranty Management** Management **Service and Maintenance Plan** SAP S/4HANA Enterprise In-House Repair **Customer Engagement** Management Service Operations and Processes Service Request & Order Mgmt. Service Execution Service Parts **Service Parts fulfillment Service Parts Warehousing** Management

Modular Cloud

Service: Service Master Data, Agreement, and Spare Parts Mgmt.

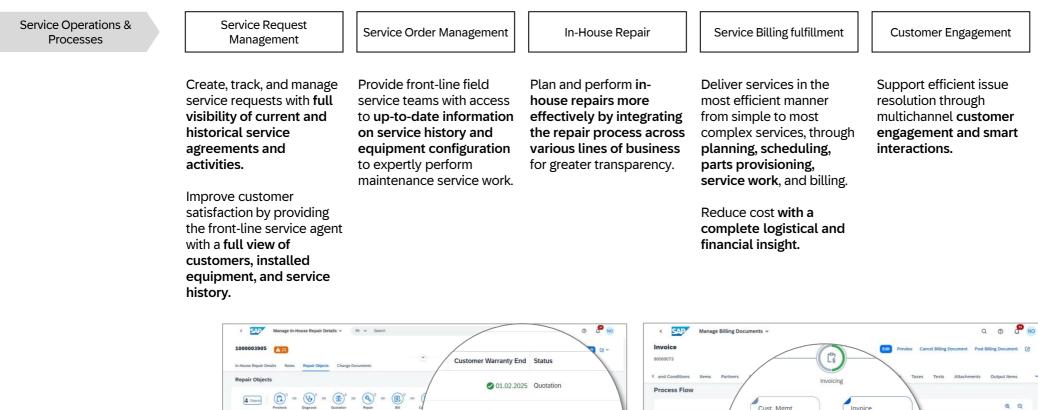
ervice Master Data and Agreement Management	Technical Assets, Structure, and History	Service Maintenance F	lan	Service Contract Mg	mt. & Warranty Mgmt.	Service Monitoring and Analytics
	Provide precise information on customer location and installed equipment to call center, field service, depot repair, and sales staff. Plan and perform maintenance services with complete records of a piece of equipment or a system via equipment master data, maintenance plan, measuring point, task list, bill of materials, etc.	Schedule service commitmen major maintenance events (e shutdowns and turnarounds) preventive and predictive se activities, based on time, cour condition, or risk	.g., to enable ervice nter,	Manage service agr arrangements, and entitlements in a sir trigger automatic per Manage corresponde warranty claims, whe organization is the wa warrantor.	customer ngle repository, eriodic billing. ence of ether your	Monitor operations and business outcome of services business by holistically capturing and measuring service performance and profitability using operational reporting and dashboards.
Service Parts Management						
Service Parts Management	Service Parts fulfillment	 Standard - Standard - Universities Selection (Conserve) 		β. α ⊗ <mark>\$</mark> .20	< SADY Claim ~ 4951 Suppler-Facing Claim	Q 💿 🕻

finance functions, as well as support

for language and localization

requirements.

Service: Service Operations and Processes



Serial I

PART_401

PART_402

PART_403

PART_404

Old Value

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ARM-5M-002

Sena Moto

ARM-SM-002

Servo Motor

ARM-SM-002

AD44.554.007

10270178

Servo Moto

10270179 Servo Mote

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Servo Moto

Change Documents (4) Standard

New Value

1027019

Change Documents

Field Name

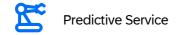
	0 2 100	< SAP Manage Billing Documents ~	a @ 🕂 NO
Customer Warranty End	Status	Invoice 90069073	EdB Preview Cancel Billing Document Post Billing Document
⊘ 01.02.2025	G Quotation	and Conditions Items Partners Invoicing Process Flow	Taxes Texts Attachments Output Items 🗸
✓ 01.02.2025	Quotation		Invoice Q Q 90069073
8 20.06.2021	Quotation	Reference Invoiced Invoice Planned For	To Be Posted Invoice Planned For 01.04.2023
	Quotation	8000029970 Net Value 280.00	Net Value 280.00 USD
		ORVELNTSSO	ocuments with Process Flow from Service
Change: By Mana	age In-House Repair		Contract to Billing
change (b) Mana	age In-House Repair	Manage Billing Do	

Service Management Solutions from SAP

Delivering a unified service resolution

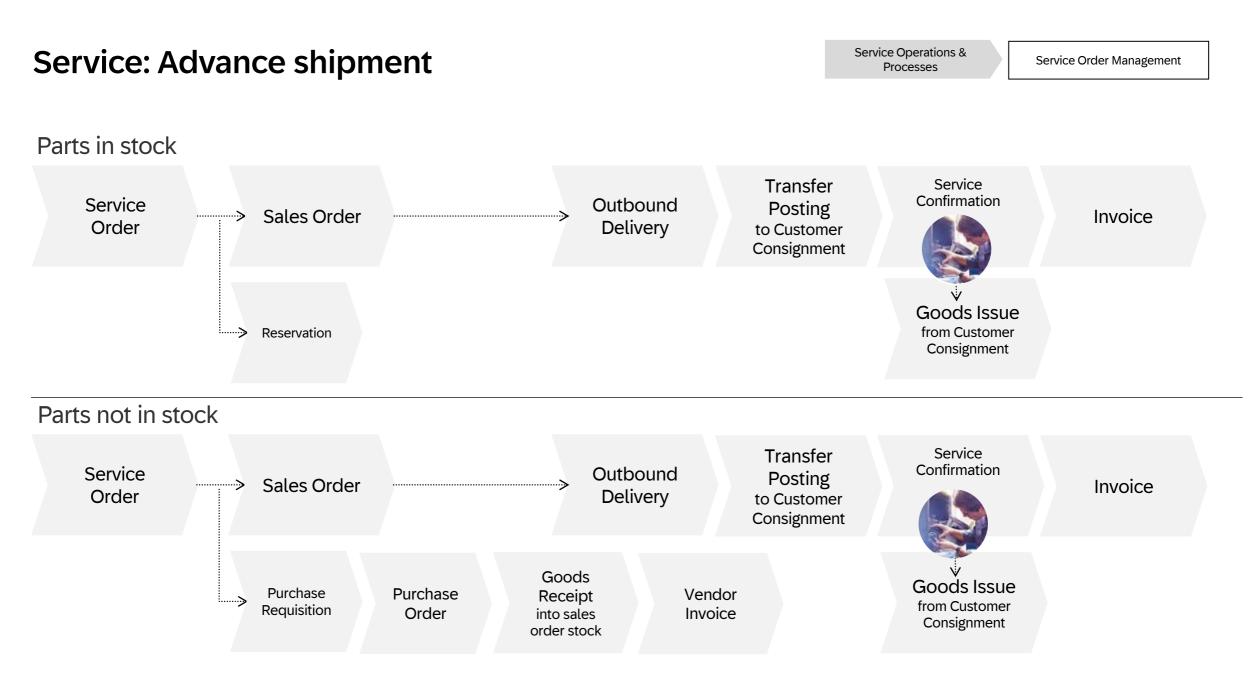


SAP Asset Performance Management



Asset Health



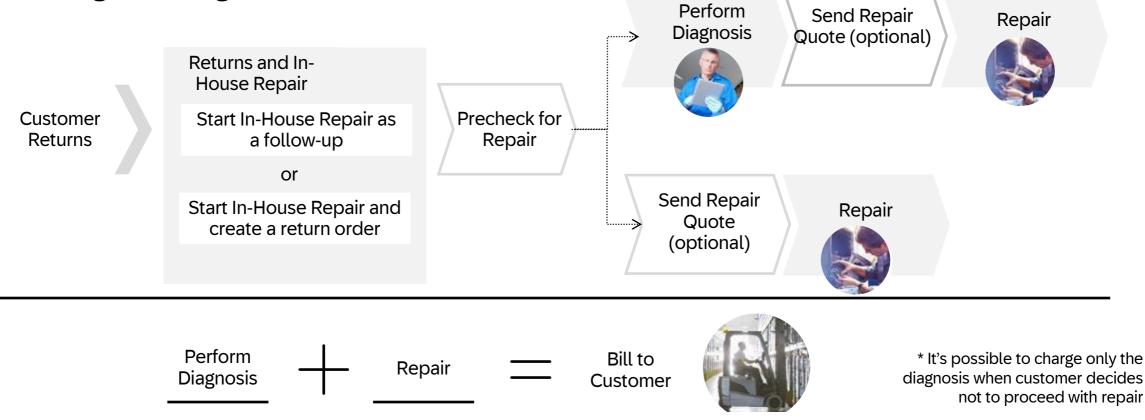


Service: Chargeable diagnostics in in-house service

Service Operations & Processes

In-House Service

- Seamless process handover with customer returns
- Chargeable diagnostics



Service: Warranty claim processing



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.

SAP Home ~		All 🗸 Searc	h	Q
My Home Warranty C	laims			
Warranty Claims	Management			
Customer Warranty Claims Overview	Supplier Warranty Claims Overview	Manage Customer Claims	Manage Supplier Claims	
		E	Ê	
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	
Manage Master	Condition Records	Condition Records	Condition Records	

Service: Example of aftermarket solution business with SAP Subscription and pay-per-use

Manage customer invoices and Keep the accounting and Set up bundles combining physical **Establish installed-base and** report as the transactions revenue share with partners, products, digital products, and subscription together with occur for asset accounting, delivery and installation automatically accounting for services together revenue recognition and costs and revenues profitability റ്റ് ┣-~ **Financials Products & Fulfilment & Quotation &** Usage **Billing & Payments &** Subscription **Delivery of** Bundles Collection Invoicing Collection Orders Products Handle high volume of usage Automate high volume of Set up and manage changes to subscriptions and data with different ratings payments and collections. entitlements from the entire connecting to various digital subscription period payment providers **Example: Subscription for Robotic** Subscription for Outcome or Usage **Painting System** Product Lease robots (asset owned by you) **One-Off Service** Installation & Training SAP Community Call recording Service Contracts Maintenance, repair, parts, consumables with system demonstration Outcome-based subscription Subscription KPI 1: Number of cars painted

• KPI 2 : Paint line throughput (cars / hour)

Subscription Order

Management

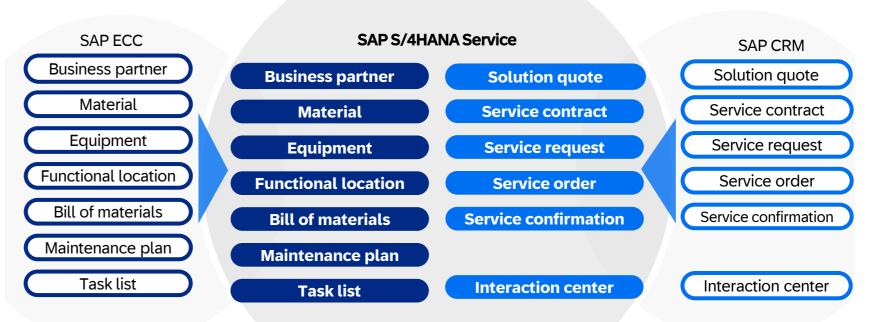
Subscription (5)

Management

Service: Data harmonization and elimination of functional redundancies

Data harmonization and elimination of functional redundancies

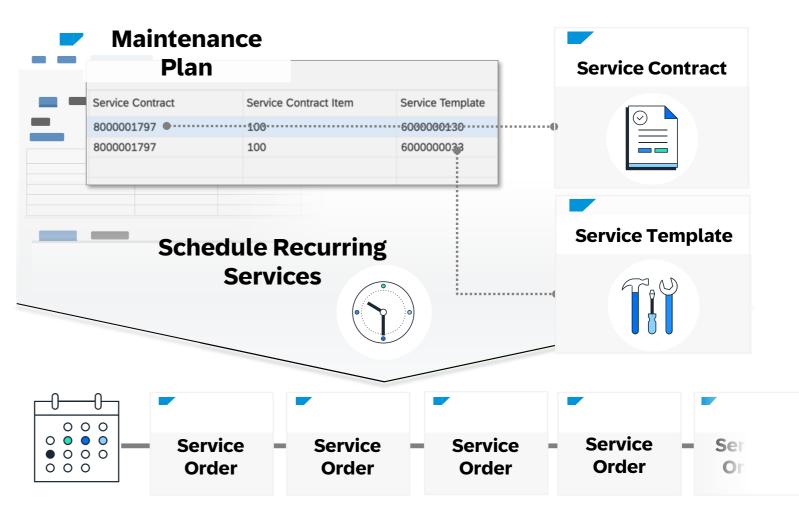
- SAP S/4HANA Service combines the data model of SAP ECC and SAP CRM into one, eliminating the need for data synchronization.
- Harmonization simplifies the ways end users interact with the system for their day-to-day work.
- Elimination of synchronization and redundancies contributes to reduction of IT costs for operation costs and systems.



Service: 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.



Service: Recurring service planning and scheduling

Service Master Data and Agreement Mgmt.

Service and Maintenance Plan

Plan and schedule recurring services using maintenance plan and service templates, linked with service contracts.

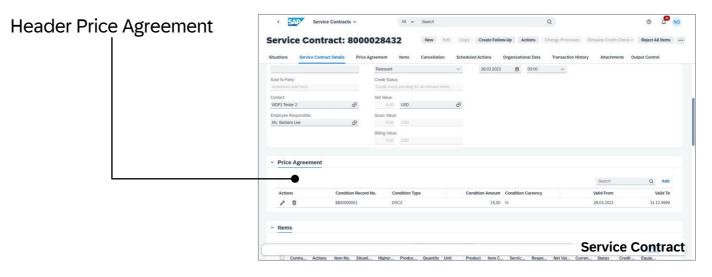
Service Maintenance Plan

• 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

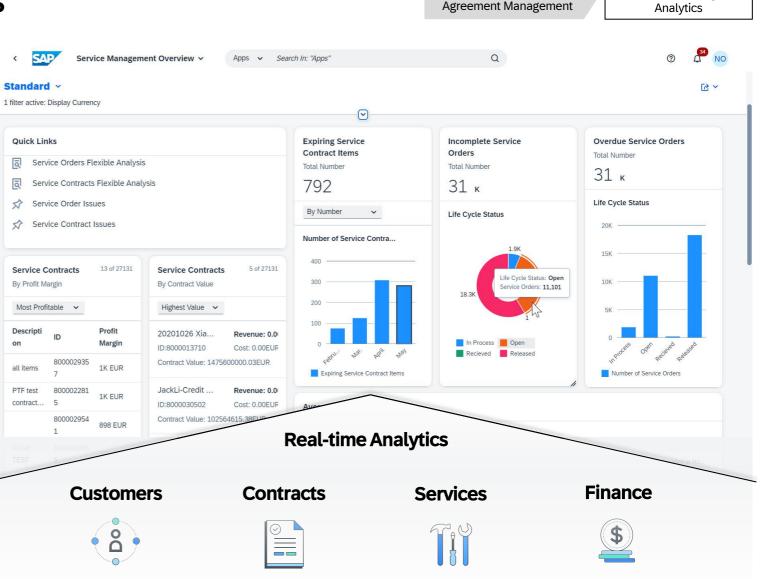
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Maintenance Items for Servic	e				
and the second second				A (1)	
Standard ~				🕸 📵 🗸 🗸	
Standard ~ Maintenance Item	Maintenance Plan	Service Contract	Service Contr		
	Maintenance Plan Item 10 (3286)	Service Contract 2020.01.01 ~ 2020.06.01 (8000001735)	Service Contr		
Maintenance Item Item 10 (6836) Service Order Type: CTU2 Planned SO te	Item 10 (3286)			Service Order Template	
Maintenance Item Item 10 (6836) Service Order Type: CTU2 Planned SO te Service Priority:	Item 10 (3286) st (ZPSO)	2020.01.01 ~ 2020.06.01 (8000001735)	100	Service Order Template 2020.01.01 - 2020.06.01 (600000029)	
Maintenance item Item 10 (8836) Service Order Type: CTU2 Planned SO te Service Priority: 2 (6819)	Item 10 (3286)			Service Order Template	
Maintenance Item Item 10 (8836) Service Proter Type: CTU2 Planned SO te Service Priotity: 2 (8819) Service Order Type:	Item 10 (3286) st (ZPSO)	2020.01.01 ~ 2020.06.01 (8000001735)	100	Service Order Template 2020.01.01 - 2020.06.01 (600000029)	
Maintenance item Item 10 (8836) Service Order Type: CTU2 Planned SO te Service Priority: 2 (6819)	Item 10 (3286) st (ZPSO)	2020.01.01 ~ 2020.06.01 (8000001735)	100	Service Order Template 2020.01.01 - 2020.06.01 (600000029)	
Naintenance Item Item 10 (6836) Service Order Type: CTU2 Planned SO te Service Priority: 2 (6819) Service Priority: Service Priority:	Rem 10 (3286) st (2PSO) MP AJAL Text04 (3273)	2020.01.01 - 2020.06.01 (8000001735) Change Process Lensiß (8000000240)	100	Service Order Template 2020 01.01 - 2020.06.01 (6000000029) Test Template 22 (6000000022)	
Maintenance Rem Item 10 (6836) Service Order Type: CTU2 Planned S0 te Service Priority: 2 (6819) Service Order Type: Service Priority: 2 (6817)	Rem 10 (3286) st (2PSO) MP AJAL Text04 (3273)	2020.01.01 - 2020.06.01 (8000001735) Change Process Lensiß (8000000240)	100	Service Order Template 2020 01.01 - 2020.06.01 (6000000029) Test Template 22 (6000000022)	
Advitemente Nem Item 10 (688) Service Order Type: CTU2 Planned SD te Service Priority: 2 (6819) Service Priority: 2 (6817) Service Priority: 2 (6817) Service Order Type:	Rem 10 (3286) st (2PSO) MP AJAL Text04 (3273)	2020.01.01 - 2020.06.01 (8000001735) Change Process Lensiß (8000000240)	100	Service Order Template 2020 01.01 - 2020.06.01 (6000000029) Test Template 22 (6000000022)	



Service: Embedded analytics

Monitor operations and business outcome of services business in realtime via analytics, looking directly at the transactional data.

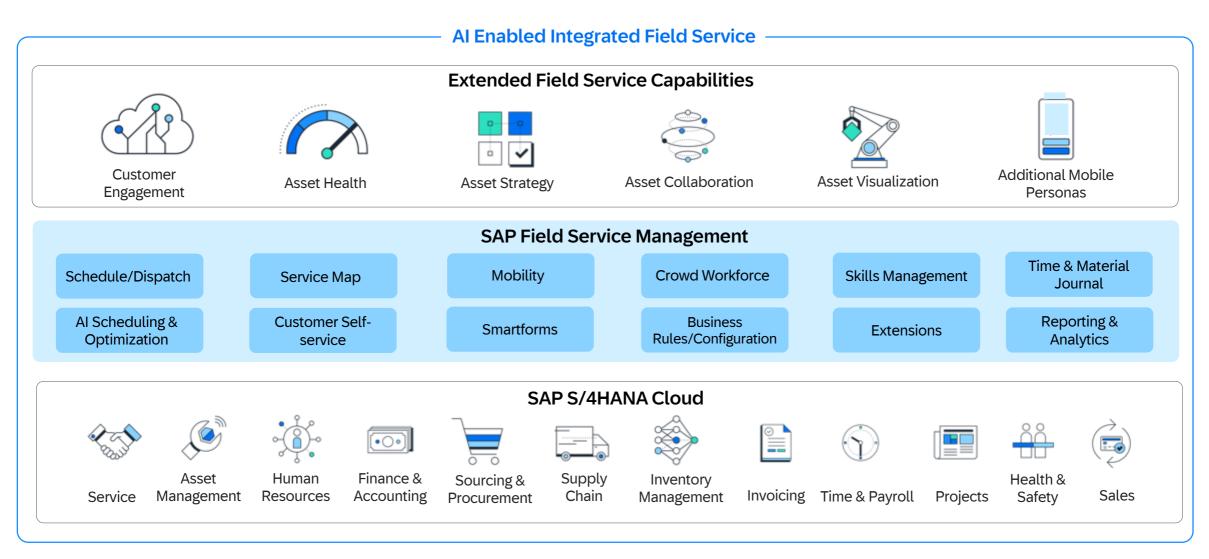
- Visualization / dashboard in real-time directly from SAP S/4HANA
- Both operational (e.g. overdue service orders) and business management (e.g. profit margin)
- Personalized for individual user roles



Service Master Data and

Service Monitoring and

SAP Field Service Management Extending the capabilities of SAP S/4HANA Cloud



Service: In-House Repair 1/2 Unified service process combining field service and in-house Unified service process

Service Operations and Processes



Combined in-house repair and field service in one service order

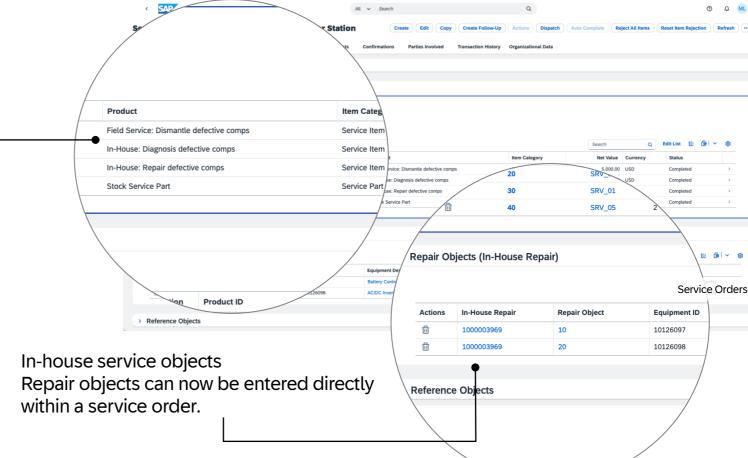
Unified service process Field services and in-house services can now be included in a single service order document to better reflect the reality of the complex service business.

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.

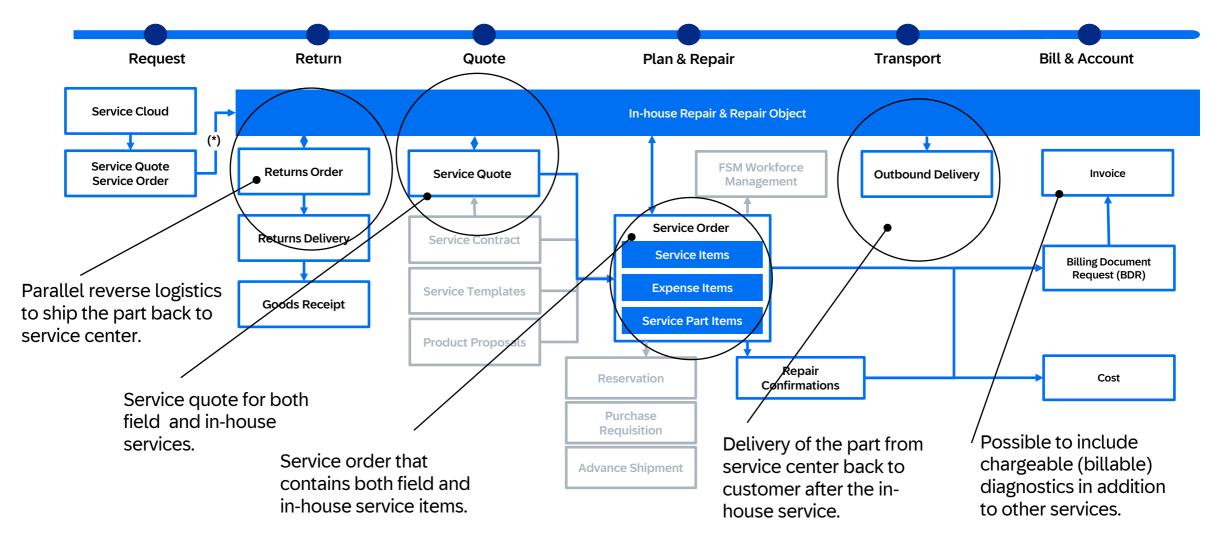
A single service order also reflects the financial and commercial aspects better: profitability in a single service order.



Service: In-House Repair 2/2



Unified service process combining field service and in-house



Service: Non-serialized products in in-house repair



Non-serialized products in in-house repair

You can now process serialized products and non-serialized products as repair objects that have been added to an inhouse repair.

Serialized products are products that have a serial number assigned and aren't related to a piece of equipment. They're identified as unique products and are recorded with the quantity 1 only. Within the in-house repair process, serialized products are handled like equipment.

Non-serialized products are products that aren't identified by a serial number and therefore can be recorded with a quantity greater than 1. You can process nonserialized products in customer returns and in in-house repair.

epair Objects Standard V	Add Non-Serialized Products			Add 🗸 🐯 値 🗸
pair Object Higher-Level O Product	Search for a product. Q		Hide Filter Bar Filters (2)	
	Sales Organization: Distribution Channel:			
	=1010 x d			
nange Documents Standard V	Non-Serialized Products (602)		·	© \$ @ ∨
d Name New Value	Product	Quantity	уре	
	Single Article (HAWA) (ART_VAS_ICS)	1	EA	
	Application Unit (AVC_RBT_APPL_UNIT)	3	PC	
	Base Frame (AVC_RBT_BASE_FRAME)	7	PC	
	Control Board (Painting) (AVC_RBT_BRD_PAINT)	1	PC	
	Control Board (Sealing) (AVC_RBT_BRD_SEAL)	1	PC	
	Robot Bundle (AVC_RBT_BUNDLE)	1	PC	
	Control Board (programmable) (AVC_RBT_CNTRL_BRD)	1	PC	
	Control Canbinet (AVC_RBT_CNTRL_CAB)	1	PC	
	Control Unit (AVC_RBT_CNTRL_UNIT)	1	PC	
	Control Unit (Configurable) (AVC_RBT_CONTROL)	1	PC *	
			Art Cancel	

Service: Warranty management

 Enhancement of Warranty Determination for Service Items

Service items are recorded in the Master Warranty individually as either included in warranty or excluded from warranty. This information is then used for warranty determination of the service items during a service transaction. An equipment can have a large number of individual service items. The warranty determination has been enhanced to include warranty for all the service items by maintaining a blank entry.

• Accounting Indicator in Master Warranties With this feature, you can set an accounting indicator in the warranty objects assigned to a technical object. When the equipment is reused in a service order, the accounting indicator with the warranty information will be copied over.

			•							02		
< <u>S</u>	Create Master Warranty: Initial Scre	en ¥						(<u>م</u>	<u>ک</u> (10
Menu 🗸 🤇	Classification										E	xit
Services	Master warranty: Warranty type:* Customer warranty WarrantySortFld: ExtWarrantyNo.: WarrantyGroup: AcctIndicator: G1 Count.	ubassembly Warranty 60 Month	/									
≚∃ Item	Service	Text	Lon S	SortID	Incl/	Confi	Servi				ø	
	ANNUAL_TURBINE_SRV CALIBRATION	Annual Turbine Service Calibration Service (Unloader Valve)		Solub	In v In v							
		Accounting Indicator (1) Search and Select										
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		Items (4) A = Accounting indicator desc Special case: 50% S1 Nor-Billable Demand Z1 Warranty Z2 NAV_Warranty						Find (Find next				

Service Master Data and

Agreement Management

Warranty Management

Service: Multiple billable maintenance orders

In a single service order item

Distributed execution in Service with Advanced Execution

You can now create multiple billable maintenance orders corresponding to a single execution order item. This allows you to distribute the planning and execution of one execution order item to several billable maintenance orders.

SAD Service Orders ~ ? Q Д M < Service Order Item: 10, Pump Maintenance New Copy Print Preview Delete icheduled Actions Attachment Parties Involved Change History Transaction History Service Level Agreements Maintenance Orders Maintenance Order Maintenance Orders Search Q Edit Order Order Type Short Text **Planning Plant** Main WorkCtr Plnt WorkCenter **Planned Costs** System Status 4020942 YBA1 Corrective Maintenance 1710 RES-0100 1710 688.52 REL MACM PRC_SETC 4020927 1710 YBA1 Corrective Maintenance **RES-0100** 1710 CRTD MACM PRC 688,52 Maintenance Order Edit View Document Flow Maintenance Order Details Status Costs Person Responsible Order Type System Status: Planner Group: Estimated Cost: REL Released MACM Material committed ID Main Work Center Planned Cost: PRC Pre-costed 4020942 SETC Settlement rule created Actual Cost: Description User Status: (\mathbf{i}) Service Orders

Service: Price items Service orders and service quotations

SAP							Serv	vice O	Orders ∨				C	λ	⊕ <u>8</u>
vice	Or	der: 8	0000316	39, Ur	gent service	(comple	ex)		Create	Copy Create Follow	-Up Actions	Dis	patch Au	ito Co	mplete
Service	Orde	r Details	Items	Notes	Attachment Co	onfirmations	Transact	tion Hi	istory Output Contr	ol					
how:															
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All Items	Sea	arch			Edit List Insert F	Renumber Item	s Delete	Coj	py Copy from Temp	plate Release All Items	Product Propos	al Co	ontract Selec	tion	
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Il Items	1	tions	1	٩			Unit	Cop				C	1	tion	•••• >
0	Act	tions	Item No.	٩	Product ID	Quantity	Unit		Product	Item Category	Net Value	C USD	Status		•••• > >
0	Act	tions	Item No. 10	Q Higher	Product ID CSSRV_01	Quantity	Unit HR EA	ð	Product Service	Item Category Service (Fixed	Net Value 9.000,00	C USD USD	Status Released	>	> > >
	Act	tions	Item No. 10 20	Q Higher 10	Product ID CSSRV_01 SRV_02	Quantity 1,0 1 1	Unit HR EA	ට ට	Product Service Service Expense	Item Category Service (Fixed v) Expense (Fixed v)	Net Value 9.000,00 150,00	C USD USD USD	Status Released Released		••• > > >

Price items can only be the subitems of service items or execution order items that have been added to service orders or service order quotations. When you use a price item, it inherits the account assignment object in service orders and the service contract from its higher-level item. The price item also inherits the external reference from its higher-level item, but you can change the external reference of the price item manually. You can now use a price item in service orders and service order quotations to reflect the surcharge for additional service provided.

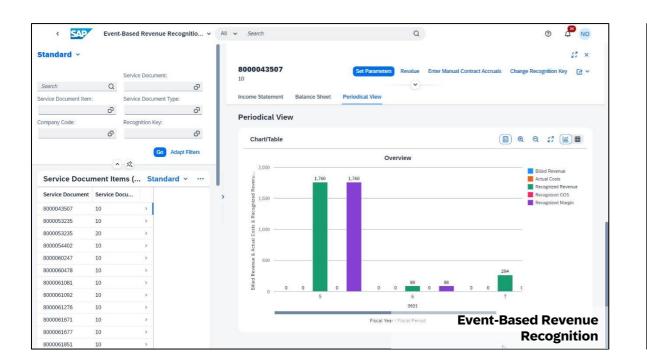
Price items are particularly useful if you discover that the fixed price agreed upon cannot cover all service costs and you need to charge your customers more.

Item-based accounting is a prerequisite for price items.

Service: Item-Based Accounting

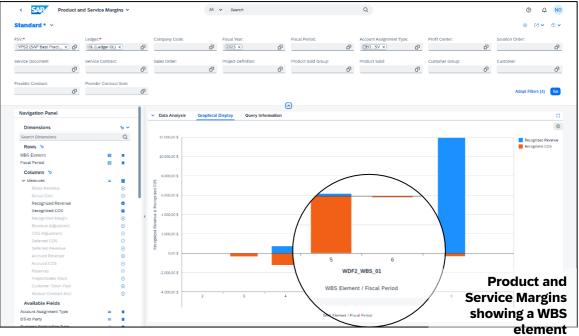


Item-Based Accounting in Service



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.

Service: Key capabilities in item-based accounting

Planned cost and revenue calculation

Tracking baseline and ongoing cost and revenue per service order.

Service Order Details	ltems	Notes	Attachment	Confirmations	Transaction History	Output Control	(Planned Cost and Revenue)	
Baseline			Ongoing					Update Baseline
pesculic			OUEOUE					
Baseline Planned Cost:			Ongoing Plann	ed Cost:				
4.032,00 USD	N		4.032,00 USD					
Baseline Planned Revenue:	5		Ongoing Plann	ed Revenue:				
4.850,00 USD	0.0		4.850,00 USD					
Baseline Calculation Status:			Ongoing Calcu	Indian Changes				
Successful			Successful	laion Status.				
Baseline Planned Margin:			Ongoing Plann	ed Margin:				
16,87 %			16,87 %					

Financial reporting and margin analysis

Real-time profit and loss for your service business without waiting for month end.

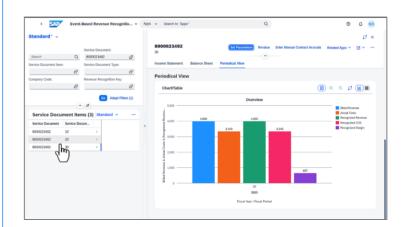
ompany 1710 2023	*	Service M Code, Fiscal	Year, Account Assignment Type		Q		0 4 NO
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Dimensions			<no bookmark="" loade<="" th=""><th>d> v ⊽ Filter v Sort v Hi</th><th>rachy v Drikdown v Display v</th><th>Measures - Totais -</th><th>Navigate To 🗸 🙆 🗸</th></no>	d> v ⊽ Filter v Sort v Hi	rachy v Drikdown v Display v	Measures - Totais -	Navigate To 🗸 🙆 🗸
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				SRV0/8000022862	\$ 0,00	\$-25,00	5-25,00 **
WBS Element	8		WDF2_WB5_01	ZSV0/8000007144	\$ 375,00	\$ -500,00	\$ 252,55
Service Document			_	Z5VG/8000008081	\$ 0,00	\$ -1.700,00	5-1.700,00
Columns to				ZSV0/8000008172	\$ 0,00	\$-1.050,00	\$-1.050,00
> Measures				REPOI400000030	\$ 0,00	\$ -240,00	\$ -240,00
Available Fields		100		SC/700000680	\$ 300,00	5 0,00	\$ 75,00
				SRV0/800008580	\$ 0,00	\$ -193,00	\$ -193,00
Account Assignment Type		•		5RV0/8000011045	\$ 0,00	\$ -450,00	\$ -450,00
Bill-to Party	=		WDF2 WBS 02	SRV0/8000011100	\$ 0,00	\$-900,00	\$ -900,00
Business Transaction Type	-		- I must_man_ne	SRV0/8000011105	\$ 0,00	\$ -450,00	\$ -450,00
Chart of Accounts	=			SRV0/6000020624	\$ 0,00	5-61,30	5 438,70
Company Code				SRV0/8000023490	\$ 4.850,00	\$ -3.543,00	\$ 1.307,00
Company Code Currency	=			SRV0/800023491	\$4.850,00	5-3.90	\$ 1.307,00
Controlling Area				SRV0/800023492	\$ 4.850,00	\$ -3.54,00	\$-657,00
Customer	=			5C/700000680	\$ 300,00	موالع	\$ 75,00
Customer Group			WDF3_WB5_01	SRV0/8000013474	\$ 0,00	\$ 0,00	\$ 0,00
Customer Supplier Industry	=			SRV0/8000016922	\$ 200,00	5-240,00	5-40,00
Customer or Supplier Cou				MC01/800000033	\$ 0,00	\$ -390,00	\$ -390,00
Distribution Channel	-			MCC1/800000034	\$ 0,00	\$ -585,00	\$-585,00
Division				MC01/900000036	\$ 0,00	\$-325,00	\$ -325,00
Fiscal Period	-			MCOL/800000037	\$ 0,00	\$-325,00	\$-325.00
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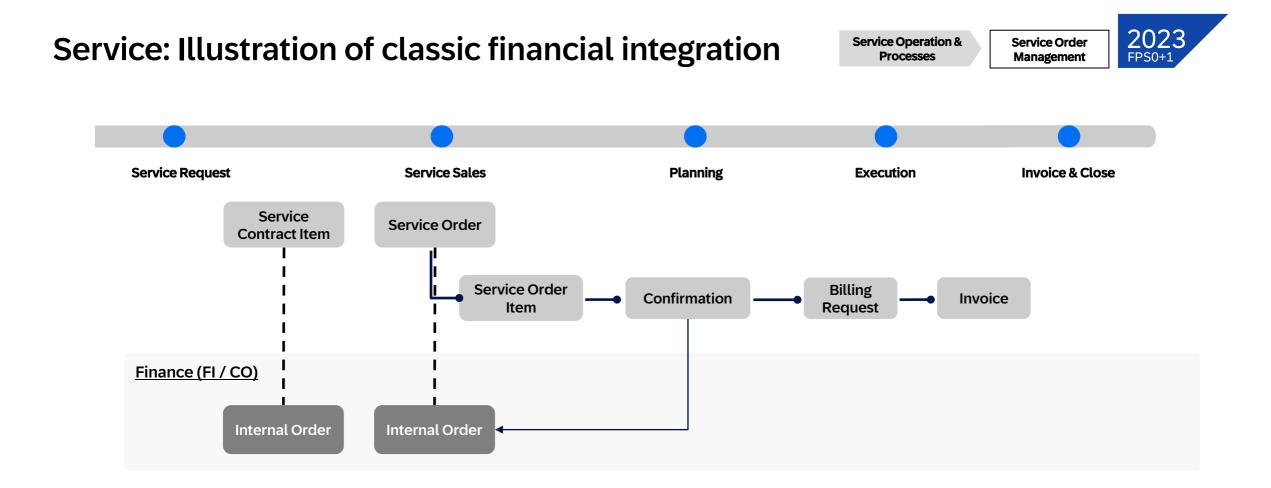
Event-based revenue recognition (EBRR)

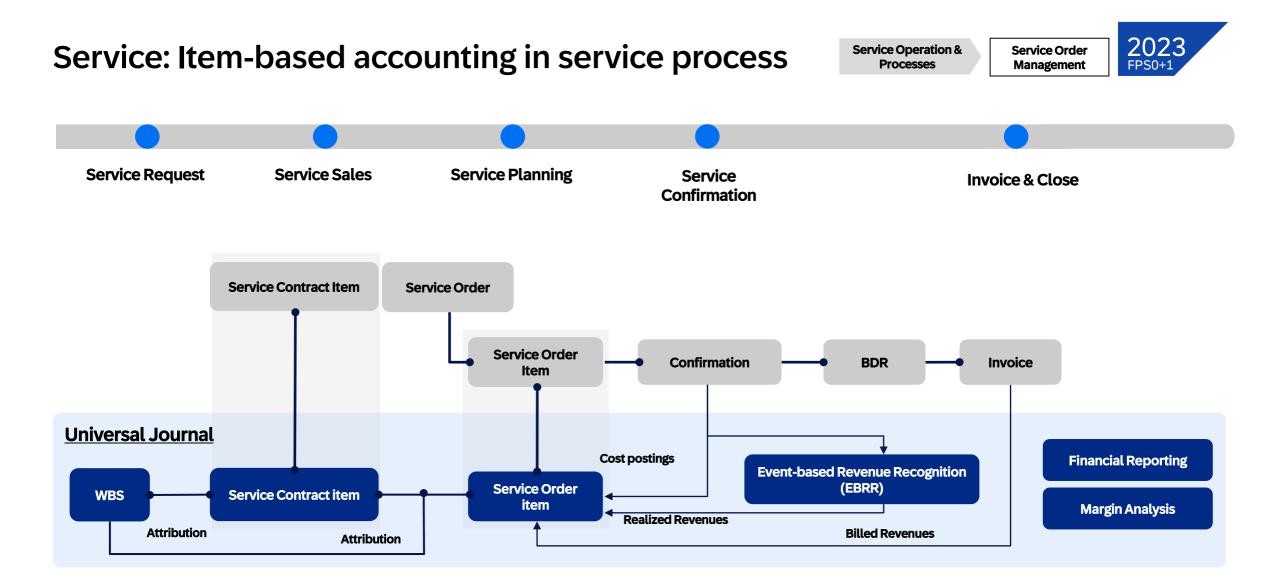
Service Order

Management

Accurate revenue recognition for various methods as each relevant transaction occurs.







ervice: Service with Advanced Execu	tion	Service Ope Proces		ervice Order 1anagement	2023 FPS0+1
					e with Execution
enu v Material availability, overall Paging/communication Settlement rule Document flow Maintenance object address Permits Notification Status Services for Object v Ex Order: YBA1 4013944 Service Product	* Service Order Item:	20, Regular Inspectior	1	< > New Delete Copy	Print Preview
Sys.Status: CRTD NMAT PRC 🕢 Has Open Main Work 🖉 Biltable	Execution Order Item Details Notes	Price Details Billing Dates Serv	ice Level Agreements Maintenance Ord	er	
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Sales Data	Maintenance Order Details	Status	Person Responsible	Costs	
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Sales Office:	Description:			Actual Cost:	
Sales Group:	Service Product	User Status:		0,00 USD	
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Person respons: 20 Aruchamy Ramkumar PMActType: YB1 Fault Clearance Service Order Item (Commercia		Maintenanc	e order for the S	ervice Order Item	(Operational)

- You can now use the **Mass Schedule Maintenance Plans** -Service app to schedule a large number of maintenance plans for Service with Advanced Execution.
- You can now use In-House Repair with Advanced Execution

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**.

Service: Key capabilities in Service with Advanced Execution



Resource-related Quote

Simulate actual service work to calculate costs for a service quote.

Configurable	Task Lists
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Configurable service items in service quote and service order

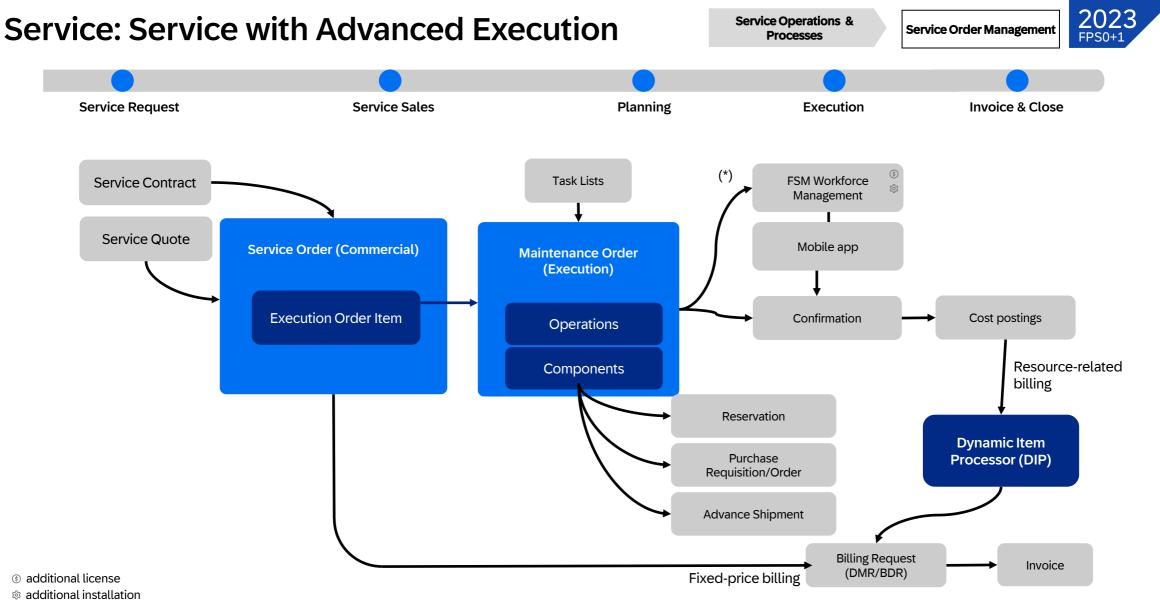
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e 🖉	Execution Order Item D	Details No Status A Details	Price Details Billing Price Element Charged Costs Mark-up Percentage Price Gross Sum Surcharges/Discounts	Dates Price 463.51 0,000 700,00 700,00 0,00	Maintenance Order Unit USD USD USD USD USD USD USD	- [-
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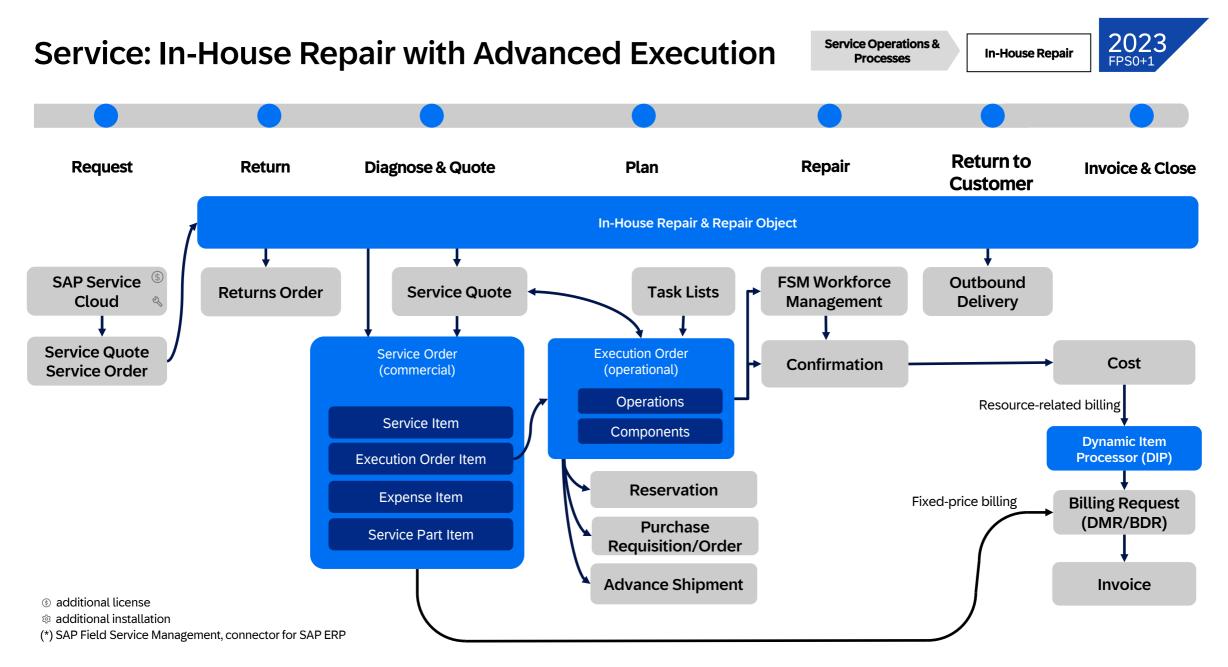
Fixed Price & Resource-related Billing

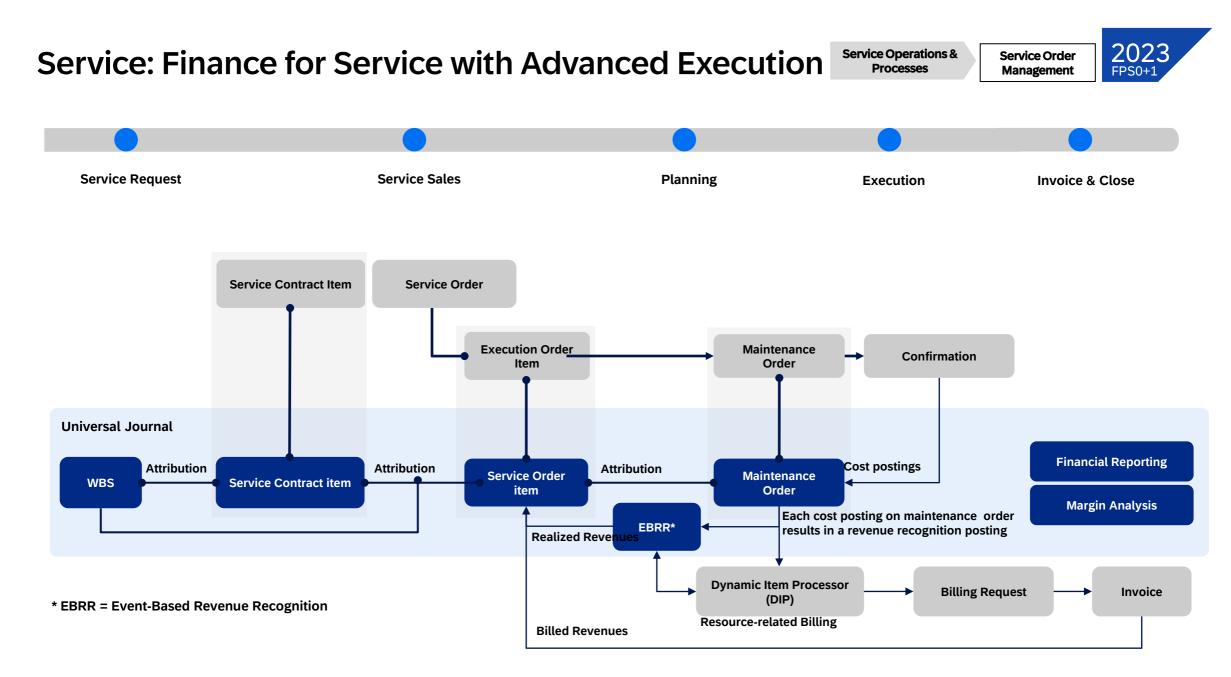
Various method for billing: fixed price and "cost plus" (resourcerelated billing). Bill upon completion, billing plan, itemized billing, and summarized billing

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	30 Service Repair Hour						



(*) SAP Field Service Management, connector for SAP ERP





2023 **Service Operations & Service Order Management** FPS0+1 Processes Sale of **Billing and** Service Service Invoice & Close Service Planning Finance Confirmation Customer Selling Company **Company that Performs Services** Service Order **Ico Service Order** Ico* Service Ico* Service Item (distributed) Item Service Item Service Confirmation Service Part Item **Billing Document Expense Item** Request **Cost Posting Customer Invoice Billing Document Accounts Payable** Request Ico Invoice **Cost Posting**

* Ico = Intercompany

You can 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.

You can only use a fixed price service item for an intercompany service order. Cascade Intercompany Items When you receive 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.

Service: Intercompany service orders

Service: Delta scope summary



Service Master Data and Agreement Management

Service Contract Management

- Streamline revenue recognition by aggregating all revenue from service orders and maintenance tasks at the service contract level. Cost-based percentage of completion method is now supported for a service contract as a root in financial hierarchy.
- Efficiently deal with changing contract prices in the future for renewal by defining prices in advance for service contract items that are planned to be extended through automatic renewal in the future. Get the **new situation for automatic contract renewal** to notify service managers to check the prices for a service contract item.
- Keep track of the relationship of service contract items with their related transactions using **external references** in service contract items.

Warranty Management

- Enhancement of Warranty Determination for Service Items
- Accounting Indicator in Master Warranties (Asset Management)

This summary is not exhaustive. Refer to What's New Viewer for a complete list.

Service Operations & Processes

In-House Repair

- Combined Process of In-House Repair and Field Service
- Initiate In-House Repair Process from Service
 Orders and Service Quotations
- Multiple Service Quotations and Orders for One Repair Object
- · Requotes in In-House Repair
- Manage Repair Objects App (Deprecation of Apps in In-House Repair)
- Create Service Order for Multiple Repair
 Objects
- Process Serialized Products and Non-Serialized Products
- Updated Availability of Scrapped Repair Objects

Service Order Management

- Mass Creation of Resource-Related Billing Requests App
- Resource-Related Cost Item in Service with Advanced Execution
- BDRs in Transaction History of Service Order and Service Confirmation
- Manual Goods Issue for Service Parts
- Material Valuation for Split Valuation
- New Item Categories for Service Order Management
- Integration with SAP Global Trade Services
- Situation Template: Trade Compliance Check
 Blocked/Pending

Other

- Manage Substitution/Validation Rules Service
 Documents
- Automatic Determination of Enterprise Service
 Organization



Service Operations & Processes

General

- Intercompany Service Orders
- Service Quotation as Maintenance Call Object
- Requotes in Service Order Quotations
- Using Multiple Serial Numbers in Confirmation Items (mass entries)
- Batch Entry Enabled for Confirmations
- Serialized Product as Reference Object in Service Transactions
- Unplanned Items in Service Orders and Repair Orders
- Configurable Products and Product Variants in Service Order Quotations and Service Order Templates
- Stock Transfer to Storage Location of Executing Service Employee

Service with Advanced Execution

 You can now create multiple billable maintenance orders for a single execution order item (FPS1)

Item-Based Accounting in Service

• Price Items in Service Orders and Service Order Quotations (FPS1)

In-House Repair

- Availability Check and Reservation of Stock
 Service Parts
- External Workforce Procurement in In-House Repair
- Triggering Actions for Multiple Repair Objects
- Customizing Activity to Display Actions in In-House Repair Apps
- Integration with SAP Field Service Management
- You can now use In-House Repair with Advanced Execution

Pricing

- Pricing Analysis in Service
- Additional Subtotal Fields for Service Order Items
- Modular Pricing Procedures for Automatic Inclusion of Price Conditions in Service

Profitability Analysis

- Service Plan/Actuals to Report on actual and plan data for Service Business
- Controlling for Account Assignment Objects in Service Transactions (WBS or Internal Order when item-based accounting is off)

Event-Based Revenue Recognition

 New Supported Revenue Recognition Methods for Event-Based Revenue Recognition with Advanced Execution including Method 3: recognize revenue on cost-based percentage of completion (POC)

This summary is not exhaustive. Refer to What's New Viewer for a complete list.

Finance

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





Finance: Overview

Modular Cloud LOB Solutions③ additional license③ additional installation	 SAP S/4HANA Central Finance SAP S/4HANA Cloud for Advance SAP S/4HANA Group Reporting SAP S/4HANA Receivables Mane SAP S/4HANA Cloud for Custon SAP S/4HANA Cloud for credit in 	 SAP Digital Payments Add-on SAP Cash Application SAP Cash Application SAP Analytics Cloud SAP Analytics Cloud SAP Trading Platform Integration
SAP S/4HANA	Adv. Accounting & Financial Close	Drive a faster, compliant financial close with less cost and effort and a high degree of automation.
LoB Apps (i) additional license	Adv. Financial Operations	Balance the need to decrease days sales outstanding (DSO) and bad debt write-offs, while maintaining superior customer service and reducing cost with automated exception handling, validation, and routing of invoices.
	Treasury Management	<i>Improve</i> the management of every activity associated with cash, payments, liquidity, risk, and compliance by simplifying working capital, risk management and compliance.
	Commodity Management	<i>Identify and qualify</i> financial risks associated with commodity price volatility in Sales and Procurement and mitigate by hedging them with commodity derivatives.
	Subscription Billing and Revenue Management	<i>Leverage</i> flexible models to include subscription and usage-based billing, partner revenue share, receivables mgmt. and payment handling as well as credit and collection mgmt.
	Real Estate Management	Perform activities from portfolio analysis and investment tracking to lead qualification, lease posting, rent escalation, and maintenance and repair service orders.
	Accounting and Financial Close	<i>Simplify</i> corporate accounting and financial close, close books, create financial statements, and manage according to IFRS as well as local legal regulations.
SAP S/4HANA	Financial Operations	Process outgoing and incoming invoices and respond rapidly to fluctuating market dynamics.
Enterprise Management	Cost Management & Profitability Analysis	<i>Collect,</i> assign, and analyze costs by project, order, cost center, or business process; to accurately evaluate the profitability of markets, channels, products, and segments.
	Enterprise Risk and Compliance	<i>Manage</i> risks, controls and regulatory requirements in business operations, especially import and export compliance, as well as free trade agreements.

Finance: Business area overview

Modular Cloud LOB Solutions③ additional license③ additional installation	 SAP S/4HANA Central F SAP S/4HANA Cloud fo SAP S/4HANA Group R SAP S/4HANA Receival SAP S/4HANA Cloud fo SAP S/4HANA Cloud fo 	r Advanced Financ eporting bles Management r Customer payme	 SAP Account Substantiation and Automation by BlackLine SAP Digital Payments Add-on SAP Cash Application SAP Cash Application SAP Analytics Cloud SAP Trading Platform Integration 						ed Payme / and Risl ctivity ntegration agement	ent Managel K Managem N			
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	Subscription Billing and Revenue Management	Subscript. Order Management			Convergent Invo	icing		Collection gement		Customer Care and pute Management			
	Real Estate Management	Contract & Lease Energy Mgmt.			rgy and Safety Investment and Construction				nance and epair	Portfolio & Locatio Mgmt.		tion Workspace Mg	
	Accounting and Financial Close	Revenue and	d Cost Account	ing	g Financial Accounting				Entity Close	e nic Bill Presentment & Payment		Financial R	eporting
SAP S/4HANA	Financial Operations	Accounts F	Dayable	А	ccounts Receiv	vable Cash Ma		anagement Electron				Settlement Managen	
Enterprise Management	Cost Management & Profitability Analysis	Over	head Cost Mar	nageme	nt		Produc	ct Costing		Profitability Analysis			is
	Enterprise Risk and Compliance						Internationa	al Trade Mgmt					

Finance: Delta Highlight

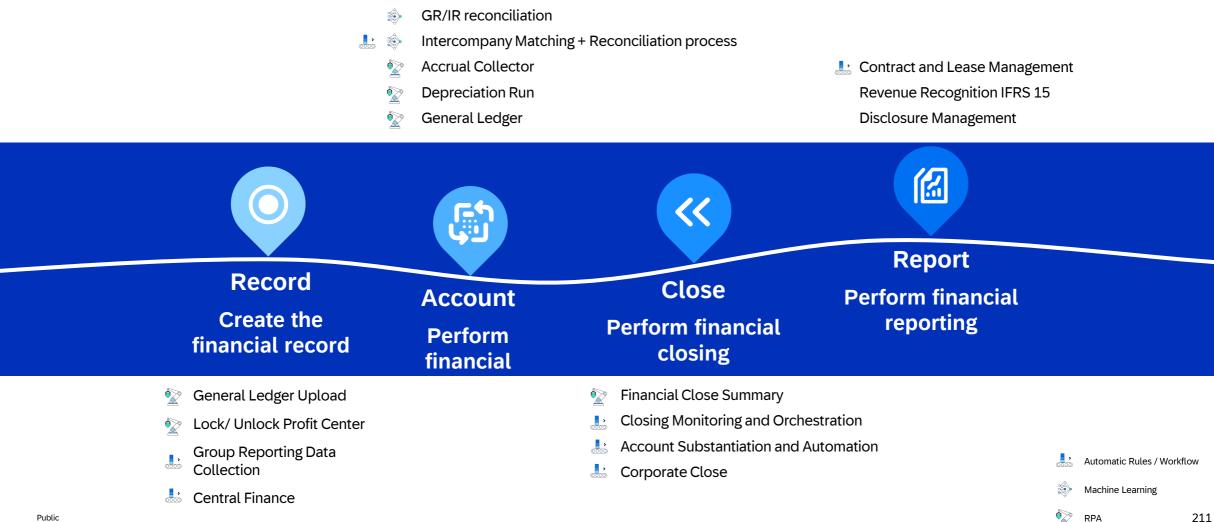


		FPS0+1
SAP Analytics Cloud (Planning)	SAP Cloud for Advanced Financial Closing	Predictive Liquidity Forecast
 Improved integration scenarios with SAP S/4HANA including content for fast time-to-value & applied prediction and AI, including Predictive liquidity forecast and intelligent cash collections Financial planning content integration with sales planning Planning consolidation 	 Automated balance validations for improved closing quality Advanced orchestration of SAP Intelligent RPA bots for closing for further automation scenarios 	
Advanced Accounting & Financial Close	[®] Billing and Revenue Innovation Management	Advanced Treasury and Working Capital
 Group reporting innovations include: Group Financial Statement Review Booklet (FPS01) Central Finance innovations include: Improved error resolution in all pending journal entries 	 Convergent Invoicing Subscription contract lifecycle management Subscription Order Management Extensibility driving transparency and flexibility for services and subscription 	 Improved In-house bank functionality Advanced bank statement handling for intra and end day statement Improved smart trading for hedge request Advanced memo record processing Intelligent Collections – predictive capabilities to help cash collections teams reduce late payments Promise-to-Pay Documents as Payment Advice Advanced Reprocessing rule definition for Open Item Clearing
Accounting and Financial Close	Cost Mgmt., Profitability & Margin Analysis	International Trade & Tax
 Organizational flexibility in financial accounting: profit center reorganization is available with new analytics and improved usability and is considered in key scenarios, such as for network and network activities, for maintenance orders, in predictive accounting, and in accruals management. New user experience for journal entry management Simplified definition and automated execution of account balance validations to ensure data quality 	 Handle multiple accounting principles using ledgers in Management Accounting (Universal Parallel Accounting*) Group ledger to provide a management view of intercompany transactions Review Booklet for Margin Analysis for Sales Accountants 	 Automated checks to ensure consistency of electronic documents with authorities' portals Automated error notifications for e-docs failures Enhanced preview of statutory reports to enable simpler review of errors and faster corrections Suppression of sales doc output in integration scenario with SAP GTS compliance service(FPS01) Suppression of invoice creation in integration scenario with SAP GTS compliance service(FPS01)

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

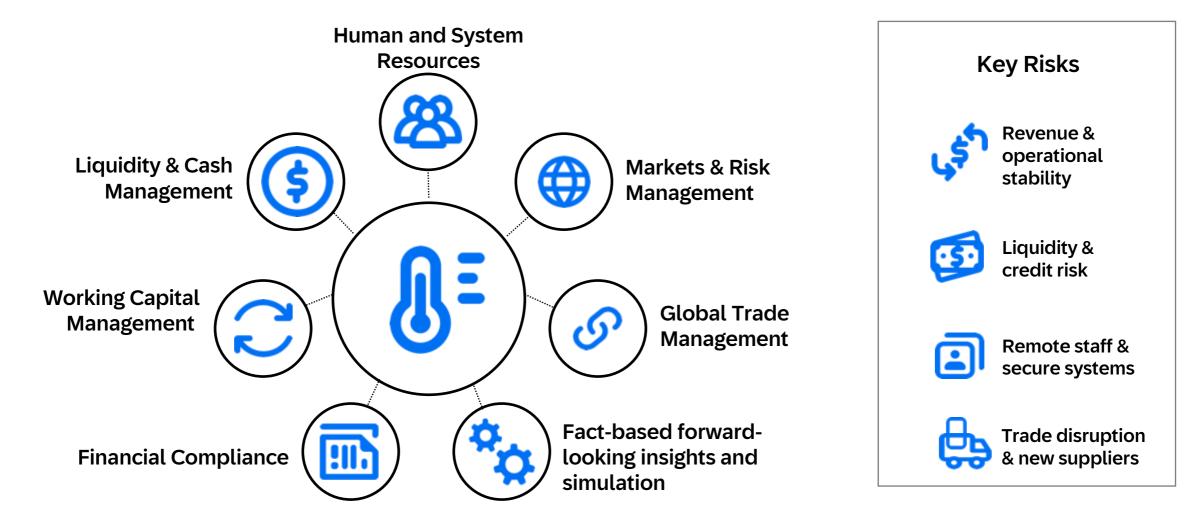


RPA



Finance: Business Challenges for CFOs

Delivering key insights in time to steer the business



Finance: Accounting and Financial Close

Accounting and Financial Close	Revenue and Cost Accounting	Financial Accounting	Entity Close	Financial Reporting
	Automate financial and managerial accounting processes like revenue recognition and production costs to help companies ensure continuous compliance	Record and summarize business transactions and create periodic reports on the financial results and financial position of a company	Close the period by performing key accounting tasks: manual adjustments, accruals, etc. Run technical financial jobs	Produce statements that disclose an organization's financial status to management, investors, and the government

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+ DHIR		-301.641,212,46 USD	-424.167.861.62 USD	42 526 658 16 USD	30.0
* CM18		-381,641,202,46 USD	-424.167.861.82.USD	42.526.658.25 USD	10.0
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- Revenue		-1.276.490.474.29.05D	-1.543.779.796,38 USD	-\$32,750,687,82,050	-11,6
Revenue Domestic - Product	41000000	-3.034.776.547,39 ((55)	958-479-579-43 1/50	-138 296 967 79 USD	-32,9
Revenue Foreign - Product	#1003300	-341,713,927,30,150	-227,300,206,97 USD	-54.413.720.03 USD	-6.3
+ Dispart		2.943,11.050	740.95 USD	7,202,56 USD	297,3
 Material Costs 		623.429.905.05 uSD	478,734.399.13 USD	44,695,585,82,050	9.3
COGS Direct Material	50303550	523 428 905,05 USD	478,734,328,13 USD	44.005.565.32 USD	8,2
+ Labor Costs		76.652.623,35.05D	68.092.298.95 (/50)	4.540.253.25 USD	8,6
COSS Parsavnal Time	50304000	74-612 823.38-050	66.092.299.91.05D	6.560.355.29 USD	9,6
 Manufact, costs 		115.308.526,62.050	\$15.449.995.36 USD	10.478.8E1,24 USD	9,9
CDSS Markew Time	55305000	64,927,534,38 V50	\$9.058.347,64 USD	5.899.394,54.VSD	5,5
COSS Setup Time	50306000	52.000 992.42 USD	46.381.3L7.72 USD	4.623.674,70 (/55)	10,0
 Overhead casts 		55-698-210,24 USD	50.865 SHL04 USD	4.832 631,00 USD	9,5
COSS Material Overhead	50303000	36.540.086.45 USD	88/511.097.11 USD	3.128.689.35 USD	3,3
CDG5 Production Overhead	50307000	10/098-123.76 USD	17.354.201.81.050	1.703.921.89 USD	5.5
- Scap		57.033.555.23.050	63.005.995.70 USD	-5.972.440.47.050	-4.5
Inventory Change - Scrap External Products	54053000	54 306 395 23 1050	59.036.795.70 USD	4.995.440.47 (/90)	-6,4
Inventory Change - Scrop over Products	54053000	2:927 200,00-050	\$ 909 200,00 USD	982.000,00 USD	-25.5
- Vatalices		68.203.507.95 \(50)	-46.536.665.33 USD	134.845.199.26 USD	246,2
Loss Price Otherences External Products	52043000	25 895 893,37 1/52	19 136 954 02 USD	6.758.877.35 USD	35.3
Input Price Variance	52072000	92,791, 373,22 \u00e460	6.027 344.92 USD	97.778.617.74 USD	1.944,9
Input Quartity Variance	52072000	M.19150	45.02 USD	-8.02 (/50	-17.8
Resource-Osage Variance	52073000	33, 395, 513, 37 utp	-33-652 503-57 USD	367,482,20 USD	4,5
Remaining Input Variation	52074000		rofit and Los		

Standard * ~ 7 Blars active: Company Code, Ledget, Stalement Venius, State	ment Type, End Period,						Show Fillings
All Accounts Balance Sheet Profit & Loss Unassig	med Accounts (213)	Rotes		2	Seath	0 × 2	Standard v 🖶 d
Description	G/L Account	Segment	Profit Center	Period Balance	Comparison Balance (Actual)	Absolute Difference	Relative Difference
* ASSETS				120.971.385.525.17.USD	170-208 178 943 54 USD	743.205.982.63.USD	0.4
 Cash & Cash Endoalarth 				63,302,213,140,67,050	\$2,775,832,056,54 USD	526.327.054.13.050	0.0
 Accounts Receivable 				1.560.072.687.04 USD	1.525 744 658 33 USD	23.328.028.71 USD	
v Turk Revelution . Downstin				1 527 464 695 88 USD	1,496,322,423,96 USD	\$1.137.771.92 USD	2.1
Trade Receivables Domestic	12100000			1,200,074,070,20,150	1.175.950.784.37.050	31.134.073.92 USD	2.0
Trada Receivables Demestic - One Time Accounts	12100500			319.573.974.00 USD	319.573.574.00 USD	0.001/50	0.
Trade Receivables Domentic due > 1 Year	12103000			-108.000.00 USD	-308.000.00 VSD	0.00 USD	0.
Trade Receivables Domestic Adjustments	12102000			-101 325 41 1/50	198 134 41 150	13 198 00 1/50	6
Other Down Payments Made Current Assets	12110000			275.400.00 USD	279.400.00 USD	0.00 USD	0.
Down Payments Made due > 1 Year	12110000			-132.000.00 USD	-132.000.00 USD	0.00 USD	0.1
Down Payments reade for Inventory	12112000			-36.600,00 USD	-38.600.00 USD	0.00 USD	0.
> Trade Receivables - Foreign				32.363.650.16 USD	30.222.893.37 USD	2,140,755,79,050	7.
 Intercompany Receivables 				196.451.00 USD	194.461.00 USD	0.00 USD	0.
 Other Receivables 				45,890,00 USD	-120.00 USD	50.000.00 USD	41.995
> Invertories				105.097.896.157.85 USD	105-912-758-549-07-USD	185.137.003.79.USD	0.
Property, Plant, and Equipment				33.722.652,42 USD	33,721,272,62,050	1.390.00 USD	0.
> Less: Accumulated Depreciation				-22 505 112,02 USD	-20.937.593.02 USD	-1.587.513,00 USD	-7)
 Liabilities and Equity 				-170.971.385.526,17 USD	-170.228.178.943.54.USD	-743.206.582,63 USD	-0,
 Current Liabilities 				-2.013.548.343.54 USD	-1.934.232.476.33 USD	-79.715.897,21 USD	-4.
Trade Payables - Domestic				-1.998.410.310,88 USD	-1.918.478.742.67 USD	-79.731.968,23 USD	-4.
 Tode Payables - Foreign 				-246 750,17 USD	-246.750.17 USD	0.00 USD	0.
 Intercompany Payables 				47.298,91 USD	47.398,91.USD	0,00 USD	0,1
C Dther Payables				33.190,00 USD	33.180.00 USD	0,00 USD	0,1
Othett, of Travel Expenses paid by Employer	21450000			33.590,00 USD	33.180,00 USD	0,00 USD	0,1
 Payrol. and Benefits Payables 				-12.987.296,77.050	-13.000.757,77 USD	13.931,00 USD	0,
> Other Current Liabilities				-2.384.604,63 USD	-2.395.804,63 USD	2.300.00 USD	0.
> Non-Current Liabilities				-146.497.263,37 USD	-546.387.387,16 USD	-110/096,21 USD	-0,
> Shareholder's Equity				-67.750.347.682,54 USD	-67.202.474.827.61.USD	-547.672.854,93 USD	-0,1
> Data Mgration Accounts							
> NotAmigned				CADTIO	ri app: ba	alanco	choo

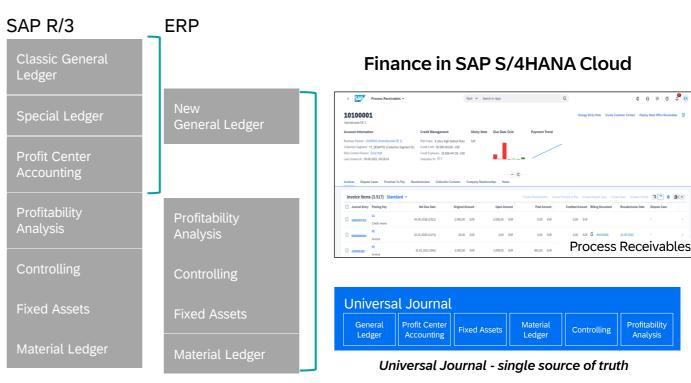
Finance: Financial Accounting

Universal Journal – the single source of truth

Universal journal – data reconciliation by design

- 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

Link to documentation



Accounting and **Financial Close**

Profitability

Analysis

Finance: Financial Accounting

Extension Ledger – supporting the management view use case



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

Accounting and Financial Close

SAP S/4HANA

Standard & Extension Ledger on top

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



Link to documentation

Finance: Financial Accounting Improving the user experience



SAP Fiori app: Manage Journal Entries

New version of the SAP Fiori app **Manage Journal Entries** app (F0717A), which you can use to do the following:

- Display general journal entries and their line items
- Create new general journal entries or copy and edit general journal entries
- · Upload general journal entries using templates
- Reverse general journal entries individually or through mass reversals.
 Reversals

of more than 200 items are conducted as background jobs.

- View reversal logs and change logs
- See related documents, such as purchase orders or incoming invoices
- See an overview of the customer and supplier accounting document data, such as the customer, amount, or posting date
- Display amounts in different currencies
- Display intercompany journal entries
- · Post notes and add attachments to general journal entries

Benefit

- · Better usability and more fields to filter for and display
- Greater detail in the list of journal entries
- Clearer navigation between journal entries and line items and related apps
- The ability to display parked documents, workflow status, and related documents. You can also display predictive journal entries if you use predictive accounting.

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ompany Code		Ledger Group:		Journal Errary:															
1010 Company Cod	(x) OP		0º		d ²								(*)						
ound Brity Dele:		Positing Date:		Rocal Year:		Gene	nal Informetion	Line Berns	Historical Exchange	Rates Taves	Associat	red Journal Entries	Related Documents	Notes Attacher	rents				
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						Tax	Code		GA Account		Th	e Rate	Tax Base Amount	Debt C	recit				

Finance: Major Revenue Accounting and Reporting innovations

Revenue Accounting

Central Finance Integration

Mapping of data from local systems to Revenue Accounting as a part of Central Finance in order to process revenue accounting data from local systems centrally and provide a consolidated reporting view

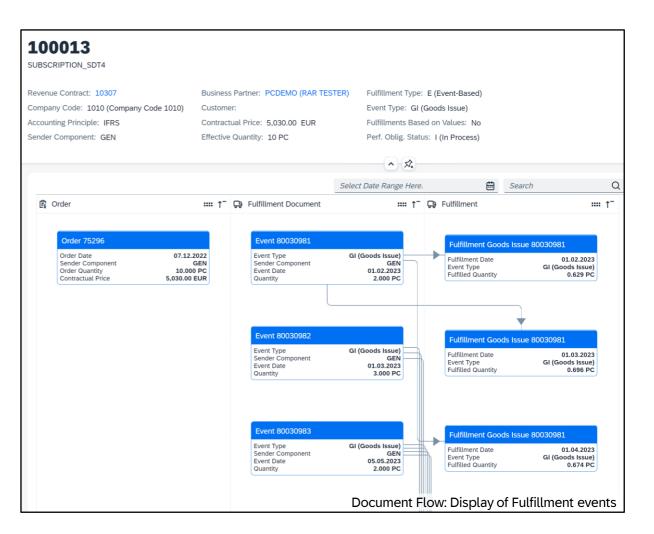
Start Date Type: 'Defined by Fulfillment Event Date'

New start date type to support over-time revenue recognition with event-driven start dates. Fulfillments are triggered by fulfillment events and are spread based on the fulfillment event date, duration, and deferral method, similar to time-based fulfillments

Operational Load with Migration Date

Perform the operational load from SAP Sales and Distribution (SAP SD) with a migration date:

- to have more flexibility in migration and operational load process
- to have the option to clean up revenue contracts and reload them to generate production postings



Finance: Ensure availability of all revenue accounting items and contracts

Revenue Accounting

Migration to optimized revenue accounting in a distributed scenario

In a distributed system scenario, it is beneficial to complete the operational load from all involved operational systems before starting the creation of revenue accounting contracts. This ensures that all revenue accounting items, created in different operational systems, are available and will be considered when combining them into the contracts. In the SAP Sales and Distribution operational load transactions* you now have the option to postpone contract creation in Revenue Accounting and Reporting.

If you choose to use this option, the operational load will be performed, but the revenue accounting items (RAIs) will not be processed immediately. Instead, they will be postponed with the postponement reason Initial Load.

When the operational load for all involved operational systems has been completed, you can start the initial load transaction** to create RAR contracts. This program picks up all revenue accounting items with the postponement reason 'Initial Load' and processes them

RS + LG ~											C ~
	Editing Status: Company Code:	Accounting Princip		evenue Contract:	Business Pa		Created By:		Contract Status:		
earch	Q All Y 1710 (BestRun x	LG x =IFRS x	Ð		đ	ð		6			\sim
			<u> </u>	\$					60	Adapt Filters	(2)
Revenue Con	tracts (182) Standard * v								\$	6 ~	
Revenue Contract	Accounting Principle Business Partner	Contractual Pr	ice	Allocation Effect	Contract Status		Created On	Created By			
21504	LG	184.983,24	SD 10.8	850,47 USD	In Process		11.09.2024	REVREC			>
21503	IFRS	184.983,24	SD 10.8	850,47 USD	In Process		11.09.2024	REVREC			>
21502	LG	165.000,00	SD 8.2	250,00 USD	In Process		11.09.2024	REVREC			>
21501	IFRS	165.000,00 U	SD 8.1	250,00 USD	In Process		11.09.2024	REVREC			>
21402	LG	185.000,02 U	SD 10.8	833,32 USD	In Process		07.10.2021	Satyanarayana Rad	Karri		>
21401	IFRS	185.000,02	SD 10.8	833,32 USD	In Process		07.10.2021	Satyanarayana Rad	o Karri		>
21302	LG	185.000,02	SD 10.8	833,32 USD	In Process		27.06.2018				>
21301	IFRS	185.000,02	SD 10.8	833,32 USD	In Process		27.06.2018				>
21214	LG	520,00 U	SD	22,50 USD	In Process		05.06.2018				>
21213	IFRS	520,00 0	SD	22,50 USD	In Process		05.06.2018				>
21212	LG	520,00 0	SD	22,50 USD	In Process		05.06.2018				>
21211	LG	520,00 U	SD	22,50 USD	In Process		05.06.2018				>
21210	IFRS	520,00 U	SD	22,50 USD	In Process		05.06.2018				>
21209	IFRS	520,00 U	SD	22,50 USD	In Process		05.06.2018				>
21208	LG	520,00 U	SD	22,50 USD	In Process		05.06.2018				>
21207	IFRS				In Process		05.06.2018				>
21206	LG			22,50 USD	In Process		05.06.2018				>
21205	IFRS	520,00 U	SD	22,50 USD	In Process		05.06.2018				>
21204	LG			22,50 USD	In Process		05.06.2018				>
21203	IFRS	520,00 U	SD	22,50 USD	In Process		05.06.2018				>

*FARRIC_OL and FARRIC_OL_EXPERT and in the operational load application programming interface (API) for third-party systems: FARR_INBOUND_EXT_MIGRATION_API; **FARR_INB_INIT_LOAD

Finance: Financial Operations

Financial Operations	Accounts Payable	Accounts Receivable	Cash Management	Electronic Bill Presentment and Payment	Settlement Management
	Simplify the way you record and manage accounts payable. Automate and streamline open Items management as well as payment processes. Use Analysis tools to always stay in control to optimize operations and working capital	Manage customer accounts receivable efficiently. Manage and streamline Credit Checks, Collections and Disputes to take control of receivables and improve customer processes and relations.	Monitor basic cash flows in real-time to manage and maintain sufficient liquidity. Cash management involves managing cash and liquidity centrally directly embedded in financial operations. To detect cash deficits and surpluses in real time	Improve service by empowering customers with a payment portal and e-billing. Electronic bill presentment and payment involves presenting bills on the web and offering customers the option of paying their bills online.	Integrate core business functions in the order-to-cash cycle to simplify financial settlement services. Settlement management involves complex, high-volume financial payment processes that companies offer to business partners.

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			0		đ	Today (10.00.21	20)	69				•	Adapt Fi	dara (
Do	wn Payme	nt Requests (60) Standard" ~								Create	Chang		
	Due in (Days)	Journal Entry	Journal Entry Date	Posting Date	Net Due Date	Suppler	Supplier Name	tion Text		inoint	Cash Discourt Am	w. C	ash Discov	ett Per
	-42	1500000205	05.07.2023	05.07.2023	05.07.2023	20300001	Interchaleforanti DE 1		-200.00	EIR	0.00	ELR		. 4
	-34	2500002110	13.07.2023	13.07.2023	13.07.2022	10000001	Intendslieferant DE 1		-1,000.00	0.01	0.00	EMI .		1
	-36	1200000000	38.07.2023	13.07.2028	13.07.2923	73300130	Foreign Supplier 30 for Withheld		-400.00	55P	0.00	860		- 23
	-30	1500002306	17.07.2023	07.07.2029	17.07.2023	10000001	Interdicted exacts DE II		-25.00	110	0.00	ELH.		- 64
	-27	1200000082	20.07.2023	20.07.2023	20.07.2023	31403130	Company Code 2110 as Busine		-500.00	485	0.00	ARS		
	-27	1500000296	20.07.2023	20.07.2023	20.07.2023	31403110	Company Code 3110 as Busine	Secto Locas	-500.00	685	0.00	ARS		- 10
	25	100002953	21.07.2023	21.07.2028	21.07.2923	20900001	Manduleferont DE 1		1,290.00	EIR.	0.00	81.8		
	-26	150000011	21.07.2023	21.07.2028	21.07.2923	22300991	Domestic Supplier CH 01		-300.00	518	0.00	ELRI		
	-26	190000097	21.07.2023	21.07.2028	21.07.2928	21300001	Domestic AR Expositer 1		-1.510.00	485	0.00	ARS		- (1
	-25	1900000004	21.07.2023	25.07.2023	21.07.2023	31300001	Domestic All Supplier I.		-1,000.00	#85	0.00	ARS		- 14
	-23	150000012	24.07.2023	24.07.2028	24.07.2023	22300001	Domessic Supplier CH 01		200.00	CHE	0.00	CHE		
	-23	150000013	24.07.2023	24.07.2028	24.07.2023	22300001	Domestic Supplier CH 01		-200.00	CHE	0.00	CHE		
	23	1900000115	24.07.2023	24.07.2028	24.07.2023	22300302	Domestic Supplier CH 02		-300.00	OFF	0.00	OF		
	-23	1000000118	24.07.2023	24.07.2023	24.07.2923		Domestic Supplier CH 01		-200.00	C#F	0.00	CHE		
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	-72	500003987	25.07.2023	25.07.2023	25.07.2023	30300301	Interchilleferant DE 1		-1,280.00	T UR	0.00	21.49		- 31
	-20	1000029835	22.07.2023	22.07.2023		10100001	Intendstatecent DE 1		-1,290.05	201		1973		
	20	10000030113	22.07.2023	23.07.2023		10300001	Handslefetett DE 1		-1.390.00	2342		ZAR		
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	-20	100003278	27.07.2023	27.07.2029	27.07.2023		Iniandsileferant DE 1		-1,000.00	TUR	0.00			
	-20	150000058	27.07.2023	27.07.2023	27.07.2923		Demessic Supplier CH 03		-200.00	CHP		CHE		
	20	1900000119	27.07.2023	23.07 2023		22300001	Domestic Supplier CH 01		-300.00	DKF		CHF		
	-19	100003149	28.07.2023	28.07.2029	26.07.2929		Interdstieferent DE 1		1,000.00	EIR		SIR		- 12
	-10	1500001115	28.07.2023	18.07.2023	28.07.2023		Computer Systems (DE)		-25.00	DiR		ELRI		
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Create Memo Record				





Finance: Accounts Receivable

Improving the user experience for mass processing

Standard -1 filter active: Editing St

Status

Unchecked

Support for mass uploading of customer open items

New SAP Fiori app "Upload Customer Open Items" enabling upload of multiple customer open items into the system all at once:

- Upload customer open items such as customer invoices and credit memos
- Check and edit the uploaded customer open items
- Check for errors in the customer open items before posting
- Post the uploaded customer open items in batch

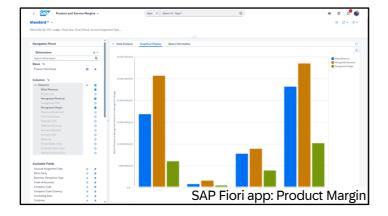
Benefit

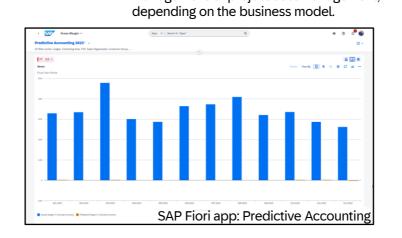
- Increase operational efficiency with the ability to upload a batch of customer invoices
- Improve usability and flexibility by enabling users to check and modify items after uploading

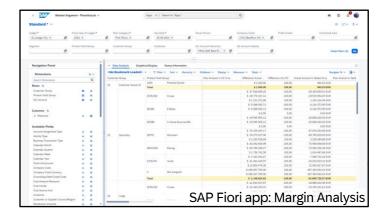
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	2/Outgoing: Processing Rule Application Type:	Processing Instructions (1) Standard · · Create Delete 🔞 🌒 🕞 · ·
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		FIFO (First In First Out - Clear Oldest Open It 000 FIFO_BASIC
		MTCH (Assignment Sequence) 000 MATCHING_SEQUENCE
		PROM (Promise to Pay) 000 PROMISE_TO_PAY
		Cancel
		SAP Fiori app "Upload Customer Open Items"

Finance: Cost Management & Profitability Analysis

Cost Management & Profitability Analysis	Overhead Cost Management	Product Costing	Profitability Analysis
	Increase transparency in the drivers of (overhead) cost and the causes of underperformance by achieving a holistic view Get complete, accurate, real-time information to help managers increase overall profitability and operational efficiency by area of responsibility	 Improve decision making based on detailed information provided instantly about costs of products manufactured or sold, when in production. Use production related cost information automatically focusing on actuals and allow for isolated production cost change simulations Support period-close activities using costs calculated for work in progress, variances and scrap, and product settlement Assess costs accurately with product cost management that's aligned with the type of manufacturing process. Including service cost management, 	Reach or exceed performance goals and deliver superior service at lower cost by increasing insights in profitability through real-time financial reporting and multidimensional data analysis Help business users improve decision making with immediate, role-based insight into current statuses and flexibility for ad hoc reporting and analysis embedded in the system of record







Finance: Cost Management & Profitability Analysis

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

Statement of direction

- Provide an accounting solution, able to valuate 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



Finance: Overhead Cost Management

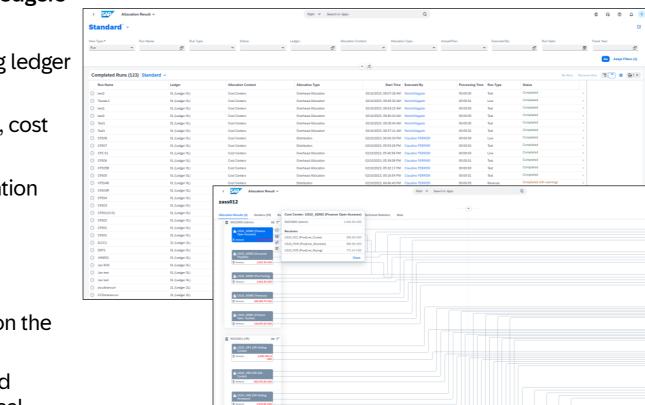
Universal Allocation

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

Business Value

- High traceability, transparency and insights on the overhead allocation process
- Proven allocation functionality with improved standardization and the speed of the universal journal



Overhead Cost Management

Manage Allocations

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Finance: Treasury Management

Treasury Management

Cash and L	iquidity.	Management
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Payments and Bank Communications

Debt and Investment Management

Financial Risk Management

Gain real-time insight into global cash and liquidity management. Capture cashflows from across the enterprise in a central view. Obtain up-to-date cash position and cash flow forecasts in real-time. Develop a long-term liquidity forecast using embedded planning tools. Control the lifecycle of bank accounts through bank account management. Manage bank fees through a bank fee analyzer Increase compliance and automation with integrated payments and bank communications. Secure proper approvals and documentation with rule-based workflows. Monitor outgoing payment and incoming account statements from end to end.

Enable bank connectivity for payments, status, and account statements. Centralize payment management with a Payment Factory approach. Connect bank and SWIFT through the cloud-based SAP Multi-Bank Connectivity solution. Manage debt and investments to optimize borrowing rates, investment costs, and capital structure with real-time insights. Monitor and control counterparty risk. Automatically include cash flows in the cash forecast. Receive market data automatically and use it for treasury functions. Benefit from seamless integration to Trading Platform providers and use dashboards for overview and drill down of maturity profile of financial instruments. Generation of single accumulated interest flow for risk-free rates

Protect your assets and cash flow with real-time financial risk management. Capture, analyze, and quantify financial exposures from across the enterprise. Manage the complete hedging process using a centralized cockpit. Integrate hedging seamlessly with trading portals. Simulate risks with what-if scenarios. Create effective hedging strategies that meet GAAP and IFRS accounting standards. Simulate, generate, and automatically post general ledger entries. Gain a complete overview with dashboards and the ability to drill down risk positions and hedging transactions

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Finance: Treasury Management

1 Cash and Liquidity Management

Increase the availability and utilization of funds, ensure sufficient cash flow for operational needs while minimizing financial risks.

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Modern

Treasury

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Working Capital Management

Effectively manage the short-term assets and liabilities of a business to ensure smooth operations, meet financial obligations, and maximize profitability.

2 Debt, Investment and Risk Management

Optimize the capital structure, make informed investment decisions, and mitigate financial risks to maximize returns and safeguard the financial stability of an organization.

3 Payments and Bank Communication

Facilitate secure and efficient financial transactions, enable seamless transfer of funds between parties, and provide timely and accurate information exchange with banks for effective financial management.

Finance: Commodity Management

Commodity	Commodity Risk
Management	Management



Identify and qualify Financial risks associated with commodity price volatility resulting from physical commodity sales, procurement and trading processes and mitigate by hedging them with commodity derivatives. This includes management of full e2e life cycle of Commodity Futures, Listed and OTC Commodity Options, Commodity Swaps and Forwards

Capabilities for Hedge management and commodity price risk hedge accounting

- Management of Planning Data, Exposures, Hedge Limits, Hedge Books, Hedge Execution plans
- Fiori Apps for Backoffice and Hedge Accounting administrators to facilitate their tasks
- System identified exceptions to support end users to trigger required actions
- Hedge Cockpit for Derivative Traders
- Full support and automation for Hedging-on-Behalf scenarios
- Cash Flow Hedge Accounting for Commodity Price Risks according to IFRS9
- Automated designations
- Trigger Hedging and Hedge Accounting for FX risks embedded in Commodity Hedges

Benefits

- Highly automated processes minimize Hedge Accounting related workload
- Improved visibility and auditable transparency through audit-proof process documentation
- Seamless accounting integration

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> Year: 2024	0001 2024		960.000,000 T0	6.000,000	TO 648.000,000	TO 5.500,000 T	0 612.000,000	TO
 Year: 2025 	0001 2025		960.000,000 T0	0,000	T0 612.000,000	TO 0,000 T	0 576.000,000	TO
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 Period: Q3 																				
 Order ID: 10 	2024	M4L_3-1-3	Q3	10			4.500,000	TO	70.000,000 TO			65.500,000 TO	4.50 %		Yes	0.00 USD				
 Order ID: 20 																				
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 Period: Q4 		MAL_3-1-3	Q4			100.000.000 TO	1.000,000		80.000,000 TO			79.000,000 TO	1.00 %		Yes	0.00 USD				
CM_LME_ALUMINIUM		MAL_3-1-3				400.000,000 TO	5.500,000		320.000,000 TO			314.500,000 TO	1,37 %		Yes	0.00 USD				
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						960.000,000 TO	6.005,000	TO	512.032,000 TO			506.027,000 TO	0.62 %		in Itau		nuc		-00	P

Finance: Mitigation of financial risks by monitoring and limiting exposures

Financial Risk Management

· Balance sheet exposure - working day shift

Allows for reporting your net open exposures (FX risk) on a daily basis in the Hedge Management Cockpit app

- Hedge Management of Balance Sheet FX Risks Enhancements With these features, the following enhancements for Hedge Management of Balance Sheet FX Risks are available:
 - You can assign a specific, central factor calender for the working day check during hedge request generation
 - You can choose the **Net Due Date** instead of the **Clearing Date** as relevant for the selection of FX exposure from data source **FI Open Items**
- Simulation of period-end closing with different rate type
 - Simulate and store period-end closing results of treasury positions including valuation, accrual and deferral of expenses and revenues, and classification using the framework of the operative period-end closing functions and including relevant valuation results that are also generated by the real valuation during period-end closing without creating a posting.
 - Enhance the selection screen of the Simulate Period-End Closing app with the **foreign-exchange price type** used for **simulated valuation** and **simulated accrual processing**.

Treasury Management

Hedging Area: 1710HA	Hedge Area for 1710 EUR				Memo								
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	8 05.06.2020	06:24:30	TREASURY	(2)	05.06.2020	UTC	Snapshot for on 05/06/2020	2	02.01.2018	05.06.2020			
	7 06.05.2020	16:15:24	TREASURY	2	06.05.2020	UTC	Snap shot on 06.05.2020	2	02.01.2018	05.06.2020			
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Finance: Enterprise, Risk and Compliance

Enterprise Risk and Compliance

International Trade Mgmt.

Ensure export/import compliance by checking transactions for embargoes, managing licenses, and using inline blocking/release for transactions

Fulfill diverse customs needs like foreign trade zones, China's processing trade, bonded warehousing, and Intrastat compliance

Leverage free trade agreement benefits with automated product qualification, requesting supplier declarations, and issuance of customers declarations

Ensure export/import compliance by checking transactions for embargoes, managing licenses, and using inline blocking/release for transactions

Int. Trade Order: Solid-to Party: <u>DECU-GT02</u> Company IDES AG Fran Ship-to Party: <u>DECU-GT02</u> Company IDES AG Fran				
Cust. Reference: GIS	Cust. Ref. Date: B & Z Base Value:	<u>s</u>		
Sales Item Overview Item detail Ordering party Req. Deliv.Date* 0 03.10.2024 Complete Div: Delivery Block: Billing Block: Pyt Terms: 0001 Pay immediately wio deduction Inco. terms: FOB Inco. Location1: New York R: All Items	Procurement Shipping Configuration Reason for rejection Deliver, Plant:	Long © © © Constant Information I ×	Ca DGIP HL Itm D. First Date AN D 93.10.2024 0 03.10.2024 D 93.10.2024 D 93.10.2024 D 0 J 0 93.10.2024 D 0 0.31.0.2024 D 0 31.0.2024 D 31.0.2024	© PInt 1710

Finance: SAP International Trade Management Portfolio Key capabilities

Compliance Management

Ensure export/import compliance by checking transactions for embargoes, managing licenses, and using inline blocking/release for transactions.

Customs Management

Handle import/export customs, documentation, duties, and product classification, and optimize cost savings with trade strategies.



Special Customs Procedures

Fulfill diverse customs needs like foreign trade zones, China's processing trade, bonded warehousing, and Intrastat compliance.

Trade Preference Management

Leverage free trade agreement benefits with automated product qualification, requesting supplier declarations, and issuance of customers declarations. Key features covered by three solutions:



Global Trade Services

Standalone, market leading global trade management; full scope of functionality



SAP S/4HANA for international trade

Embedded Intrastat, import/export control, and related classification

Watch List Screening

SaaS on SAP BTP | Screening only | Order in SAP store

Finance: SAP International Trade Portfolio SAP Global Trade Services

Centralize global trade management and enhance compliance by integrating trade services into a single platform. This streamlines trade processes, reduces costs, and expedites customs clearance, helping you meet regulatory requirements and mitigate penalties.

- Manage import and export compliance, including license management, checks and assignment, and conformity with embargo restrictions.
- Improve customs processes for imports and exports through product classification, automated creation and validation of customs declarations, and customs communication through direct filing or via customs brokers.
- Screen accurately for restricted parties across business operations with inline blocking and release.
- Automate product qualification for free trade agreements and manage supplier and customer declarations.
- **Leverage** special customs processes such foreign-trade zones, processing trade in China, bonded warehousing, inward and outward processing relief (IPR/OPR) and Intrastat.



Finance: Manage trade compliance checks with ease

International Trade Management

Business Background

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 now fully supported by SAP S/4HANA Service

SAP Global Trade Services, edition for SAP HANA: Integration with 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

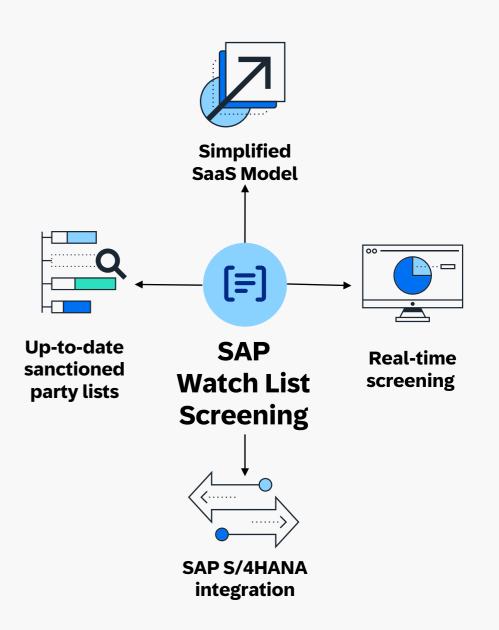


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Finance: SAP International Trade Portfolio SAP Watch List Screening

Leverage real-time restricted party screening to streamline the vetting of customers and suppliers against governmentmandated denied party lists.

- Simplify screening, via on-demand SaaS model, providing instant access to up-to-date sanctioned party lists.
- Real-time compliance checks for order-to-cash and procure-to-pay processes.
- **Pre-built** integration with SAP S/4HANA and published APIs to extend to other systems.
- Ad-hoc screening for extended use cases.



Finance: Identify and manage sanctioned parties at first glance

Integration with SAP Watch List Screening

Integration of SAP Watch List Screening with business partner master data in SAP S/4HANA Cloud

- Call the SAP Watch List Screening application on SAP Business Technology Platform within SAP S/4HANA, for business partners with the roles of customer or supplier
- Screen the name and addresses of a business partner for natural persons or organizations that might be sanctioned
- Add status fields representing the screening status to the addresses of a business partner in SAP S/4HANA
- Manage a cumulative status field on the level of general data of the business partner

Relevance for international trade documents:

When you use a business partner already screened in a trade compliance document, you can define whether the result of the business partner screening is used for the trade compliance document, or whether an additional screening is executed.

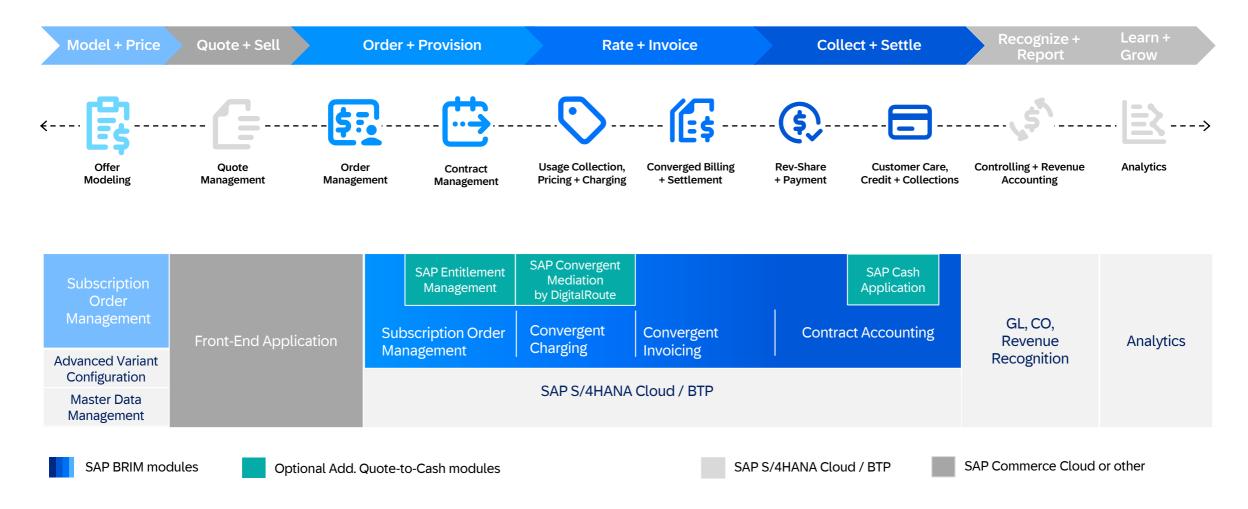
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Finance: Billing and Revenue Innovation Management

Billing and Revenue Innovation Management	Subscription Order Management	Convergent Invoicing	Credit & Collection Management	Fin. Customer Care and Dispute Management	Receivables Management and Payment Handling
4 Manage Subscriptions ~	Design new solution offerings from a singular product catalog, fulfill customers across sales, service and configurable subscription, while enabling upsell and cross-sell through subscription lifecycle management	Provide customers a single, converged invoice for all products and services as desired, including billing streams from legacy billing systems, reducing customer confusion and accelerating cash collection	Manage credits efficiently to reduce the risk of financial losses and to optimize relationships with your business partners. Determine the risk of losses on receivables from your business partners early and in making credit decisions efficiently and	Clarify and resolve customer payment disputes quickly and efficiently. Automate the escalation of billing disputes, proactively manage and solve those to reduce DSO and ensure customer satisfaction	Manage customer accounts receivable efficiently. Manage and streamline Credit Checks, Collections and Disputes to take control of receivables and improve customer processes and relations Improve service by empowering customers
Subscription SEUE Then List Subscription Terms Partners Milling Billing Forecast Billing Forecast Product * Product * Product * 0 0 0 0 0 0 0 0 0 0 0 0 0	Cation Relevances Pases Schedels Motoration Allowances Pacessing Data Evertig Biling Cycle: Montry on field and and Biling Cycle: Sep 1, 2024 Biling Cycle: Sep 1, 2024 Biling Cycle: Biling Cycle: Sep 1, 2024 Biling Cycle: Biling Cycle: Sep 1, 2024 Biling Cycle: Sep 1, 2024 V Forecast Parloa * Sep 1, 2024 Sep 1, 2024 Sep 1, 2024	genter:	automatically Improve management of past-due accounts and reduce days-sales- outstanding to accelerate cash flow. Proactively manage overdue receivables and prioritize collections efforts for maximum success		with a payment portal and e-billing. Electronic bill presentment and payment involves presenting bills on the web and offering customers the option of paying their bills online
u	500 Mar	nage Subscriptions			

Finance: Scale your digital-only business Scale performance with increasing volume and complexity



Finance: Comprehensive management of the subscription lifecycle Subscription Order Management



- Manage product catalogs with flexible pricing options.
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- **Design and model offers** that combine multiple pricing and billing options.
- **Bundle subscriptions** with physical products, services, and/or projects as a single offer.



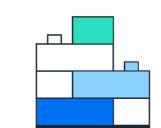
Manage subscription lifecycle, from order capture and fulfillment to renewals and contract changes.



Support complex multi-sided business models by managing partner revenue-share agreements.



Gain complete view of order and contract history with detailed audit trail.



Product Bundling

Mix and match into one offer

- Products + services + projects + subscriptions
- Recurring + one-time + usage/outcome fees
- Charge in advance, in arrears, installment, etc..



Subscription Lifecycle

- Order capture, distribution, fulfillment
- Renewals, extensions, cancellations
- Product changes
- Upgrades, downgrades

Finance: Major enhancements in Subscription Order Management

Subscription Order Management

- Integration with SAP Global Trade Services for SAP HANA: Integration with SAP S/4HANA Subscription Order Management Subscription Order Management now integrates with SAP Global Trade Services (SAP GTS) to support compliance requirements
- Enhancement of the SAP Fiori apps for contract lifecycle management to support the parameters of SAP Convergent Charging

You can now choose to either Submit your change request directly or to open the 'open Change Order app' when executing a change process.

• Enhanced integration capabilities in subscription orders and contracts

The following OData APIs have been enhanced:

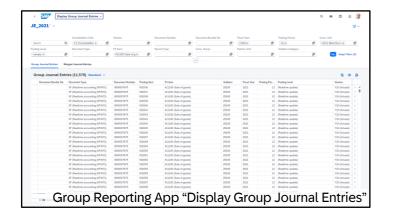
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- Subscription Contract Read
- Solution Quotation
- Subscription Order (Version 0002)

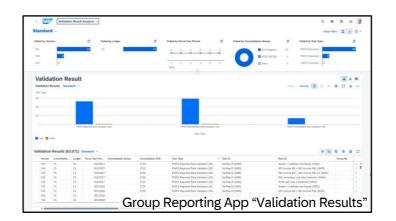
Further details and specifics are in the notes section of this slide.

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Finance: Advanced Accounting & Financial Close

Advanced Accounting & Financial Close	Document & Reporting Compliance	Corporate Close	Joint Venture Accounting	Contract and Lease Management		
	One holistic solution to fulfill local mandates from real-time electronic documents to statutory reports, while automating compliance operations worldwide	Corporate close involves releasing the local books, validating the financial data, translating local to group currency, eliminating intercompany effects, and preparing financial statements for the group	SAP S/4HANA supports complete accounting processes for joint ventures. It captures all expenditures and other joint venture transactions using functions from financial and managerial accounting as well as asset management, materials management, plant maintenance and project system	Contract and lease management involves actively managing lease agreements		





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Finance: Tax Management

SAP Document and Reporting Compliance

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.

- 1. Standardization, simplification and automation: Standardize IT landscape and business processes, and lower total cost of ownership to comply with regulations worldwide. By Embedding compliance natively, improve operational agility to implement legal mandates
- 2. Global coverage of end to end processes: readyto-use scenarios for over 430 regulations in more than 57 countries.
- 3. Extensibility platform for customers and partners: respond to additional mandates and flexibly adapt to business needs for one solution worldwide.



- Automated checks to ensure consistency between electronic documents and authorities' portals New 2023
- Automated error notifications during electronic documents
 processing New 2023

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Finance: SAP Document and Reporting Compliance Comply with electronic documents and statutory reporting worldwide

Minimized risk of noncompliance ensuring consistency between SAP S/4HANA Cloud Private Edition and tax authorities / local platforms

New SAP Fiori apps to automatically check the consistency of business transactions between SAP S/4HANA Cloud Private Edition and tax authorities' platforms to early identify discrepancies and allow enough time for corrections prior month-end. In addition, you can centrally review the findings and initiate corrections. This way, you can ensure traceability and minimize the risk of noncompliance at the time of returns submission.

- Automate consistency checks
- Centrally review inconsistencies
- Initiate corrections of inconsistencies

Benefit

- Gain real-time insights into compliance status.
- Proactively identify inconsistencies of electronic documents earlier in the period.
- Reduce manual effort by streamlining remediation of inconsistencies.
- Minimize risk of non-compliance when tax authorities reconcile periodic tax returns to the records collected in real-time or near-real time in their platforms.

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Finance: SAP Document and Reporting Compliance Comply with electronic documents and statutory reporting worldwide

LOCALIZATION



Automated Error Notifications During Electronic **Documents Processing**

As more and more authorities mandate electronic documents, you can automate error notifications and accelerate corrections

- Set up automated error notifications for specific users by error category
- Review error by category, manually send email notification and initiate corrections
- Manually create electronic documents when automatic creation fails or original documents are deleted (new SAP Fiori app 'Create Electronic Documents Manually -Special Cases')

Benefit

- Accelerate corrections by automatically notifying responsible person and avoid late submission due to errors
- Maximize efficiency by prompting user actions when required and preventing unnecessary manual monitoring
- Increased usability, from insights to actions
- Seamlessly handle special case electronic documents e.g. recreate e-documents previously deleted

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Finance: SAP Financial Compliance Management

Enterprise Risk and Compliance

SAP Financial Compliance Management allows to centralize and automate tax checks, remediation and improve the quality of tax data by addressing the issues at the source.

Financial control content for Tax Management

		Supplier Without VAT Registration	Tax Amount Above Threshold	Postings without Tax Codes
Q	Description	The check identifies all suppliers for whom no VAT ID is recorded.	This check identifies B2B customer invoices with a VAT amount greater than a certain amount (the default is 10,000 in local currency).	This checks identify the list of documents that do not have a tax code entered.
	Why this Control?	This control helps to identify suppliers with missing VAT registration value, and as result postings to this suppliers can be hold required data are maintained and verified.	This controls helps to identify and validate high value transactions and avoid unnecessary manual effort.	This controls helps to identify any business transactions without tax code to ensure reporting is accurate and complete.
Ģ	Logic	VAT Registration field is checked, and record is returned if field is empty.	The amount can individually be set (the default that is predefined is 10,000 in LC). Account type: Debit. Time selection field: Posting Date.	The compliance check "Postings without Tax Codes" returns documents that do not have a tax code entered in the MWSKZ field.

Finance: Transform your IFRS Compliance with SAP

IFRS compliance with embedded intelligent processes: New IFRS and Other Legal Requirements

IFRS 15 - ASC 606	IFRS 9 - ASC 815	Country by Country
Revenue Recognition from contracts Supports the single five-step model for recognizing revenue Automates and simplifies revenue recognition Provides native support for parallel reporting (multi-GAAP) NEW Integration with Central Finance SAP Solution: Automated Revenue Management (ARM) portfolio (blog) SAP S/4HANA Revenue Accounting (RA(R), video, FAQ)	Classification and measurement Revised approach according IFRS9 to measure all financial assets and Liabilities Impairments Fundamental redesign of provisioning model for financial assets Hedge Accounting Reduction of Volatility of Financial Position (video) SAP Solutions: SAP S/4HANA & SAP Treasury and Risk Management (Blog)	Reporting (CbCR, BEPS) Preconfigured solution for data collection, validation and reporting Reporting package for risk analysis and comparison SAP Solution: SAP S/4HANA direct tax management
IFRS 16 - ASC 842	IFRS 9 & IFRS 17 for Insurance Compa	nies and Banks
Leases	Insurance Contracts	
Automated <u>lease accounting</u> activities Purpose-built real property business processes Automated process for equipment events	Supports new insurance contract liability calculations in a compr banks, insurance and reinsurance companies as wells as fintech a	č ,

NEW Integration with Planon

SAP Solution:

SAP contract, lease and real estate management (aka CLM, RE-FX, FAQ)

SAP Solution:

SAP S/4HANA for Financial Products Subledger

\$

Intelligent **Advanced Accounting Finance: Entity Close Orchestration** and Financial Close **Technologies** (5) Automation and collaboration for all close cycles Manage Closing **Financial Close Closing Task Process** Approve **Closing Tasks** Overview Completion **Closing Tasks** Task List

Accounting Expert

General Ledger Accountant Asset Accountant AR/AP Accountant

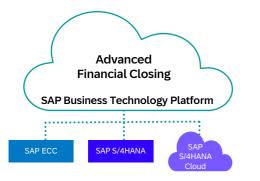
Accounting Manager

Head of Finance, Central Controlling

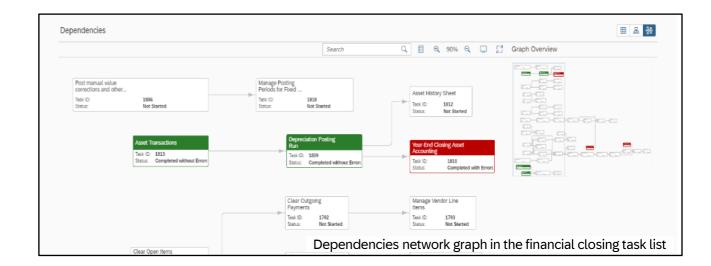
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Manage Closing Task Lists	Process Closing Tasks	Approve Closing Tasks	Financial Close Overview	Closing Task Completion
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Finance: Entity Close Orchestration SAP S/4HANA Cloud for advanced financial closing

Run Advanced Financial Closing in a Cloud Hub scenario to further automate, streamline, and harmonize the overall closing process.



- Closing Hub Scenario: enable pre-defined connectivity to On Premise and Cloud ERPs in heterogeneous landscapes (incl. Central Finance)
- Intelligent Closing: leverage intelligent technologies to automate and further streamline the closing process
- Central steering: Enable central management for entity and group close along the entire finance process Roadmap



- SAP Build Process Automation: advanced orchestration of closing bots New 2023
- Automated supervision of closing tasks with account balance validation New 2023

Advanced Accounting and Financial Close (8)

Intelligent Technologies © 1

Finance: SAP S/4HANA Cloud for advanced financial closing **Entity Close Orchestration**



Closing with Account Balance Validation

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. ٠
- Plan validations as part of entity close, and orchestrate the process based on results.

Benefit

- Improve entity closing process governance with full visibility of validations.
- Reduce manual effort and accelerate the closing by automating error detection and notifications.
- Higher financial statement quality via early data qualification.

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Finance: Additional LoB Finance Solutions for SAP S/4HANA



SAP S/4HANA Cloud for advanced financial closing – hub-based entity close orchestration for 1:more SAP Accounting systems (ECC or S/4HANA)

3rd party add-ons provide additional automation and governance

Add-on extending Entity Close:

SAP Account Substantiation and Automation by BlackLine – for best practice automation for the balance sheet substantiation processes

Add-on extending Corporate Close:

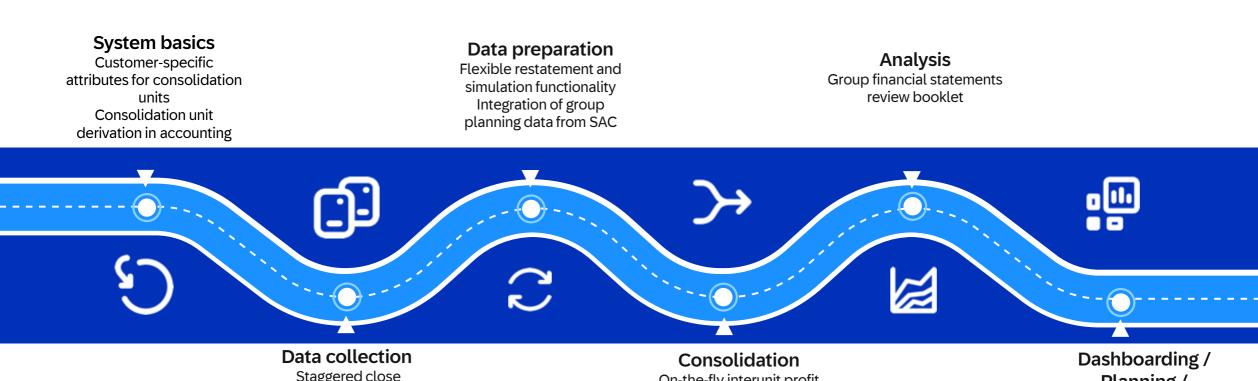
SAP Intercompany Governance by BlackLine[®] – for governance especially related to the origination phase for non-trade intercompany processes in a heterogeneous landscape

Add-on extending SAP S/4HANA Central Finance:

SAP Central Finance Transaction Replication by Insightsoftware for SAP S/4HANA – standardized integration scenarios for posting non-SAP data into the Central Finance instance

SAP Central Finance Data Harmonization by Insightsoftware - for master data harmonization including data profiling, conflict detection, golden record determination, and upload into target system for central finance-specific objects and scenarios

Finance: Group Reporting Leverage an integrated platform and simplify the entire consolidation process



Staggered close process Questions and answers in forms Enhanced segregation of tasks

On-the-fly interunit profit elimination via group valuation ledger Posting on cashflow reporting items Dashboarding / Planning / Disclosures

Finance: Group Reporting

Using currency rates specific to a consolidation unit or specific to posting date

Need to translate the financial data of a consolidation unit using an **exchange rate that is specific to this consolidation unit** (Group Reporting Data-Based Rate)

Need to translate the financial data for a transaction using the **exchange rate valid for the posting date** of this transaction

Benefit

- Higher precision when translating the financial statements of a newly acquired consolidation unit
- Precise historical conversion for investments and equity leveraging the posting date of the original transaction

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Finance: Group Reporting

Collect multiple answers in forms and relate them to numbers

Enable form designers to ask questions within a form that can now refer to numbers, such as: explain deviations, or provide supplemental information

Benefit

- Provide questions and answers a stronger semantic by referring to numbers
- Ask a question with answers for each item in a list and reduce the number of questions to create

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Finance: More transparency regarding JVA-agreements than ever before

Joint Venture Accounting (JVA)

Business Background

A joint venture operating partner carries all operating costs throughout the accounting period. At the end of the accounting period, the operator's expenditures are shared by the nonoperating partners and the operator, according to their equity shares. This process is called cutback. The SAP Joint Venture Accounting System (JVA) cutback process assigns expenses to partners.

Joint venture accounting on the universal journal: cutback mapping extensibility (CDS views) support

Enable multiple CDS views that support the exposure and consumption of joint venture cutback mappings (GJ25 - GJ32) for account and cost object types, including the following:

Cutback account mapping intracompany Cutback cost center mapping intracompany Cutback WBS mapping intracompany Cutback order mapping intracompany Cutback chart of accounts mapping intracompany Cutback account mapping intercompany Cutback cost center mapping intercompany Cutback WBS mapping intercompany Cutback order mapping intercompany Cutback chart of accounts mapping intercompany Advanced Accounting and Financial Close

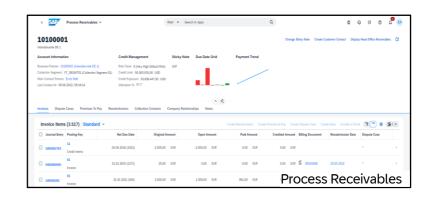


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Fixed payement terms:			
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Parallel processing:			
Server Group:			
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Testrun: 🖌			
Intermediate cutback run: 🖌			
Not completed ventures only:			
Perform asset postings: 🕢			
Trans & Local Curr Diff(T030H):			
			JVA: Cutback App

Finance: Advanced Financial Operations

Advanced Financial Operations	Collections Management	Contract Accounting	Credit Evaluation Management	Dispute Resolution
	Improve management of past-due accounts and reduce days-sales- outstanding to accelerate cash flow. Proactively manage overdue receivables and prioritize collections efforts for maximum success.	Manage accounting for a sales or service agreement that runs over an extended period of time.	Manage credits efficiently to reduce the risk of financial losses and to optimize relationships with your business partners. Determine the risk of losses on receivables from your business partners early and in making credit decisions efficiently and automatically.	Clarify and resolve customer payment disputes quickly and efficiently. Automate the escalation of billing disputes, proactively manage and solve those to reduce DSO and ensure customer satisfaction.

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Finance: Collections Management Intelligent Cash Collections

Insights for pro-active collections management

- Benefit from an **integrated process** from Financial Accounting to collection strategy execution in **SAP Collection Management**
- Anticipate payment issues understand whether your customers will pay and when
- Segment your portfolio according to specific risk indicators
- Compare payment patterns and risk according to many business dimensions
- Simulate different collection strategies and decide which one fits best your current requirements
- Set the right priorities, focus for your collection team and execute your collection strategies, all in one flow
- Central point for dashboards, reports and simulations (SAP Analytics Cloud)

With AiVidens, we now have a dynamic view on the evolution of the risk of our debt portfolio. We can better anticipate payment issues and therefore take early enough the necessary collection actions. Risk analysis was our first motivation, but the solution also helps us improve our cash position by targeting the clients that can make a big difference.'

CFO leading Media Company



Operational efficiency improvement

Finance: Real Estate Management

Real Estate Management	Contract & Lease Mgmt.	Energy and Safety	Investment and Construction	Maintenance and Repair	Portfolio & Location Mgmt.	Workspace Mgmt.
	Manage leases within a single application that is used to support many different leasing processes and be compliant with lease accounting standards without duplication/repli cation of abstracted lease data. The simplified cost allocation model supports leased in, leased out and internal allocations. Natively integrated with SAP S/4HANA Financial.	Mitigate environmental, health, and safety risks associated with energy- related fields.	Support companies to include estimations, bid management, and project management for the efficient completion of investment projects.	Integrate with SAP Intelligent Asset Management to manage technical equipment and inventories. The extensive message, notification and order system supports the maintenance processes. It includes a systematic planning and control of all necessary maintenance and servicing measures.	Optimize the management of your real estate portfolio and improve your building performance with master data model to enable end-to-end real estate business processes One solution to perform space management for commercial and corporate requirements	Supports to increase the efficiency and utilization of the buildings.
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Finance: Real Estate accounting, contract management and analytics at ease

Contract and Lease Management (CLM)

Intercompany Lease Processes in Real Estate Management

Enables the management of lease processes between two companies that belong to the same corporate group. The intercompany lease process allows you to do the following:

- Manage intercompany lease-out contracts
- Manage intercompany lease-in contracts
- Make periodic postings for intercompany lease contracts (accounts receivable and accounts payable)
- Run periodic valuation for intercompany lease contracts

You can manage objects that are part of an intercompany lease process in the **Manage Usable Objects app** and the **Manage Rentable Objects app**.

The following new usage categories have been added to the **Manage Usable Objects** app:

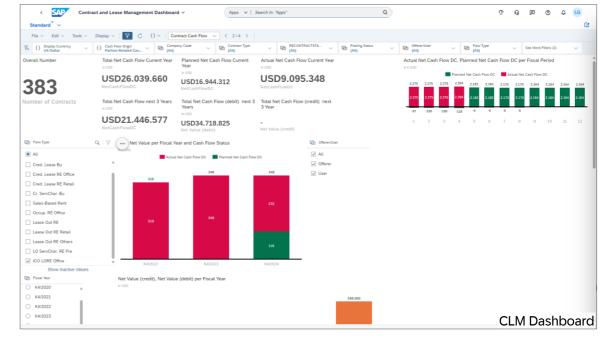
• Intercompany Usable Object with and without Portfolio Structure

The following new usage categories have been added to the **Manage Rentable Objects** app:

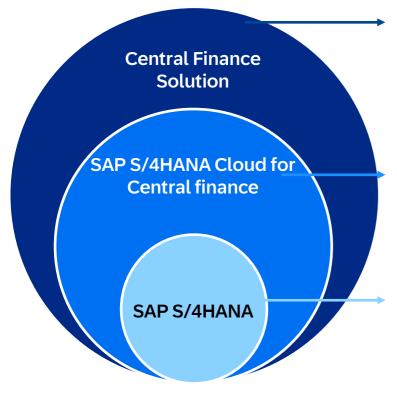
• Intercompany Rentable Object with and without Portfolio Structure

Contract & Lease Mgmt.

2023 FPS2



Finance: Central business steering across SAP and non-SAP systems in real time Central Finance value proposition in a nutshell



Central Finance as a solution

Central Finance Solution incorporates additional aspects and offers a comprehensive scope for a central platform in corporate finance, including group reporting for consolidation, AFC for financial closing, a treasury workstation, receivables management, and the Analytics Cloud for planning and analytics, among other features. Central Finance enables and provides access to new **innovations** such as **RISE**, **AI**, and sustainability, particularly for large enterprises with multisystem landscapes.

Central Finance as a product

From a product point of view, the software solution Central Finance is more than a S/4HANA system. It is based on S/4HANA Cloud but it comes additionally with a set of enabling pure Central Finance technologies (like logging, replication, mapping, posting, error correction and reconciliation) and uses SAP SLT*, MDG, AIF.

Central Finance as a system

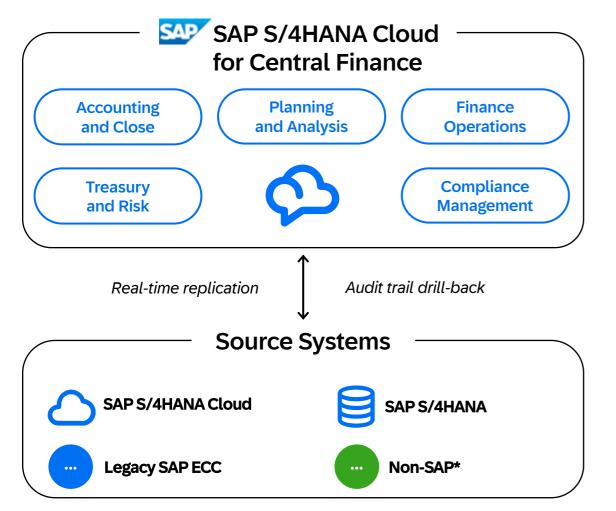
SAP S/4HANA Cloud for central finance foundation (also known simply as "Central Finance") is a S/4HANA system installed as side-car, receiving financial accounting transactions via real-time replication from SAP or non-SAP ERP source systems. Only available for RISE Premium and RISE Premium Plus customers

Advanced reporting at segment, entity and group level

Scalable execution of local and central processes

Transformation platform for the digital business

Finance: Getting a unified view of the business in a multi-system landscape The non-disruptive step towards SAP S/4HANA Finance



* Non-SAP integration provided by **SAP Central Finance Transaction Replication by insightsoftware for SAP S/4HANA**

Advanced Segment, Entity, and Group Reporting

- All documents from source systems available in the **Universal Journal** in Central Finance in real-time
- Integrated financial data on the most granular level
- · Consistent internal and external reporting

Scalable Local and Central Process Execution

- Reduce costs and increase efficiency by centralizing financial processes
- Minimize manual and re-deploy labor to value-added activities by higher degree of automation
- Access to latest technology innovations for operational excellency at all times

Transformational Platform for the Digital Enterprise

- Future-proof harmonized data model
- Retain multi back-end environment (SAP and non-SAP)
- Zero-touch Finance, exception-based finance management

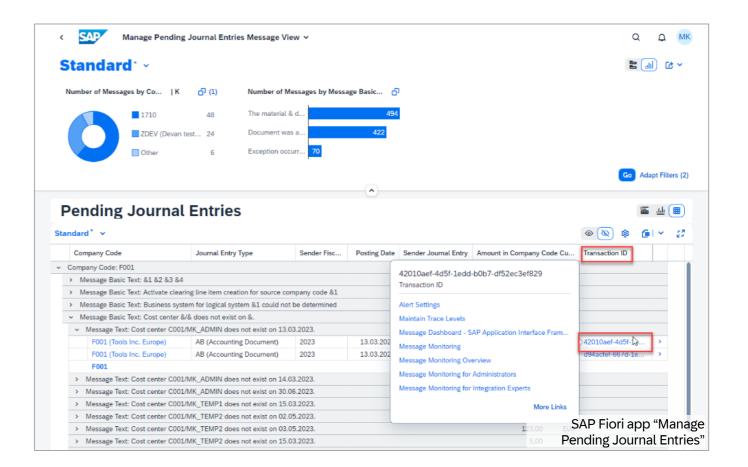
Finance: Central Finance Error resolution

In the app Manage Pending Journal Entries - Message View, you can see all error messages from all pending journal entries including information about the financial impact of the documents. From this view, you can navigate to the pending journal entry in question and decide how to proceed.

- · Distribute error messages to different recipients
- Group error messages in error categories
- Upload assignments of error messages to error categories from a spreadsheet

Benefit

- Increase efficiency by distributing error messages to the right recipients
- · Improve overview and classification of different types of errors
- · Lower costs by automating tasks in central finance





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

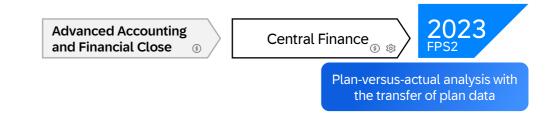
Motivation/Background

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)

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Finance: Central and accelerated handling of asset accounting

Central Finance Purchase Order integration

Business Background

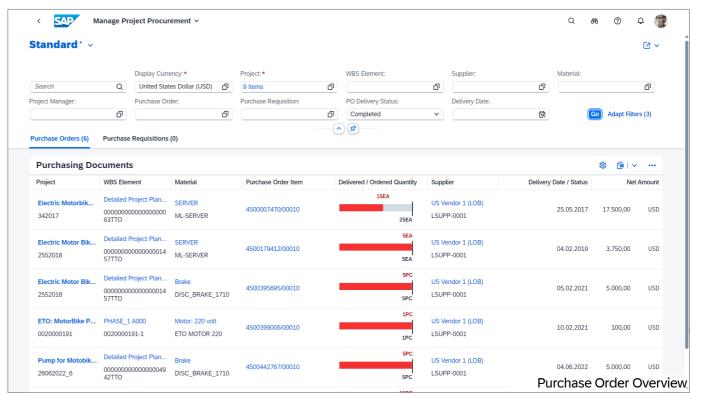
Using the app 'Manage Asset Assignments to Purchase Orders' (Central Finance), you can call up a worklist that shows the replicated purchase order line items which are related to an asset acquisition based on the configuration settings, its asset assignment status, and its corresponding asset acquisition posting status. You can then decide how to handle the line items with incomplete or error statuses

Purchase order integration for central asset creation in central finance

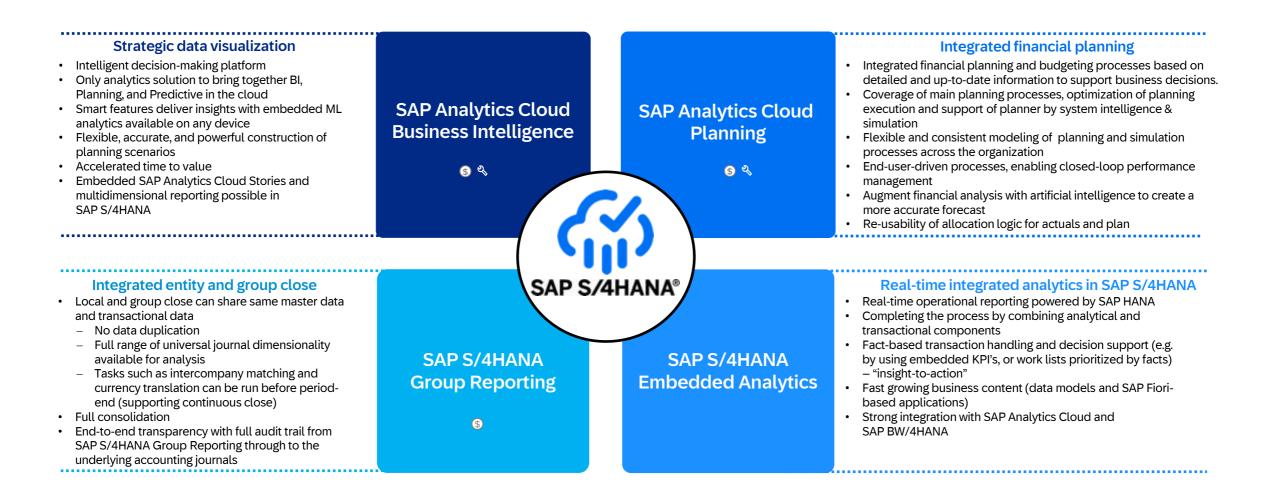
New functionalities for central asset accounting, which currently allows management of fixed assets and asset accounting in the central finance system and enables users to switch off asset accounting in the source system for selected company codes:

- Central asset creation from a replicated accounting view of a purchase order
- Automatic asset acquisition posting in central finance





Finance: Strategy for Financial Planning, Consolidation, and Reporting on and within SAP S/4HANA



Finance: Additional LoB Finance Solutions on SAP Analytics Cloud



Within the LoB Finance context, both reporting and dashboarding content as well as planning content is delivered out of the box, allowing you to make use of available best practices and decrease the implementation effort.

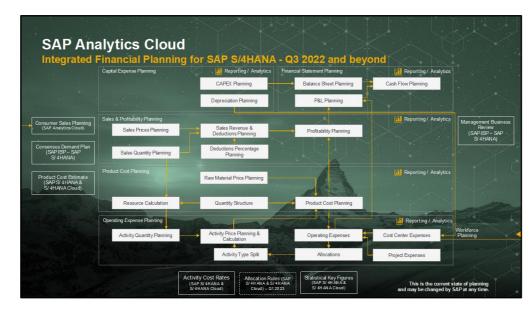
Some of the enhancements delivered in 2022 focusing on integrated enterprise-wide planning and transparency for the business user include (non-exhaustive)

Planning Integration & Content

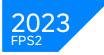
- Financial planning content integration with sales planning
- Planning consolidation

Prediction & Collaborative Simulation

- Predictive Liquidity Planning
- Predictive accounting integration
- Restatements And Simulations (transparent changes on past closings)



Finance: Delta scope summary I



Subscription Billing and Revenue Management	Advanced Accounting & Financial Close	Treasury Management [®]
 Subscription Order Management innovations include: Enhanced capabilities in product listing and credit management Enhanced integration capabilities in subscription orders and contracts Integration with SAP Global Trade Services for SAP HANA Enhancement of the SAP Fiori apps for contract lifecycle management to support SAP Convergent Charging parameters Convergent invoicing innovations include: Credits and Debits: support for gross and net amounts Back Dated changes when integrated with SAP Subscription Billing SAP Fiori app enhancements for convergent invoicing Intercompany (ICO) postings in convergent invoicing 	 Joint Venture Accounting (JVA) innovations include: JVA on the universal journal: cutback mapping extensibility (CDS views) support JVA on the universal journal: central-finance replication BAdIs for JVA master data Joint venture accounting on universal journal: cutback postings with invoice reference document number 	 Financial Risk Management innovations include: Daily exposure monitoring in the hedge management cockpit Balance sheet exposure on central calendar – working day shift FX hedge accounting flexibility: critical terms match approach Simulation of period-end closing with different rate types Payments and Bank Communications innovations include: Flexible incoming payment approvals
Accounting and Financial Close	Control C	G G O 50 Cavel Subarytein
 Revenue and Cost Accounting innovations include: Migration to optimized revenue accounting in a distributed scenario Improved error handling and usability in SAP Fiori apps for 	Billing Profile Billing Cycle Initial Settings Bill Solid Element Billing Cycle Relevance Date Billing Forecast Sep 1, 2024 Billing Forecast Finance Printel * Product * Finance Printel * Premium Package Sep 2, 2024- Oct 1, 2025	Bit Bickney Gouges Righter: 1 moth Bitting Colore Date:
 revenue accounting Enabling projects with network activities in event-based revenue recognition 	Display by (Meth. ↓) 30 20 20 70 70	C (a) (b) Corge- Outtoot
 Product Costing innovations include: Subcontracting as part of universal parallel accounting 		
	Subscription Billi	ing: Subscription Order Management

Finance: Delta scope summary II

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SAP S/4HANA Central Finance

- Enhanced planning features with transfer of plan data across systems
 - Increased efficiency in plan vs actual data reporting for several source systems in a Central Finance (cFIN) system
 - Planning & replication for cost center and activity type
 - · Status overview with application log and message status
- Purchase Order integration for central asset creation in cFIN
 - Swift integration of the procurement process and asset accounting
 - Complete the asset acquisition process in cFIN
- · Harmonized material cost estimate analysis
 - Provide a harmonized material cost estimate on one CA* currency
- Holistic Accounting View of Logistics (AVL)
 - Replication, deletion and enhanced reporting for the new types of sales order categories service contract and scheduling agreement Enhancing customer reporting requirements in Central Finance by expanding the service contract category within AVL tables
- Centralized tax reporting for replicating parked docs and more
 - Improved VAT reporting for dedicated countries
 - Integrate RITA** posting for reporting in central system

Real Estate Management

Contract and Lease Management innovations include:

- Plan-versus-actuals report for usable objects
- Enabling contract management for intercompany leases
- Usable and rentable object data extraction to enable crossplatform analytics with SAP Datasphere

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Controlling Area:* A000						
Fiscal Year:* 2024						
Posting Period:* 01	to: 08					
Cost Center: 17101301	to: 17101301					
G/L Account: 42001040	to: 42					
Parameters from Central Finance System for Writing						
Ledger: US						
Plan Category:* FINAL						
Reset Plan Data before Posting:						
Simulation						
Test Run:	Central Finance: 1	rang	fer	of P	lan	Dat

Enterprise Risk and Compliance

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International Trade Management innovations include:

- Integration with SAP S/4HANA Service
- Integration with Service Order Management
- Integration with SAP Watch List Screening

Research & Development

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)



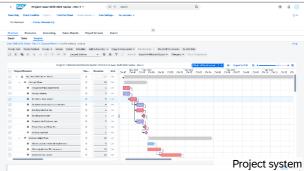


R&D: Overview

Modular Cloud LOB Solutions③ additional license③ additional installation	 SAP Enterprise Product Development (EPD SAP Cloud for Projects SAP Responsible Design and Production 	 Engineering – Visualization – Collaboration – Innovation Management Partner applications. Collaborative project and resource management. Respond to Extended Producer Responsibility (EPR) obligations and other public commitments. 	Construction C
SAP S/4HANA LOB Apps (3) additional license	Managementprojects into costProduct Lifecycle ManagementManage product complete lifecyc design to manufProduct ComplianceEnsure complia market, sell, and	ncy and automation for gaining insights for products and st, time, scope, resources, and quality performance. ct information holistically and efficiently across the cle, ensuring end-to-end visibility from requirements to facturing to service, in process and discrete industries. ance of products and chemicals to secure the right to a ship products. Ind compliant transportation of hazardous materials.	Contract of the second se
SAP S/4HANA	Product Engineering Provide a 360-0 product's life, fr	development and promotion of products that can be d and remanufactured. degree view of all relevant aspects in the early stages of a om first product idea through design to handover to	Construction of the second secon
SAP S/4HANA Enterprise Management	Project Control Gain insight into products and pr	o cost, time, scope, resources, and quality performance of rojects.	Image: Constraint of the second sec







R&D: Business area overview

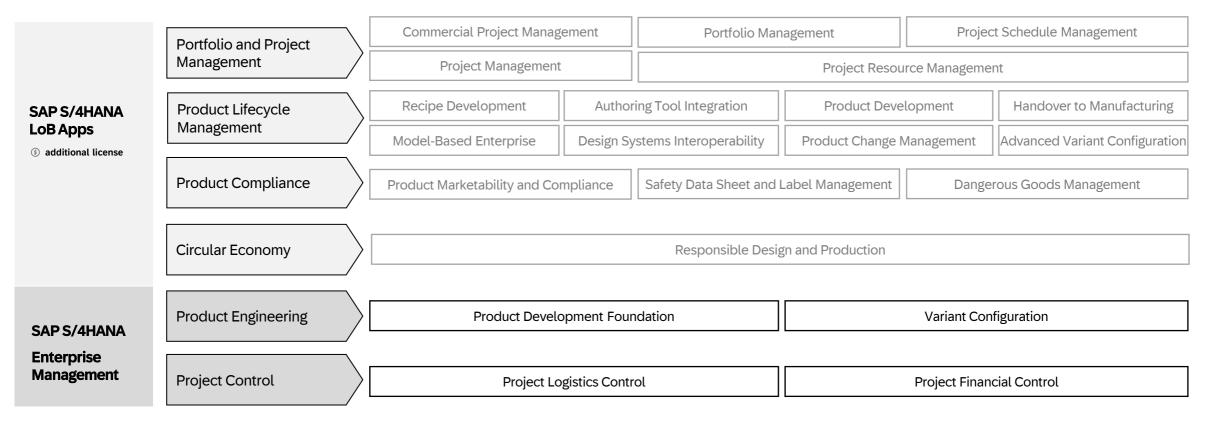
Modular Cloud LoB Solutions

③ additional license

- SAP Enterprise Product Development (EPD) Engineering Visualization Collaboration Innovation Management Partner applications.
- SAP Cloud for Projects

Collaborative project and resource management.

⁽²⁾ additional installation • SAP Responsible Design and Production Respond to Extended Producer Responsibility (EPR) obligations and other public commitments.



R&D: Engineering

Project Control	Project Financials Control	Project Logistics Control	Product Engineering	Product Development Foundation	Variant Configuration
	Define work breakdown structures as basis for hierarchical project accounting. Plan costs and budgets and track actual costs tightly integrated with core business processes. Monitor project progress and financial performance enabling the avoidance cost overruns on time.	Define project structures comprising suitable work breakdown and network structures as basis for project logistics planning and execution. Use simplified code and optimized data model in line with a simplified authorization concept and initial set of CDS views for external consumption.		Manage and integrate customer-driven innovations throughout the product development process. Define all the design requirements and constraints while maintaining rigorous design standards. Increase the reuse of components and providing information sooner.	Define, develop, test and simulate the configuration of product models. Enable your business processes to handle highly individualized products in engineering, sales, quality management, and manufacturing. Allow integration of variant configuration and classification data into embedded analytics

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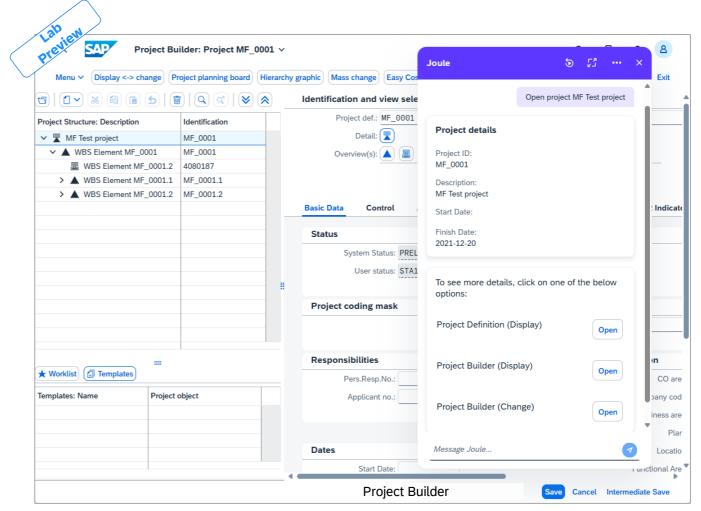
R&D: Project Systems

Navigational project assistant capabilities for Joule copilot

- Increase user satisfaction by supporting navigation in the Fiori Launchpad via natural language processing in the intelligent copilot Joule
- Easily find and open apps to display project data
- Open projects, WBS elements, or networks directly in the Project Builder or dedicated object pages for display or editing purpose using natural language processing

Joule content planned for Q4:

- Improve user efficiency by querying project master data using the Joule copilot
- Change selected project master data using natural language processing in Joule



Joule support for project assistants

2023

FPS2

Project Control

Project Financial and Logistics Control

R&D: Project Systems Enablement of lean services procurement

- Lean service capability enables one to plan and purchase external services as an alternative to using service activities in the Project System.
- Planning, purchasing, and monitoring of lean services from project networks is now made possible.
- Efficient project related purchasing is facilitated through grouping and planning of both material and service components - planned or unplanned - in a harmonized way.
- Simplified service selection with selection of services and materials from model product specification for planned services; ability to assign contracts or contract items to unplanned services.
- Extensibility option provided to validate overall limit and expected value for unplanned services.
- Simplify handling of unplanned services in the lean service procurement process and the service entry sheet.

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Project Control



R&D: Project Systems

Integration of field logistics with project systems for network orders

- Enabling project systems to support the field logistics processes between a supplying base and remote locations
- Integrate field logistics processes with project systems starting from supply process derivation in the network order and supporting the demand initiation from projects
- Support the logistics between a supplying base and remote locations, receiving products needed for network orders at the base and forwarding them to the remote location, as well as return from the remote location to the base

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R&D: Portfolio and Project Management

Simplified authorization handling for portfolio management

- Simplified authorization management is now available in Portfolio Management, making it easier for you to analyze and maintain user authorizations for portfolio objects.
- Accelerated and more-comprehensive authorization handling for portfolio objects through:
 - Removal of "none" authorization.
 - Removal of prioritization rules based on inheritance or authorization holder objects.

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Portfolio and Project

Management



Portfolio Management

R&D: Portfolio and Project Management Reading portfolio data using an API

- APIs for reading portfolio data incl financial information based on semantically aligned one domain model resulting in increased stability of integrations.
- New Project Portfolio Read API enables read of information related to Project Portfolio, Bucket, Item and Decision Point. It enables the read of master data, financial planning, capacity planning and many other entity specific data.
- Improve process flexibility by using create, update, and delete APIs for portfolio financial information.
- Simplify the exchange of business objects and improve data consistency by leveraging the suite quality "aligned domain models, APIs, and events".

SAP Business Accelerator Hub	Explore Resou	rces Discover Integrations	Partner with Us	ø	Ē	ſ(Q	Login
/ SAP S/4HANA Control Project Portfolio - Re Read Project Portfolio data using this		nd service					:	Show API Key
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Introduction The service enables you Bucket, Item and Decisio master data, financial pla specific data. The service consumed by application View the API Referent Documentation	In Point using their G anning, capacity plan is based on the OD is and other user inte nce Chec	UIDs (unique IDs). You c ining and many other ent ata V4 protocol and can I	an read ity LAST MOD	E FIED 024 E	TYF ODAT VERS 1.0 DIREC Inbot	AV4 ON 0		FEEDBACK
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R&D: Product Compliance (1)

Product Compliance ③

Product Marketability and Chemical Compliance

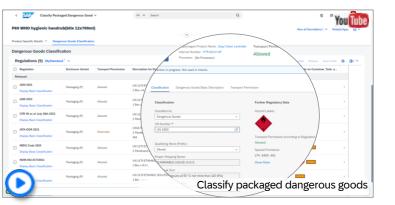
- Manage material and ingredient information and satisfy legal and customer requirements.
- Collect compliance data from suppliers and customers and publicize compliance information.
- Automatically track volumes of regulated substances, assess and verify products and materials for different compliance requirements including required registrations and trackedversus-allowed quantities.

Dangerous Goods Management

- Manage dangerous goods information centrally for all products, regions and modes of transport.
- Automate dangerous goods classification and leverage included dangerous goods regulatory content.
- Ensure that all shipments are DG compliant through integrated dangerous goods checks, providing adequate packaging, accurate transportation modes and routing.
- Automate the creation and provisioning of dangerous goods documents.

Safety Data Sheet and Label Management

- Manage substance and regulatory information centrally, streamline component and product classification, and automate **safety data sheet and label creation**.
- Use **regulatory content** to reduce effort and ensure ongoing compliance.
 - Automate label printing and safety data sheet shipping integrated in logistics processes.





R&D: Product Compliance (2)

Product Compliance (§

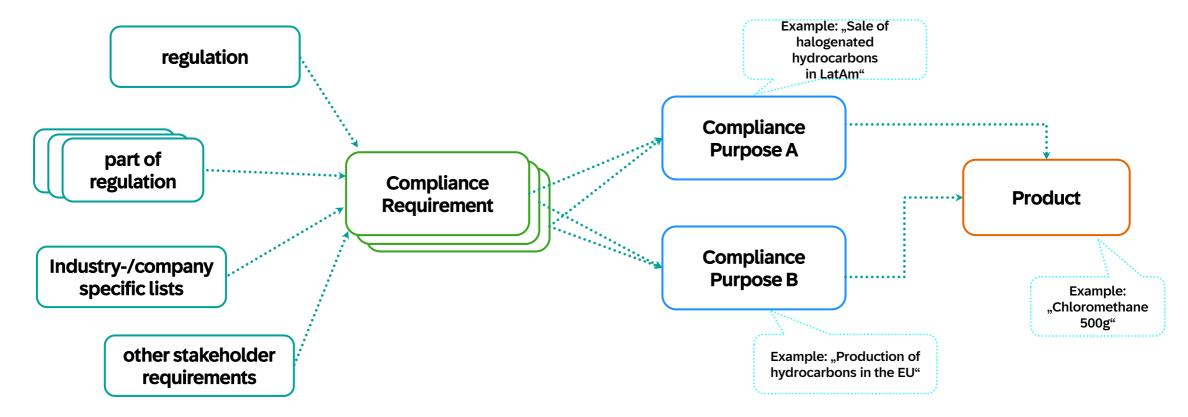
- **Easy conversion from the classic world:** classic EHS Product Safety, based on the specification database, is available in SAP S/4HANA (perpetual scope).
 - Available since release 1809: the new, re-architected **Product Compliance** solution, introduces a new and simplified data model.
 - · Completely 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.

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ADR 2023 Display Basic Classification	Packaging (P)	Allowed	UN 1170 ETHANOL SOLUTION, 3, II, (D/E) 1 Box \times 8.4 l	UN 1170 ETHANOL SOLUTION	🔶 <u>11</u>		>
CFR 49 as of July 26th 2022 Display Basic Classification	Packaging (P)	Allowed	UN 1170 Ethanol solutions, 3, II, ERG: 127 1 Fibreboard box x 8.4 I (2.2191 US Gallon)	UN 1170 Ethanol solutions	🔶 <u>††</u>	 	>
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R&D: Product Compliance New data model

The new Product Compliance solution has a new data model for efficiently managing compliance requirements, business-related groupings, and their assignment to packaged and unpackaged products.

Regulatory Content is included in SAP S/4HANA Product Compliance – no additional license required.



R&D: Product Compliance Synchronization of company owned phrases

SAP

Phrase-Enabled Fields (831)

Assessment Ecotoxicity: Additional Statement

Context: Ecological Information

Context: Ecological Information Compliance Requirement:

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Bioaccumulation: Additional Statement

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Compliance Requiremen

Bioaccumulation: Method

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Bioaccumulation: Species Context: Ecological Information

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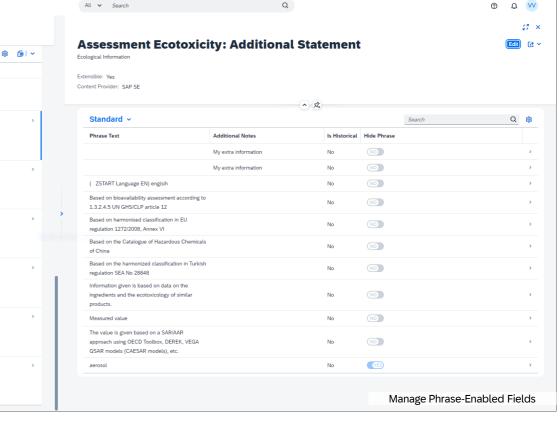
Field Name

Manage Phrase-Enabled Fields

- Ability to manage company-owned phrases that are basically the same.
- New feature to keep company-owned phrases in sync to simplify phrase management.
- Enable use of company-owned phrases for output on documents like safety data sheets, labels, and reports.
- Automatic replication of changes to phrases, no matter which phrase has been edited within the list of sync phrases.
- Avoid multiplied data maintenance for customers to maintain phrases.



Synchronization of Company Owned Phrases



Product Compliance (§

R&D: Product Compliance Listed substance provisioning through regulatory content service

- Ensure that customers stay up-to-date with the latest listed substances and listed substance group assignments.
- Delivery of listed substances and listed substance groups using a regulatory content service from SAP.
- Consumption of listed substances and listed substance groups into SAP S/4HANA for product compliance through a service interface.
- Automated updates of listed substances and listed substance groups in case of regulatory changes and enhancements.

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Cobalt-dichloride	7646-79-9	231-589-4	Not Specified	
Diarsenic-pentaoxide	1303-28-2	215-116-9	Not Specified	
Diarsenic-trioxide	1327-53-3	215-481-4	Not Specified	
-tert-Butyl-2,4,6-trinitro-m-xylene	81-15-2	201-329-4	Not Specified	
Di-(2-ethylhexyl)phthalat	117-81-7	204-211-0	Not Specified	
lkanes, C10-13, chloro	85535-84-8	287-476-5	Not Specified	
is(tributyltin) oxide	56-35-9	200-268-0	Not Specified	
rsenic acid (H3AsO4), lead(2+) salt (1:1)	7784-40-9	232-064-2	Not Specified	
utylbenzylphthalate	85-68-7	201-622-7	Not Specified	
2,4-dinitrotoluene	121-14-2	204-450-0	Not Specified	
Anthracene oil	90640-80-5	292-602-7	Not Specified	
Anthracene oil, anthracene paste	90640-81-6	292-603-2	Not Specified	
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Not Specified	
Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	Not Specified	
Anthracene oil, anthracene-low	90640-82-7	292-604-8	Not Specified	
Diisobutyl-phthalate	84-69-5	201-553-2	Not Specified	
.ead chromate	7758-97-6	231-846-0	Not Specified	
C.I. Pigment Red 104	12656-85-8	235-759-9	Not Specified	
C.I. Pigment Yellow 34	1344-37-2	215-693-7	Not Specified	
Pitch, coal tar, high-temp.	65996-93-2	266-028-2	Not Specified	
ris(2-chloroethyl) phosphate	115-96-8	204-118-5	Not Specified	
acrylamide	79-06-1	201-173-7	Not Specified	
Ammonium-dichromate	7789-09-5	232-143-1	Not Specified	
Potassium-chromate	7789-00-6	232-140-5	Not Specified	
Potassium-dichromate	7778-50-9	231-906-6	Not Specified	
Sodium-chromate	7775-11-3	231-889-5	Not Specified	
Boric acid, disodium salt, hydrate	12267-73-1	235-541-3	Not Specified	
Trichloroethylene	79-01-6	201-167-4	Not Specified	





tracking process with the new Fiori app. DFV_2021_R Business Process Sales Q General Information Version Overview ^ x Compliance Requirements by Business Process (... Compliance Requiremen Enabled On DFV_2021_R 01.08.2023.13:46:23 Compliance Requirement Disabled On Business Proces 01.08.2023, 13:45:12 DFV_2021_R Sales Business Process: Sale SVT Enabled: Yes SVT Enabled: Ye US SVT 2020 June - BPC Rusiness Process: Purchasin Version Overview SVT Enabled: Yes DFV 2021 R **Compliance Requirement Versions (3)** Business Process: Manufacturing Name Activation Status Composition - Legal Area SVT Enabled: No DFV 2021 R.02.12.2021 Active (World) DFV_2021_R DFV 2021 R.01.12.2021 Active (World) Business Process: Purchasing DFV 2021 R.12.11 SVT Enabled: No Active (World) DN Monitor 2102 Business Process: Manufacturing SVT Enabled: No DN Monitor 2102 Business Process: Sales SVT Enabled: No DN Monitor 2102 Business Process: Purchasin SVT Enabled: No **DN Requirement** Business Process: Sales SVT Enabled: No DN Requirement

Enable Substance Volume Tracking for Compliance Requir... V Apps V Search In: "Apps

Enablement of Substance Volume Tracking for a Compliance Requirement

SAP

Business Process: Purchasing

Standard

Efficiently manage the substance volume

R&D: Product Compliance

- Possibility to start the substance volume tracking process for a compliance requirement that is relevant for tracking.
- Gain flexibility by having to the ability to switch substance volume tracking on or off for a compliance requirement and business process.
- Leverage the ability to perform a full reset for all compliance requirements, including retracking decisions.

Enable Substance Volume Tracking for Compliance Requirement

Substance Volume Tracking

Initial Tracking Date:

Last Tracking Date Time:

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Product Marketability Safety Data Sheets

Increase efficiency and comply with regulations that require printing of the product name in two languages, such as English and Chinese for a Chinese SDS.

Multiple address handling & international address version support

 Handling of multiple addresses in safety data sheet (SDS) processes using the business partner data model from SAP, which can provide multiple addresses with timedependent validities and address-dependent data for each business partner master record.

R&D: Product Compliance

- Support for international address versions (IAVs) on SDSs.
- Ability to print translations for multiple product names in chapter one of the SDS.
 - Bavaria 8a, 80000 München, Germany Seestraße 1234, 20000 Hamburg, Germany GarmWeg 123, 88763 Garmisch, Germany Bavaria 8a, 80000 München, Germany Am Hangar 78, 34000 Hannover, Germany

P44 Black Magic Special

Compliance Information - For Products ~

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Send Document

Document:

1010

Customer:*

Address

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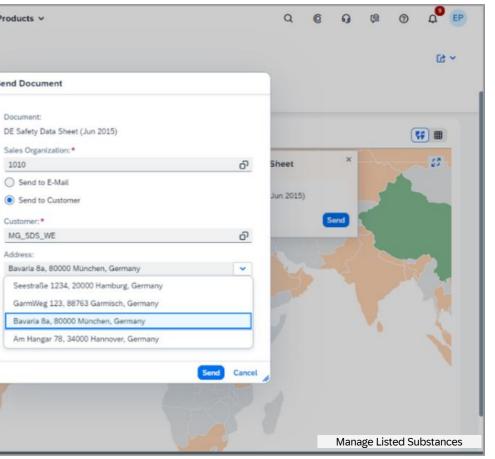
Sales Organization: *

Send to E-Mail

Send to Customer







R&D: Product Compliance Dangerous goods movement

- Make dangerous goods data available to carriers in electronic form (business-to-business interface) reducing inconsistencies and avoiding manual work
- Provision of dangerous goods data with SOAP service for road, rail, ocean, and air-cargo freight bookings to carriers
- Provide dangerous goods data within SOAP service for subcontracting road and rail freight orders to carriers for all relevant products.
- New sub-structure is added to dangerous goods segment which contains the applicable dangerous goods regulations that are determined in dangerous goods checks carried out in transportation documents.

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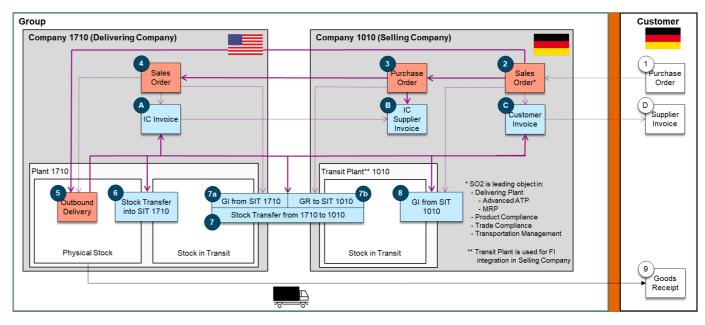
Product Compliance (§)

R&D: Product Compliance in inter-company stock transfer



Product compliance integration in advanced intercompany stock transfer

- Use product compliance data in checks carried out in documents within the advanced intercompany stock transfer process:
- Compliance relevant products which the system carries out compliance checks in:
 - Intercompany purchase orders of the receiving company
 - Outbound deliveries of the delivering company
 - Freight orders and freight units (dangerous goods check, only)
- Create or edit one of these documents; then the system:
 - Verifies whether a safety data sheet is required and whether the relevant safety data sheet is available in the specified languages
 - Checks for products classified as dangerous goods whether transportation of the product is allowed, forbidden, or restricted
- The safety data sheet is not sent from the outbound delivery of the delivering company, because company-internal safety data sheets are available to all consumers



R&D: Product Lifecycle Management

Product Lifecycle Management ③

Integrated Recipe Development

Integrated Product Development

PLM for process manufacturing:

develop recipes and formulas rapidly, reusing existing ingredients. Design packaging and labeling. Collaborate with suppliers and work seamlessly with partners to accelerate product development and comply with regulations, while managing product development costs.

PLM for **discrete manufacturing**:

accelerate design by integrating product lifecycle management in a single, real-time environment. Validate and control complex products structures; including the definition and management of hardware and software compatibility. Create individualized products by defining and reusing variant product structures across the supply chain. Efficiently hand over from Product Engineering to Production Engineering by working in one integrated real-time solution. Minimize product cost by thoroughly understanding productand resource related master data. Improve agility by deploying flexible manufacturing practices based on plant resources and capabilities. Endto-end visualization helps to eliminate errors and improve quality.

Handover to Manufacturing

Advanced Variant Configuration

Improve sales and product engineering performance for advanced variant configuration by implementing a **new state-of-the-art configurator**. Utilize a comprehensive **simulation environment** for variant configuration models. Benefit from the user-friendly classification capabilities. Integrated advanced variant configurator supporting **multi-level** variant configuration models. Efficiently manage **constraints** without coding, supported by a new tracing and inconsistency handling functionality.



- Support of discrete and process industry objects.
- Digital signature for change records.
- Flexible CR hierarchies.
- Visualization of status & changes.



Use of reference designators to better identify a material / component:

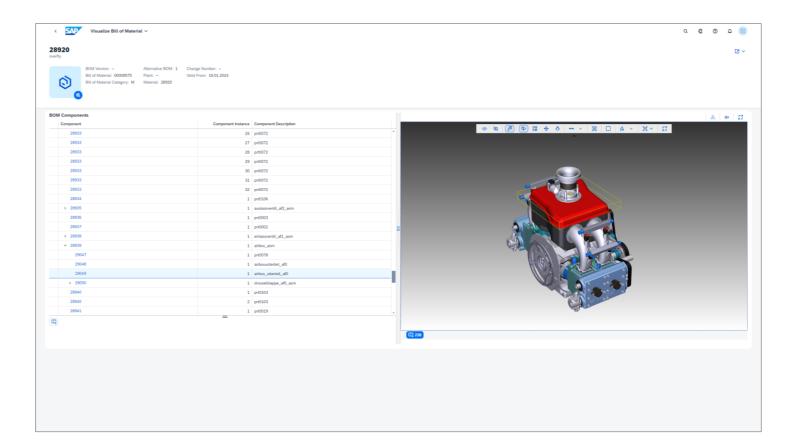
- in visualization.
- handing over the information from EBOM to MBOM.
- display in shop floor routings and work instructions.





R&D: Bill of Material Dynamic viewing (3D) of the bill of materials

- Fiori app enabled for 3D viewing of Bill of Material.
- Support for dynamic viewing based on component visuals and the geometric information in the bill of materials (BOM).
- Capabilities to view single documents or generation of a dynamic mock-up based on the BOM explosion results.
- Simplify the validation process to decide on the accuracy of the BOM using 3D visualization of the structure.
- Get additional insights by visualizing the assembly and parts information.

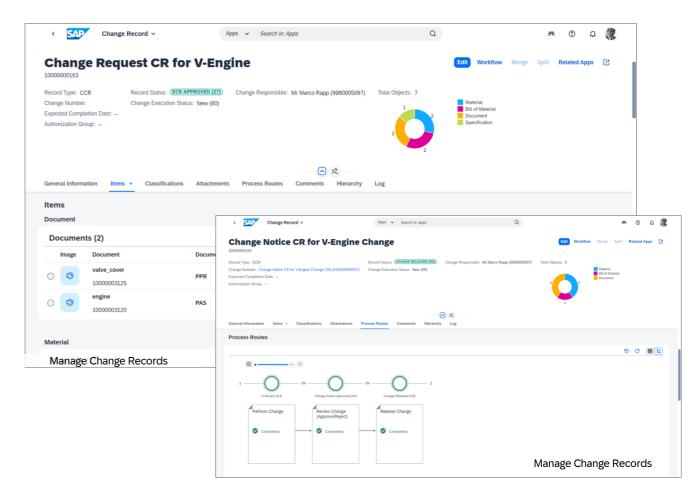


Product Lifecycle Management [®] Produ

• Comprehensive change management to increase agility and responsiveness through enhancements in Change Record.

R&D: Change Record

- Provide transparency in change process through impact analysis to review and understand the implications of change on objects.
- 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.
- Enabling streamlined authorization management by allowing maintenance of an authorization group on the Change Record header level of SAP S/4HANA.
- 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.
- Increased transparency over different phases of the product change by enabling the users to add the same component, with different relevancy, into a change record.



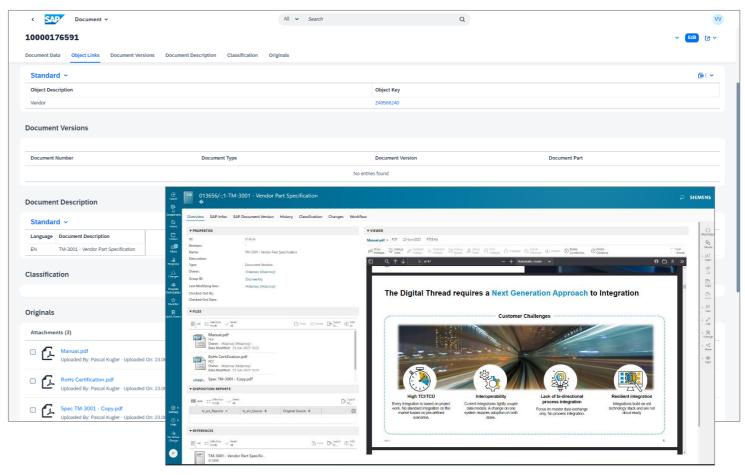
R&D: Integration to external PLM systems



Product Lifecycle Management ③

Design Systems Interoperability

- Bi-directional document exchange between an external PLM system.
- Integration to enable the transfer of documents from SAP solutions to an external PLM system:
 - Exchange of document details, physical files & vendors linked to the document
- Exchange required documents between the engineering system and SAP to enable all stakeholders to collaborate across domains.
- Necessary information for manufacturing engineering and transfer of inspection characteristics from an external PLM system.
- Multi-system cardinality support: Ability to connect multiple external PLM systems to single SAP S/4HANA system.



R&D: Integrated recipe development

Product Lifecycle Management (§)

Integrated Recipe Development

Centrally Manage Ingredient and Product Details

- Specification Management: single source for ingredient and product information to flexibly describe raw materials, semi, and finished products.
- Composition, properties, nutrient, allergen, and diet information including declarative, compliance, and packaging information.
- Use integrated Change Management and structured workflows to manage release and review processes, integrated across the different objects.
- Contribution-based formulation Optimized formulator: - check against limits and targets for compliance during formulation.
- configurable contribution view layout.
- more efficient calculations.
- Specification data integration: OData service to read and write specification data (description and compositions) supporting solution extensions such as supplier collaboration.

"Target-driven recipe development — the functionality that our product developers were dreaming of to design compliant recipes — is a revolution in terms of usability. This work was an outcome of successful design thinking on the formulation area." Senior product manager, CPG multinational

Develop Recipes - Fully Integrated

- Formulate using multilevel hierarchies and various calculation modes. Calculate product properties like ingredients, compositions, allergens, nutrients, diets, total solids, evaporation, nutrient losses, and costs. Describe the processing of the product using stages, parameters and equipment requirements and leverage in place analytics to get quick access to information.
- Develop recipes side by side to accelerate the trial process, create multiple versions and variants in one step to setup trials, compare ingredients, and calculation results of multiple recipes. Manage the release process with structured handover to manufacturing.
- **Recipe Finder**: identify change impacts across product hierarchies – find out easily where change is needed.
- Contribu • formulatio

Contained In:

Validate Compliance, Prepare Product Declarations and Labeling

- Integrate **compliance** in product development to ensure marketability early on. Perform real-time compliance checks against regulatory and self-defined rules. Store and review former check runs, maintain and enhance your rules centrally.
- Develop legal and other product declaration info using labeling functionalities, define ingredients lists, nutritional facts, allergen information, statements and claims.

A brief product history of SAP Recipe Management /Recipe Development (Blog)

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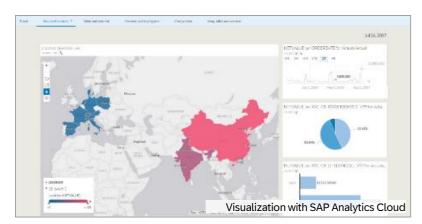
R&D: Variant Configuration core and advanced scope

Product Engineering

Variant Configuration

Variant Configuration – easy conversion from the classic world: LO-VC

- Classic Variant Configuration LO-VC available as part of SAP S/4HANA Enterprise Management
- Immediate re-use of existing models after system conversion
- LO-VC improvements: new Fiori UIs, Embedded Analytics for Classification & Configuration
- Migration tool for LO-VC models, single- and multi-level, into the new Advanced Variant Configuration
- Integration of LO-VC into Order Engineering Workbench -> intuitive user interface



Product Lifecycle (Management

Adv. Variant Configuration

Advanced Variant Configuration – rearchitected, constant innovations

- **New VC Engine** making full use of HANA capabilities (code pushdown)
 - Improved performance and usability
 - Single- and multi-level VC models
 - Flexible constraint modelling
 (operators, positive/negative)
- Enhanced Analytics based on CDS views for holistic analytics scenarios => visualization flexibility, e.g., via SAP Analytics Cloud
- Enhanced UI: Role-based overview page for Product Modeler
- **Trace view:** how are object dependencies processed in configuration engine
- Visibility of AVC data in purchasing and production execution
- Support for multilevel **sales kit- / SET scenarios** for configured products
- VC data in sales order SOAP services

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R&D: Enterprise Portfolio and Project Management

Portfolio and Project Management

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Portfolio Management

Project Management

Align portfolios with strategy while

analyzing risk and performance in real-time. Invest in the right projects and identify those which can generate the most business value by instantly scoring and ranking proposals. Gain rapid insights into the **performance of your entire project portfolio** through real-time analytics and monitoring.

Portfolio Management:

Manage risk scenarios for portfolio items and projects

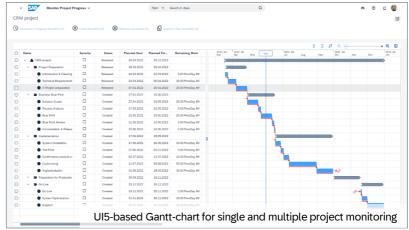
Plan, carry out, and monitor projects in real-time to minimize deviations in schedule, cost, scope and quality. Manage the **resources**, schedule, and financial performance for each project phase, from project initiation through closure. Minimize delays and prevent business interruptions by monitoring the progress of projects in real-time.

Project Management:

Automatically generate projects from a portfolio item, incl. PS and CPM projects Commercial Project Management

Embedded Commercial Project Management (CPM) covers multiple processes in an end-to-end scenario spanning the selling, planning, performing, monitoring, and controlling of projects. Companies that sell projects (e.g., in professional services or the engineering & construction industries) can so professionalize their core business processes and expand beyond backoffice capabilities. Project Connection

Streamline and automate a **bidirectional exchange of project information** with external scheduling tools. Orchestrate the exchange through business rules defining the sequence of creating and modifying project elements – dynamically, based on project types and other criteria. Exchange plant maintenance orders with third-party scheduling tools for full processing maintenance, from planning and scheduling to execution and progress tracking.



R&D: Portfolio & Project Management process

Portfolio and Project Management

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Portfolio Management

Project Management

From Ideas to Project Success with Ext. Enterprise Portfolio & Project Management



R&D: Commercial Project Management

Create change requests and report issues

• Report project issues and create a change request for a project via SAP Fiori app.

Change-request approvals and print form configurations

- In addition to the existing change-request approval process, users are able to leverage simpler approvals for change requests using the overall status of the change request.
- Users are able to configure multiple print forms for the same change request and to select and print one of them in the change-request application.

Cut-off date, Period KPIs, and Forecast Accuracy

- Cut-off dates forecasting in the application based on real-time data; enhancement that allows users to conveniently specify a cut-off date for considering actual postings (such as cost, revenue, or quantity); project manager ability to view and forecast information on accurate data, for example, if relevant postings were made until last Friday, project manager ability to run a forecast based on that cut-off date
- Period KPIs enhanced management of commercial projects; ability to work with real-time information; ability to augment information with notes from the project manager (such as details of a particular situation last Friday); period KPIs that bring this information into the same view of current data, allowing project managers to accurately assess progress.

Simplified approval workflow for change requests

• Based on BRF+; trigger = status of CR or activity within the CR

Improved functionality for monitoring and forecasting of commercial projects

- Better documentation of manual adjustments to system-generated forecasts by
 project manager
- Cut-off dates for running actuals reports
- "Period KPIs" to show situation until / as-of certain date, versus real-time
- Additional reports and queries providing S-curve information or KPI trends, embedded in the existing forecast workbook application
- Versioning of risk scenarios

Flexible printing of PDF forms from issue or change requests

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R&D: Delta scope summary 2023



Produ	Portfolio and Project Management [®]	
		 Portfolio Management Enhanced transfer of financial planning values to portfolio item Portfolio Management Simplified authorization handling for portfolio management (FPS2) APIs for reading portfolio data incl financial information based on semantically aligned one domain model resulting in increased stability of integrations (FPS2)
	•	
Project assistant capabilities for Joule: En Project Logistics Control		
	 Product Marketability and Compliance Enable use of company-owned phrases for output on documents like safety data sheets, labels, and reports by keeping company owned phrases in synchronized Flexibility to enable substance volume tracking for a compliance requirement Safety Data Sheet Multiple address handling, international ad multi-name print support for safety data sh Reading project cash management data fi Use responsibility management teams to Support for purchasing services in through Project assistant capabilities for Joule: En 	 Compliance Enable use of company-owned phrases for output on documents like safety data sheets, labels, and reports by keeping company owned phrases in synchronized Flexibility to enable substance volume tracking for a compliance requirement View the labeling and marking information for all items that are included in a business document Safety Data Sheet Multiple address handling, international address version support, and multi-name print support for safety data sheets Reading project cash management data from universal journal Use responsibility management teams to assign employees to network activities Support for purchasing services in through lean services enablement (FPS1) Project Logistics Control

• Integration of field logistics with project systems for network orders (FPS2)

Asset Management

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





Asset Management: Overview

Modular Cloud LoB Solutions

SAP Asset Performance Management
 SAP Service and Asset Manager
 SAP Asset Intelligence Network

 $^{\textcircled{\$}}$ additional license

🕸 additional installation

SAP S/4HANA LoB Apps	Maintenance Management (ext.)	maintenance activities for linea	ta to describe, locate, and manage ar assets (e.g., pipeline, road, railway, etc.) unctionality with detailed scheduling anning.
③ additional license	Environment, Health,	Work Permit and Isolations	* SAP categorizes EHS to which work permit capabilities belong under Manufacturing. We list the
	and Safety	Management	work permit and work clearance management (WCM) here in Asset Management considering main customer use cases .
SAP S/4HANA		Leverage a holistic approach i	ncluding planning, execution, improvement,
Enterprise Management	Maintenance Management	and collaboration. Combine m	
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Asset Management: Business areas and capabilities

SAP Asset Performance Management

SAP Service and Asset Manager
SAP Asset Intelligence Network

Modular Cloud LoB Solutions

- (5) additional license
- 🕸 additional installation

SAP S/4HANA	Maintenance Management (ext.)	Asset Spatial Enablement	Asset Management Resource Planning	
Cob Apps additional license	Environment, Health,	Work Permit and Isolations	* SAP categorizes EHS to which work perm	
	and Safety	Management	Manufacturing. We list the work permit and (WCM) here in Asset Management conside	
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SAP S/4HANA		Asset Fault and Incident Response Management	Asset Data and Information Management	Asset Costing and Valuation
Enterprise Management	Maintenance Management	Tactical Asset Management Planning	Asset Configuration Management	Asset Performance Analysis
		Maintenance Execution	Asset Refurbishment	

Asset Management: Maintenance Management

Maintenance Management	Asset Fault and Incident Response Management	Tactical Asset Management Planning	Maintenance Execution	Asset Refurbishment
	Systematically respond to asset failures and incidents by detecting and identifying issues, conducting fault analysis, and applying standard responses. Create, screen, and process maintenance requests for different types of work including corrective, preventive and condition-based	Develop and implement plans and activities for effective asset inspection, maintenance, repair, replacement, and disposal. This includes specified timescales and costs for completion, as well as the necessary resources, such as people, tools, materials, services, documents, permits, and authorizations.	Perform planned or emergency maintenance. Manage asset information for maintenance orders, maintenance, measurements, inspections, metering, and inventory in order to improve safety, environmental impact, and operational results.	Repair or remanufacture defective technical objects, such as machinery and equipment to restore them to operational status after wear or malfunction. Extend the lifespan of assets, delaying the need for expensive replacements.
	maintenance with any device such as mobile devices or desktops, or automatically by the system.	Asset Configuration Management	Asset Costing and Valuation	Track refurbishment costs to help in financial reporting and decision-making. Asset Performance Analysis
	Create, update, delete, and archive asset master and transactional (such as time series and events) data. Manage relevant business rules, unstructured data (documents, drawings of design models, and pictures),	Identify, record, and manage the functional and physical attributes of assets and related documentation including the links between the components of a system. It enables systematic control of changes to the	Monitor asset maintenance costs, from planning to closing, including labor and materials consumed, with recognizing and adopting appropriate valuation practices.	Collect and analyze operational data, maintenance records, and other key metrics to identify opportunities for improving reliability, availability, efficiency, and effectiveness
	and location information across asset types including historical data according to data quality requirements.	identified asset attributes for maintaining integrity and traceability throughout the asset lifecycle.		Leverage analytical insights to optimize asset utilization, minimize downtime, and reduce maintenance costs.

Maintenance Management (ext.)

Asset Management (5) Resource Planning

Asset Management: Resource planning SAP S/4HANA Asset Management for resource scheduling

Optimize maintenance schedule with availability windows for maintenance, work center capacity, and maintenance plans.

Use SAP S/4HANA Asset Management for resource scheduling for embedded resource scheduling.

- Gain insight into your maintenance workload and available capacities for current and upcoming maintenance activities
- Identify critical planning situations early and take action to improve planning-relevant KPIs
- Plan maintenance orders efficiently based on work center utilization to make sure that all maintenance jobs can be completed
- Adjust work center capacity quickly
- Assign statuses to schedules and optimize work center capacity.
- Visualize the maintenance orders in your work centers to gain transparency about what needs to be done when
- Set up, share, and monitor schedules
- Provide feedback for a schedule and plan your own work accordingly

Optionally, Multi-resource Management can still be used.

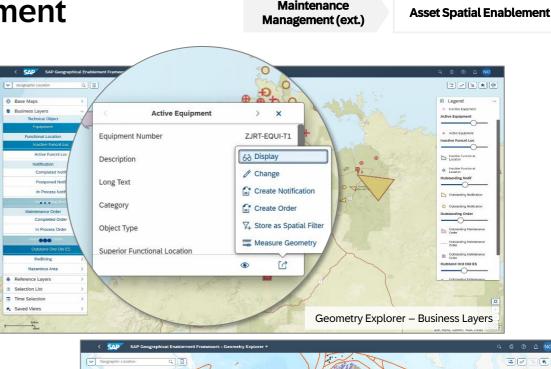
< SAP Manage Work Cer	ter Utilization 👻		All ¥ Ser	erch	٩	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Standard' ~						Change Work Center Capacity My Work Center
Ime Period.* Periomi Next 4 Weeks (27.06.20	ng Mork Center: Priority:		Order Typ	*	ee Activity Type: Control Key:	Processing Status:
Date Ranges	serations (33)			* \$		
From / To Today -X / +Y Days					Cancel Dispatch Show Corresponding Orders	
Weeks	station	Priority	Planned Start	Planned End Processing Statu	s Work Order Type Performing Work C	4 Work Centers (27.06.2022 - 24.07.2022)
This Week	D pare Area & Shut Down Asset	Medium	30.06.2022 02.00.00	30.06.2022 Cve 10.15.00	4.0 H YA02 MG_R5H02	
Next Week	0 in Housing & Inspect	Medium	30.06.2622 05.00.00	30.06.2022 Due 12.22:30	6.0 H VA02 MG_RSH01	
Preset Date Ranges	D Gace Plants	Medium	01.07.3822 03.00.00	01.07.2022 Due 13:26:15	7.0 H YAO2 MG_RSH01	3
Next 4 Weeks Part 6 Months	0 sk Function	Medium	02:07:2822 02:00:00	04.07.2022 Our 08.07:30	2.0 H VA02 MG_RSH01	400 M
P 201 0 MORENS	0 se Housing & Clear Area	Medium	02.07.2822 04:00:00	04.07.2022 Ove 11:28:45	5.0 H VA02 MG_R5H01	
	0 tart Asset	Medium	02.07.2022 00:00:00	04.07.2022 07:03:45	1.0 H YA02 MG_RSHEL	
4002424 Proactive Maintenance MG-02	0010 Prepare Area & Shut Down Asset	Medium	30.06.2022 06.00.00	30.06.2022 Oue 39.25.00	4.0 H VA02 MG_RSH01	26 27 28 29
4002424 Proactive Maintenance MG-02	0520 Open Housing & Inspect	Medium	30.06.2022 06:00:00	30.06.2022 Due 12:22:30	6.0 H YAO2 MG_RSHEL	Calender Week MG_RSH01 🐠 MG_RSH02 🔮 RSH_BL00 🔮 RSH_MDOH
4003434	0030		30.06.2022	01.07.2022		

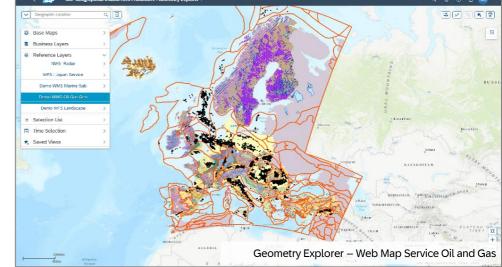
Sta	andard` ~												Change	Work Center Capac	ity My Work
Time Pe	riod:* Perform	ning Work Cente	MI:	Priority:	c	Order Type:	Pro	cessing Status:		TEST_ORD:		TEST_ORD_OP:			
Next 4	Weeks (06/30/202 🕅		~		~		~		~	(EAZ X)	6		d	Go Restor	e Adapt Filter
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Orde)	• @ 🗉
Main	tenance Orders (5)					0 X				Trigger Order Scheduling	Change	Dispatch Ca	ancel Dispatch	Remove Constrain	* 🔳 📜
Ľ N	laintenance Order	Mainten	Priority	Processing	TEST_ORD_OP	TEST_ORD	July 2022 1.7.	3.7.	5.7.	7.7. 9.7.	11.7	13.7.	15.7.	17.7.	19.7.
	> 3 4033840 Prp Test Order1	PRP_MRS1	3-Medium	Due		AZ				PRP_MR51 4033840 P	rp Test Orde	er1			
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	0010 Op1	PRP_MRS1	No Priority	Due		AZ			1 Resou	0010 Op1					
	0020 Op2	PRP_MRS1	No Priority	Due		AZ			-	1 Reso 0020 Op2					
	 A033843 Test Order 	PRP_MRS1	3-Medium	Due		AZ				PRP_MR	11 N	4033843 Test Order			
	0010 Op1	PRP_MRS1	3-Medium	Due	хо	AZ				0010 Op1					
	 A033860 Test Order 	PRP_MRS1	No Priority	Due		AZ					1	PRP_MRS1	4033860 Tes	it Order	
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	0030 Op3	PRP_MRS1	No Priority	Due	C1	AZ					1	0030 Op3			
	0040 Op4	PRP_MRS1	No Priority	Due	A3	AZ						0040 Op-			
	> > 4033863 Test Custom field	PRP_MRS1	3-Medium	Due		AZ									2

Asset Management: Spatial Asset Enablement SAP Spatial Asset Management for SAP S/4HANA

Seamlessly integrate with geographical information systems (GIS) and business spatial data providing **end-to-end spatial workflows**

- Run SAP business transactions from a map on any device
- Create and manage geometry for business objects (equipment, functional location, notification, and work order)
- Support for multiple business layers, reference layers, and geometry types (points, lines, and polygons)
- Bi-directional and real-time visualization of SAP spatial data and external geographical information systems (GIS)
- Linear data modeling enhancement of technical object functions and classification system to support the definition of a linear asset – e.g., power lines, pipelines, roads, and rail tracks)
- Linear asset work management enhancement of work order processing to support linear work definition including notifications, measurement points and counters, measurement documents, work orders, confirmations, and maintenance plans to support linear information

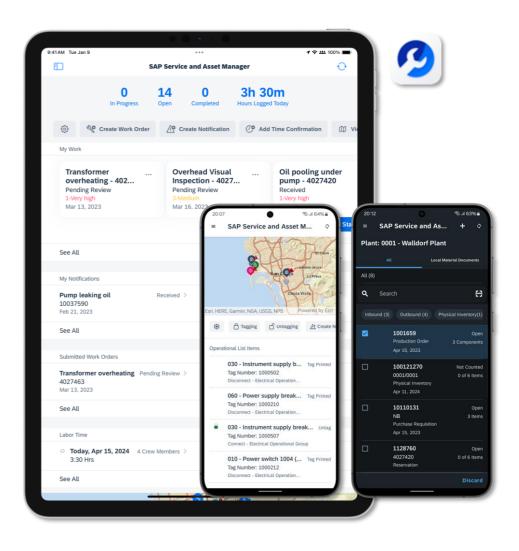




SAP Service and Asset Manager

SAP Service and Asset Manager enables your field workers to see, record, and update data for maintenance and field service execution whether they are connected or working remotely in the field.

- Streamline your execution process giving your technicians real-time access to asset data, work orders, and documentation they need to complete tasks faster and with greater accuracy.
- **Ensure compliance** with regulations, standards and a digital workflow that guides technicians through the required procedures.
- **Improve accuracy of the data captured** and reduce paperwork and administrative tasks increasing the time available to perform the job.
- **Perform diagnostics remotely** to address maintenance needs before the escalate into costly downtime.
- Facilitate a **seamless communication and collaboration** between technicians, supervisors and back-office teams.



Public

SAP Service and Asset Manager

Asset Management: Phase-based maintenance process

4

Rejected

The phase-based maintenance process helps eliminate the needs for complex user status customizing and implement a standard process across different sites with unified data – key for data-driven decision-making.

3

Approved

Planning



The maintenance process is divided into phases, each of which is further broken down into subphases. These phases and subphases track progress in the overall process. You can filter, sort, and group the maintenance orders by phase or subphase across various order list views

1

Initiation

2

Submitted for

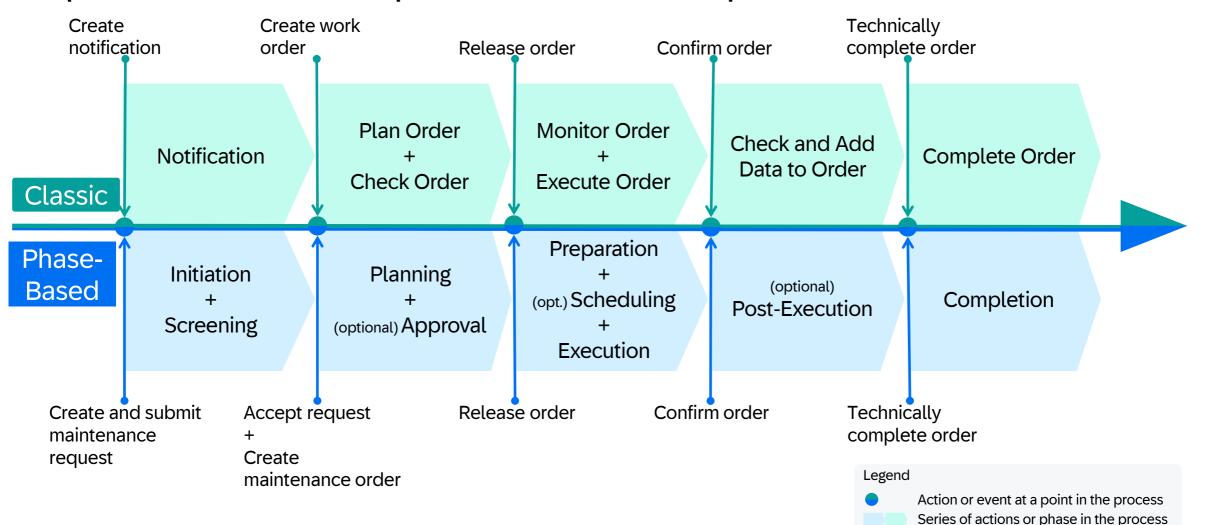
Approval

Screening

Maintenance Management

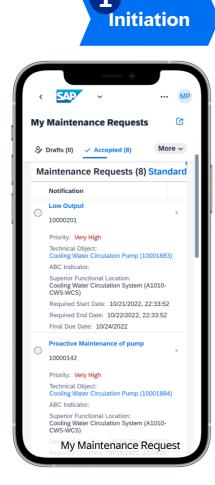
Asset Management: Phase-based maintenance process Comparison of classic and new phase-based maintenance processes

Maintenance Management



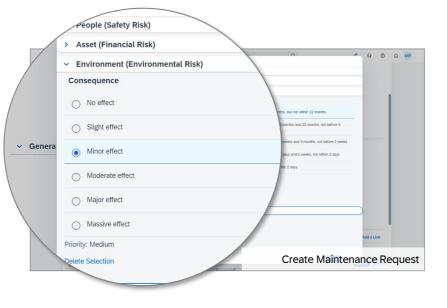
Asset Management: Maintenance request and screening

Maintenance 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.



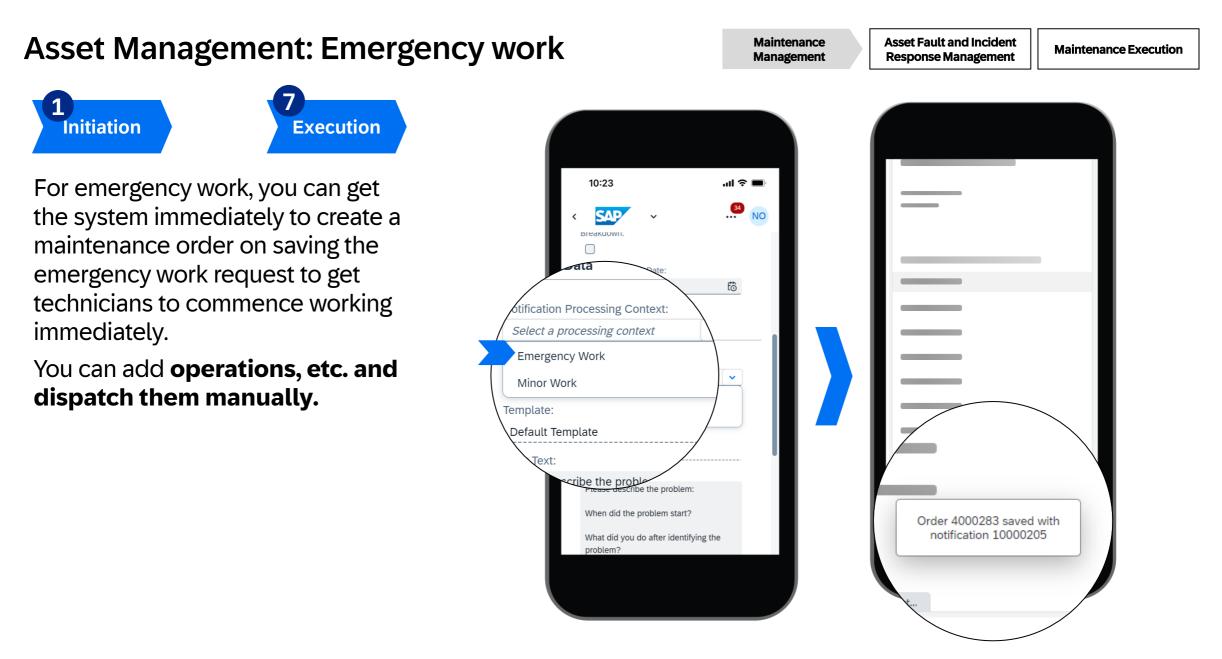
2 Screening

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.

10077 test noise moto		Edit Accept	Reject Action Required Determine Output Items 🕑 🗸
	Overview	Identified Asset	Dates
E	Notification Type: Y1	Technical Object: Root FLOC with cost center: SAP-DUMMY (10	000) Malfunction Start Date: 06.12.2022, 10:36:19
	Order:	Identifying Level: -	Malfunction End Date: -
	Phase: Screening	Failure Mode Group: -	Required Start Date Time: 15.01.2023, 07:32:26
	Subphase: Submitted (Request)	Failure Mode: -	Required End Date Time: 14.02.2023, 07:32:26
	Notification Processing Context Text: -	Effect: -	Final Due Date: 16.02.2023
Responsible	Area	Breakdown Priority	
Planning Plant:	Plant 0001 - no change allowed (0001)	No 1-Very high	
Planner Group:			
Main Work Cen	ter: AJ work center (AJ_WC_1)		
Work Center Pl	ant: Plant 0001 - no change allowed (0001)		
Person Respon	sible: -		
		∧ ☆.	
General Inform	nation Y Malfunction Information Y	Maintenance Plan Details Output Items	

Asset Management: Minor work Asset Fault and Incident Maintenance **Maintenance Execution** Management **Response Management** Initiation **Execution** Simplified process to raise minor work ...| 🌫 🔳 10:23 10:23 .ul 📀 🔳 NO SAD maintenance request and record the NO SAD work done. вгеакцоwп 10077990 ··· ·· 5 E Oil Leak Record malfunction detail as a ťö standardized data point that can feed Add Malfunction Details otification Processing Context: into the asset health monitoring and Activity Malfun... Damag.. Cause Select a processing context machine learning process for damage Object Part: **Emergency Work** ~ Valve ~ code recommendation. Minor Work Damage Code: Template: Leaking ~ Default Template Description Text: ribe the problem: Cancel Submit Attachments (0) When did the problem start? What did you do after identifying the problem?



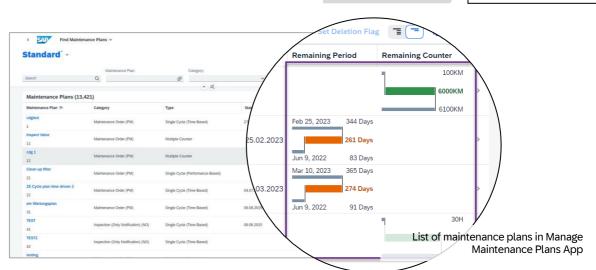
Public

Asset Management: Maintenance plan

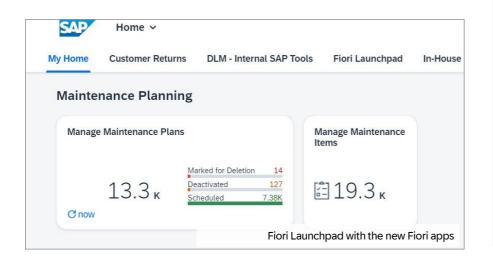
Tactical Asset Management Planning

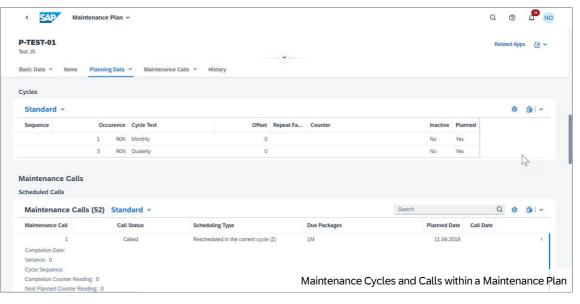


New easy-to-use Fiori apps to manage maintenance plans and maintenance plan items. Graphical representations with color codes to highlight what needs attention.



Maintenance Management



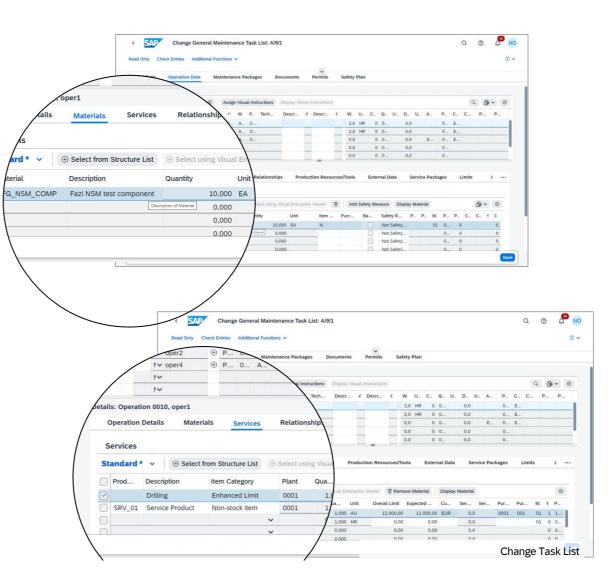


Asset Management: Task lists Non-stock materials & lean services



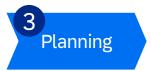
Now you can add non-stock materials and services to task lists.

It can be added from product master (material master, non-stock or service) or can be added as a description. Enhanced limit service can also be added. Maintenance Tactical Asset Management Plan



Asset Management: Lean service procurement

Maintenance Management Tactical Asset Management Planning



- Lean service can be enabled for select work order types
- Users can also use enhanced limit value-based services for each operation or sub operation of the work order
- Identification for service type is enabled using item category

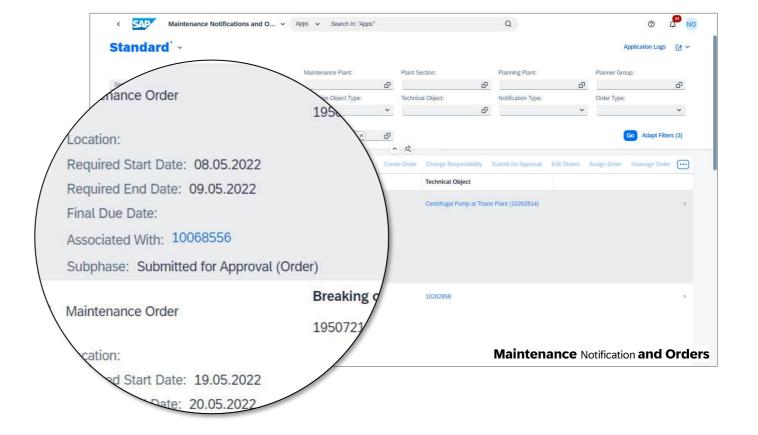
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	Description	Item Category	Plan	t Prod	uction Res		ools		tern	al Data	S	ervice	Packa		Li	imits		
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Asset Management: Approval Manage workflows, teams, and responsibilities



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.





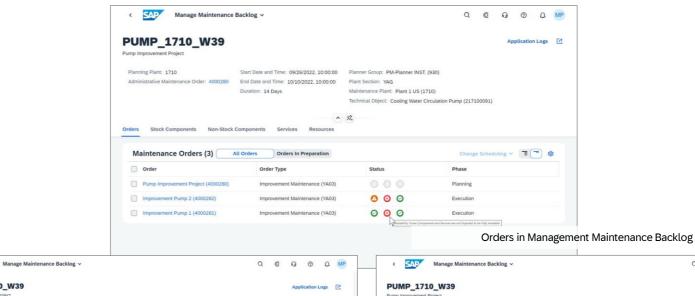
Asset Management: planning buckets and backlogs

Maintenance Tactical, Management

Tactical Asset Management Planning



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.



rs Stock Components N	on-Stock Components	Services Resources	•)		
Services (2) All Orde	Orders In Pro	eparation			· • • •
Order	Status	Operation Details	Operation Descripti	Item Number	
Improvement Pump 1 (4000281)	@-@-@ -@	0030 MAIN	Check the coupling	0040	
Improvement Pump 2 (4000282)	B-B-B-B	0030 Purchase Onder to Vendor Wes Due On 06/29/2022	Check the coupling	0040	

UMP_1710_W39 mp Improvement Project ders Stock Components Non-Stock C	Components Service:	Resources	· —	Application Log
Stock Components (8)	Orders Orders In	Preparation		Keep Committed Qua 🗸 🔳 🔳
C Order	Status	Operati	Component Details	Operation Description
Improvement Pump 1 (4000281)	Ø	0010 MAIN	Mechanical Seal (SP005) Spare Parts (ERSA)	Check the pump
	Ø	0020 MAIN	Bearing (SP001) Spare Parts (ERSA)	Extend the pipes
0	Ø	0030 MAIN	Coupling (SP002) Spare Parts (ERSA)	Check the coupling
0	Pareonent is Net C	0040 MAIN	Shaft (SP003) Spare Parts (ERSA)	Check the shaft
	0	0010	Mechanical Seal (SP005)	Check the pump

Maintenance Management

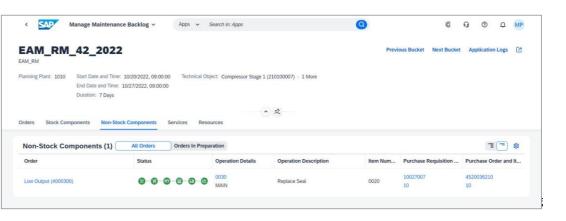
Tactical Asset Management Planning

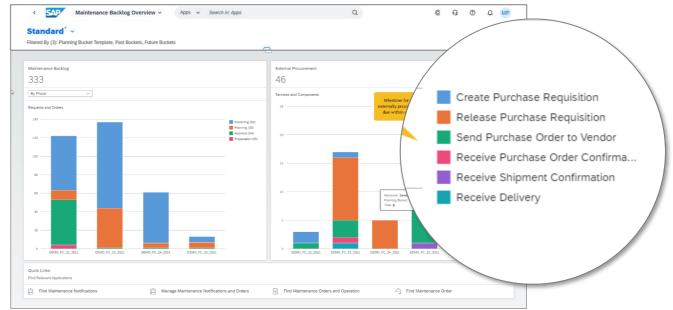
Asset Management Backlog overview & procurement milestones



You can use 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 nonstock components.

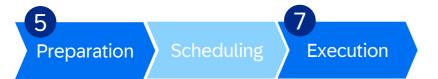




Asset Management: Work packs and output

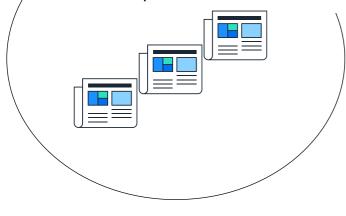
Maintenance Tactica Management

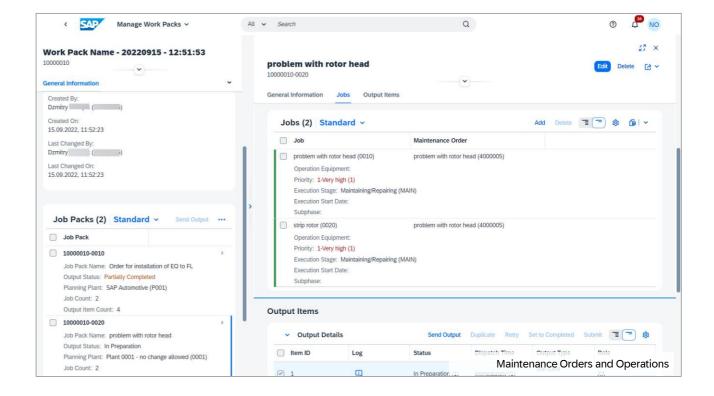
Tactical Asset Management Planning



Create a work pack (a group of operations) from a list of operations of work orders for mass output

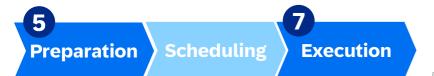
Flexibly organize your jobs (work order operations) into job packs and work packs





Asset Management: Product catalogs search

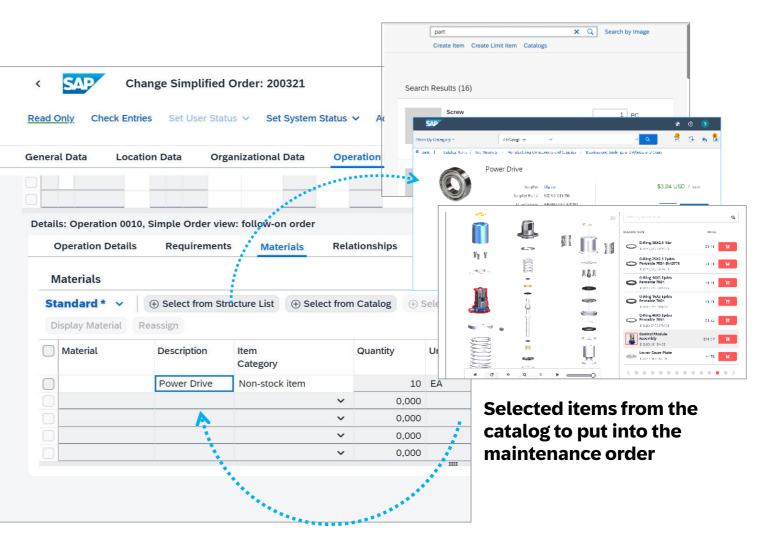
Maintenance Tactical Asset Management Planning



Work closely with the procurement department to let maintenance teams have easy access to the approved item and supplier lists.

Search product catalogs with the open catalog interface (OCI) in the maintenance orders. This can be a catalog provided by suppliers and internal catalogs.

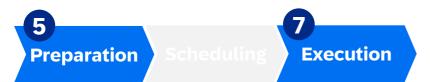
Multiple catalogs can be connected for the user to choose from.



Asset Management: Enhanced availability check

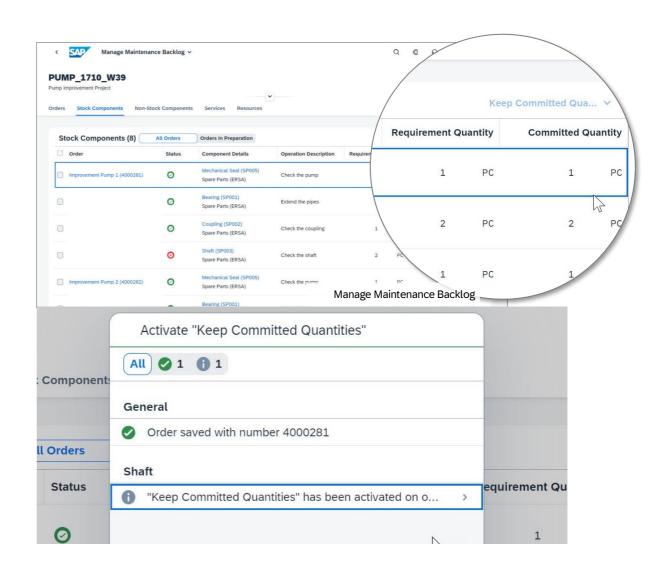
Maintenance Tact Management

Tactical Asset Management Planning



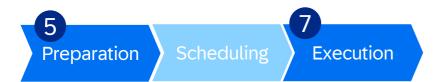
Perform an enhanced material availability check for maintenance orders and reassign committed stock material to the orders with the highest priority and urgency.

you can 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.



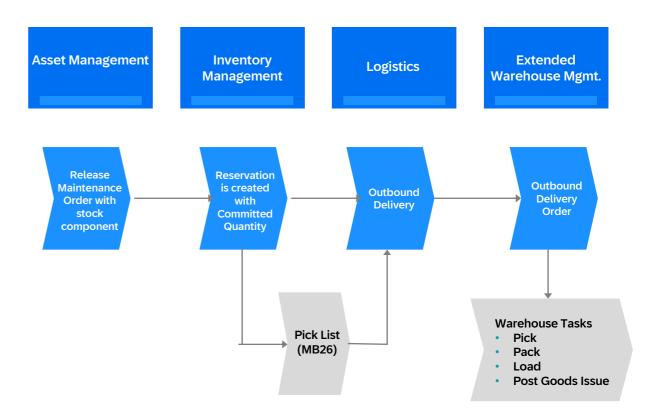
Asset Management: Extended Warehouse Management

Maintenance Management Tactical Asset Management Planning



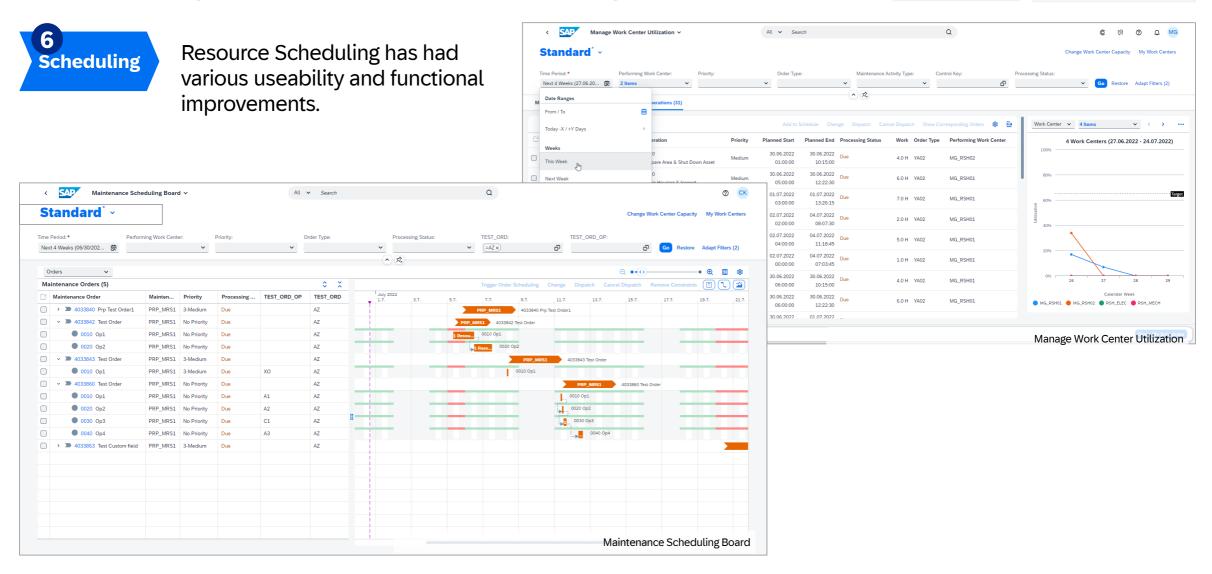
For large-scale warehouse, a new master data object has been introduced: **recipient location**. It identifies the location where the intended recipient can receive the component.

The integration between maintenance order and extended warehouse management establishes seamless flow between asset maintenance, inventory management, and warehouse, thereby enabling easy tracking of requested stock components across the end-to-end process.



Asset Management: Resource scheduling (1/2)

Maintenance Management (ext.) Asset Management ③ Resource Planning



Asset Management: Resource scheduling (2/2)

MaintenanceAsset Management (*)anagement (ext.)Resource Planning

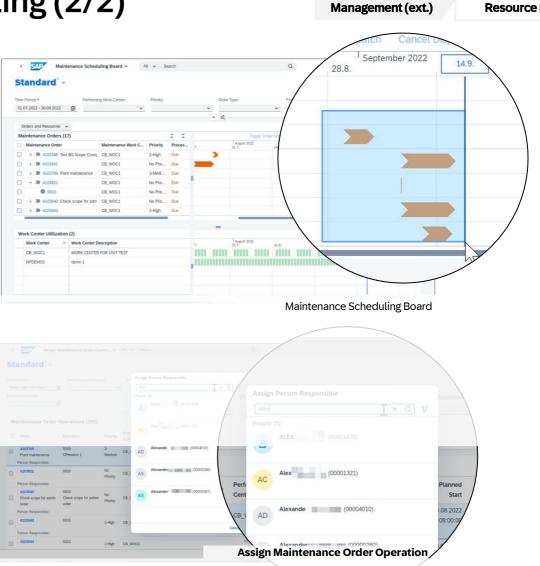


Intuitive user interface with

- Drag-ang-drop to change schedules of maintenance orders
- Drawing a "lasso" with mouse to select multiple elements
- Drop-down selection to visually show work center utilization

Team assignment to work centers with using the Teams and Responsibilities framework

... and more new features

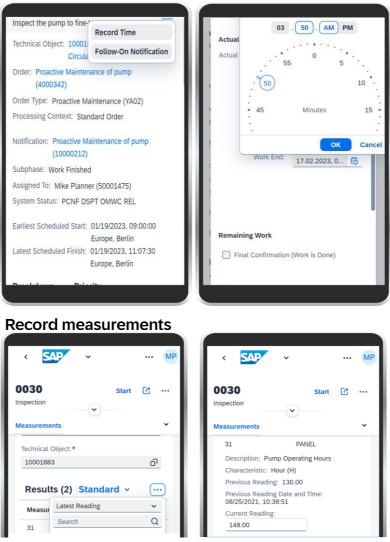


Asset Management: Job confirmation



Data entered by maintenance technicians are important input to the whole process asset management. Various features have been added to make their job easy from within the same Fiori app – on the mobile device or desktop.

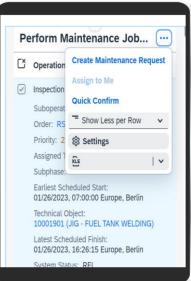
Intuitive time recording for a job



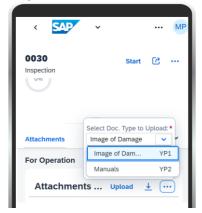
Maintenance Management

Maintenance Execution

Quick confirm for multiple jobs from the list

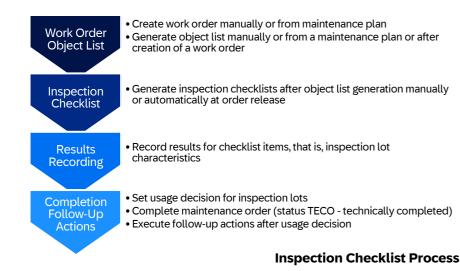


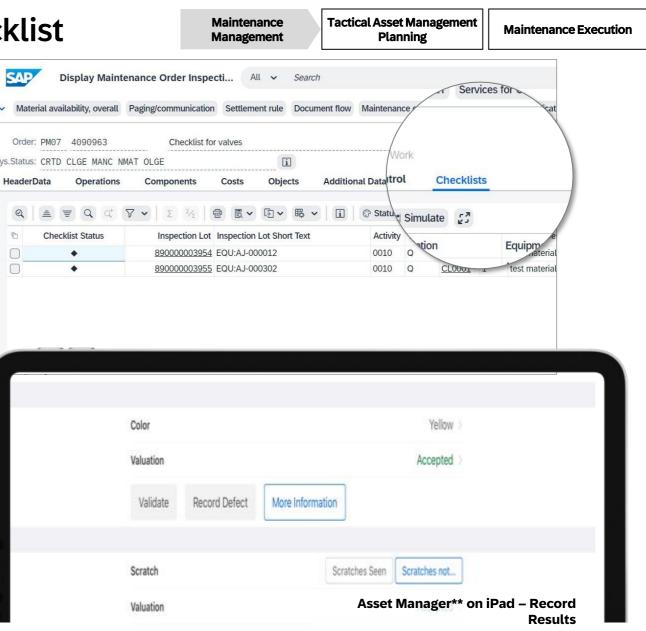
Upload attachments



Asset Management: 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



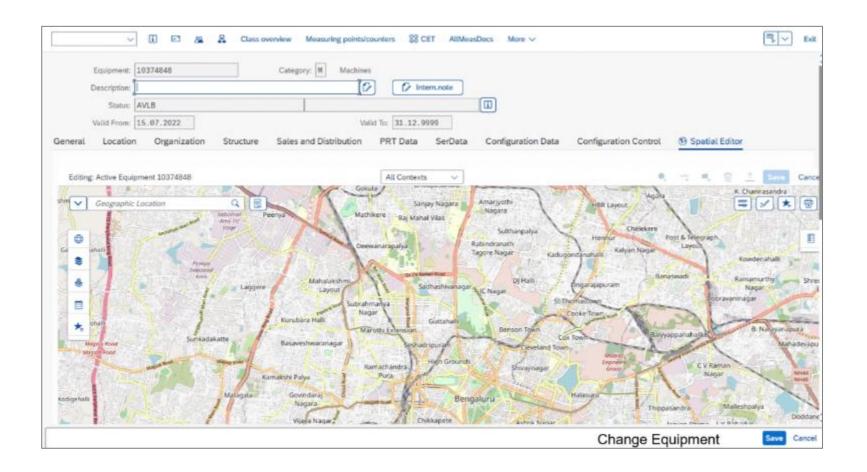


Asset Management: Asset Spatial Enablement

Maintenance ③ Management (ext.) Asset Spatial Enablement

Embedding Spatial Editor in Change Equipment (IE02) and Change Functional Location (IL02) transactions.

Open the equipment or functional location in change mode and the "Spatial Editor tab will be enabled. The user can now geo-enable the object.



SAP

Standard* ~

Search

Main Work Cente

Work Permit Number

20001745

20001744

Hot Environment Safety

Processing Status: Fully Approved Planning Plant: Plant 0001 (0001) Validity Start: 27.06.2023, 08:00:00 Validity End: 27.06.2023, 16:00:00 Technical Object Type: Equipment Hot Environment Safety

Processing Status: Fully Approved Planning Plant: Plant 0001 (0001) Validity Start: 27.06.2023. 08:00:00 Validity End: 27.06.2023, 16:00:00 Technical Object Type: Equipment General Safety Procedure

Manage Work Permits ~

Q All

Ð

Work Permits (3) Standard ~

Editing Status:

Technical Object

All 🗸 Search

~

Work Permit Type

Hot Work Permit (HWP)

Hot Work Permit (HWP)

General Work Permit (GWP)

Work Permit Number:

Technical Object Type

Equipment ×)

Work Permit Type:

Ð

Technical Object

SERVO MOTOR (10000052)

SERVO MOTOR (10000052)

SERVO MOTOR (10000052)

Asset Management: Work Clearance Management Work permits

Q

Planning Plant:

Main Work Center

machine 1 (MACHINE1)

machine 1 (MACHINE1)

Manage

G

⑦ □ NO

Controlling maintenance work through clear safety
instructions and permits.

Ability to establish an integrated process between asset management and EH&S in order to communicate pertinent safety risks and control the maintenance work being performed.

Application Logs (? ~ Processing Status: (Fully Approved ×) ~ (a) Adapt Filters (2)	12000128 Planning Plan Work Permit	ety Procedure nt: Plant 0001 (0001) Type: General Work Permit (GWP) tattus: Cancelled / Rejected		
Create 👅 🖜 🍘 🗸	General Information 🛛 👻	Object List Safety Requirements	Assigned Orders Partners	Approvals ~ Issue History
>	Safety Precautions	(4) Standard ~		
	Description	Category Comm	nents Set Implementatio	on Status Implementation Status
	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
s	Safe temperature for entry	Environment Conditions	No	Not Applicable
	Personal Protective	e Equipment (4) Standard 🗸		
	Description		c	Category
	Chemical splash goggles		E	ye and Face Protection
	Face shields		E	eye and Face Protection
ge Work Permits (List View)	General safety glasses			eye and Face Protection

K SAP Work	Permits ~	All 🗸 Search		Q	@ . NO
General Saf	ety Procedure			Set Deletion Flag	Application Logs 🛛 [갼 🛩
Work Permit	nt: Plant 0001 (0001) Type: General Work Permit (GWP) tatus: Cancelled / Rejected		^ #		
General Information 💙	Object List Safety Requiremen	ts Y Assigned Orders Part		ory Comments Status Attachments	
Safety Precautions	.,	nments Set Imple	mentation Status Implementation St	atus implemented On imp	Add 🔯
De-energize underground services	Environment Conditions	No	8 Not Implement	ed .	
Flushing and Draining of hazardous substances	Environment Conditions	No	S Not Implement	ed	
Regular Gas Recording	Environment Conditions	No	Not Applicable		
Safe temperature for entry	Environment Conditions	No	Not Applicable		
Personal Protectiv	e Equipment (4) Standard				Add 🕸
Description			Category		
Chemical splash goggles			Eye and Face Protection		
Face shields			Eye and Face Protection		
General safety glasses				Manage Work Permits (S	ingle Work Permi

Environment, (5) Health, and Safety

Work Permit and **Isolations Management**

Asset Management Al-assisted maintenance order recommendation

Let AI recommend maintenance orders that solved similar incidents from maintenance history. You select one to copy to create a new maintenance order.

Benefits

- 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



< SAP Maintena	nce Notificatio	ons and Orders 🗸		Apps 🗸	Search In: "Apps"			Q				©
Standard' ~												
Search Q	Required Start: 25.09.2023 -		Maintenance Plant:		: Section: රට	Planning Plant:	đ	Planner Group:	ð	Main Work Center:	đ	Execu
Execution Object Type:	Technical Obje	zt:	Notification Type:	Orde	r Туре:	Priority:		Priority Type:		Subphase:		
Maintenance N ×		Create Order									đ	
Maintenance Notifi	cations ar	Maintenance Orde Reactive Mainter				Copy from Order:				đ	hange Orc	ler Statu
Execution Object Type	Executio	Planning Plant:* Plant Description			ó	Selection:					l Due Date	Assoc
Maintenance Notification	PU BioGr 10000958	Plant Description	(10)		0						26.09.2023	
Maintenance Notification	UTZ-CET- 10001073	Recommendat			Alternative			Alternative			10.12.2023	
Maintenance Notification	MR mino 10001116	Copy from O Order Description	rder 4000012		Copy from Order 309 Order Description	2819		Copy from Order	r 4000234			
Maintenance Notification	Valve ins 10001132	Matching Score	: Technical Object: Technical Object Description		-	chnical Object: chnical Object Description		Matching Score:	Technical Obje Technical Obje			
Maintenance Notification	Change s 10001141	9.5 / 10	(ID)		8.57 IU (IE)		8.0 / 10	(ID)			
Maintenance Notification	Clean the 10001141	Operations ×	(Relationships X) 6 More	~	Operations X Relation	ships × 6 More •		Operations ×) (Re		More Votifications	and Orde	ers

Asset Management: Task list in maintenance request Recommendations from SAP Asset Performance Management

MaintenanceAsset FauManagementResponse

Asset Fault and Incident Response Management



You can now assign a task list to your maintenance request, copying the operations, materials, relationships, PRTs and documents from the task list to the maintenance order once this order is created based on the maintenance request.

This is especially useful for emergency work.

You can now get **task lists recommendations by your reliability engineers** for the failure mode for the asset while creating a maintenance request – integration with SAP Asset Performance Management (SAP APM).

		New Maintenance Request								
		 Technical Data 								
			elected is also associa	ted with 38 maintenance requests	i.					
		Tec	hnical Object: Lub	rication Centrifugal Pump (105546	(21)		a 🛛			
			Location: Werk	0001 Standort 0001 (0001)						
		Cur	rent Location: Ent	er current location of technical obj	iect					
			Failure Effect: Sele	ect a failure effect	ð -					
			Failure Mode: Low	Suction (01)	Codes	of Pump (CODE-PUM)				
		Dete	ction Method: Con	rective Maintenance (0007)	✓ Casual	Occurences (YB-PM003)				
		Oper	ational Effect: Sel	ect an effect			~			
			Breakdown:							
		Mat	function Start: 24.0	07.2024, 13:27:00			63			
		✓ General Data							- 11	
		Notification Proce	ssing Context: Sel	ect a processing context			~			
		No	tification Text: * Rep	aring the pump						
			Template:				~			
			Long Text: Ent	er a description						
			Priority: 3-M	edium	<u> </u>	Assess Priority			_	
\int			Task List:			Get Recommended Task	Lists			
	Select: Task List								_	
	General				Re	commendation Selection	Criteria			
		cation: -						ion Centrifugal Pump (105546	(21)	
		riority: 3-Medium						Notification (AM-PP-PUM)		
	Planning	Plant: Plant 0001 (0001)				Failu	re Mode Group: Codes o Failure Mode: Low Su			
	Task List (2)									6
	Task List	Recommendation	Recommendation Ty	ype Recommendation Prior	Recommend	ation Maintenance R	ecommendation Validity	Recommendation Validit	Recommendation Source	Recommendation Subty
	O Pump Repair (A/1793/1)	Pump overhaul (PUMP_OVERHAUL)	PROACTIVE	3-Medium	Repair		01.01.2024, 01:00:00	31.12.2029, 01:00:00	RCM	CALENDAR
	C Emergency Inspection (A/1803/1)	Pump: Maintenance emergency inspection (PUMP_EMERGENCY_INSPECTION)	REACTIVE	2-High	Inspection		01.01.2024, 01:00:00	31.12.2025, 01:00:00	FMEA	
									Create Mair	tenance R

Asset Management New Manage Inspection Checklists app

Manage Inspection Checklists app is newly available with SAP S/4HANA 2023 FPS2 for use by maintenance planners.

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.

CK11515 d							Mar	nage Inspection Cl (new app)	пеския
< SAP Manage Inspec	tion Checklists 🗸		All	l ∨ Search		Q		F	©
My Checklists 🖂								Applic	ation Logs
Search Q			rder Technical Object: Pump (Checkli x)	Checklist Type:	Maintenance Order:	Usage Decision Valuation:	Usage Decision: Ord	er Scheduled Start: Order Schedul	ed Finish:
nspection Lots (7) Characteristics (6	1)							Go	Adapt Filters (4
Standard 🗸							Set Usage Decision Activate	Deactivate Copy Replace	– 🕸 I
Inspection Lot	Activation Status	 Usage Decision 	Characteri	stics	Total Characteristi Order Technical Object	Mainte	nance Order	Order Operation	
) EQU:10496258 (890000008150)	Activated	Adjustment required (R1)	3	6	9 Pump (Checklist) (10496	5258) Check	ist test w/ condition char. + calc (4410234) Checklist test w/ condition char. + calc (00)	10) >
EQU:10496258 (89000008901)	Activated		2 1	6	9 Pump (Checklist) (10496	S258) Demo	Checklist (4604372)	Demo Checklist (0010)	>
EQU:10496258 (89000009907)	Activated			9	9 Pump (Checklist) (10496	5258) No Ch	ecklist should be found (4817816)	No Checklist should be found (0010)	>
EQU:10496258 (890000010203)	Activated	Can be used (A)		8 1	9 Pump (Checklist) (10496	5258) Check	ist test w/ condition char. + calc (4410234) Second: Checklist test w/ condition (0020)	>
) FL:AJ-B32-2A/1 (890000010512)	Activated	Reject with Notif+Meas+Doc+ (Z020)	TO status cha	5 2	7 Pump (Checklist) (10496	5258) Inspec	tion with several checklists (4908654)	Inspection Operation for deactivating (0010)) >
) EQU:10496258 (890000010513)	Activated	Accept with Meas+Doc+set FL	CO to TO (Z015)	6 2 1	9 Pump (Checklist) (10496	5258) Inspec	tion with several checklists (4908654)	Inspection Operation for deactivating (0010)) >
) EQU:10496258 (890000011450)	Activated			9	9 Pump (Checklist) (10496	5258) Check	ist with Test Equipment (824879)	Inspection Operation for deactivating (0010 Manage Inspection	

Maintenance

Management

Tactical Asset Management

Planning

- Blog on Expert Talk

- YouTube video: Expert Talk on Inspect Checklist

Semantic object based cross-app navigation is enabled

2023

Maintenance Execution

Asset Management: Purchasing contracts in task lists

Maintenance Management

Tactical Asset Management Planning



You can now enter purchasing contracts (outline agreement) in your task lists.

Contracts can be entered for non-stock components as well as for enhanced limits.

You can now also create a non-stock component or enhanced limit by using the new Select from Contract button and selecting a contract to create a component from.

Read Only Check Entr	ies <u>A</u> dditional Function	ons 🗸												@~
Task List: A/3251/1 Des	scription: MZ/X Pump M	aintenance Group: 32	51 Counter: 1	Select from	m Contract						⊠ ×			
General Data Opera	ation Data Mainte	nance Packages Do	cuments Perm	<u>S</u> tandar	d * ~					<u>H</u> ide Filter I	Bar 🕸			
Operations		inance i dendges - De		Company Co	de:	Product Group:	Purch. (Organization:	Purchas	e Contract:				
				0001 ×	ð		ð		a 46000	04229 ×	Ð			
DEMOVIEW * ~		Assign Visual Instruction	s Display Visual Ir	istru									<u>م</u> (۵~)	B
Change N Valid	From Valid To	Operation =	Suboperation	-						Adapt Filters (2) Go		Tec	hnica
23.08	8.2024 31.12.9999	0010		_						<u>A</u> uapt Fitters (2				
				<u>S</u> tandard	* ~ 💵 📬						\$			
				Hierarch	y Number Purchase	Contract Contract N	ame Item	Short Text		Product				
Details: Operation 0010), Gasket replacement			0	46000042	29 Quantity C	Contract 00010	Generic gas	ket replacement	GASKET_R	EP			
Operation Details	Materials Se	ervices Relationship	s Production R	lesc										
· · ·							_							
Services														
<u>D</u> EMOVIEW ~	+ Select from Struct	ure List + Select from	Contract + Select	usi						ОК	Cancel	//		3
Product	Description	Quantity Unit	Item Category	Outline Agreement	Outline Agreement Item	Purch. Organization	Purchasing Group	Material Group	Overall Limit	Expected Val	Price Unit	Price	Currency	
GASKET_REP	Generic gasket replace	emen 1 PC	E Limit	4600004229	00010	0001	001	01	23,00	10,00	1	37,00	EUR	
		0,000	~		00000				0,00	0,00	0	0,00		
		0,000	~		00000				0,00	0,00	0	0,00		
	/	/												
	/													

New button Select from Contract available to create a new component based on a contract For enhanced limits you can also enter the limits with the selection

Asset Management: Work permit

You can now create a new work permit or view assigned work permits while processing a maintenance order.

Additionally, you can now automatically generate work permits and any associated safety certificates for maintenance orders using the program Mass **Generation of Permit to Work Objects** (transaction PTWMASSGE).

< SAP Change Proactive Maintenance: 19572	99 v Q @ D M	No Title
Read Only Check Entries Change Status Additional Fund Order: 1957299 Description: Inspection with Perr Add to Favority Technical Object: AJ-B32-2A/1 Priority: 3-M Determine Cor Subphase: In Planning (Order) @0 Do Schedule Orde Schedule Orde	s A02, Proactive Maintenance ts TD MANC NMAT ORAR PRC Phase: Planning	Planning Plant: 0001 Work Permit Type: – Processing Status: – Issued To: –
General Data Location Data Organizati Create Follow-		8
Description: Inspection with Permit to Work Show Change Required Start: 20.03.2024 🖨 08:59:00 Redefine Deliv	ery Address Required End: 20.03.2024 📋 08:59:00 @	General Information Y Object List Safety Requirements
Scheduled Start: 20.03.2024 08:59:08 Manage Work Technical Object: AJ-B32-2A/1 D Valve 1 AJ	Final Due Date: 26.03.2024 自 Maintenance Event/Revision: 고 Technical Object Type: Functional Location	General Data Reference Object Work Permit Description: New Work Permit
Identifying Assets: / AJ-B / AJ-B32 / Serial Number: System Condition:	Material: Assembly: tssigned Notification:	Planning Plant: Validity Start: Plant 0001 (0001) e.g. 31.12.2024, 23:59:58 West Depuis Target
	Maintenarce Activity Type: 001 D Inspection Task List: Assign Task List	Validity End: Select Work Permit Type: e.g. 31.12.2024, 23:59:58 Reference Maintenance Order:
Main Work Center:* ABM_EA D ABM_EAMS	Association with Permit to Work:	Long Text: Inspection with Permit to Work (0000 Create with Reference to:
Planning Plant: 0001 Plant 0001 Planner Group: 010	Person Responsible:	Select Reference

Work Permit and Environment, (5) **Isolations Management** Health, and Safety

Work Permits ~

SAP

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Safety Requirements | V Assigned Certific >

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Work Permits

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mode

A/10/1 Related Apps Inspect-updated delta demo - 14-Sep **Routine Inspection of Booster Pump** 01 dation Details RCMD BPMP INSP RM01 Low Suction Task List Type: General Maintenance Task List Technical Object: Task List Group: 10 Valid From: 30.07.2015 ▲ 🖈 AR Task List Group Counter: 1 Key Date: 15.01.2024 recommendations General Information Failure Modes General Information Status: Released for Order (2) Original Files: 0 Planning Plant: Plant 0001 (0001) Number of Operations: 2 assigned to the task list Validation Code Group General Codes of Pump (CODE-PUM) A \$ Recommendatio Validity From Long Description Routine Inspection of Booster Pump (RCMD_BPMP_INSP_RM01) leval Information Operations Maintenance Packages Recommendations Original Files A lot of reasons can be discussed for this low suction failure mode It includes low indoor temperat... Show More Validity To: Source FMEA == \$ @IV Recommendations (11) Standard* ~ Priority Documents Recommendation Long Description Type 1-Very high RCMD_10162405 (RCMD_10162405) MD 10162409 PROACTIVE Maintenance Activity Type Attachments (1) Inspection (001) Priority: 2-High (2) **Overview of the failure** Maintenance Activity Type: Inspection (001) Long Description Low Suction (Failure Mode) - Noise (Failure Effect) -Routine Inspection of Booster Pump Cavitation.jpg Validity From: Uploaded By: Jörg Medack - Uploaded On: 09.01.2024 10:12:34 - File Size: 45.76 KB - Document Info Record: DRW/000000000000000000212743/00/000 Validity To: PROACTIVE Source: Standalone SUBODE CALENDAR Source: DMS Subtype: Routine Inspection of Booster CALENDAR Pump PROACTIVE (RCMD BPMP INSP RMO Priority: 1-Very high (1) Maintenance Activity Type: Inspection (001) Failure Modes (2) Standard Y \$ @ I v Validity From Failure Mode Code Group Long Description Validity To: Source: EMEA Spillage (04) Codes of Pump (CODE-PUM) Subtype: CALENDAR A lot of reasons can be discussed for this low suction RCMD_DESC (IMPL_RCMD_3496808) failure mode. RCMD_LONG Desc PROACTIVE It includes low indoor temperature, bubble building, dirty Low Suction (01) Codes of Pump (CODE-PUM) filters, restricted ducts, undersized ducts, closed Priority: 1-Very high (1) dampers, frosted coils, restricted refrigerant line, restricted piston, restricted strainer, and bad indoor Maintenance Activity Type: Inspection (001) evaporator motor. Show Less Validity From: Validity To:

All Y Search

enhanced by the related commendations from the reliability engineers working in APM. Below is an example screen from a maintenance task list.

Asset Management

Information of

Recommendations from Asset Performance Management 1/2

Maintenance Task Lists N

Maintenance tasks lists and maintenance items are

Source: Standalone

Subtype: CONDITION

Maintenance Task Lists

Navigation to APM

0

Documentation for

the failure mode

ML & ® 53 ×

CP.

4

Public

Asset Management Recommendations from Asset Performance Management 2/2

SAP

Maintenance Request 🗸

While screening maintenance requests, SI tł fr ta

The recommended task lists from APM recommendations New setion	Add Long Text: Add Long Text: Add Long Text: Add Long Text: Reason: Reason: Tacknese Object: U4 BFP 4A Booster put Task List Task List Task List	B	Aalfunction Start: 15.01.2024, 08:01:16 Aalfunction End: kreakdown: Failure Mode: L	6	Failure Mode Group: Codes of Pump (CODE-PUM) Failure Mode: Low Suction (01) Effect:	Reported ✓ 15.01.2	edack (MEDACKJ)	Created By: MEDACKJ Created On/At: 15.01.2024, 08:12:29	
The recommended task lists From APM recommendations	ork with the target suction preasure. Reason: Select: Task List Tackwieek Object: U4 BFP 4A Booster pu Task List (2)		•		[n	Plan	ning Plant: Plant 0001 (0001)		
from APM recommendations	Task List (2)		Failure Mode: L	Low Suction (01)	1	Plan	ning Plant: Plant 0001 (0001)		
recommendations	Task List	Recommendation						\$	
Attac	Centrifugal Pump Maintenance (A/878/1) Task List Planning Plant: Plant 0001 (0001)	Pump Casing Service Procedure (RCMD_REP_PRC_0001)	Recommendation Type REACTIVE	Recommenda 2-High	lation Priority Recommendatio	n Mainte Recommen	ndation Validity From Recommendati	Recommendation Subtype	
New action	 Inspect-updated delta demo - 14-Sep (A/10/1) Task List Planning Plant: Plant 0001 (0001) 	Routine Inspection of Booster Pur (RCMD_BPMP_INSP_RM01)	PROACTIVE	1-Very high	Inspection		FMEA	CALENDAR	€
'Recommended Task List"	iploaded By: Jörg Medack - Uploaded On: 15.01.2024 08: ource: DMS TARCE Plan Details	:04:50 - File Size: 45,76 KB - Documer	nt Type: Engin/Des. Drawing - Docu	ument info Recor	rd: AEQ/0000000000000000000000212	906/00/000		OK Close	; // ×
Task List:	Recommended	d Task List			Maintenance Plan:	Maintena	nce Item:	Maintenance Plan Call Number:	

All 🗸 Search

⑦ ₽ JM

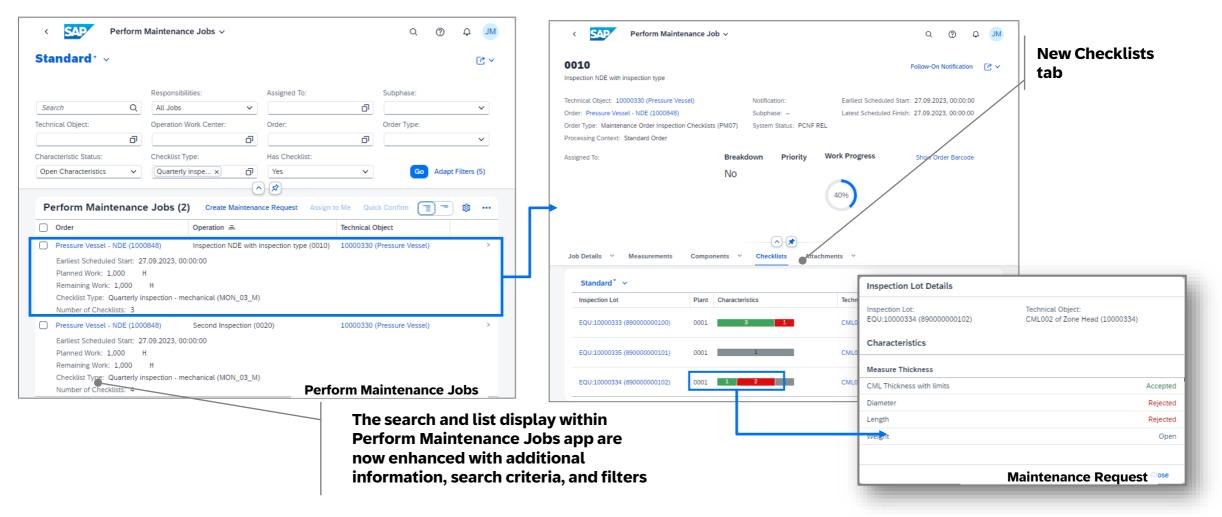
Maintenance

Management

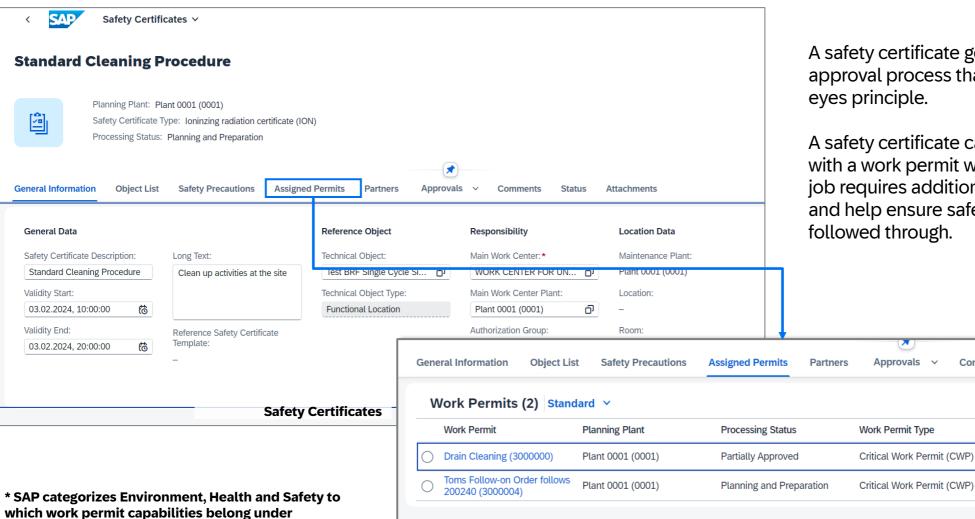
Q

Asset Management: Inspection checklist process





Asset Management Safety certificates and integration with work permits*





A safety certificate goes through an approval process that adheres to a foureyes principle.

A safety certificate can be used together with a work permit when the maintenance job requires additional control measures and help ensure safety requirements are followed through.

Comments

Status

Main Work Center

AJ work center

TEST

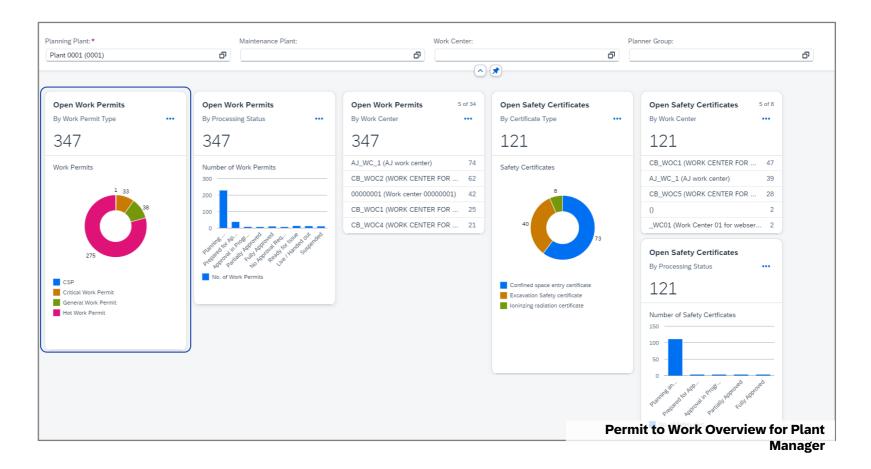
WORK CENTER FOR UNIT

Attachments

Manufacturing.

Asset Management Permit to Work Overview for Plant Manager

With this app, you can view a summarized view of the open work permits and safety certificates associated with a planning plant.



Environment, (5)

Health, and Safety

2023

FPS0+1

Work Permit and

Isolations Management

Maintenance Management

Asset Management: Mass editing Header details of maintenance orders

This feature enables you to edit the following header details of one or more selected maintenance orders using the new Edit Orders quick action in the Find Maintenance Orders app: order description, maintenance activity type, priority, and system condition.

<	Maintenance Order	s ~						Q	<u>م</u> ©	NO
Sta	ndard* ~							Applicati	on Logs	[è ∨
3 filte	ers active: Search Terms, Order Type, Orde	r Status								
N	laintenance Orders (3.121)	Standard * 🗸 Change R	esponsibility Change Status	 Change Scheduling 	g Create Work Pa	ck Pr	int Edit Orders Dis	patch Operations	=) 🕸	
Ľ	Order	Order Type	Driority	Technical Object			Scheduled Start	Scheduled Finish		
	4000202	Maintenance order (PM01)	Edit Orders				04.08.2015, 08:00:00	04.08.2015, 08:00:00		>
	Main Work Center: Maintenance Mechar	nics (STB-M)	Search		Q					
	Order Status: Outstanding (0)									
	Pump Leak	Maintenance order (PM01)	 General Data 			1000-	10.08.2015.00.00.00	10.08.2015, 00:00:00		<u>`</u>
Ŭ	4000240		Description:				10.00.2013, 00.00.00	10.08.2013, 00.00.00		<i>´</i>
	Main Work Center: Maintenance Mechan	nics (STB-M)	< Keep Existing Values	>	~					
	Order Status: Outstanding (0)		Maintenance Activity Typ	pe:						
	Pump Leak 4000241	Maintenance order (PM01)	Inspection (001)		~	1000-	07.08.2015, 08:00:00	07.08.2015, 08:00:00		>
	Main Work Center: Maintenance Mechar	nics (STB-M)	Priority:							
	Order Status: Outstanding (0)		2-High (2)		~					
	4000302	Maintenance order (PM01)	System Condition:				07.08.2015, 08:00:00	07.08.2015, 08:00:00		>
	Main Work Center: Maintenance Mechar	nics (STB-M)	< Leave Blank >		~					
	Order Status: Outstanding (0)									
	stb dump?	Maintenance order (PM01)					18.08.2015.08.00.00	18.08.2015, 08:00:00		<u> </u>
Ŭ	4000304			Save Si	mulate Cancel		10.00.2013, 00.00.00	10.00.2013, 00.00.00		·
	Main Work Center: Maintenance Mechan	nics (STB-M)								
	Order Status: Outstanding (0)									
	PG Internal Incident 4000321	Maintenance order (PM01)	No Priority	Electric pump 001 (S	W-1000-SW01)		07.08.2015, 08:00:00	07.08.2015, 08:00:00		>
	Main Work Center: Maintenance Mechan	nics (STB-M)								
	Order Status: Outstanding (0)									
	4000380	Maintenance order (PM01)	No Priority	Centrifugal Pump Spe CF01)	ecPumps XY330 (KM	1-1000-	12.08.2015, Find	Maintenand	ce Ord	lers

Asset Management: Mass editing Warranty details of technical objects

You can now select one or more technical objects and edit customer warranty and vendor warranty details in the Find Technical Object app (F2072).

< SAP Technical O	bject ~			Q @ D N
Standard* 🗸				Application Logs [강 🗸
2 filters active: Technical Object Type,	Object Type	Mass Edit Technical Objects		
Technical Objects (67)	Standard 🗸	Search Q	Manage Structure	🗸 Change Status 🗸 🔳 🚍 🕸 付 🖌
C Technical Object Type	Technical Object	> General Data	er	Planner Group
Technical Identification Number		> General Data		
Equipment	Pump 2022081202 (103760)	> Location and Organizational Data	p Ltd.	IH-Planer 010 (010) >
System Status: INST Technical Identification Number	-	> Customer Warranty Data	2	
Equipment	Pump 2022081203 (103760)	 Vendor Warranty Data 	p Ltd.	IH-Planer 010 (010)
System Status: INST Technical Identification Number	:	Vendor Master Warranty: 275		
Equipment	Pump 2022081204 (103760)		p Ltd.	IH-Planer 010 (010)
System Status: INST		Vendor Warranty Start Date: 07.09.2023		
Technical Identification Number	:			
Equipment	Motor 2022081201 (103760	Vendor Warranty End Date:	p Ltd.	IH-Planer 010 (010) >
System Status: ASEQ		For example 31.12.2023		
Technical Identification Number	;	< September 2025 >		
C Equipment	Motor 2022081202 (103760)	Sun Mon Tue Wed Thu Fri Sat	p Ltd.	IH-Planer 010 (010) >
System Status: ASEQ		36 31 1 2 3 4 5 6		
Technical Identification Number	:	37 7 8 9 10 11 12 13		
Equipment	Motor 2022081203 (103760	38 14 15 16 17 18 19 20	p Ltd.	IH-Planer 010 (010)
System Status: ASEQ				
Technical Identification Number		40 28 20 20 1 2 2 4		
Equipment	Motor 2022081204 (1037605)	7) 40 28 29 30 1 2 3 4 Beijing P	ump Ltd.	IH-Planer 010 (010) >
System Status: ASEQ				
Technical Identification Number	:			Find Technical Obje
C Equipment	Motor 2022081205 (1037605)	R) Dotony Dump (001 DLIMDDOT) Dojijng D	ump 1 td	ILI Dispor 010 (010)

Maintenance Management



Asset Management: Object list Adding object list entries to maintenance items

You can now assign a list of objects to a maintenance item using the Manage Maintenance Items app. The objects that can be assigned are:

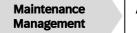
- Functional location
- Equipment
- Assembly

The maintenance operations are defined as a maintenance task list in the maintenance item and are associated with all the assigned technical objects using object lists. The object list items are carried forward as maintenance order object list items.

Extraordinary 33328 Basic Detail		Call Objects						× ئ
^{Obj} oject (6) Standard * ~						Add	Remove	ŝ
Object Type		Object				Auu	Remove	
Assembly	~							
Equipment	~	10000166						
Functional Location	~	0001-AA-004						
Functional Location	~	0001-AA-003						
Functional Location		Operator Pole 002 (00	Search	Q	Create	Add	Delete	\$
Functional Location		Operator Pole 001 (origin		Package			Attach	ments
Reasons ance		able.		Find	Main	ten	nce	Ord

Maintenance
ManagementTactical Asset
Management Planning2023
FPS0+1Object List Entries
to Maintenance Items

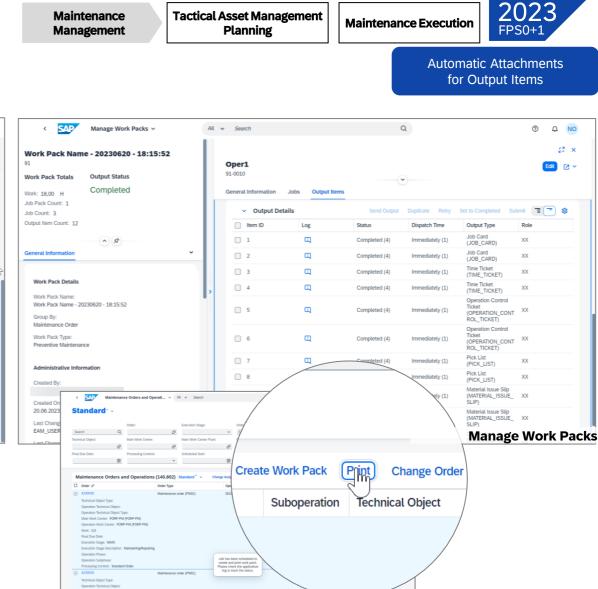
Asset Management: Equipment structure



You can now install equipment on the equipment or dismantle equipment from the equipment using the options that are available in the Manage Structure dropdown list in the Find Technical Object app (F2072).

Image: Standard * All * Second Standard * Standard * Technical Object Type: Technical Object Type: Second * Equipment × Pump 2d Plant Section: Superior Technical Object Manufact Technical Objects (1) Standard * Image: Standard * Equipment Pump 2d Pump 2d Equipment Pump 2d2081201 (10376050) System Status: INST Superior Technical Object: Superior Technical Object: Dismantle Subordinate Equipment	Object: Object: Disp Object: Object: Disp Insta Plannemp	ege Structure V Change St lay Subordinate Equipment all Subordinate Equipment nantle Subordinate Equipment	(010)	Sustem Status:	_
	al Object: Pump 2022081201 (10 oject Type: Equipment)376050)		Search	
Position Equipment	Material Name	Serial Number	Installation Date/Time	Dismantling Date/Time	
Motor 2022081201 (10376054)	Pump (226727)		12.08.2022, 08:23:09	04.09.2023, 12:29:56	fö >
Motor 2022081202 (10376055)	Pump (226727)		12.08.2022, 02:00:00	04.09.2023, 12:29:56	ťõ
Motor 2022081203 (10376056)	Pump (226727)		12.08.2022, 02:00:00	04.09.2023, 12:29:56	ťõ
Motor 2022081204 (10376057)	Pump (226727)		12.08.2022, 02:00:00	04.09.2023, 12:29:56	ťõ
Motor 2022081205 (10376058)	Pump (226727)		12.08.2022, 02:00:00	04.09.2023, 12:29:56	õ
				Dismantle Find Maintenance	Cancel Corders

Asset Management: Printing



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filters active				
Work Packs (33)		Send Output Retry Out;	put Set Output To Completed Application Lo	gs 🔳 🚍 📚 🚇 🗸
Work Pack ↓F	Work Pack Name	Work Pack Type	Output Status	
) 111	Work Pack Name - 20230621 - 00:55:18	Reactive Maintenance	Completed	>
) 101	Work Pack Name - 20230620 - 18:28:18	Reactive Maintenance	Completed	>
) 91	Work Pack Name - 20230620 - 18:15:52	Preventive Maintenance	Completed	>
) 81	Test Work Pack 1	Preventive Maintenance	Completed	>
) 71	Work Pack Name - 20230607 - 12:47:57	Preventive Maintenance	Completed	>
) 33	Work Pack Name - Test 06	Reactive Maintenance	Completed	>
) 31	Work Pack Name - Test 03	Reactive Maintenance	Completed	>
) 21	Work Pack Name - Test 01	Reactive Maintenance	Completed	>
Output Status: Partially Comp	leted			
) 151	Name des Arbeitspakets - 20230831 - 06:38:28	Preventive Maintenance	Partially Completed	>
) 127	Work Pack Name - 20230622 - 10:18:50	Preventive Maintenance	Partially Completed	>
) 61	Work Pack Name - 20230524 - 20:20:31	Reactive Maintenance	Partially Completed	>
) 51	Test Work Pack 123 EDITED	Preventive Maintenance	Partially Completed	>
) 32	Work Pack Name - Test 05	Reactive Maintenance	Partially Completed	>
) 22	821	Reactive Maintenance	Partially Completed	>
) 11	Work Pack Name - 20220613 - 16:48:46	Reactive Maintenance	Partially Completed	>
Output Status: Partially Failed				
) 52	Test Work Pack 234	Reactive Maintenance	Partially Failed	>
) 41	Work Pack Name - Test 01	Reactive Maintenance	Partially Failed	ge Work Packs

- Output Management: Enable Automatic Attachments for Output Items
- Simplified Printing for Multiple Orders and Operations

Asset Management: People Gantt Maintenance Scheduling Board

In the Maintenance Scheduling Board you can select one or more operations and then call up the People Gantt to see all the people in the work center team. You can choose to assign one or more people to carry out the operations.

		SH_Board														er Capacity M	
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Maintenance Management (ext.)

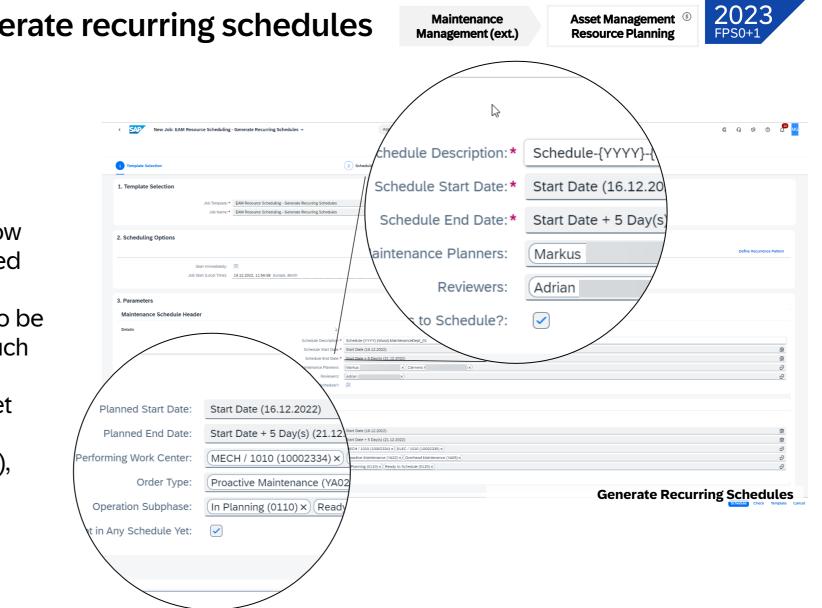
Public

2023

FPS0+1

Asset Management (5)

Resource Planning



Asset Management: Generate recurring schedules

If you have schedules that are repeated at regular intervals (for example, every week), you can now have them automatically generated for you. Regular maintenance planners or reviewers only have to be assigned once. Standard tasks, such as adding relevant operations automatically, providing they meet certain criteria (for example, are assigned to specific work centers), can be carried out for you.

Asset Management: Delta scope summary



Joule and Business AI 🐣	Maintenance Management
 Tactical Asset Management Planning Al-assisted maintenance order recommendation <a>(9) 	 Tactical Asset Management Planning New Manage Inspection Checklists app & other enhancements Add purchase contract details to materials and lean services in maintenance orders and task lists
Environment, Health, and Safety [®]	 Asset Fault and Incident Response Management Assign a task list for emergency work directly within a maintenance request. Get task lists recommendations from reliability engineers for the failure mode for the asset (integration with SAP Asset Performance Management – SAP APM)
 Work Permit and Isolations Management Simplified work permit creation from maintenance orders, and mass generation 	

Asset Management: Delta Scope Summary



Asset Management Resource Planning ®	© Environment, Health, and Safety: Work Permit and Isolations Management
 Multiple enhancements Maintenance Scheduling Board: People Gantt Generate Recurring Schedules Automatically Multiple Apps: Stable Colors Manage Work Center Utilization: Flexible Time Period for Utilization Chart Resource Scheduling for Maintenance Planners: Resizable Cards 	 Work Permit Relevance Flag in Assigned Maintenance Orders Manage Safety Certificates and Integration with Permit to Work (FPS01) Permit to Work Overview App (FPS01)

Maintenance Management

Mass Processing

- Mass Editing Header Details of Maintenance Orders
- Adding Object List Entries to Maintenance Items
- Mass Editing Warranty Details of Technical Objects
- Manage Structure in Find Technical Object App
- Output Management: Enable Automatic Attachments for Output Items
- Simplified Printing for Multiple Orders and Operations

Tactical Asset Management Planning:

- Integration of Recommendation from Asset Performance Management (FPS1)
- Inspection Checklist Process on the Web UI (FPS1)

Maintenance Execution:

Perform Maintenance Jobs: Clear Open Reservation

Others:

- Additional Options to Filter Task Lists and Task List Operations
- Manage Material Serial Numbers App
- Maintenance Request Drafts
- Improvements in Maintenance Backlog Overview

Human Resources

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





Human Resources: Business area overview

SAP SuccessFactors

Modular Cloud LoB Solutions	Learning Management	Define, create, and convey structured information and knowledge associated with a curriculum. Track course progress and to analyze learning deficits. Increase productivity and reduce operational burdens for HR staff. Flexibly develop and foster talents, monitor their performances and qualifications and find measures to further develop
④ additional license ه additional installation	Talent Management	their potential. Identify and build on employees' strengths to fill key positions.
	Talent Acquisition	Manage the entire recruiting process chain, from planning and budgeting, through attracting, hiring, and retaining employees.
	Payroll and Reimbursement	Collect and prepare the necessary information to pay employees accurately and on time and to comply with all payroll regulations and statutory reporting requirements for employees. Increase productivity and reduce operational burdens for HR staff.
	Time Management (ext.)	Enable managers and employees to manually or automatically record personnel times. Manage recorded time data and optimally plan employees' capacities. Analyze employees' time data and monitor work schedules, quotas and other time-related information.
SAP S/4HANA LoB Apps	Rewarding	Retain employees by properly managing company benefits. Keep overview of available benefits plans and eligibility.
③ additional license	HR Strategy and Planning	Leverage HR data to measure and improve workforce-related outcomes and to continuously provide analyses to enable workforce decisions. Assess future workforce needs to minimize potential gaps and to prioritize future workforce investments.
	HR Administration (ext.)	Manage personnel administration tasks: from storing all types of employee information to basic personnel actions such as hiring or reassigning employees.
SAP S/4HANA	Organizational Management	Build, maintain and adjust the HR elements and structures that enable organizations to achieve business success.
Enterprise Management	Time Management	Record employee attendance, overtime, and exceptions to planned working time, and assist managers in reviewing and approving these entries.
	HR Administration	Integrate seamlessly data between enterprise systems: employee master, organizational and cost-centers.

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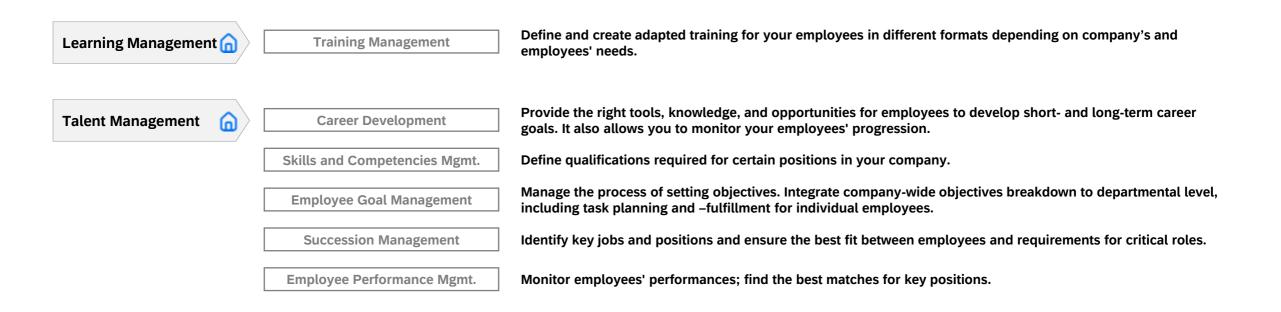
Human Resources: Business area overview

SAP SuccessFactors

Modular Cloud LoB Solutions	Learning Management	Training Management								
③ additional license	Talent Management 🙆	Career Development Employee Goal Management Employee Performance Mgmt. Skills and Competencies Management Succession Management								
क्तु additional installation	Talent Acquisition	Recruiting								
	Payroll and Reimbursement	Payroll Management 👉								
	Time Management (ext.)	Absence ManagementAttendance ManagementRostering and Shift OptimizationTime CalculationWork Schedule Management								
SAP S/4HANA LoB Apps	Rewarding	Benefits Management Compensation Management								
additional license	HR Strategy and Planning	Workforce Analytics Workforce Planning								
	HR Administration (ext.)	Employee Administration Global Assignment Management								
SAP S/4HANA	Organizational Management	Organizational Structure Management								
Enterprise Management	Time Management	Time Sheet Management								
wanagement	HR Administration	Employee Connectivity								

6

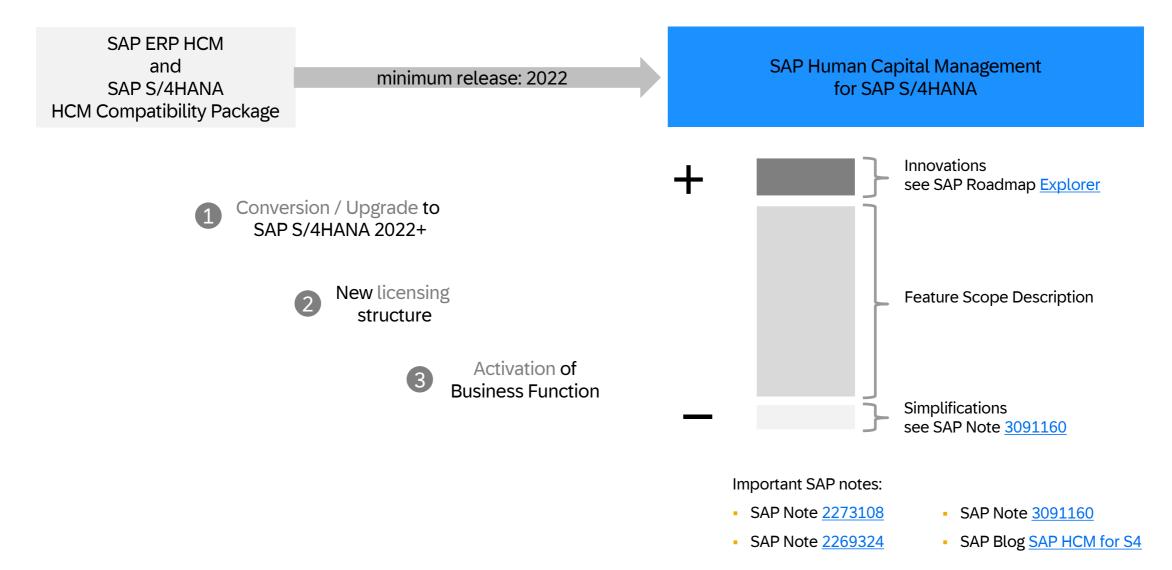
Human Resources: Capabilities available exclusively in SAP SuccessFactors and SAP S/4HANA on-premise



Human Resources: Structure

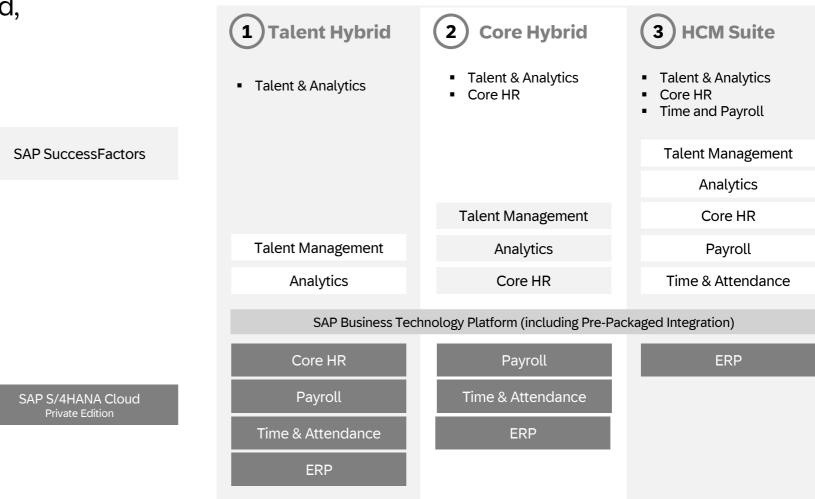
Licenses	Solution Capabilities	Deployment Models
Core Human Capital Management	 Employee Administration incl. Global Assignment Management Organization and Position Management Benefits Management Compensation Management Goal and Performance Management Skills and Competencies Management Career Development & Succession Management Work Schedule Management Absence Management 	SAP S/4HANA Cloud Private Edition On-premise Talent Mgmt: SAP SuccessFactors Image: Comparison of the provided statement of
Time Tracking	 Work Schedule Management Absence Management Attendance Management Time Calculation Rostering and Shift Optimization 	
Payroll Processing	PayrollPension fundsVADM	
E-Recruiting	 Recruiting 	SAP SuccessFactors
Learning Solution	 Training Management 	SAP SuccessFactors

Human Resources: Innovation and simplification



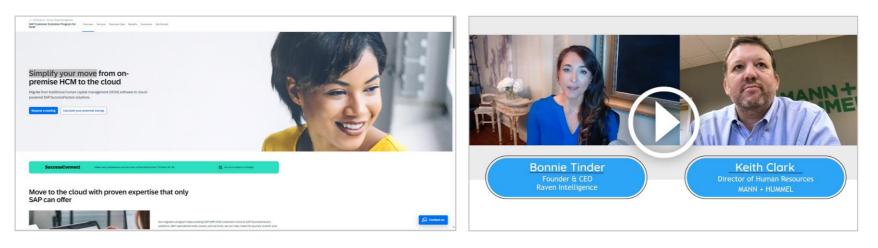
Human Resources: Human capital management transformation options

Move HCM to the public cloud, SAP SuccessFactors, via three deployment options

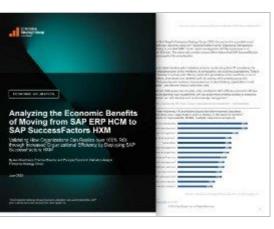


Human Resources: Customer evolution program for HCM

More information: Simplify your move



Understand the economic benefits of moving to the cloud





SAP Learning free online training class "Hire-to-Retire"

- Overview course
- <u>Strategy</u>, <u>Implementation and</u> <u>Operations</u>

Human Resources: Delta scope summary



Employee Administration

- Redesign of the "My Team Calendar" app in SAP Fiori 3 user experience
- New SAP Fiori app "My FSA Claims" for employees
- Generic search for employees based on Enterprise Search



Employee Administration

- Quick view for SAP Fiori apps for SAP Human Capital Management for SAP S/4HANA
- Access to an employee's public profile via enterprise search

Payroll Management

- New tool for payroll schema comparison
- Parallel running of posting program RPCIPE01 in the HR Process Workbench

Training Management*

 New SAP Fiori app "Manage Course Participation" for managers and administrators

Attendance Management

- My Team Calendar app: additional view owner for shared views
- New report to take over views from the old to the new "My Team Calendar" app

Human Resources: Delta scope 2023 - Details

employees to:

Dependent Care Spending Acct

•



Employee Administration

The new "My FSA Claims" app enables

• Get an overview of all FSA claims

Create new ESA claims

Update existing FSA claims

Delete existing FSA claims

Accept the rejected FSA claims

Redesign of the "My Team Calendar" app in the Fiori 3 user experience, providing managers and employees with:

- Absences and attendance of colleagues, plus manager ability to access the absences and attendance of direct reports
- Filtering to display the absent or available
 employees only
- Sharing the calendar with employees outside of the organizational unit
- Creating new views to focus on the employees the user primarily works with
- Sharing user defined views with members of the view

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HANA Enterprise Search capabilities

• Two-step search via result lists, which can

Directly contacting employees by clicking

Improved performance

• Link to organizational chart

on email or phone number

For further information, refer to SAP

Fuzzy search

be filtered

Note <u>3304275</u>

B ×

and view the completion status of the trainings, be it mandatory or optional trainings. It allows them to track the compliance level of their employees who are directly and indirectly reporting to them.

managers can assign trainings to their employees

Ander v rester strengter projekter (Jan 2005) Person 20 eregister Pe

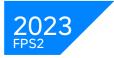
The new Employee Search now leverages With the "Manage Course Participation" app,

* Only available in SAP SuccessFactors and SAP S/4HANA on-premise 349

SAP

Manage Course Participation

Human Resources: Delta scope 2023 FPS02 - details



Employee Administration

Quick view for SAP Fiori apps for SAP Human Capital Management for SAP S/4HANA

- Launch cross-app functionality, provided in several SAP Fiori apps such as "My Team Calendar" and "Approve Timesheet," when clicking on an employee's name:
- Provide the contact and organizational information of an employee, including name, phone, e-mail, cell phone, office address, local time, and time zone
- Allows navigation to the SAP Fiori app "Organizational Chart"

Key Benefits

• Enable fast provisioning of contact information of an employee without leaving self-service

Access to an employee's public profile

- Launch employee's public profile from result list of the employee address book using the "enterprise search" functionality
- System navigates to employee's public profile when user clicks on employee's name, displaying job description, organizational unit, cost center, location information, employee's picture, manager attribute, list of direct reports etc.

Key Benefits

• Retrieve important information for all employees, consistently

Attendance Management

My Team Calendar app: additional view owner for shared views

- Define additional view owners for user-specific shared calendar views in the My Team Calendar app, granting them the same functions and rights as the view's creator
- Enables them to add / remove employees, rename / unshare the view

Key Benefits

Increase the independence of individual view owners

New report to take over views from the old to the new "My Team Calendar" app

• Migration from the previous My Team Calendar app for SAP Fiori 2.0 to the successor My Team Calendar app for SAP Human Capital Management for SAP S/4HANA, F1309B. The new report that allows to take over user-defined team calendar views.

Key Benefits

• Easy migration to the new and redesigned My Team Calendar app for SAP Human Capital Management for SAP S/4HANA Payroll Management

Parallel running of posting program RPCIPE01 in HR Process Workbench

- Enable parallel execution of RPCIPE01 through HR Process Workbench, which is particularly beneficial for larger employers dealing with tight posting deadlines
- Create a new program category designed for parallel processing, resulting in the creation of multiple parallel jobs for the posting step in the HR Process Workbench Key Benefits
- Improves the performance of posting runs that involve a substantial number of employees, streamlining the overall payroll process
- Allows the split of employees into multiple sets that can be processed simultaneously

New tool for payroll schema comparison

- Enhance the display format through visualization of an ALV tree structure
- Highlight the differences of the schemas concerning the functions used and their parameters
- Facilitate comparison against a standard schema, not just customer schemas, and support remote comparisons Key Benefits
- Intuitively analyze and compare payroll schemas through the improved display format and tree structure visualization using an ALV tree
- Make it easier to maintain custom copies of standard schemas





Human Resources: Delta scope highlight 2023 FPS02

New tool for payroll schema comparison

- Visualization via an ALV tree structure enhances the display format
- Highlights the differences between schemas concerning the functions used and their parameters
- Facilitates comparison against a standard schema, not just customer schemas, and supports remote comparisons between systems

Benefits

- Intuitive analysis and comparison of payroll schemas through the improved display format and tree structure visualization
- Easier maintenance of custom copies of standard schemas

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Cross Topics

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





Cross-topics: Master Data Governance Master data excellence for the Digital Business

Comprehensive processes for the entire master data lifecycle, covering central governance and consolidation Empowering business agility with data quality management, process analytics, and a consumer-grade user experience Strong foundation for improved business efficiency and process flexibility, enabling simplification

Schema

Mass enrichment of business partners w reference data in SA

S/4HANA

Generative AI for assisted changes/summary of changes in central governance (classic mode)

Data Quality Analytics 2.0 for business partner and product master data

Mass enrichment of business partner from CDQ reference data

Continuous Improvements

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Public



Cross-topics: Generative AI for assisted changes/summary of changes in central governance (classic mode)

Feature Highlights

Summarize Changes:

Get an overview on unsaved and saved 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 useless revisions based on incomplete changes
- have a non-technical summary of changes (in contrast to change documents)
- facilitate approver's final checks

Assisted Change:

Change master data attributes with as little effort / few 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.

	Generate Summary	Z	×
	③ Results generated by AI should be verified		
	Summary Description:*		
	Summary of Change Request 29555		
	Natural Language Summary:*		
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		OK Cancel	
 Change Req 	juest <u>Edit</u>		
General	Assisted Changes Summaries Notes Attachm	ents	

Business value : Increase effectiveness through AI in central governance

Change the old material number test Z-OLD-123 and the material group to 01

Cross-topics: Data Quality Analytics 2.0 for products and business partner in SAP S/4HANA and SAP Analytics Cloud

73.2

40.3

68.3

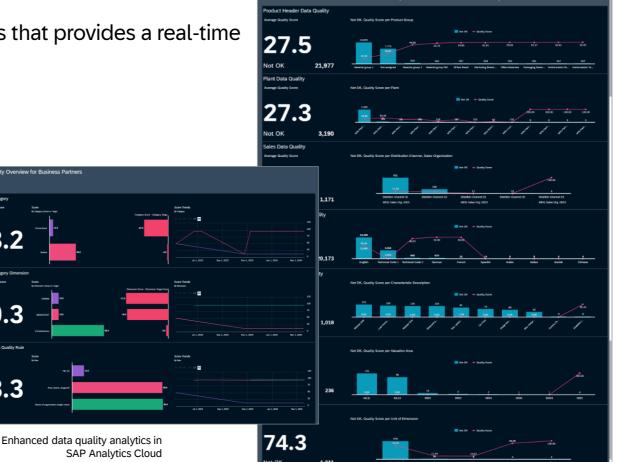
Feature Highlights

Dashboard for chief data officers and master data specialists that provides a real-time overview of master data quality and history trends.

- Data quality overview in 3-level reporting structure: by category, dimension, and rule
- Data quality analytics for 7 business partner data segments, e.g., business partner core data, customer sales data, or supplier purchasing data. Each can be drilled down using master data attributes or/and organizational unit e.g., country or company codes.
- Data quality analytics for 7 product master data segments, e.g., plant data, sales data, or classification data. Each can be drilled down using master data attributes or/and organizational unit, e.g., product group or plant.
- Embedded authorization control via live data connection
- Extensibility with custom fields
- SAC Integration with MDG system for data remediation

Business value

- Data quality insight for business decisions
- User-friendly quality visualization and responsive interaction for master data analytics
- Extended analytics with low TCO



Enhanced data quality analytics consumer: SAP Analytics Cloud

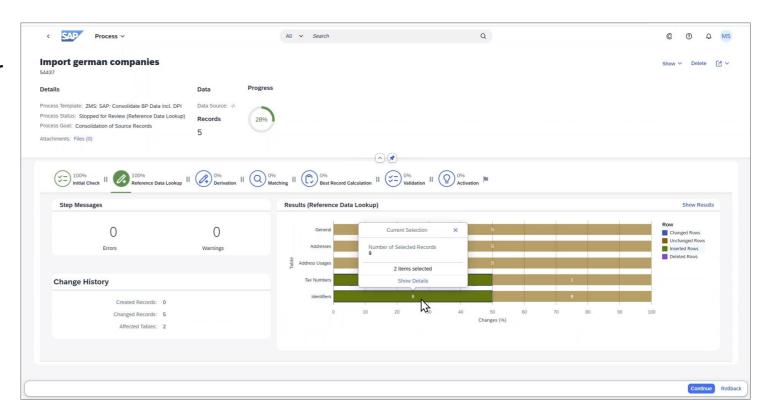
Cross-topics: Mass enrichment of business partners from CDQ reference data

Feature Highlights

Enable enrichment of business partner records from reference data as an integrated part of single and mass processing, consolidation, and federation processes

Business value

Increase usability and effectiveness of reference data with the ability to integrate data providers through full process integration



Cross-topics: Master Data Governance Summary

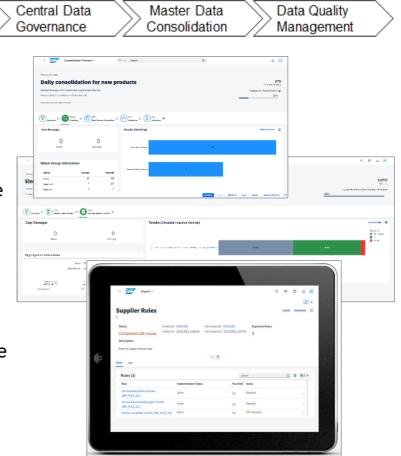
SAP Master Data Governance on SAP S/4HANA: the efficient way towards consistent and high-quality master data – the foundation of your Digital Business

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.

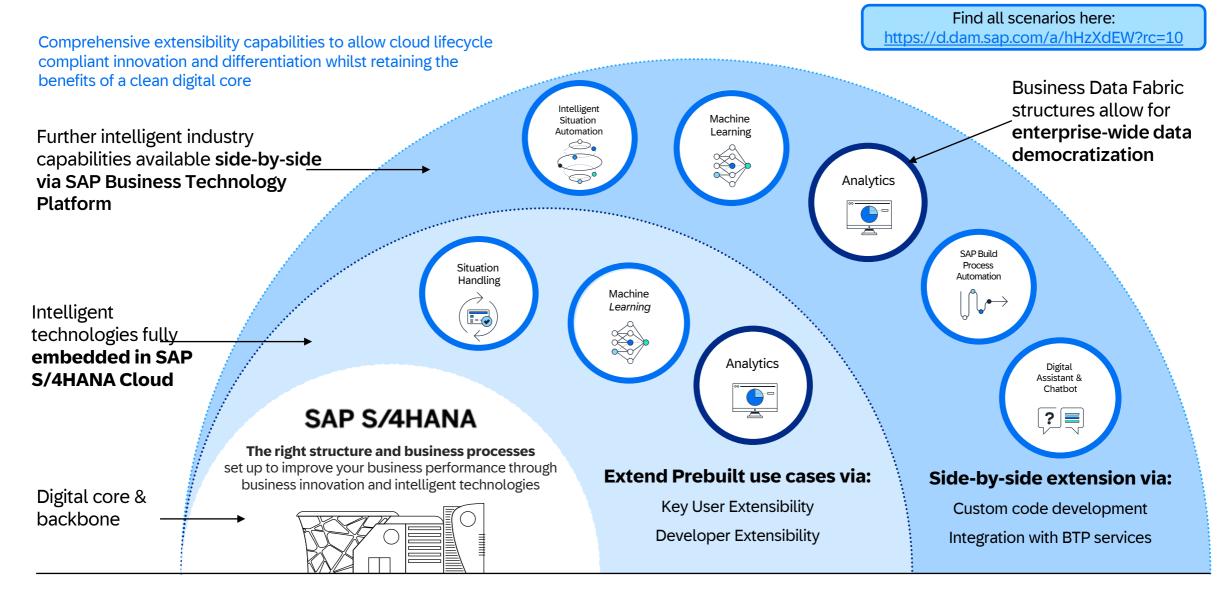
The clean master data from SAP MDG on SAP S/4HANA enables you to accelerate your enterprise software journey, and to enable new digital business models. For example...

- 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

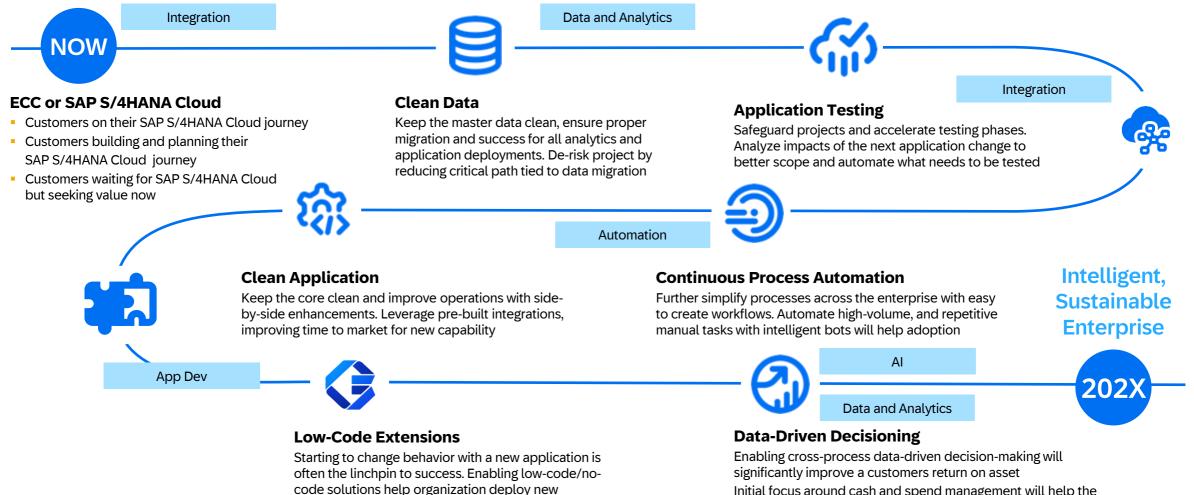
SAP Master Data Governance



Cross-topics: Business Technology Platform (BTP)



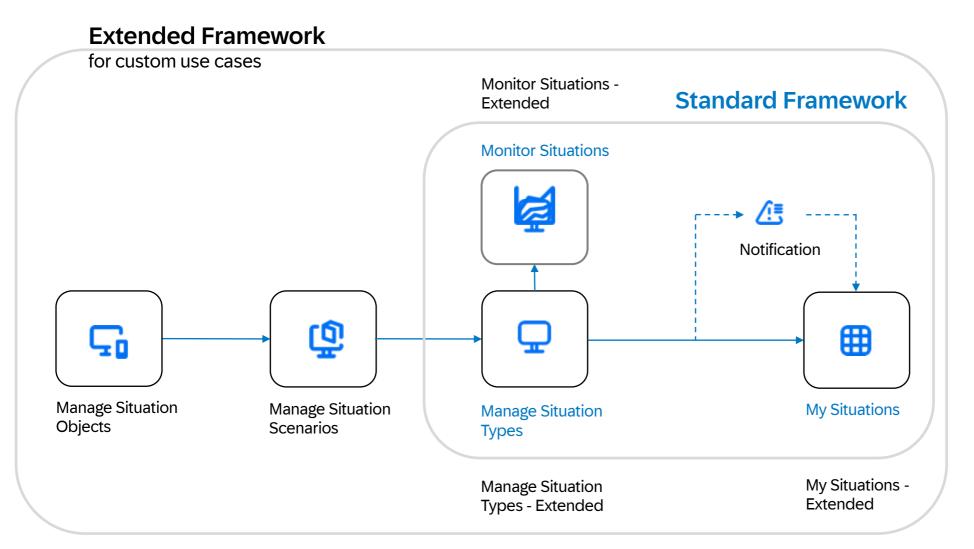
Cross-topics: BTP Helps Accelerate Transformation to an Intelligent Enterprise How to get from an SAP ECC to an SAP S/4HANA Cloud environment and keep the speed



capabilities weekly and keep up with dev backlog

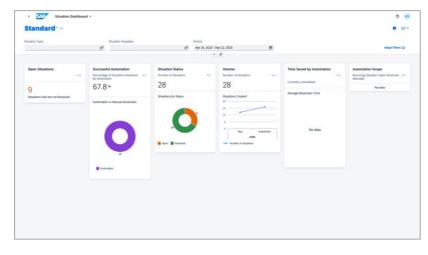
Initial focus around cash and spend management will help the success of the project and ensure organization stability

Cross-topics: Situation Handling Standard and extended framework



Cross-topics: Intelligent Situation Automation Service on SAP BTP Key applications

All situations are tracked and analyzed on SAP BTP for business insights and solution automations. Dashboard - analyze content



Rule Builder - build rules to automate

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Related Situations Explorer -Find related issues across use cases

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Analyze Situations - identify patterns, analyze details

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Cross-topics: SAP User Experience in SAP S/4HANA Cloud SAP Collaboration Manager (Releases 2023, and beyond)



SAP Collaboration Manager

Seamlessly integrated collaboration experience directly inside the SAP Fiori launchpad. It increases overall user efficiency through in-place collaboration features such as creating chats with and sending documents supporting various image types and video links to your peers. Your co-workers receive the notification instantly and can begin to work on your request without any delay and system switchover. Additionally, the SAP Collaboration Manager helps you keep up with your daily tasks by letting you store notes in your own private thread that is only visible to you–all you need to do is create a chat with yourself.

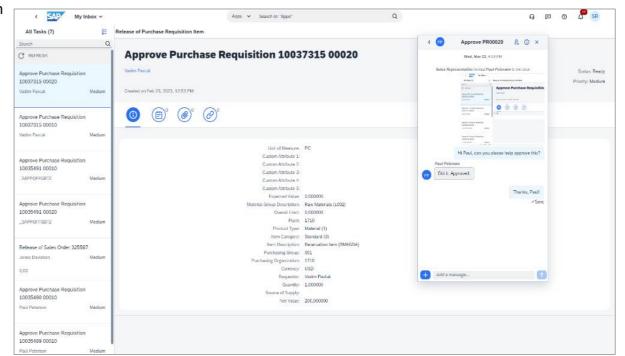
Value Proposition

- Increase user productivity
- No media breaks while work & collaborate in one place
- Full access to the origin of the conversation by link to the SAP Fiori screen
- Intuitive user experience with the seamless integration

Capabilities

- Link your chat to any screen in your apps for reference
- Take screenshots to add directly to your chat without having to close SAP
 Collaboration Manager
- Annotate, highlight, and conceal areas of your screenshot
- Find out which screen your screenshot was created on
- Receive notifications on the SAP Fiori launchpad regarding chat notifications through the notification area.

For more information, see: Integrating SAP Collaboration Manager, or SAP Collaboration Manager Will Replace SAP CoPilot in SAP S/4HANA Cloud and SAP S/4HANA



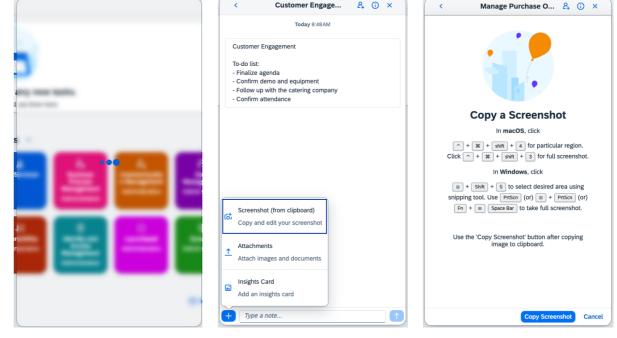
Cross-topics: SAP Collaboration Manager

Provide a modern interface which is more intuitive, user-friendly, and engaging

 The SAP Collaboration Manager chat interface will have a modern visual look and feel and thus be more intuitive and engaging for end users

• This will **intrinsically motivate** users to adopt it, further improving efficiency of their daily work through **in-place collaboration** directly where critical business processes are taking place







Cross-topics: Collaborate with your co-workers in Microsoft Teams



Integration with Microsoft Teams

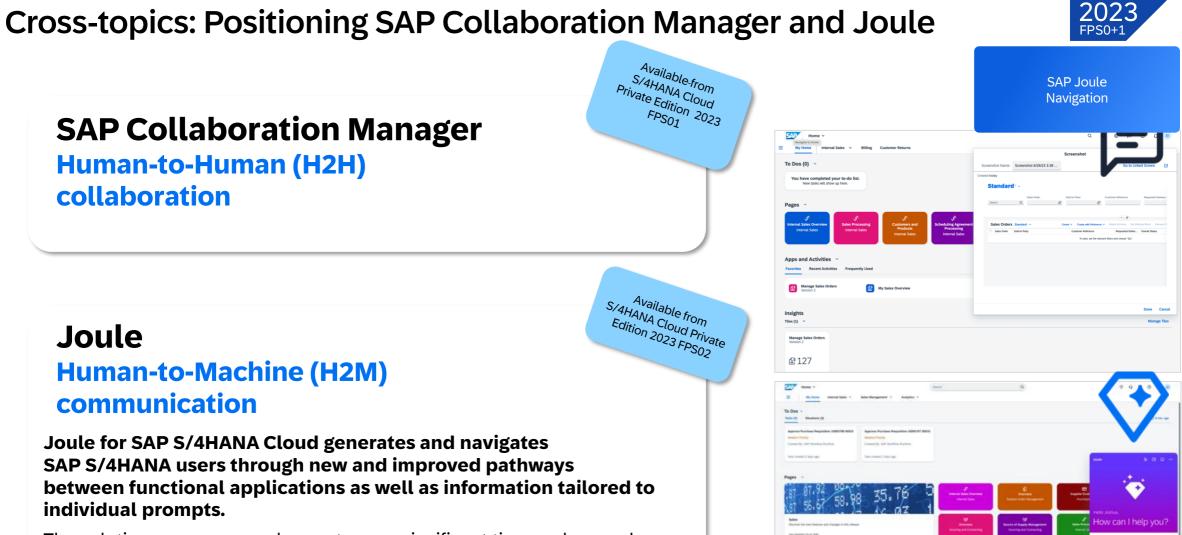
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Share access to criticial business

issues with your co-workers in chats*

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



The solution empowers end users to save significant time and manual effort in searching for an answer to her or an internal customer's questions.

Public

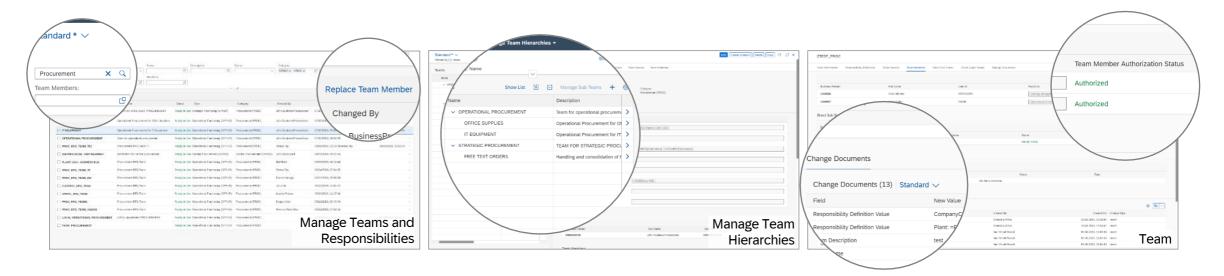
Cross-topics: Responsibility Management Overview



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.

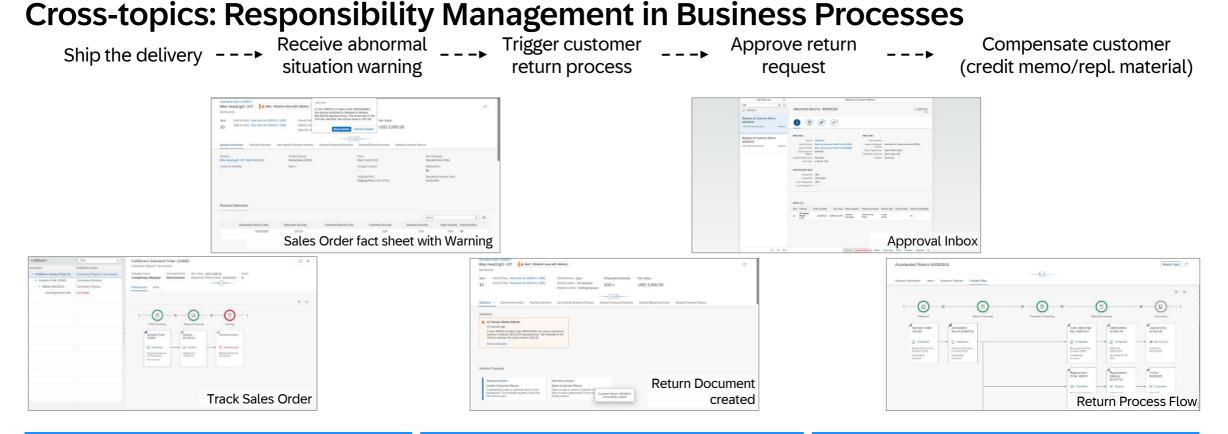
Define responsibilities in terms of either teams consisting of team members with assigned functions or responsibility mgmt. agent rules and refer to these in frameworks like workflows and situation handling.

Responsibility Determination by Teams:



In 2023, Responsibility Management has delivered Write APIs that enable customers to create, update, delete teams and

their details in Responsibility Management. For more information, see <u>https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/a156fdaa471548bba5cd0bbaaec9b6bd/b211414de1eb41a69b4a477dc4009083.html?locale=en-US</u>



Responsibility Management

- Flexibly maintains responsibilities for team members
- Integrates with workflow and situation handling
- Supports complex scenarios (hierarchies) to determine the responsible recipients
- Dynamically determine agents using customers logic defined via Responsibility rules.

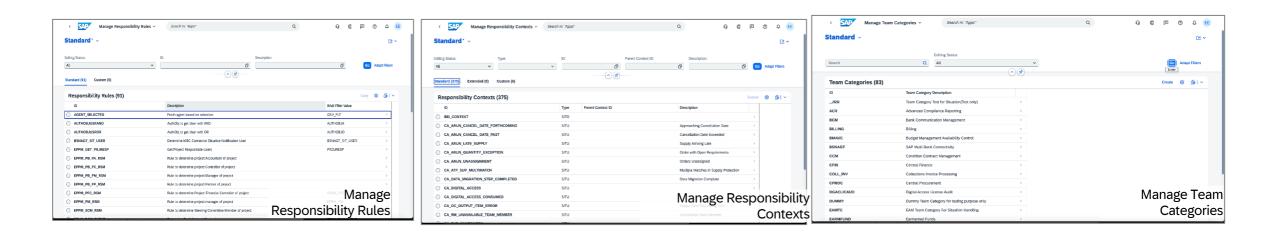
Situation Handling

- Brings urgent issues to the attention of business users, who can react to notifications immediately received
- Optimize business processes by enabling automation and machine learning

Business Workflow

- Synchronize and proactively deliver work in the right sequence at the right time to the right people
- Business departments can model, configure and administrate the workflows
- The difference to Suite Workflow blog

Cross-topics: Responsibility Management: Responsibility determination by agent rules

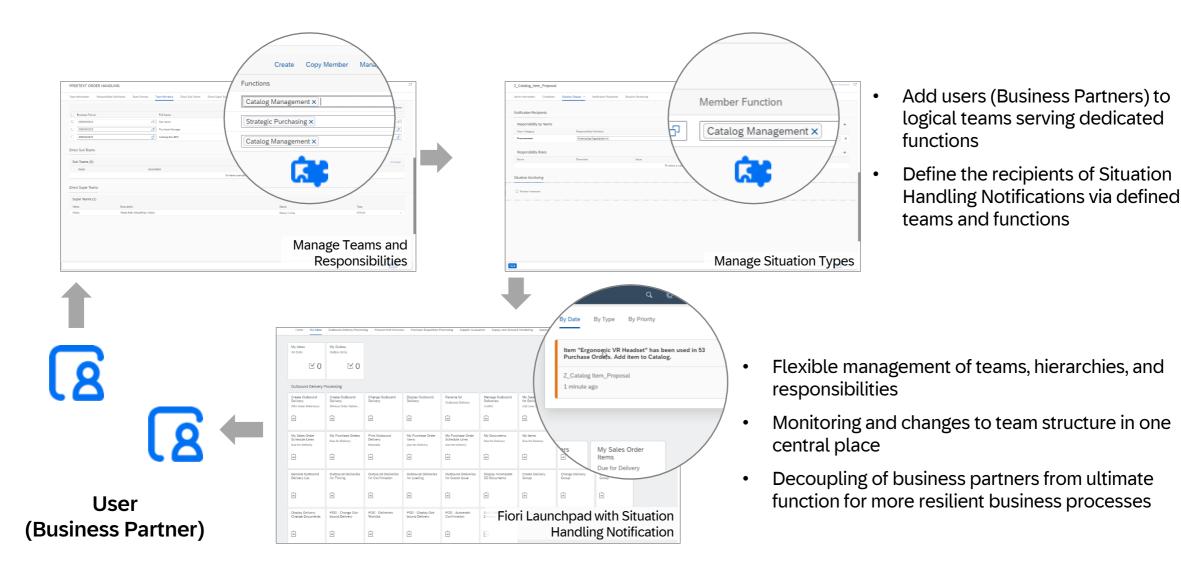


Agility through flexible adaption of responsibilities and hierarchies allowing to alignment with business processes.

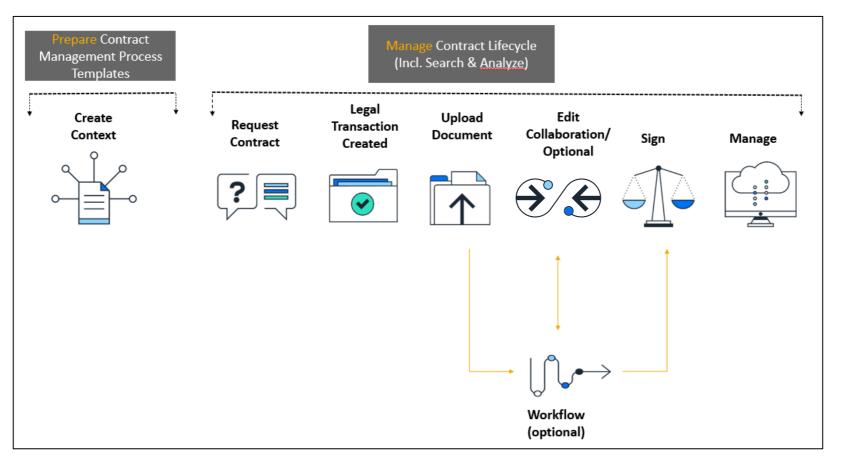
Centralized monitoring of responsibilities to directly react to organizational changes without disrupting processes.

Reduced implementation efforts and more flexibility with intuitive user interface allowing key users to do edits.

Cross-topics: Responsibility Management: Using Teams for situation handling



SAP S/4HANA for Enterprise Contract Management is an application in S/4HANA for the management of legal documents in enterprises. It supports all types of contract documents (sales, procurement, legal, HR, real-estate, financial, etc.) can be easily integrated into all core business processes, and stores all legal documents in one central online repository. (Available as Cloud, Private Cloud and On Premise deployment option)





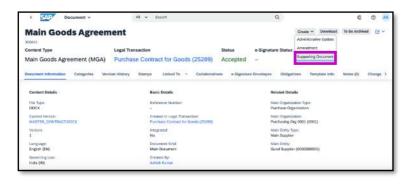
Create amendment for main contract

 Users can now correct, change, add or delete content in the existing contracts that have already been signed.

C SAP Document v	All 🖌 Search	Q		6	(9) A
Main Goods Agreen	nent		Create V Download Administrative Update	To Be Archived	B *
Content Type	Legal Transaction	Status e-Signature Status	Amendment		
Main Goods Agreement (MGA)	Purchase Contract for Goods (25289)	Accepted -	Supporting Document		
Document Information Categories Ve	rsion History Stamps Linked To ~ Collaborati	ions e-Signature Envelopes Obligation	ons Template info	Notes (0)	Change >
Content Details	Basic Details	Related Detail	Is		
File Type: DOCX	Reference Number:	Main Organiza Purchase Orga			
Current Version: MASTER_CONTRACT.DOCX	Created in Legal Transaction: Purchase Contract for Goods (25289)	Main Organiza Purchasing Org			
Version: 1	Integrated: No	Main Entity Typ Main Supplier	96:		
Language: English (EN)	Document Kind: Main Document	Main Entity: Good Supplier	(000000001)		
Governing Law:	Created By: Ashish Kumar				

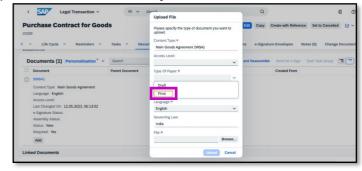
Upload supporting documents for main contract

• Users can create supporting documents for a main contract. This feature helps to manage and organize supporting documents from one place.



Upload signed copy of contract to legal transaction

• Users can now upload the signed (final) copy of the contract directly to the legal transaction. This helps to move the legal document to the 'Accepted' status without any manual effort.



Migrate legal documents in enterprise contract management

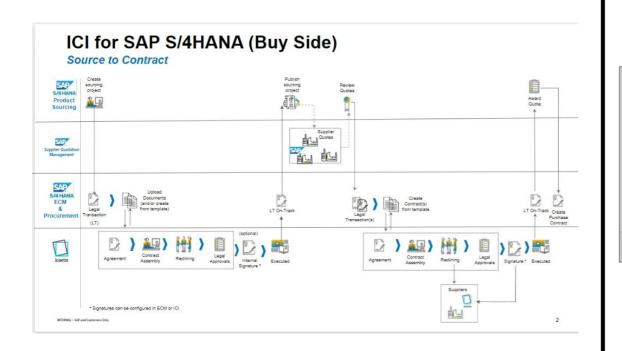
• With this feature you can create mass legal documents using the data migration option and migrate business data from any legacy system.

LDMIGTest12	ning Activities 0	vities with Error 1			Monitoring	Mapping Tasl	ks Job Manageme	ent Settings	Finish Pr
Show All 🗸 🗸		Search		Q	Actions \checkmark	Messages	Migration Results	Download Ten	nplate 🗸
Migration Object	Data	Mapping Tasks	Simulation	Migra	ition	Migratio	n Progress	Action	
	Tables: 2	Errors: 0	Errors: 0	Error	s: 0				
Legal document	Instances: 2	Open: 0	Successful: 0	Suco	essful: 2		100%	Upload File	
		Done: 4		Not S	started: 0			Download T	emplate
								Upload File	
								Prepare	
								Mapping Ta	iks
								Simulate	
								Migrate	



Integration of Enterprise Contract Management with Icertis Contract Intelligence

Users can now perform intelligent buy-side, sell-side, and organization-wide contracting tasks with ease. The integration enables users to perform tasks such as authoring, and assembly of clauses and documents and efficiently collaborate with internal and external stakeholders. The integration supports capabilities such as better traceability of signatures and responsibilities.



• Users can now create a document with the help of a template or by uploading content, using the integration scenario.

Q
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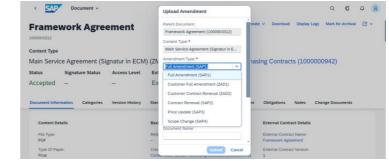
New signature options for legal contracts

 Users can now select whether signature is required for contract and choose between manual signature or e-signature for legal contracts.

Framewo	ork Agroe	mont	Edit	Create 🗸 Signature 🗸 Download	Edit in Office for the Web 🛛 🗠 🚥
	A Agree	incin		Send for e-Signature	
1000003313				Start Manual Signature	
Content Type			Legal Transaction		
Main Service A	greement (Sig	gnatur in ECM	(ZMS2) Consumable Go	oods Purchasing Contracts ((100000942)
Status S	Signature Status	Access Level	External Contract Status		
In Process -		-	Approved		
Document Informatio	Categories	Version History	Stamps Linked To I v e-Sign	ature Envelopes Obligations No	otes Change Documents
Content Details			Basic Details	External Contract I	Details
			Reference Number:	External Contract No	ame:
File Type:			100	Framework Agreeme	ent
File Type: PDF					
			Created in Legal Transaction:	External Contract Ve	rsion:

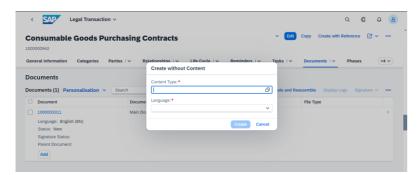
Choose the amendment type for a main document

 Users can now choose the amendment type while creating an amendment for a main document. This helps to define and track the type of changes made to a legal contract.



Creation of optional document without content

• Users can now create an optional legal document without content. Users can maintain all the important data before triggering the creation of content in the legal document.

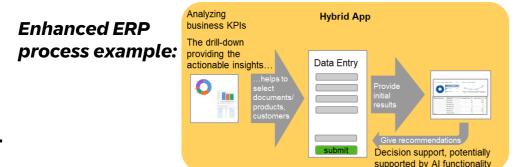


Check status of external contracts

 Users can now view the status details of external contracts and check the logs to trace the latest operations performed with respect to the Icertis Contract Intelligence system.

Framework A	greement		Edit Create 🗸 Si	ignature V Download Edit in Office	for the Web Display Logs [🕈 🗸
Content Type		Legal Transaction		Status	Signature Status
Main Service Agreem	ent (Signatur in ECM) (ZMS2) Consumable Good	s Purchasing Contracts (1	000000942) In Process	-
Access Level External	Contract Status				
- Approv	ed.				
Approv	cu				
		Linked To Y e-Signature E	nvelopes Obligations Notes	Change Documents	
Document Information Categ	ories Version History Stamps	Linked to ~ e-bignature E	nvelopes Obligations notes	change bocuments	
Accument Information Categ	ories Version History Stamps	Linked to e-signature E	nveupes outgations notes	Change Documents	
Content Details	ories Version History Stamps Basic Details	Linked to V e-Signature E	nvelopes Obligations Notes	External Contract Details	Related Details
		Document Kind: Main Document	Changed On: 23.08.2024, 07:50:21		Related Details Main Organization Type: Purchase Organization
Content Details	Basic Details Reference Number: Created in Legal Transaction: Concurrable Goods Purchasing	Document Kind:	Changed On:	External Contract Details External Contract Name:	Main Organization Type:
Content Details File Type: PDF Type Of Paper:	Basic Details Reference Number: - Created in Legal Transaction:	Document Kind: Main Document Created By:	Changed On: 23.08.2024, 07:50:21	External Contract Details External Contract Name: Framework Agreement	Main Organization Type: Purchase Organization Main Organization:

Cross-topics: Embedded Analytics: The basics you need to know

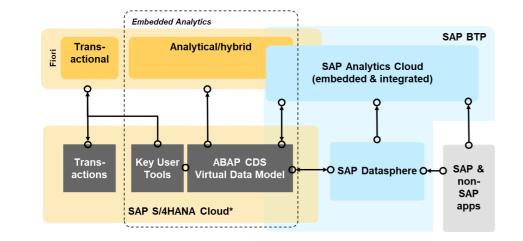


Concepts

Embedded Analytics includes technical embedding of analytical functionality and visualizations for seamless interoperability between transactional and analytical aspects of an **optimized business process**

Note: SAP Analytics Cloud is included commercially only in SAP S/4HANA Cloud Public Edition (GROW) as OEM version





Key Principles (technical setup unique to SAP S/4HANA Cloud*):

"Insight-to-action"

Use analytics findings to navigate to the transaction to initiate the necessary changes

"fact-based process handling" Use analytical visualizations to prioritize the order of work

Recommendation:

Principles

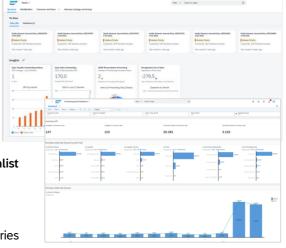
Functionality

"To assure the optimization of ERP processes, the close alignment and integration of transactional and analytical components is essential.

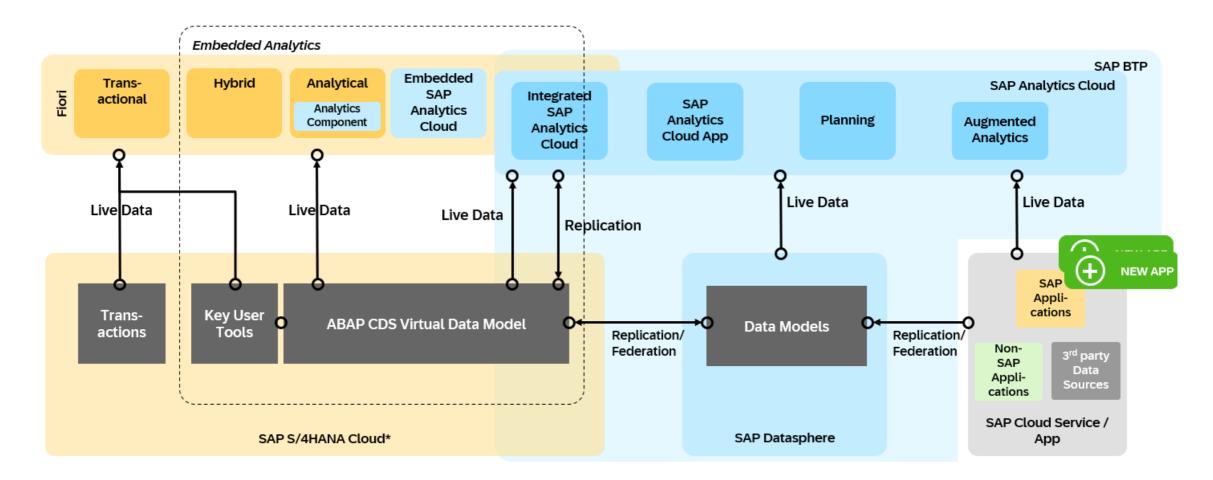
Therefore, the usage of embedded analytics should be maximized wherever possible."

Fiori business user visualizations

- Smart Business KPIs
- Overview Pages
- Analytical List Page
- Multidimensional Reports
- Dashboards (powered by SAP Analytics Cloud)
- Hybrid Applications (In-app Analytics and Machine Learning)
- Supplier filter added to Product
 Sourcing Overview App
- Key user tools for the Analytics Specialist
- Manage KPIs and Reports
- View Browser
- Custom CDS Views
- Custom Analytical Queries
- Embedded SAP Analytics Cloud Stories



Cross-topics: SAP Data and Analytics Solutions Building the business data fabric



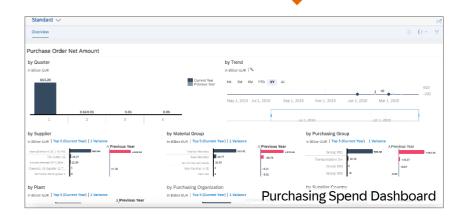
*including SAP S/4HANA Cloud Public Edition, SAP S/4HANA Cloud Private Edition, and on-premise deployments of SAP S/4HANA

Cross-topics: Embedded Analytics

SAP Analytics Cloud Stories are now fully embedded in SAP S/4HANA

- Provide embedded insights in the solution, optimally support business users in defined business processes with decision support and information at the users' fingertips.
- Integrate seamlessly into the enterprise intelligence offerings such as SAP Analytics Cloud and SAP BW/4HANA
- Provide real-time access to solution data, as well as replication of data and blending with multiple other sources for end2end enterprise intelligence direct access to SAP S/4HANA data based on live connectivity
- Integrated into SAP Fiori Launchpad, integrated in SAP S/4HANA role and screen variant management
- SAP Analytics Cloud content can be found in the Best Practices Package
 <u>"SAP Best Practices for analytics with SAP S/4HANA</u>" (for SAP S/4HANA Cloud)
- Intent-based navigation
- SAP Fiori variant management





Scope items for SAP S/4HANA Cloud Private Edition

*SAP S/4HANA Cloud Treasury Management Content with SAP Analytics Cloud	49P_S4CLD2208_BPD_EN_XX.docx
*SAP S/4HANA Cloud Receivable management content with SAP Analytics Cloud	4A6_S4CLD2208_BPD_EN_XX.docx
*SAP S/4HANA Cloud Procurement content with SAP Analytics Cloud	29D_S4CLD2208_BPD_EN_XX.docx
*SAP S/4HANA Cloud Sales content with SAP Analytics Cloud	3N0_S4CLD2208_BPD_EN_XX.docx

* in this table means, the SAP Analytics Cloud content inside the Scope item also support SAP S/4HANA Cloud Private Edition, in it's latest release. There may be minor manual effort before consuming the SAP Analytics Cloud content, such as changing predefined prompt value, etc.

Cross-topics: Intelligent Technologies Delta scope summary

Act Process Automation

Multiple bot workflows for action (attended + unattended) with SAP Process Automation. based on SAP intelligent RPA and SAP Workflow Management

No new scenarios

Anticipate

Situation Handling

Detect exceptions, notify, and provide insight-to-action options

Service:

- Subscription Contract Item Distribution (2023)
- Trade Compliance Check Blocked/Pending (2023)

Optimize Interact Machine Learning (AI/ML) **Digital Assistants** SAP Collaboration Manager Self-learning bots and applications with dynamic adaptability Chat capabilities for Peer-to-Peer communication and collaboration, enriched with Business Context Conversation: Notes and Chats IT and Cross Function: Sales: In-place Screenshots and Annotations Joule in SAP S/4HANA Cloud Private Edition Joule: Sales - Track Sales Orders: Faster insight into • Notifications Sales Order fulfillment process • Navigation to Apps from Sales, Finance, Procurement and Professional Services Joule: Simplified Business Partner maintenance using SAP Joule Conversational Search The functionality is now available for SAP S/4HANA Cloud, public and private editions only, and will be SAP Signavio - Process Recommender for SAP deployed commercially embedded as part of the S/4HANA* Asset Management: base subscription price. Enterprise Asset Management -Master Data Governance-٠ Assisted Changes and Summarization of Change Intelligent Maintenance Order Recommendation Requests Latest functionality added for this release: Joule: Intelligent Project Assistant - Selected Transportation Management:

Transportation Cockpit Planning

Receipt Analysis

SAP S/4HANA Transportation Management: Goods

Navigational/Transactional Capabilities

(SAP Enterprise Service Management)

explanation and guided resolution*

Shared Services Automation for Finance Content*

Collections (SAP Behavioral Insights for BRIM)

Intelligent Dispute Management (SAP Enterprise

SAP Advanced Financial Closing-Automated error

Finance:

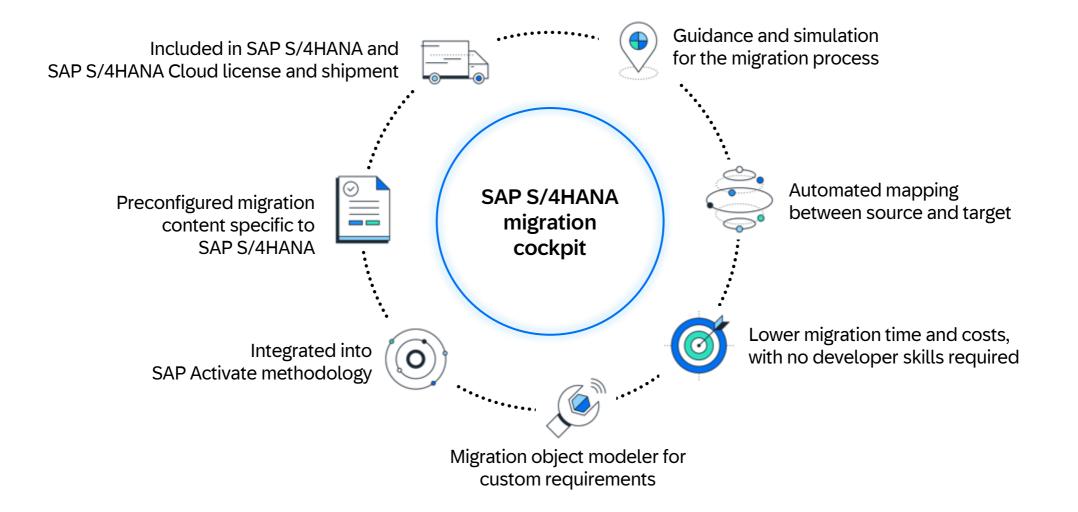
Enhancing Intelligent

Service Management)

- PDF Document Attachment
- Share data as Insights Cards
- Improved UX and Performance

*Stand-alone solution, which is not delivered with SAP S/4HANA

Cross-topics: Facilitate Migration Projects with SAP S/4HANA Migration Cockpit Transition scenario: new implementation



Cross-topics: Migration Cockpit Migration approaches

Two different migration approaches, depending on the source system:



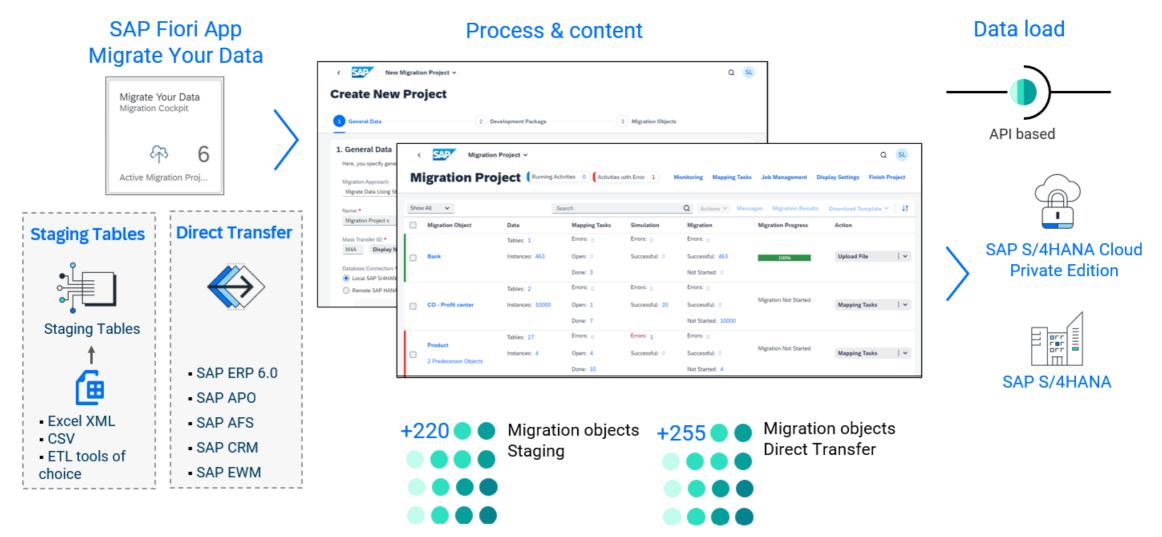
Migrate Data Using Staging Tables

Migrate Data Directly from SAP System (Direct Transfer)

- Staging tables are created automatically in SAP HANA DB (either locally or in a remote system)
- Populate these staging tables with business data using:
 - XML template files
 - CSV template files
 - SAP or third-party ETL tools

- Connect source system (ABAP-based SAP source systems) via RFC connection
- Selection
 - Based on predefined selection criteria (for example company code for ERP source system) and selected migration objects
 - Can be adapted with the SAP S/4HANA migration object modeler
- Supports data migration scenarios from SAP ERP, SAP AFS, SAP APO SPP, SAP CRM, SAP EWM

Cross-topics: Migration Cockpit Architecture



Cross-topics: Migration Cockpit, Direct transfer Analyze Your Selection Process App



Analyze project transfers in Migration Cockpit

Analyze Your Selection Process Migration Cockpit

Analysis Runs

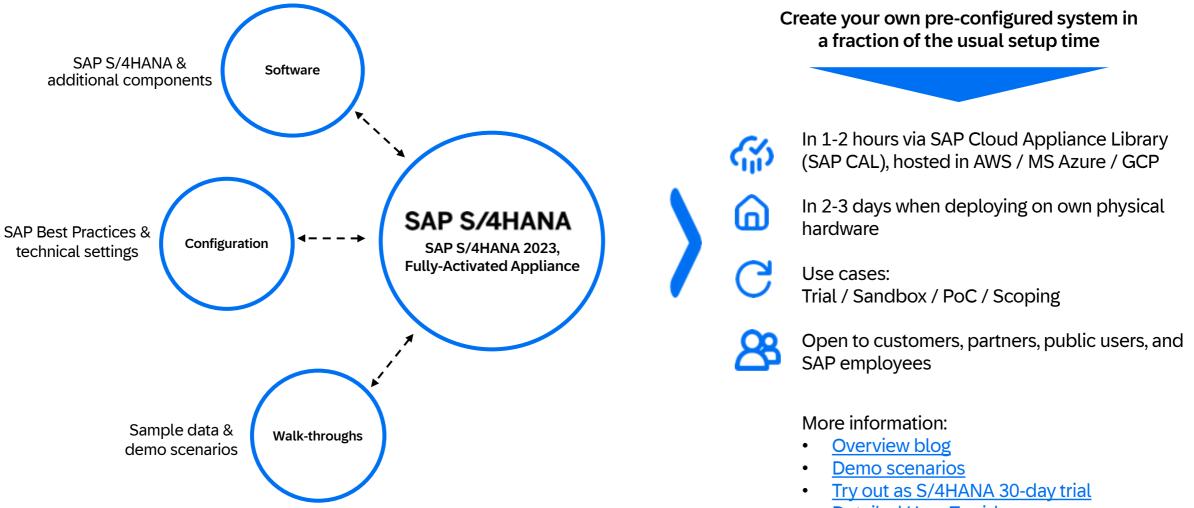
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New

SAP Fiori App Analyze Your Selection Process

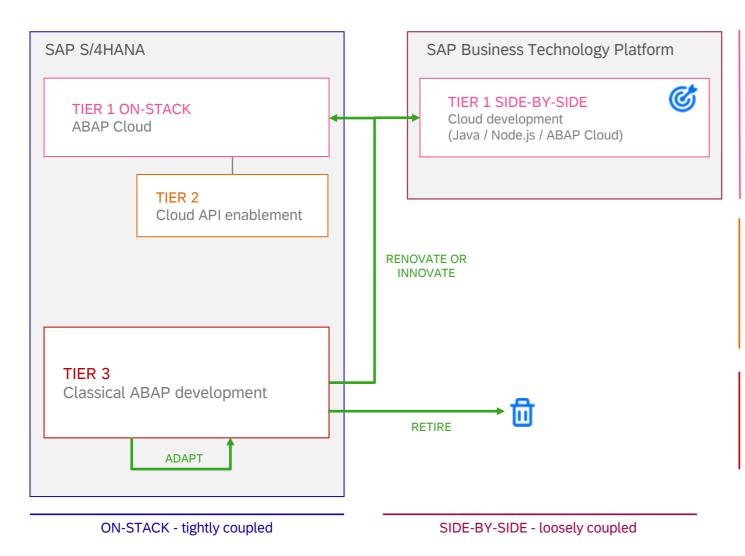
- Available for direct transfer projects only
- Get detailed analysis results for specific migration object instances
- Get transparency about the selected data
- Get recommendations about how to account for unexpected selection results

Cross-topics: SAP S/4HANA 2023 Fully-Activated Appliance The Software Appliance Concept



Detailed How-To videos

Cross-topics: SAP S/4HANA Cloud, ABAP environment 3-tier extensibility model for SAP S/4HANA private cloud and on-premise



TIER 1 – Cloud extensibility model

Cloud-ready and upgrade-stable development of new applications and extensions. ABAP Cloud is mandatory – no classic ABAP in tier 1.

Same extensibility model as used in SAP S/4HANA Cloud Public Edition

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 Avoid and reduce the content in tier 3

Cross-topics: RISE with SAP Packaging

Provide compelling RISE with SAP offerings* that reflect the different customer

Base Edition

Provides small organizations with SAP S/4HANA Cloud, private edition functionalities with a lean setup

Premium Edition

Enables organization's business transformation supported by built in AI capabilities into SAP applications, process automation, low-code business application development and access to supplier networks.

Premium Plus Edition

Extends premium by unlocking more AI scenarios, including sustainability solutions, and advanced finance capabilities.

*Please note that some features are not available in Mainland China, this is detailed on the following slides

			Premiu	n Plus	
,2024 lates		Base 60-135 FUE	Premium	Premium Plus	
Enterprise Management	Core ERP	Х	Х	Х	
Cloud Services	Cloud Operational Services	х	Х	Х	
Cloud Services	Embedded Launch Activities (Onboarding Advisor)	х	х	х	
Sustainability	SAP Sustainability Footprint Management			Х	
Sustainability	SAP Sustainability Control Tower			Х	
	SAP Build Apps		Х	Х	
Extension, Integration, and Automation	SAP Build Process Automation		Х	Х	
	SAP Build Work Zone	Х	Х	Х	
	CPEA		Х	Х	
	SAP Datasphere		х	Х	
	Joule	Х	Х	Х	
Artificial Intelligence	Generative AI		X (flat entitlement)	X (dynamic entitlement)	
	Group Reporting	х	х	Х	
Office of the CFO	Group Reporting Data Collection	Х	Х	Х	
	SAC planning		х	Х	
	Cash Management			Х	
	Receivables Management			Х	
Procurement Network	Supplier Portal		Х	Х	
Process Optimization	SAP Signavio		_		



RISE with SAP

Cross-topics: Addressing a clean core is an ongoing strategic activity



1. Extensibility Keep the extensions clean

2. Data Keep the data lean

3. Integrations Keep the landscape reliable

4. Processes Keep the processes flexible

5. Operations

Keep the operations effective and efficient

A clean core is a system that is as close to standard as possible, while running cloud-compliant extensions and integrations.

It allows you to adapt your system to changing business requirements and to adopt new capabilities.

Thank you.

Contact information:



Appendix

SAP S/4HANA Cloud Private Edition

(based on SAP S/4HANA 2023)





SAP S/4HANA: Country versions & Languages



SAP S/4HANA Cloud Private Edition:

The right solution for each customer journey

SAP Product

UX

Release Cycles

Deployment Types

SAP Best Practices

Custom Code

Infrastructure

Upgrades

Licensing

3rd Party Add-ons

Compatibility Scope

Configuration Options

SAP S/4HANA Cloud Public Edition

SAP S/4HANA Cloud Private Edition

SAP S	5/4HANA

perpetual

functional scope

SAP S/4HANA Cloud Public Edition SAP S/4HANA By annually, plus 6 months Feature/Support Packs (e.g. 2023)* quarterly (e.g. 2402) Minimum Upgrade Frequency 7 years* (to stay in mainstream maintenance) quarterly SAP Fiori and SAP GUI SAP Fiori new implementation new Implementation, System Conversion, Selective Data Transition optional (for New Implementation) yes Self-Service and Expert Configuration Implementation Guide (IMG) optional no Modification of SAP code optional no allowed unless operating system access allowed certified Public Cloud add-ons allowed required SAP, Alibaba, AWS,. etc. (SAP decision) customer preferred infrastructure SAP, AWS, Azure, GCP, (customer preference) not included included and mandatory customer owned, installation on request allowed n/a mostly allowed - see note 2269324

subscription

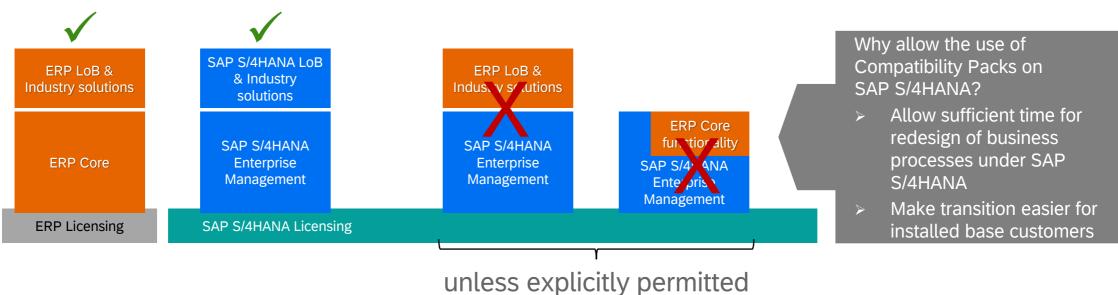
business engagement

SAP S/4HANA Compatibility Packs:

Commercial Separation from the Business Suite World

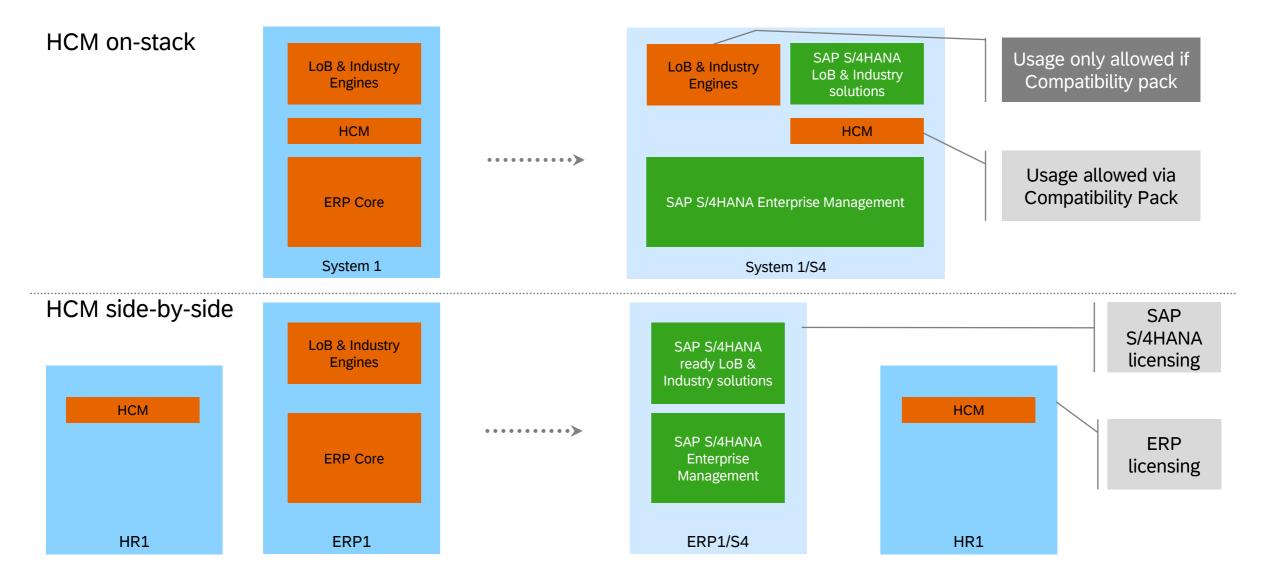
Only SAP S/4HANA solutions are allowed to run on an SAP S/4HANA installation

- SAP S/4HANA is a new product, not the legal successor of SAP ERP/SAP Business Suite products
- Limitation in our Software Use Rights (SUR) to separate the commercial worlds:



via "Compatibility Packs"

SAP S/4HANA On-premise: Compatibility Pack Example



SAP S/4HANA Compatibility Packs: Selective Extension of Compatibility Pack Usage Rights

SAP grants a **timely restricted usage** right for specific classic solution functionalities in the context of SAP S/4HANA. These term licenses are limited to the end of **2025**, and are defined by the **compatibility scope**. SAP intends to provide new go-to functionalities for all compatibility scope items by 2023. Many compatibility scope items can already be phased out today. This transition from compatibility scope to the new go-to solutions is in most cases primarily a technical adoption and can be conducted with moderate effort.

More details in SAP Note 2269324:

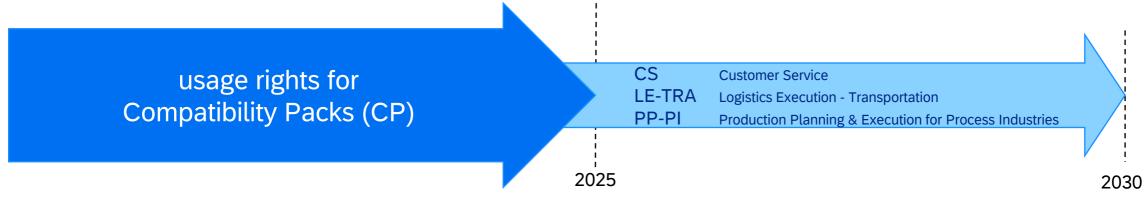
- Customer Service (CS) IDs 402-413
- Transport (LE-TRA) ID 474
- Production Planning for Process Ind. (PP-PI) IDs 444, 446, 447, 453-457

For three compatibility scope components (Customer Service, Transport, and Production Planning for Process

Industries) the new go-to solutions provide enhanced capabilities and will require a more extensive transformation project, especially for global organizations and customers who leverage individual extensions today.

In order to help customers get the highest business value from their SAP S/4HANA systems, SAP has decided to align the usage rights for those three components with the SAP Business Suite maintenance timeline. **SAP is extending the usage rights exclusively for Customer Service, Transport, and Production Planning for Process Industries until the end of 2030.**

This extension will be **available to all SAP S/4HANA customers** in SAP S/4HANA Cloud Private Edition as well as those with an SAP S/4HANA on-premise deployment and is limited to the three components listed above. The extension comes at no additional cost and does not require any contractual changes or amendments for existing customers as the change is being implemented centrally.



Compatibility Packs in SAP S/4HANA Webinar

Get more detailed information in our latest SAP community webinar

Recording and slides <u>available on</u> <u>youtube</u>

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

SAP SAP S/4HANA Cloud Private Edition: Product Tour (sap.com)

SAP	Products Services and Support Learning Community Partner Abou	t Explore SAP Q
/ Enterprise Resource Planning (ERP) / SAP S/4HANA Cloud Product Tour	, private edition	
SAP S/4HANA Cloud, p Product Tour	private edition	
Rise into the Future Learn what's new and what	at's next in ERP for your company's future in the cloud.	Watch the
Overview	< Snapshot ب Apps ب Search In: "Apps" Q	ee 💿 Q 🕑
Finance	1	ca ~
Procurement	Snapshot Revision: 1 PIP Data Prep. Status: Successful Snapshot Type: Engineering Snapshot Change Rec. Prep. Status: Successful Material: Bracket, Pump (0600-100-001-01) Proposed Effective Date: Plant: D130 A&D Plant (D130)	
Improve the management of	Engineering BOM Assigned Change Records	
manufacturing-relevant master data — such as product master, BoMs,	Standard -> Display Engineering BOM Prepare MBOM Creation (\$ Get -> 3D Visual Details	Hide Visual
routings, recipes, and work centers — on a single dashboard.	Alternative BOM: 1 BOM Usage: Engineering/Design Versioned (E)	- R E A - M- 37
Step 1 of 4	BOM Version: 0001 BOM Version Status: Released (99) Fastener_X190_32 (0600-100-001-06) D130 A&D Plant (D130)	
Sales	Atternative BOM: 1 BOM Usage: Engineering/Design Versioned (E) BOM Version: 6001 BOM Version: Status: Released (99)	

Public