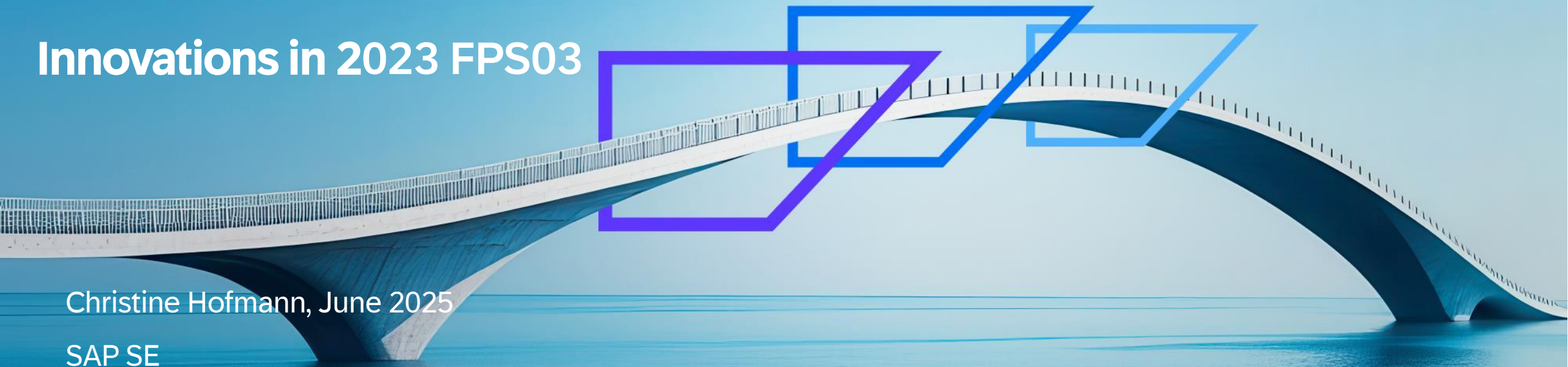
SAP S/4HANA Cloud Private Edition

Innovations in 2023 FPS03



Christine Hofmann, June 2025

SAP SE

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Agenda

SAP S/4HANA Cloud Private Edition – a key component of SAP's strategy

Highlights of innovations for SAP S/4HANA Cloud Private Edition 2023 FPS03

Additional resources

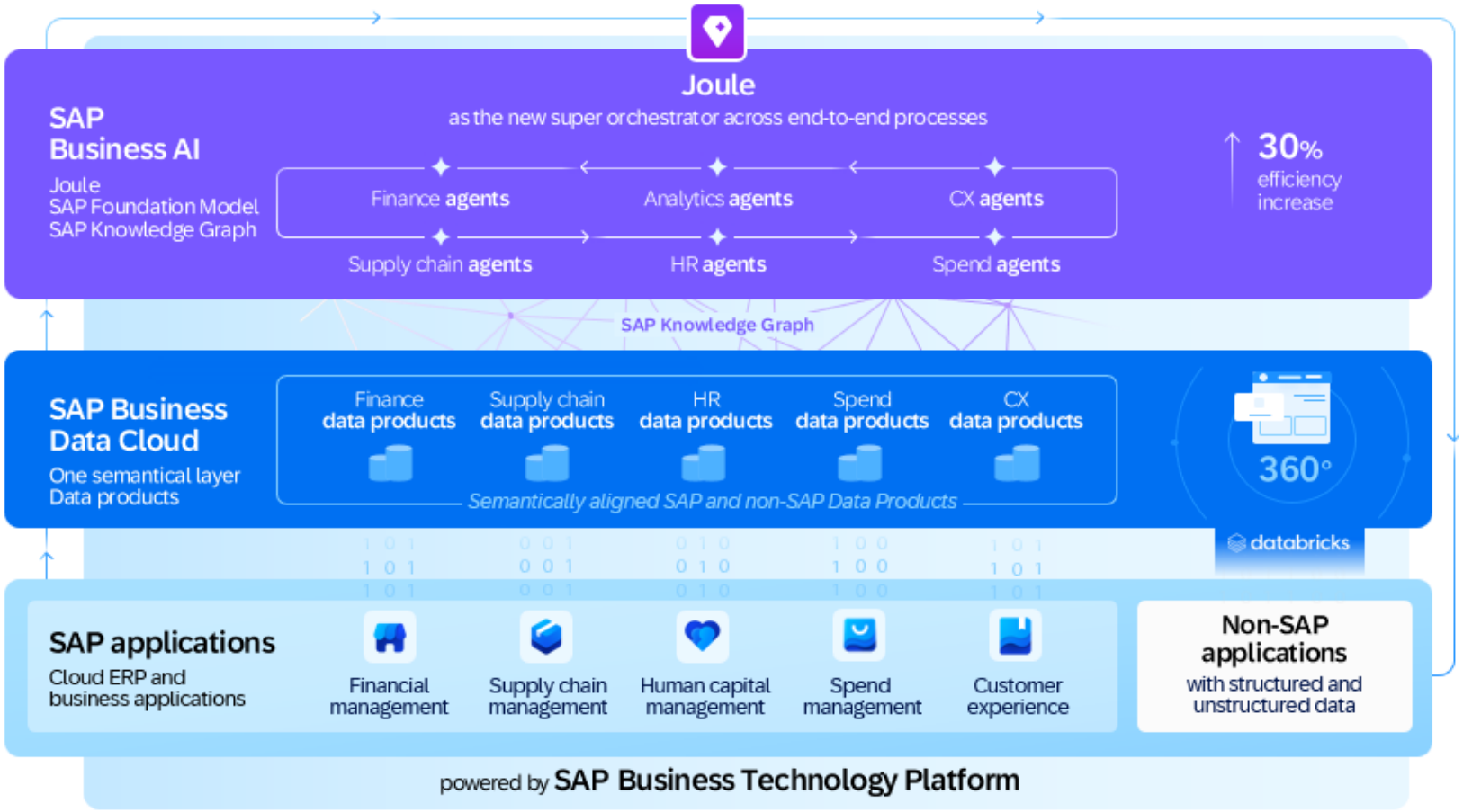
Agenda

SAP S/4HANA Cloud Private Edition – a key component of SAP's strategy

Highlights of innovations for SAP S/4HANA Cloud Private Edition 2023 FPS03

Additional resources

SAP Business Suite brings together AI, data, and applications on an unparalleled technology platform to transform businesses like never before



Unrivaled AI

AI embedded in business processes

Unmatched Data

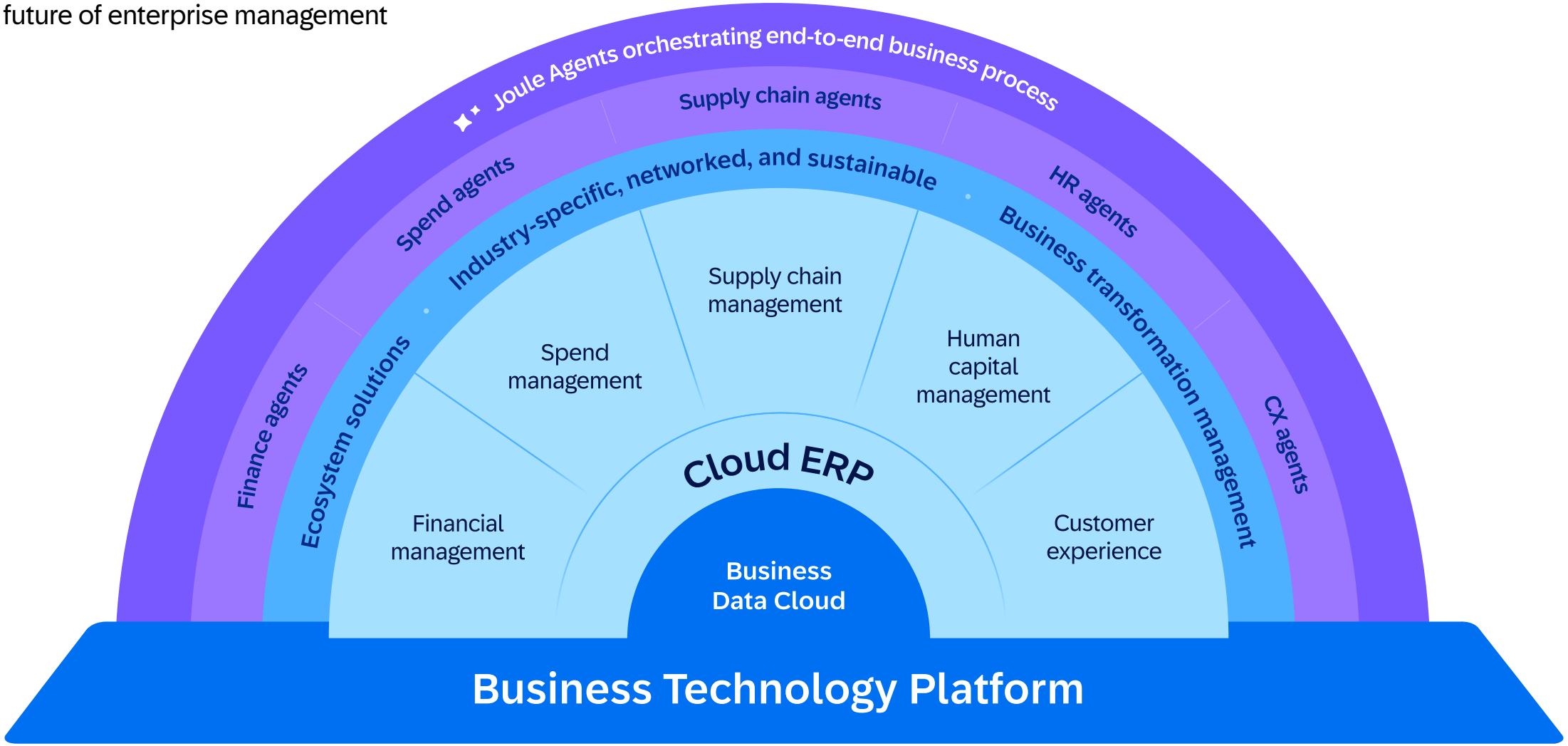
100% accurate and secure business data

Unparalleled Applications

Integrated Suite across SAP & non-SAP apps

SAP Business Suite

The future of enterprise management



SAP S/4HANA Cloud Private Edition

Modular Application Portfolio (MAP)

	Sourcing & Procurement	Supply Chain	Manufacturing	Sales	Service
Modular Cloud LoB Solutions	• Guided buying • Supplier management • Business network	• Integrated business planning • Global batch traceability • Logistics business network • Transportation management • Extended warehouse management	• Digital manufacturing	• E-Commerce • Sales automation • Customer data • Marketing • Customer service	• Service cloud • Field service management • Customer relationship management
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		
SAP S/4HANA Cloud Private Edition Enterprise 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
	• 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 • Travel management	
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	• Application lifecycle management • Intelligent business processes • Business technology platform • Extensibility framework • Sustainability solutions • Industry specifics
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	Cross Functional
	Finance	Research & Development	Asset Management	Human Resources	

Agenda

SAP S/4HANA Cloud Private Edition – a key component of SAP's strategy

Highlights of innovations for SAP S/4HANA Cloud Private Edition 2023 FPS03

Additional resources

AI in SAP S/4HANA Cloud Private Edition
Drive business growth and foster innovation with a cloud ERP powered by AI

Business

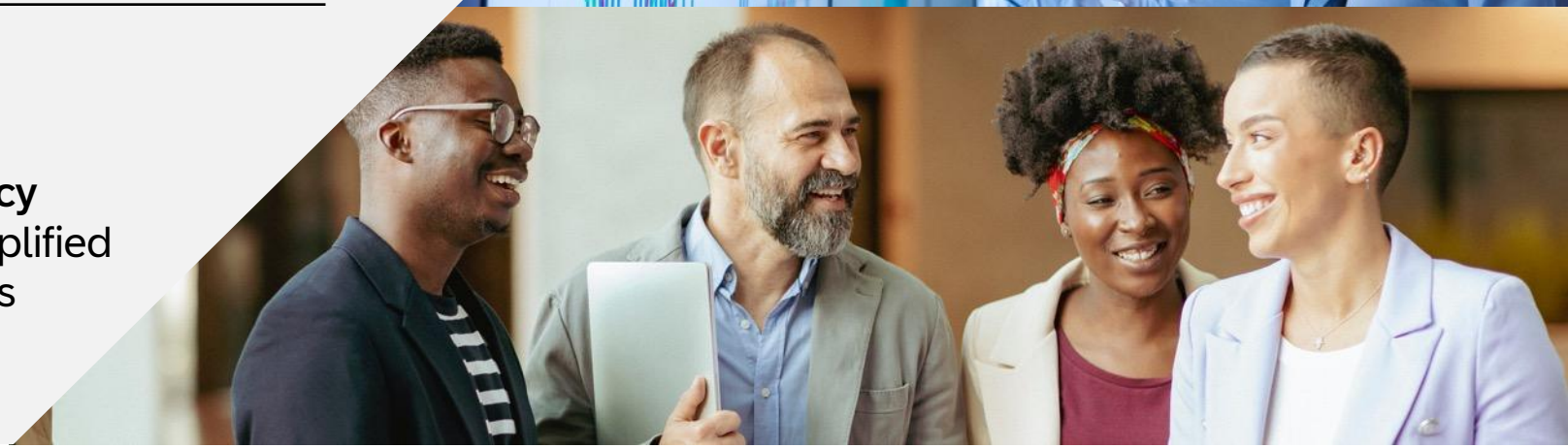
Accelerate processes and optimize decisions

AI-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: Joule and Business AI innovations in 2023 FPS03

Procurement

- Using Joule for purchase requisitions and purchase orders

Supply Chain

- AI-assisted creation of inbound cargo and shipping documents
- Machine learning based planned execution times for warehouse tasks
- AI-assisted conversational planning in Transportation cockpit

Manufacturing

- Using Joule for production orders and process orders
- AI-based explanation assistant of “Detailed Scheduling Optimizer” results

Sales

- AI-assisted monitoring and resolving sales order fulfillment issues.
- Fetch sales order and billing document information
- Create sales orders with a reference using Joule
- Mass change of sales orders using Joule

Service

- Fetch service confirmation information using Joule
- Navigate/Search/Change Service Order using Joule
- AI-assisted in-house service initiation

Finance

- AI-Assisted Journal Upload
- Using Joule for subscription order creation and contract summarization
- Using Joule for accountants, cash managers and project controller
- Using Joule for convergent invoicing and contract accounting

R&D

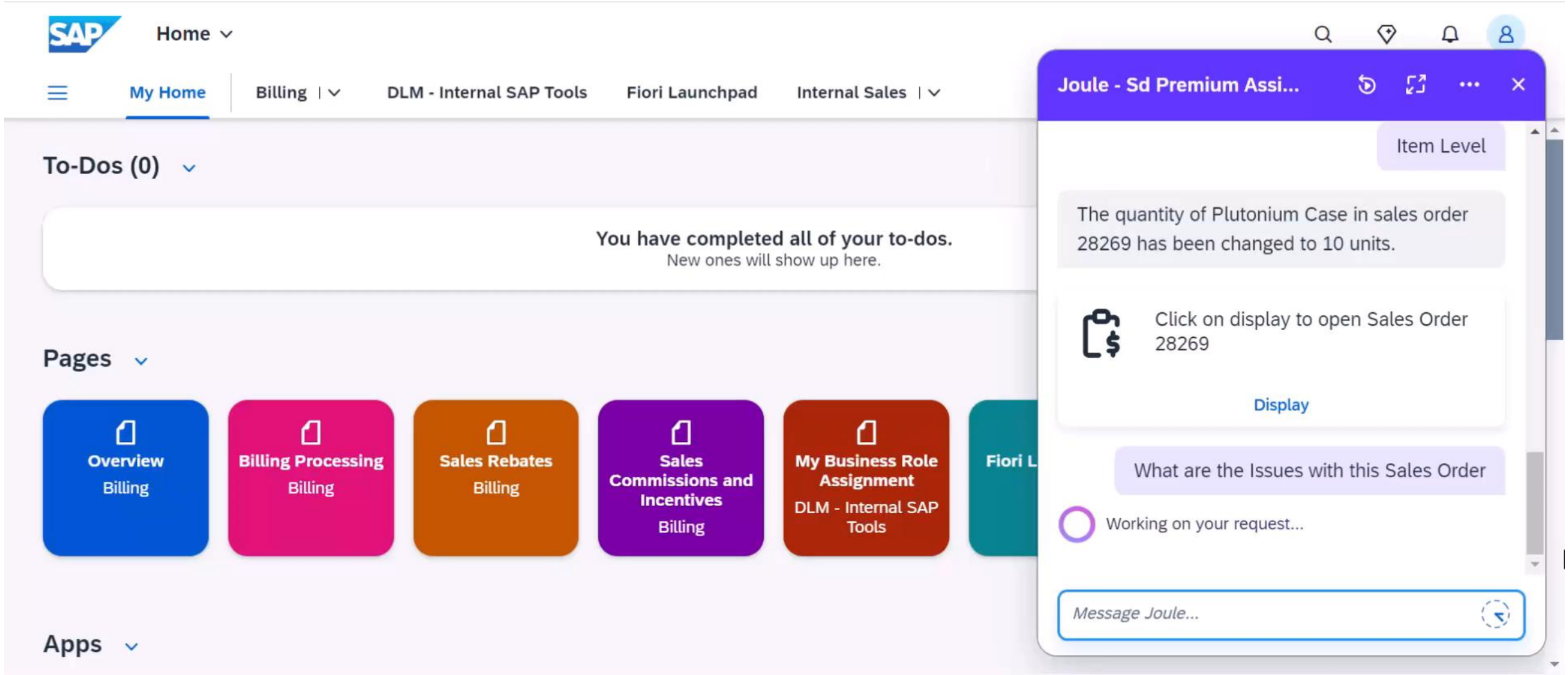
- Joule for BOM for transactions and navigation
- Joule for change records for transactions and navigation
- Joule support for project assistants

Asset Management

- AI-assisted maintenance order recommendation
- Using Joule for Perform Maintenance Jobs
- Using Joule for Maintenance Orders and Notifications

Cross Functional

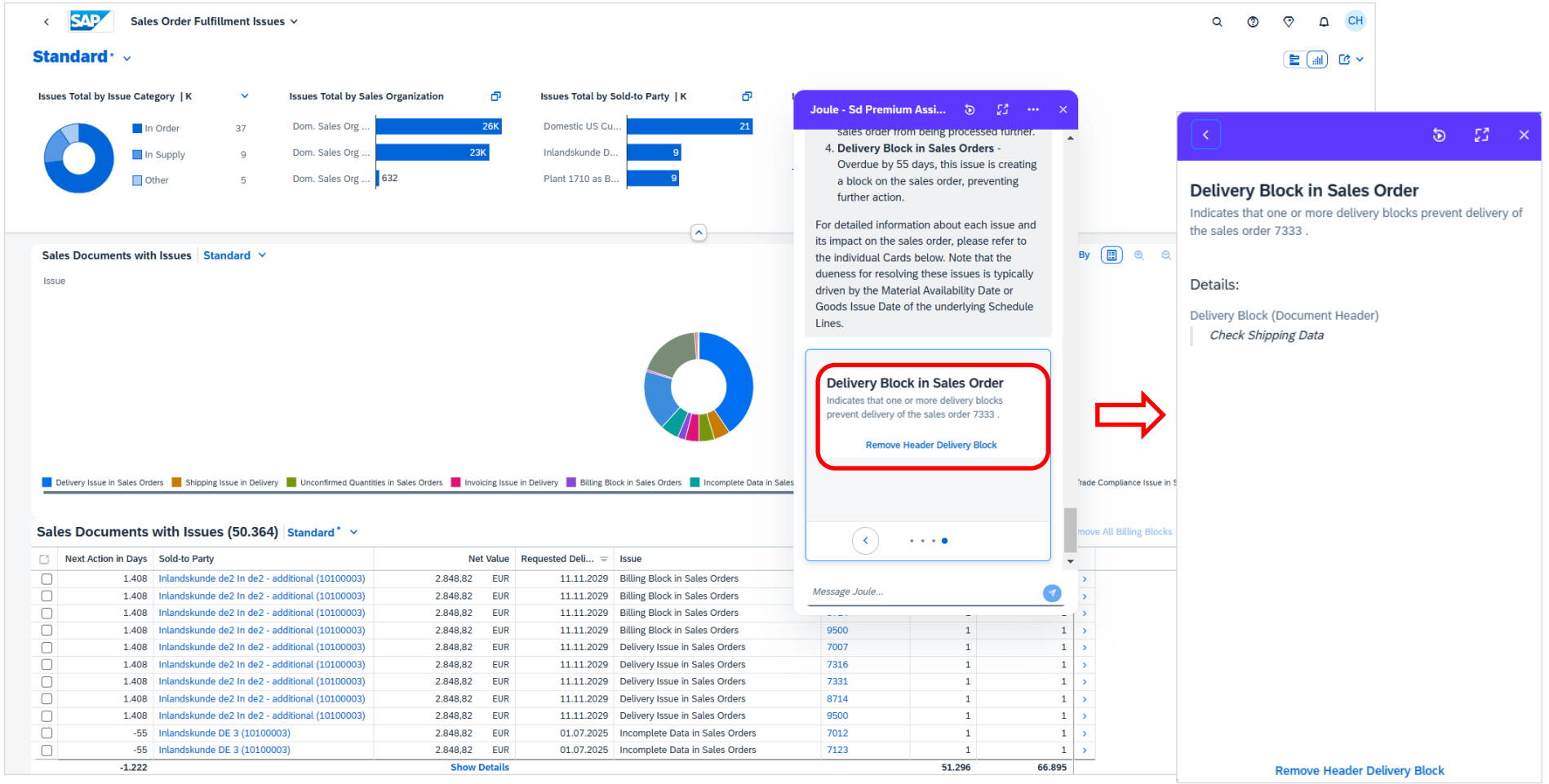
- AI-assisted Changes and Summarization of Change Requests and Mass Changes in Master Data Governance


Home
My Home
Billing
DLM - Internal SAP Tools
Fiori Launchpad
Internal Sales
To-Dos (0)
You have completed all of your to-dos.
New ones will show up here.
Pages
Overview
Billing
Billing Processing
Billing
Sales Rebates
Billing
Sales Commissions and Incentives
Billing
My Business Role Assignment
DLM - Internal SAP Tools
Apps
Joule - Sd Premium Assi...
Item Level
The quantity of Plutonium Case in sales order 28269 has been changed to 10 units.
Click on display to open Sales Order 28269
Display
What are the Issues with this Sales Order
Working on your request...
Message Joule...

Sales

Get explanations for sales order fulfillment issues with Joule and Business AI

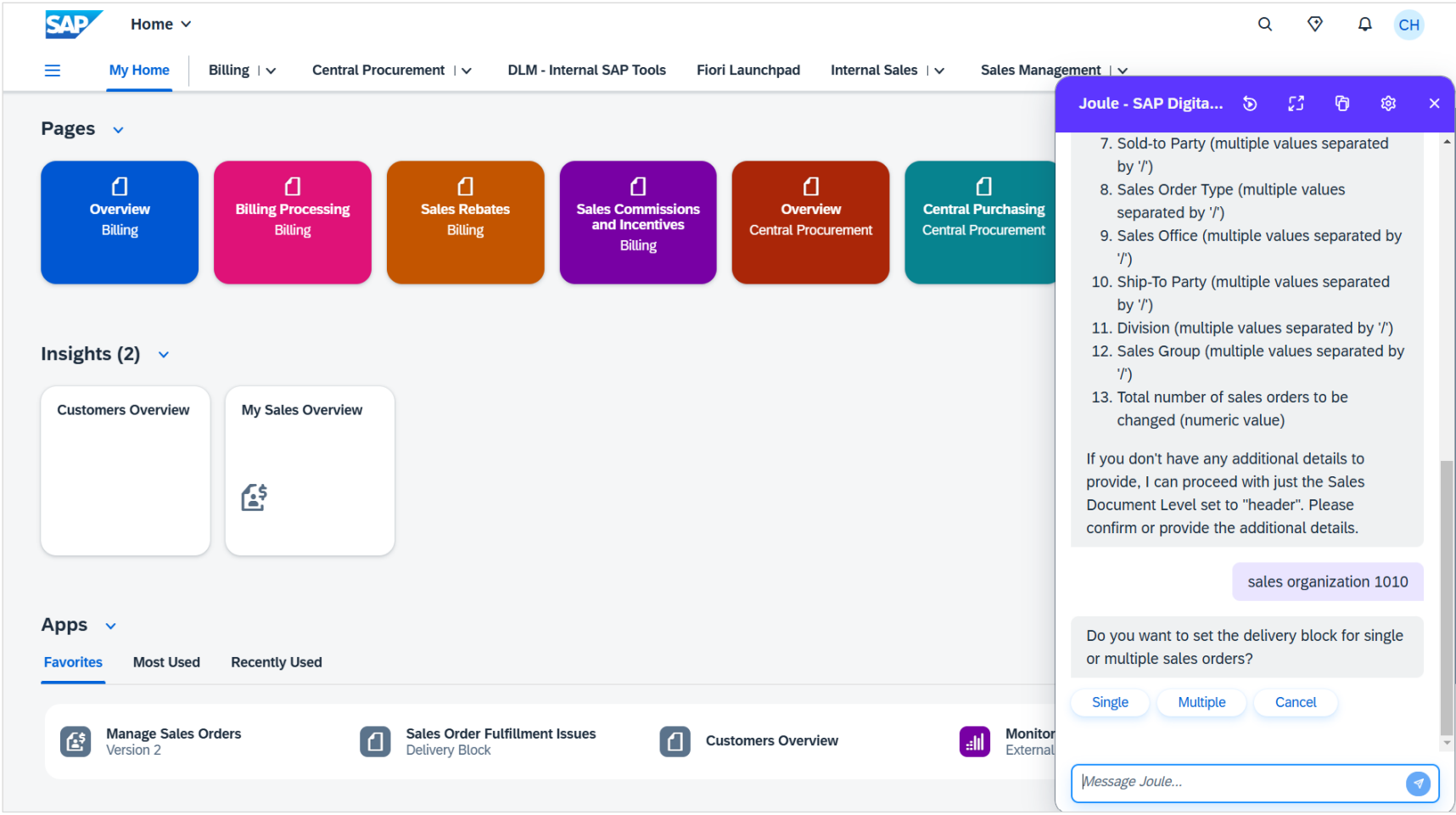
- In addition to monitoring and resolving sales order fulfillment issues, Joule now also provides explanation for issues and blocks.
- Ask Joule about incomplete data, delivery block issue, credit block issue, billing block issue, delivery issue, and trade compliance issues
- Get a quick overview about the fulfillment status of a sales order
- Provide issue explanation and resolution based on real time fulfillment status by analyzing follow up documents



Sales

Mass change of sales orders using Joule

- Joule allows you to make changes to sales order fields at both the header and item levels, also doing mass changes to these fields.
- At the header level, Joule can update the requested delivery date, purchase order number, customer payment terms, delivery block reason, billing block reason, and order reason.
- At the item level, Joule can update the requested quantity, billing block reason, item rejection reason, and item description.
- The AI-driven logic determines if requested changes are feasible before execution, Additionally, sales teams can opt for an extra confirmation step using Joule before implementing mass changes, ensuring greater control over order processing.

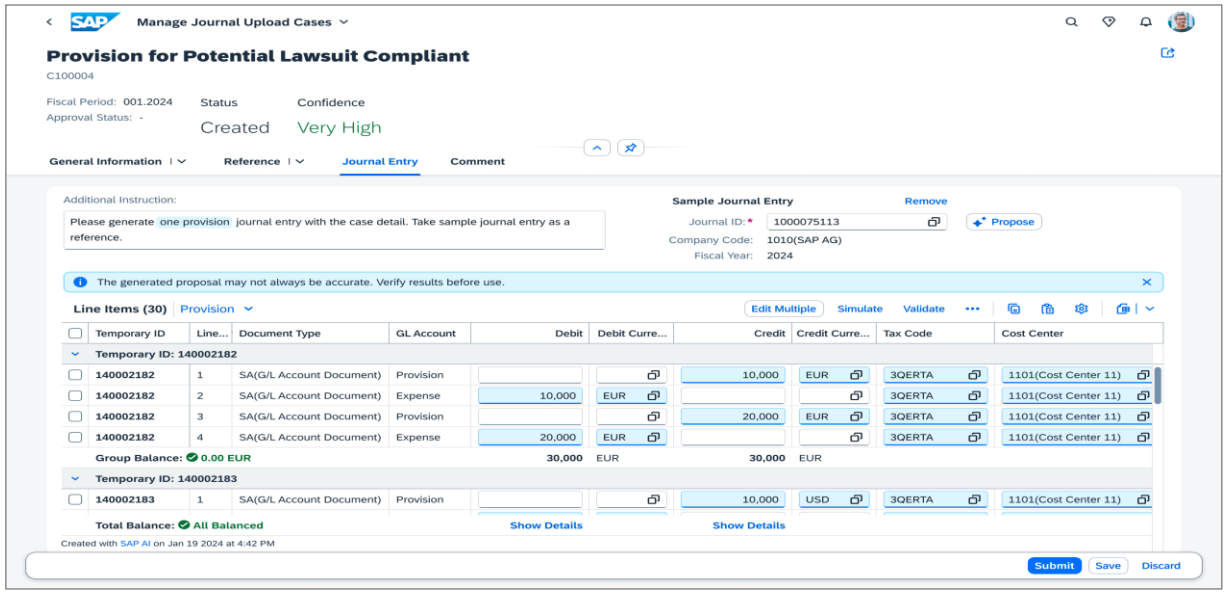


Finance

AI-assisted Journal Upload

Use generative AI technologies to simplify the process of creating journal entries

- Reduce the manual workload by using generative AI to generate journal entry proposals based on posting policies and transactional data.
- Ensure accuracy by reviewing the generated journal entry proposals, filling in missing information, and modifying incorrect entries.
- Once the proposals are reviewed and approved, the validation and posting processes are triggered. Successful posting results in the creation of new journal entries.



Increase speed, quality and standardization by automating the generation of journal entry proposals based on transaction data and posting policies

Service
AI-assisted in-house service initiation

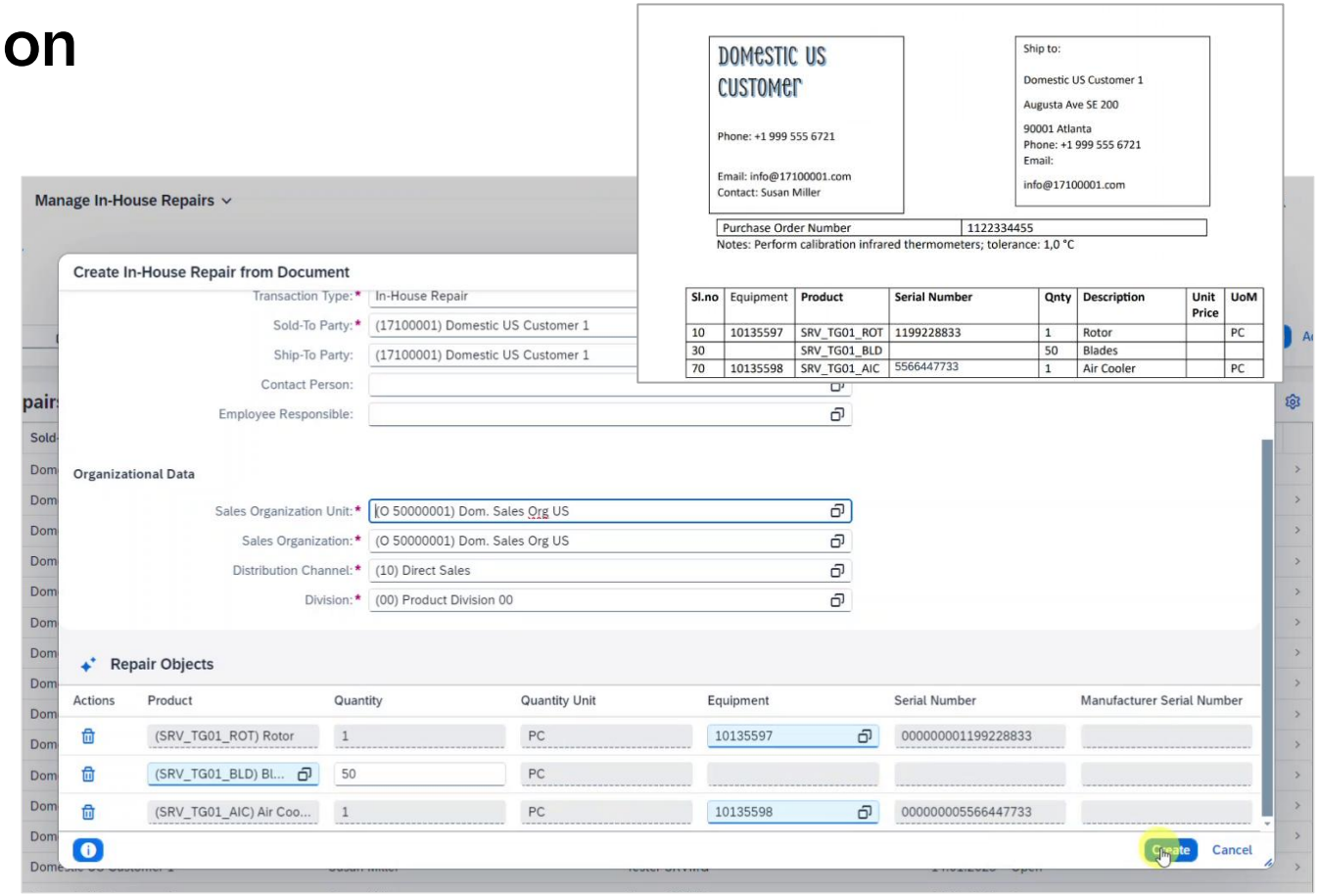
Challenge

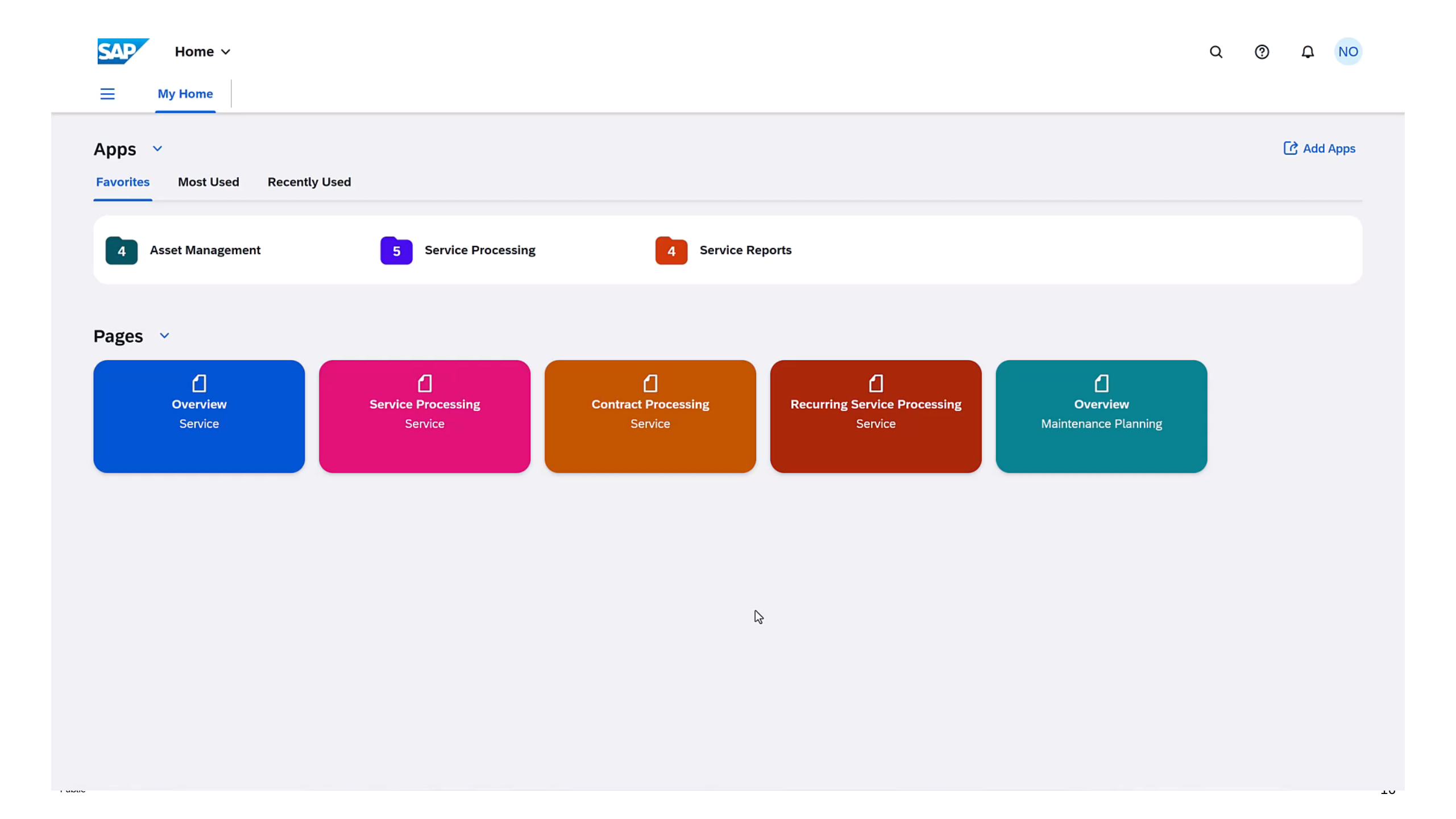
Repair shops receive a significant amount of paperwork. Manually converting this paper-based information into the SAP system is labor-intensive and prone to errors, which can lead to data loss—especially under tight deadlines.

Solution

Our new feature leverages the Documented Information Extraction (DOX) AI service to streamline this process:

- **Capture:** Repair staff can simply scan or photograph incoming paper documents (e.g., purchase orders).
- **Process**: The SAP system automatically extracts the necessary data and creates a list of repair objects for the corresponding in-house service.
- **Review**: Repair staff then reviews the generated order and continues processing it to completion.




Home
NO
My Home
Apps
Add Apps
Favorites
Most Used
Recently Used
4
Asset Management
5
Service Processing
4
Service Reports
Pages
Overview
Service
Service Processing
Service
Contract Processing
Service
Recurring Service Processing
Service
Overview
Maintenance Planning

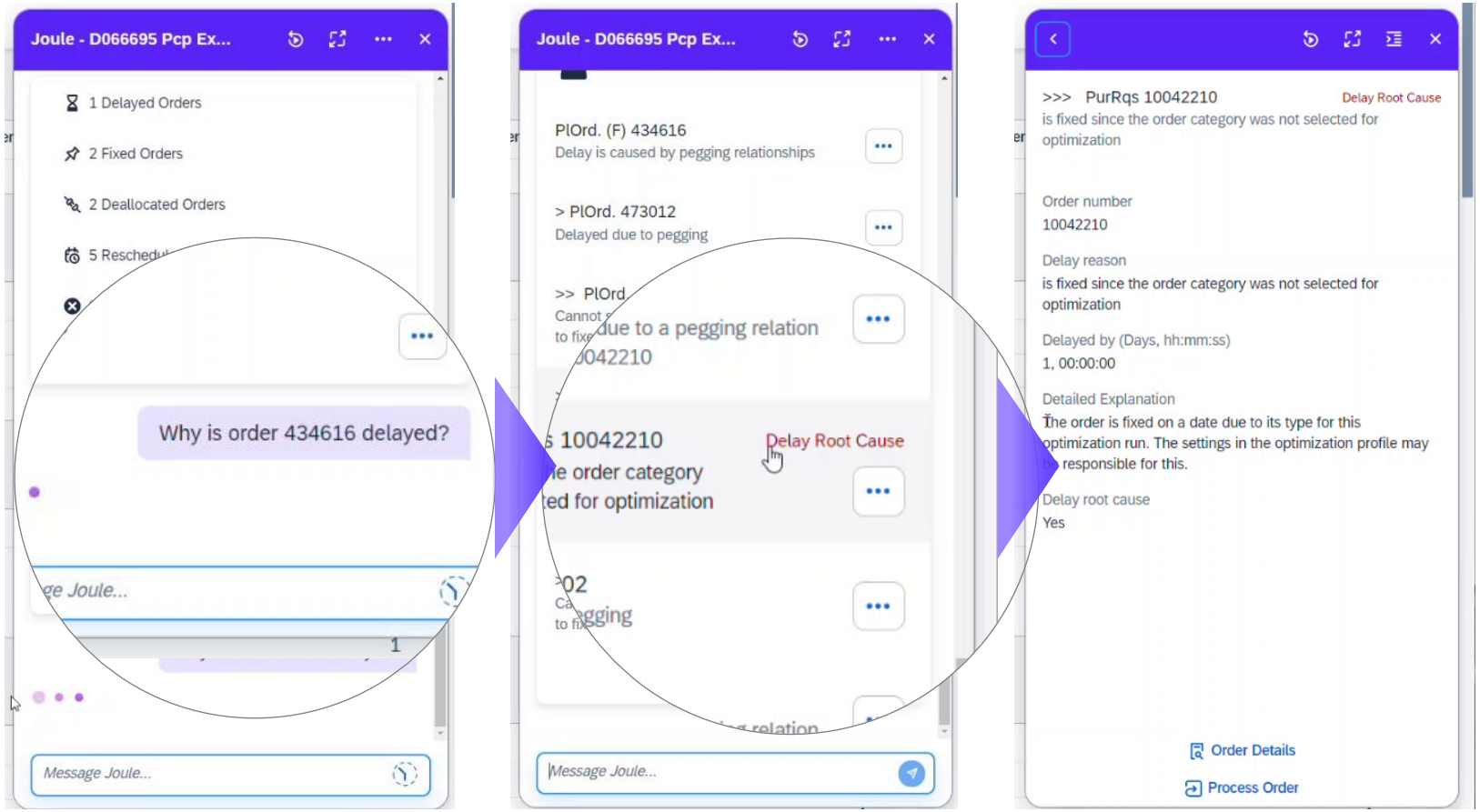
Manufacturing
AI Assistant for "Detailed Scheduling Optimizer" Results

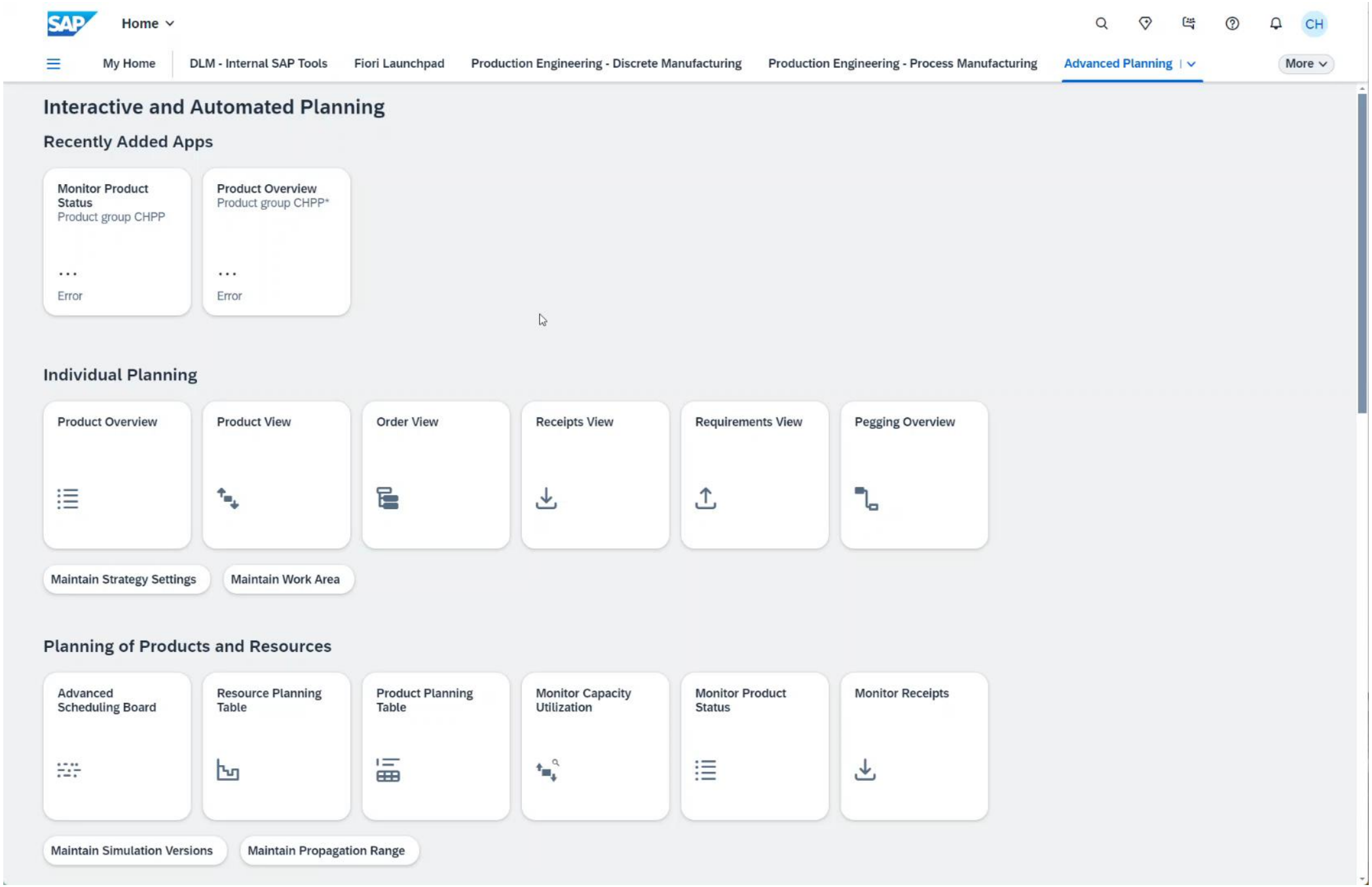
Challenge

Production planners often struggle to quickly understand the "Detailed Scheduling Optimizer" results, as they are intricate and lack clear explanations. This complexity leaves planners uncertain about the decisions made by the optimizer, making it challenging to address exceptions efficiently.

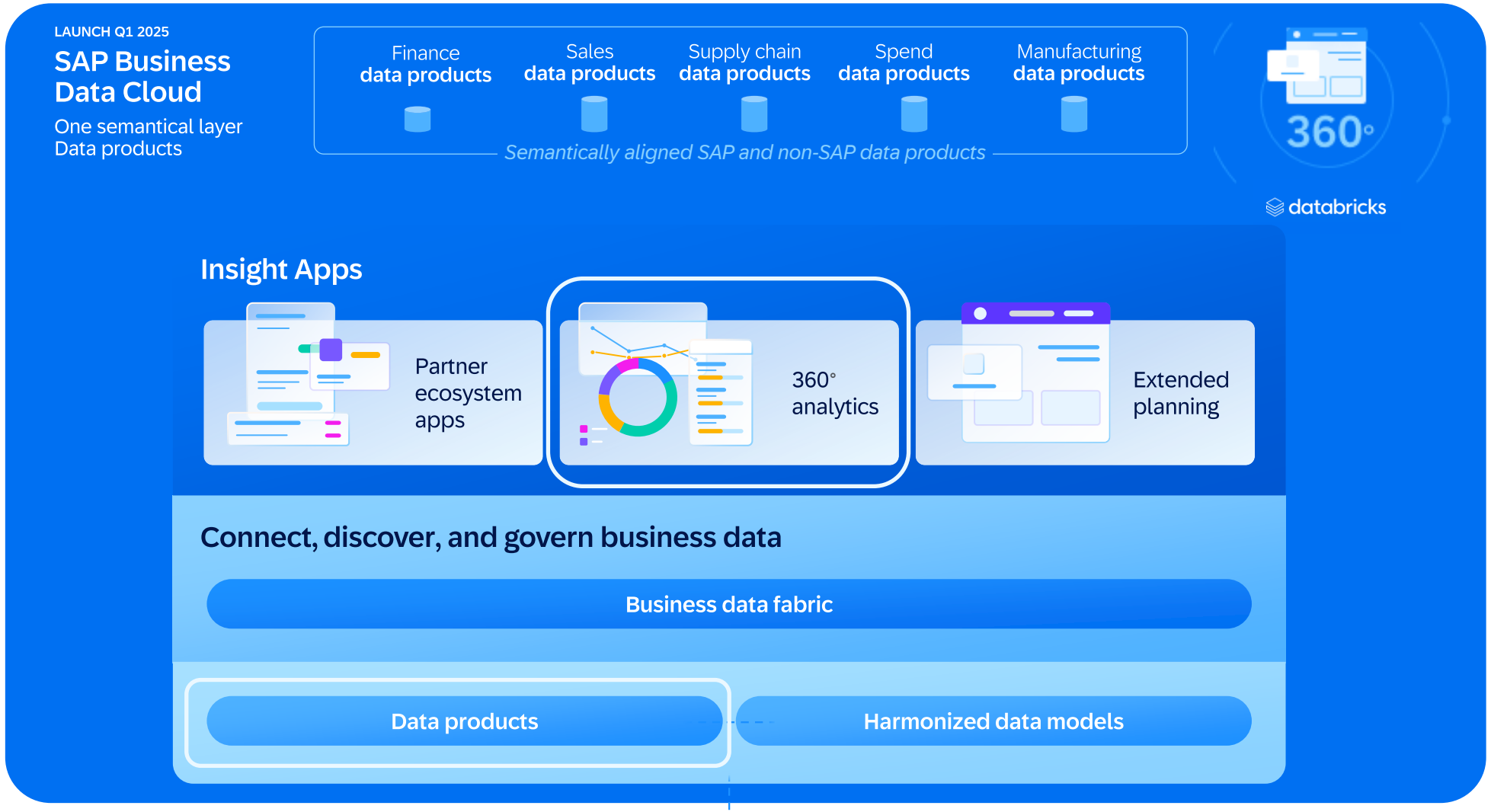
Solution

SAP's AI assistant now includes a capability that offers explanations for "Detailed Scheduling Optimizer" planning results. Production planners can ask questions in natural language through a chat interface, allowing them to intuitively grasp what occurred during the scheduling process. This helps them to focus on any exceptions.




Home
CH
My Home
DLM - Internal SAP Tools
Fiori Launchpad
Production Engineering - Discrete Manufacturing
Production Engineering - Process Manufacturing
Advanced Planning
More
Interactive and Automated Planning
Recently Added Apps
Monitor Product Status
Product group CHPP
Error
Product Overview
Product group CHPP*
Error
Individual Planning
Product Overview
Product View
Order View
Receipts View
Requirements View
Pegging Overview
Maintain Strategy Settings
Maintain Work Area
Planning of Products and Resources
Advanced Scheduling Board
Resource Planning Table
Product Planning Table
Monitor Capacity Utilization
Monitor Product Status
Monitor Receipts
Maintain Simulation Versions
Maintain Propagation Range

SAP Business Data Cloud and SAP S/4HANA Cloud Private Edition



Unmatched data

With **SAP Business Data Cloud**, your highly valuable business data from throughout the business turns into a semantically rich data treasure that fuels unrivaled enabled value.

Data Products

SAP Business Data Cloud Intelligent Applications

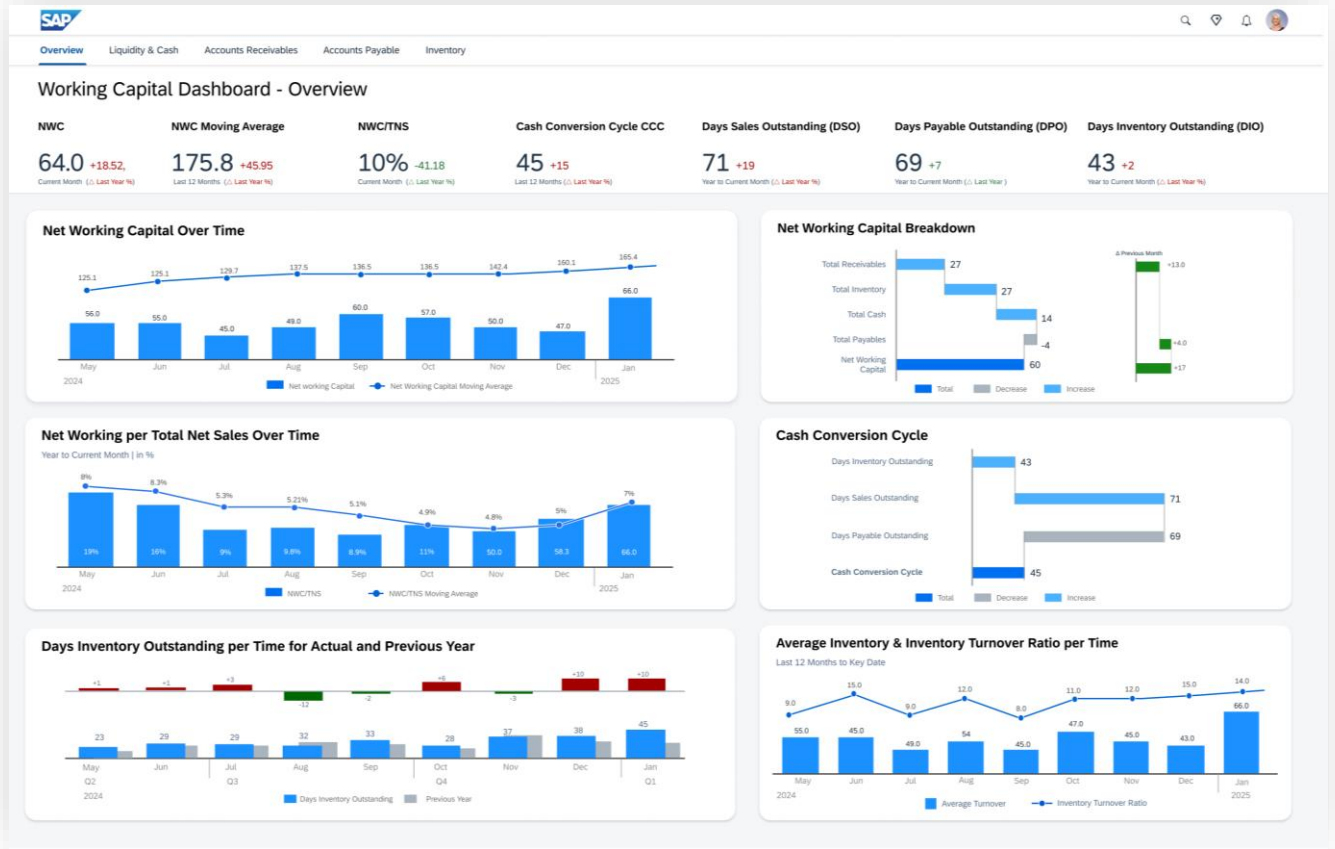
Working Capital – Gain a deep understanding of your operations

Cloud ERP Intelligence

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

The intelligent application helps to answer:

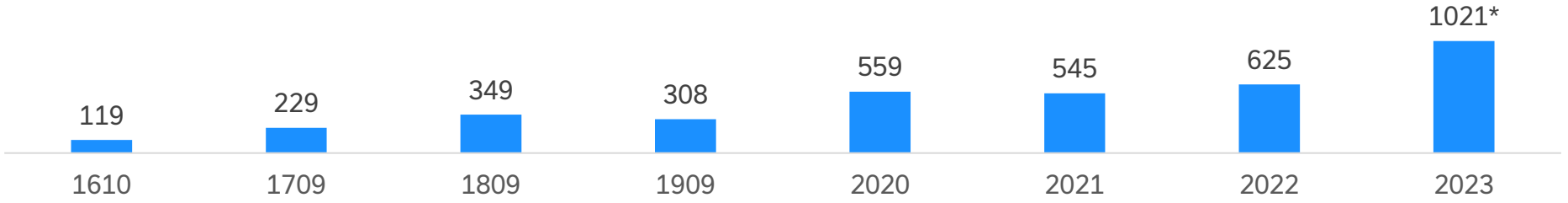
- How has the working capital trended over the past few periods?
- What is the average payment period for accounts payable?
- Are there opportunities to negotiate better payment terms with suppliers?
- What is my days sales outstanding?



SAP Notes 3606495, 3606487

SAP S/4HANA Cloud Private Edition

Evolution of innovations and release strategy for 2023 → 2025



- Number of delivered Innovations in each release

* 23 innovations for SAP S/4HANA Cloud Private Edition only

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

SAP S/4HANA Cloud Private Edition: recent innovations in the core

Procurement

- Limit line-item for central supplier confirmations
- Mass change of price scales, etc. in central purchase contracts

Supply Chain

- Improved Advanced Shipping and Receiving integration with SAP Global Trade Services
- Interactive backorder processing for manual and semi-automated adjustment

Manufacturing

- New app: Manage Production Models – Materials
- New app: Check Optimization Log

Sales

- Prevent creation of blocked credit or debit memos after trade compliance check

Service

- Service hierarchy with Collective Accounting
- Services in the project-cost overview and line items
- Qualification Requirements in Service Transactions

Finance

- Hedging of Subsidiary Exposures by Treasury Center (Balance Sheet FX Risk)
- Improved data integration and flexibility for planning in Manage Financial Plan data app

R&D

- Project Cost Overview and Project Cost Line Items apps to include service transactions
- Standard contents for dangerous goods regulations

Asset Management

- New app: Manage Maintenance Orders
- New app: Updated version of Manage Maintenance Planning Bucket
- As-found data recording when maintenance request is absent

Cross Functional

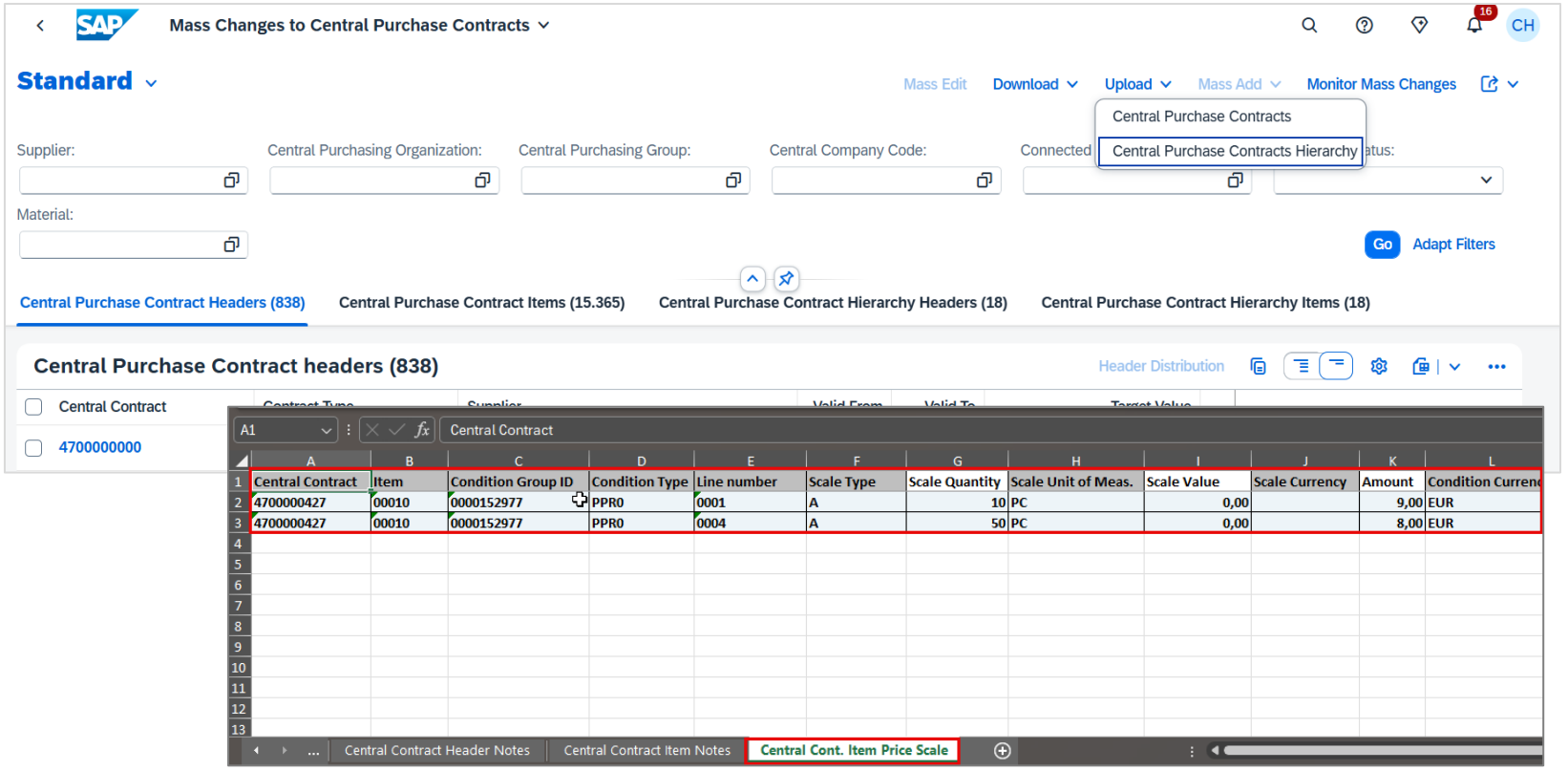
- MDG - extension of validations with SAP S/4HANA Finance

Available only with SAP S/4HANA Cloud

Sourcing and Procurement

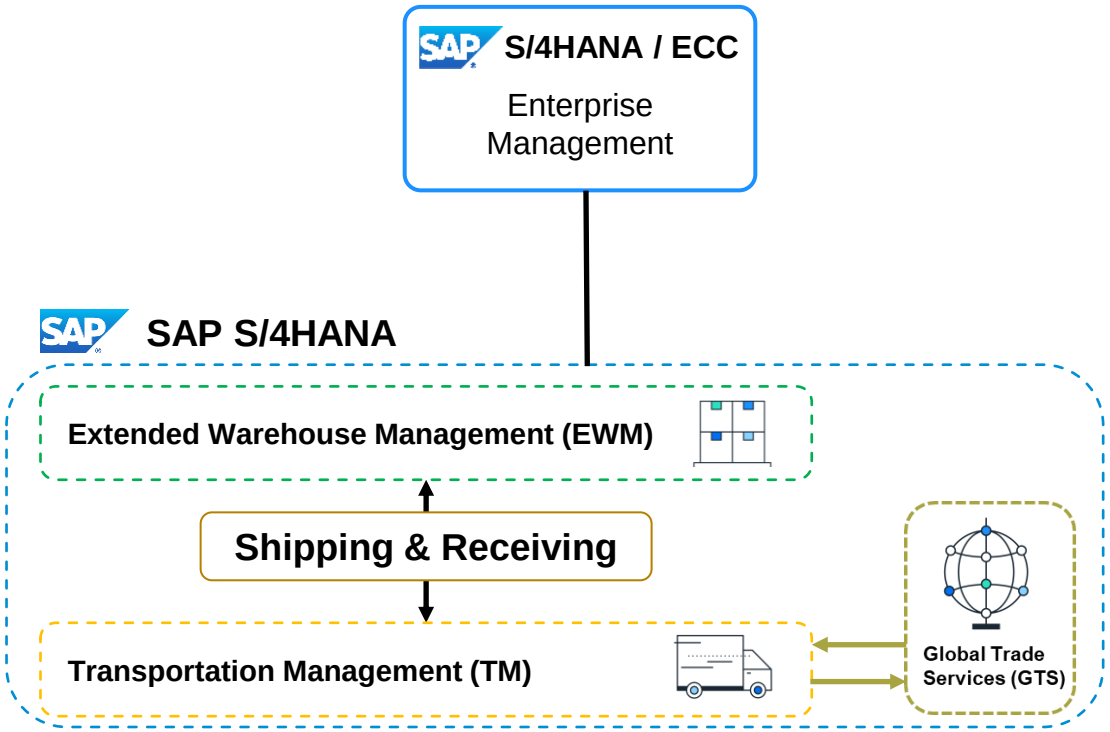
Mass change of price scales and additional fields in central purchase contracts

- Extension of the existing mass change capability for central purchase contracts through offline Microsoft Excel upload by also supporting the update and creation of price scale values for condition types configured for price scale maintenance
- Ability to save newly created or updated central purchase contracts through mass change in preparation mode only
- Support for additional fields by the offline Excel upload including:
  - Numerator and denominator on item level
  - Item category on item level
  - Unit of measurement conversion on price-condition level
  - Incoterms classification and location 1 on distribution level



Supply Chain: Advanced Warehousing
Decentral EWM integration with GTS

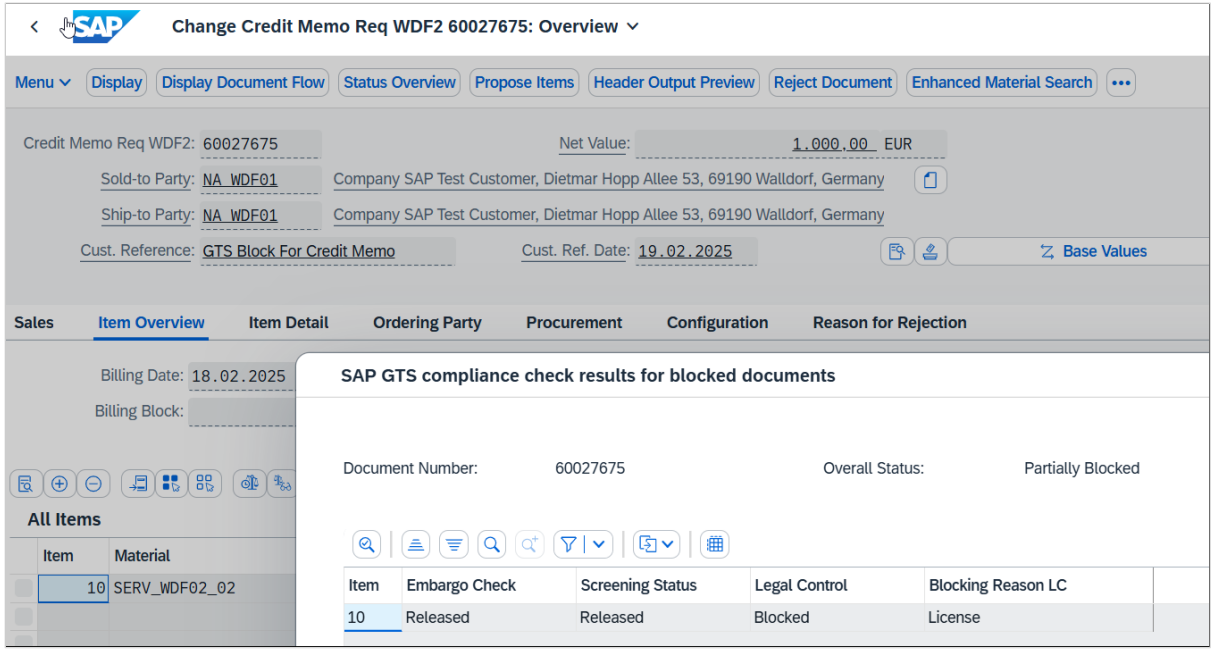
- Integration of decentralized Extended Warehouse Management (EWM) and Transportation Management (TM) with SAP Global Trade Services (GTS)
- Enables one to conduct compliance checks (Sanctioned Party List Screening, Embargo Check or Legal Control Check) for freight units and freight orders and complete export declaration for consignments and freight orders
- Same integration pattern with GTS for both EWM and IM managed storage locations

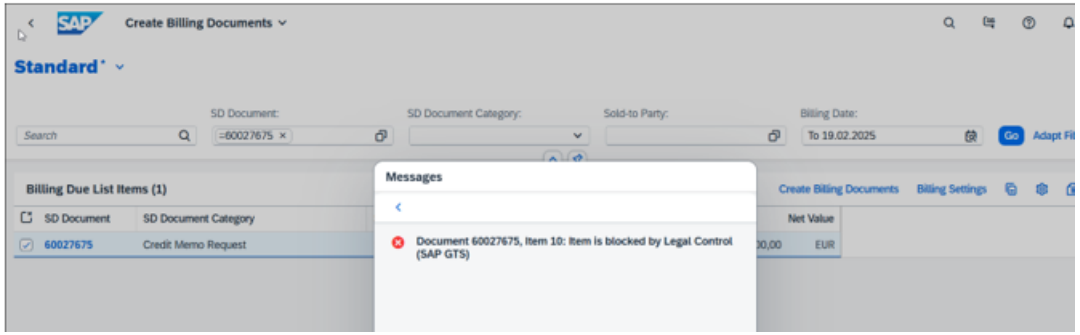


Sales

Preventing creation credit or debit memos after trade compliance check

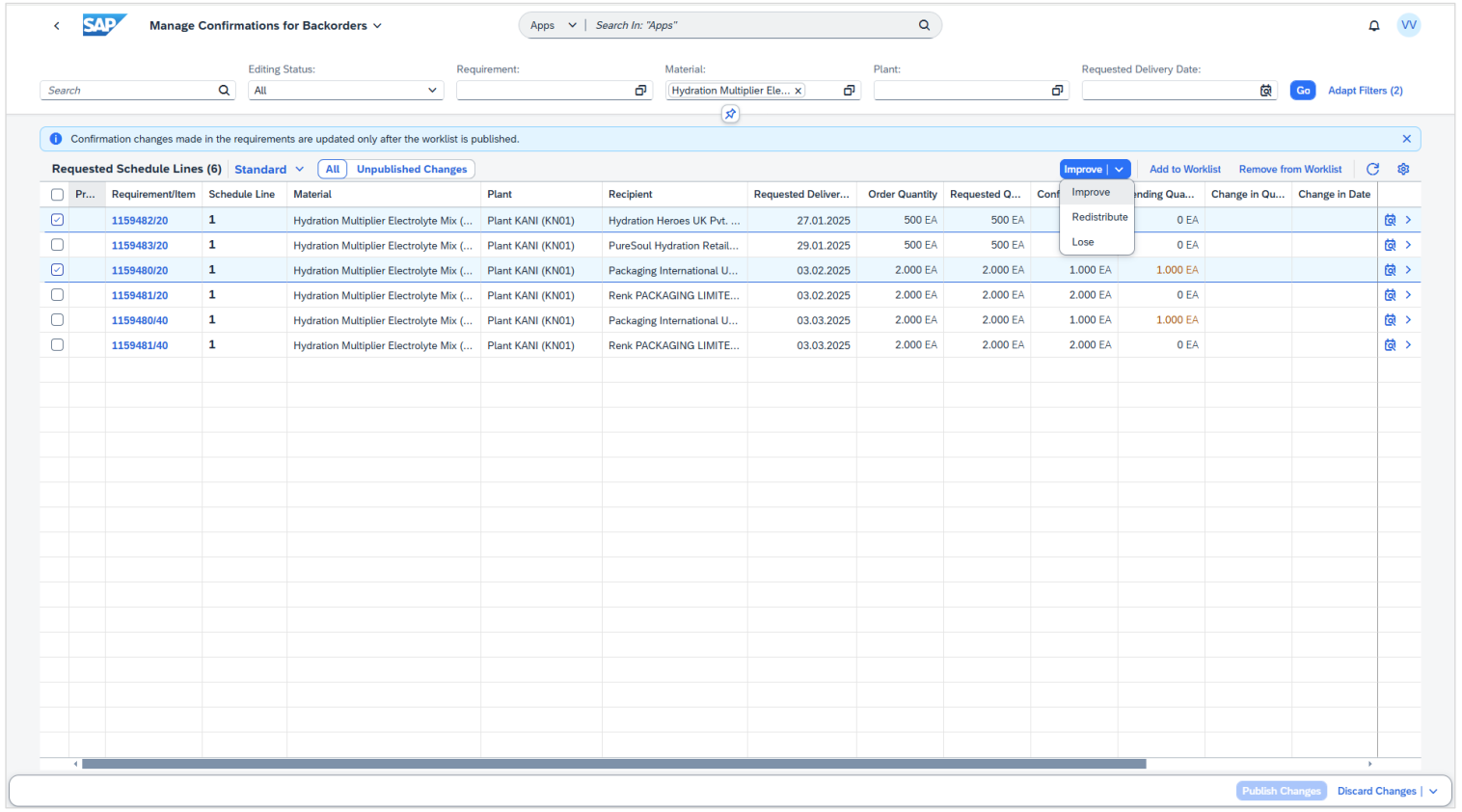
- When a source document item of an order-related billing, debit memo request, or credit memo request item is blocked by SAP Global Trade Services (SAP GTS) during trade compliance check, the creation of the corresponding credit or debit memo item is suppressed, and a message is raised.
- Once the document is released in SAP GTS, the invoices can be processed as usual.





Supply Chain: Advanced Available-to-Promise
Interactive Backorder Processing

- Manual or semi-automated adjustments (using BOP strategies) to order confirmations within ATP limits to optimize fulfillment
- Orchestrate the confirmed dates and quantities of existing demand elements namely Sales Orders and Stock transport orders, while considering the constraints given by the basic ATP-methods, Product Availability Check - PAC, Supply Protection-SUP and Product Allocation-PAL
- Enable Backorder Processing Confirmations Strategies - Redistribute , Lose , Improve
- An interactive UI to load the requirements incl existing BOP segments & excel upload and perform mass processing of confirmations

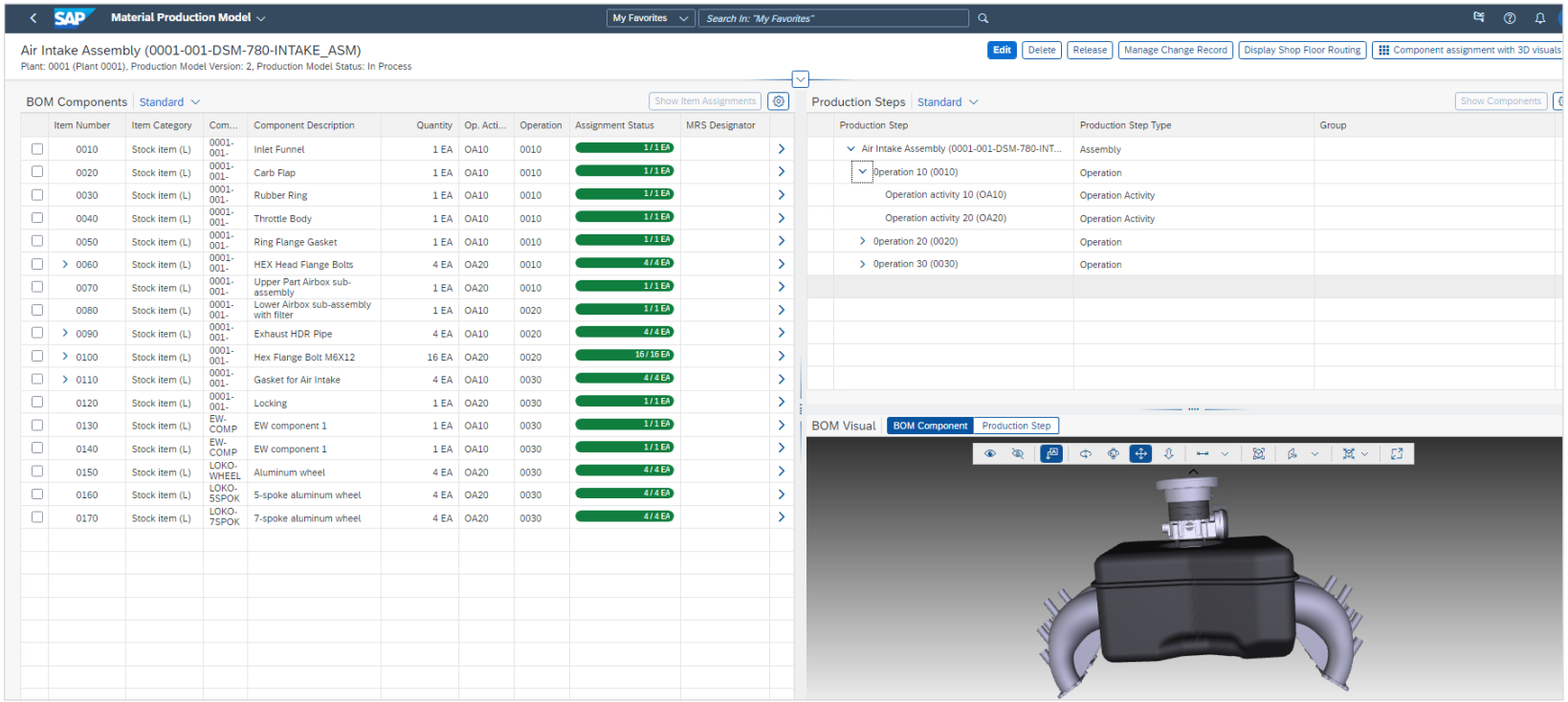


Manufacturing

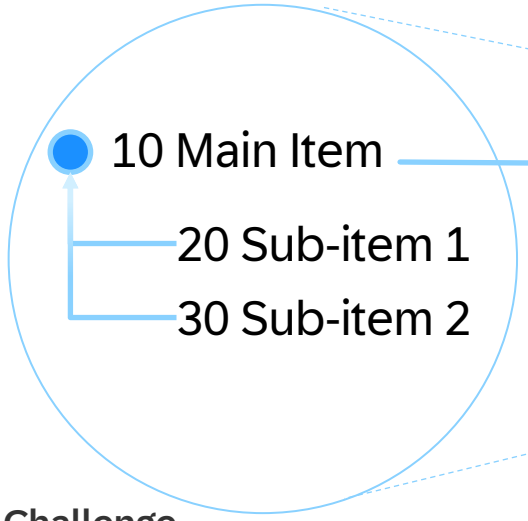
New app Manage Production Models – Materials

With this app, you can maintain production models for single-level, non-configurable, non-unitized materials.

The production model provides a joint view of the manufacturing bill of material (MBOM) and the shop floor routing to facilitate hand-in-hand definition of the MBOM components and shop floor production steps, supported by a 3D visual of the header material of the MBOM.



Service: Hierarchy with collective accounting in service transactions

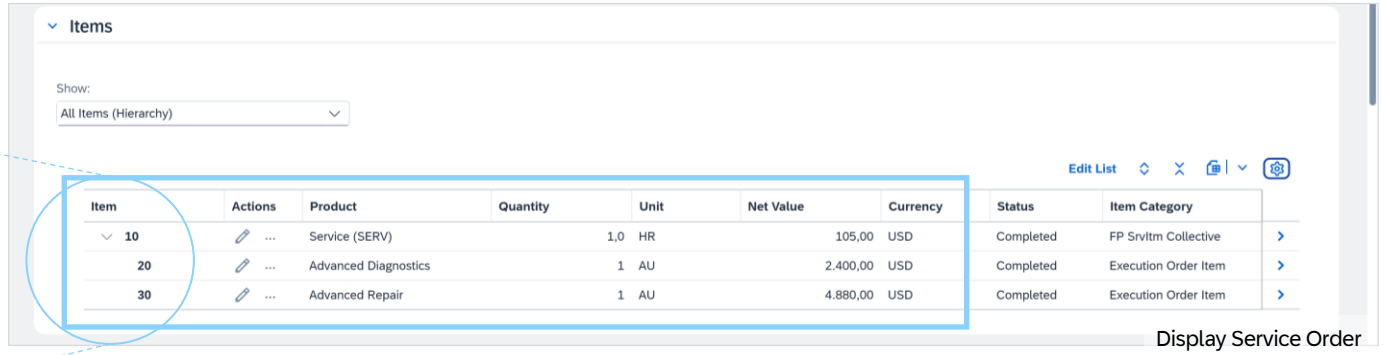


Challenge

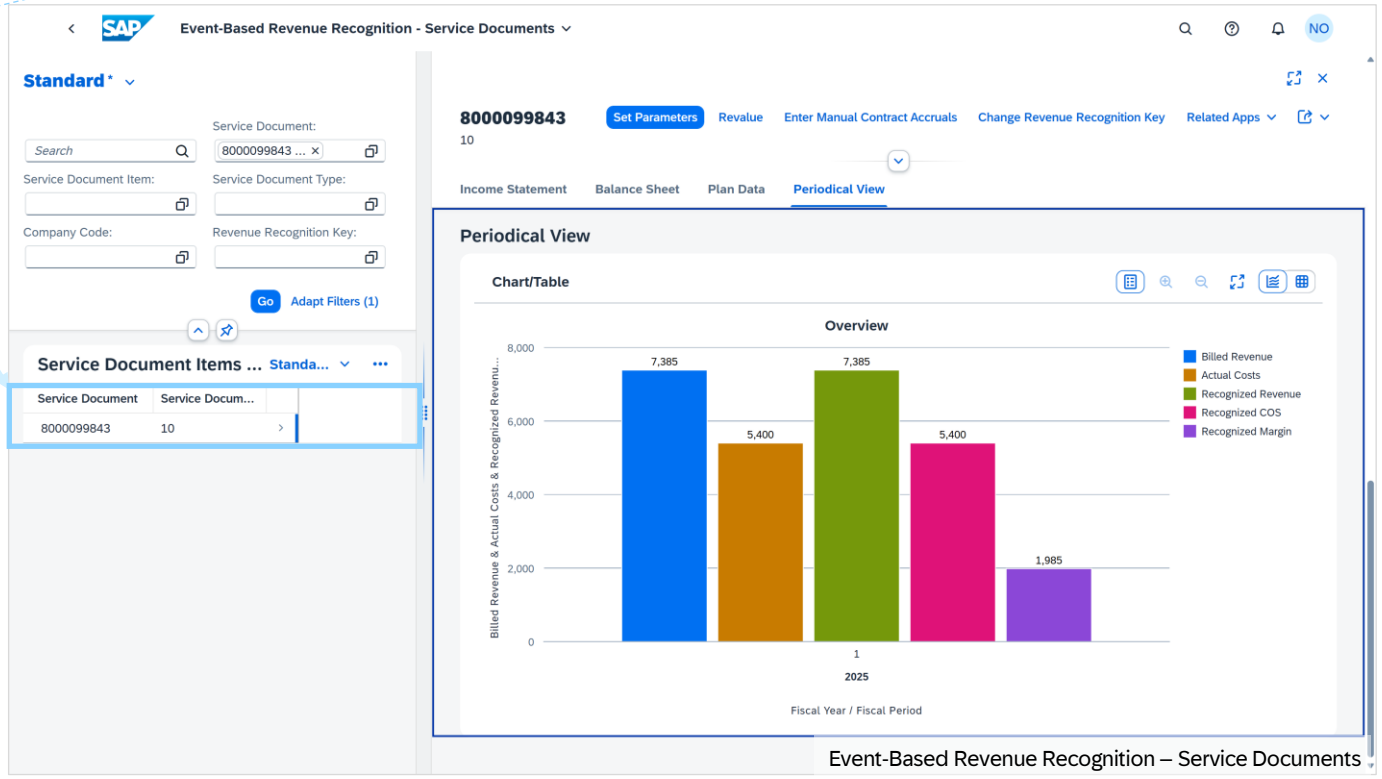
In the past, each line item in a service transaction was considered a separate accounting object. This made it difficult to group together a "bundle" of services that should be treated as a single item for analysis purposes.

Solution

You can now use **Service Hierarchy with Collective Accounting**. This enables you to create a hierarchy of service line items, with main items and sub-items. This new capability offers more flexibility in creating bundled service offerings and allows for business reporting based on these bundles.



Display Service Order



Event-Based Revenue Recognition – Service Documents

Service: Qualification Requirements in Service Transactions

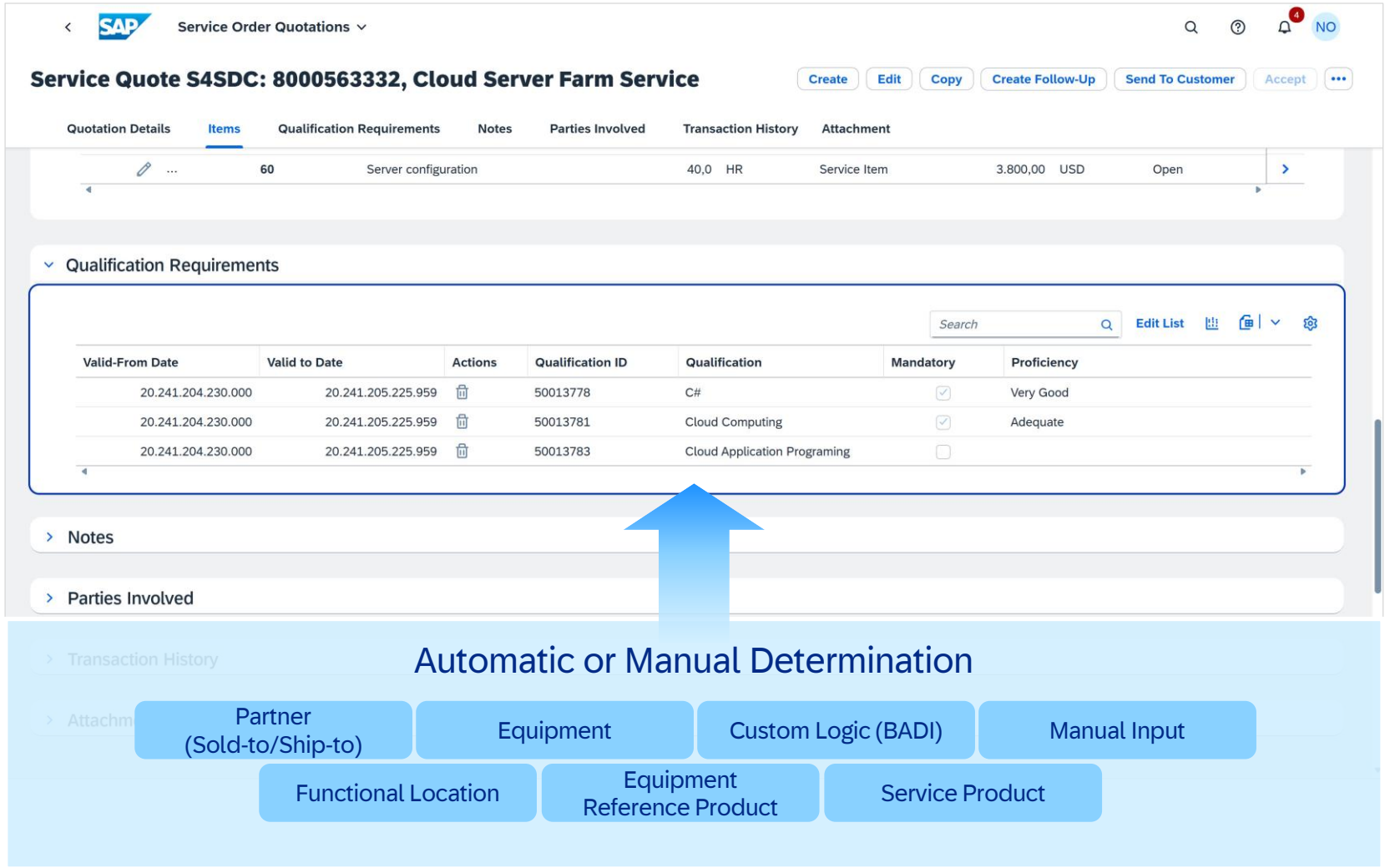
Challenge

Certain services require personnel with specific skills. No standardized feature existed to structure an organizational-wide standard catalog to describe qualification requirements in service transactions.

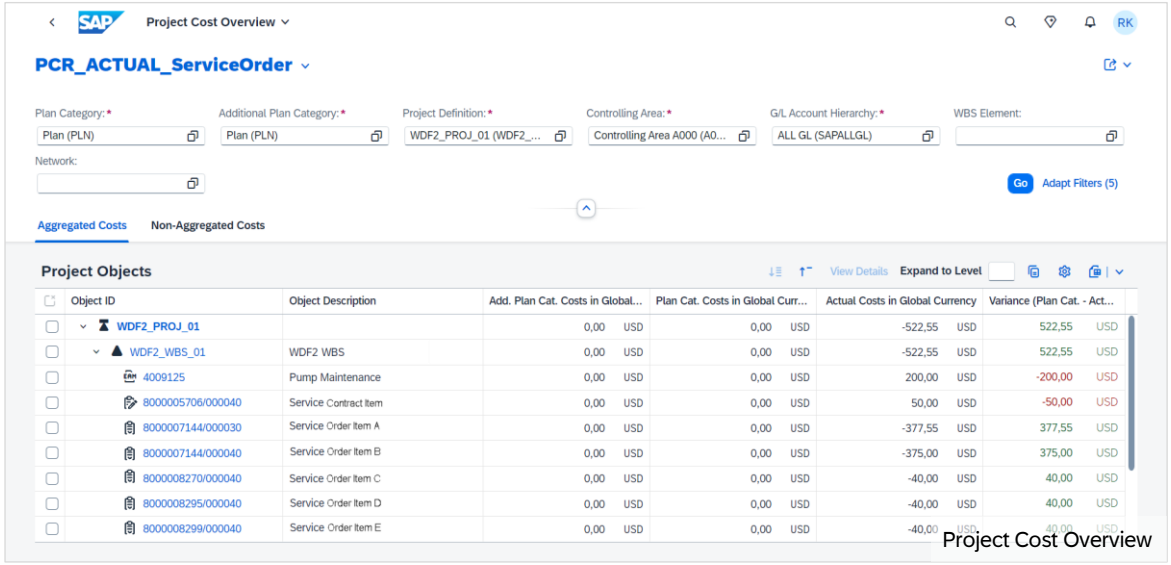
Solution

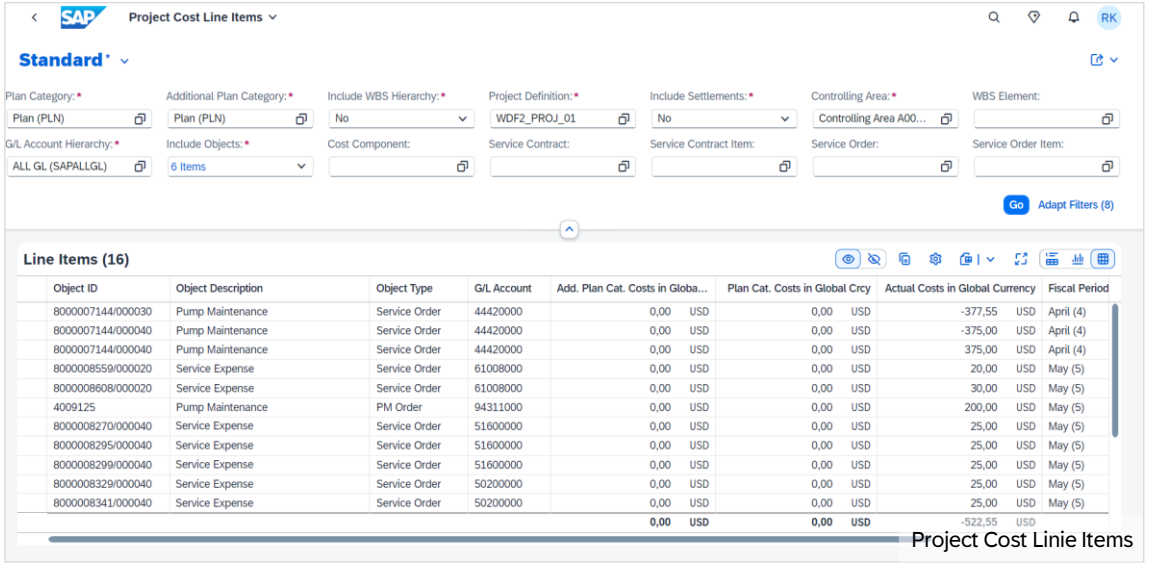
You can now define **qualifications** required to perform services specified in service transactions, such as **service orders**, **service quotations**, and **service order templates**.

Using this feature, you can ensure that the right service personnel are matched to the appropriate tasks to provide top-quality service.



Service and R&D: Services in the project-cost overview and line items





Challenge

Previously, it was not straightforward to use analytics Fiori apps to report planned and actual cost details of service order and service contract assigned to projects.

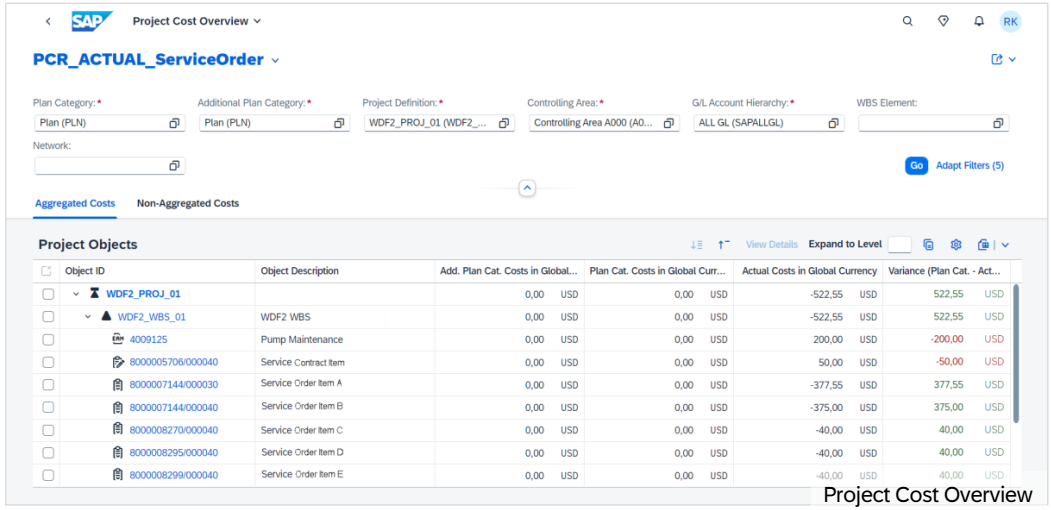
Solution

Project Cost Overview and Project Cost Line Items apps have been enhanced to support service orders and service contracts. You now have project cost and revenue transparency for your service business managed per project.

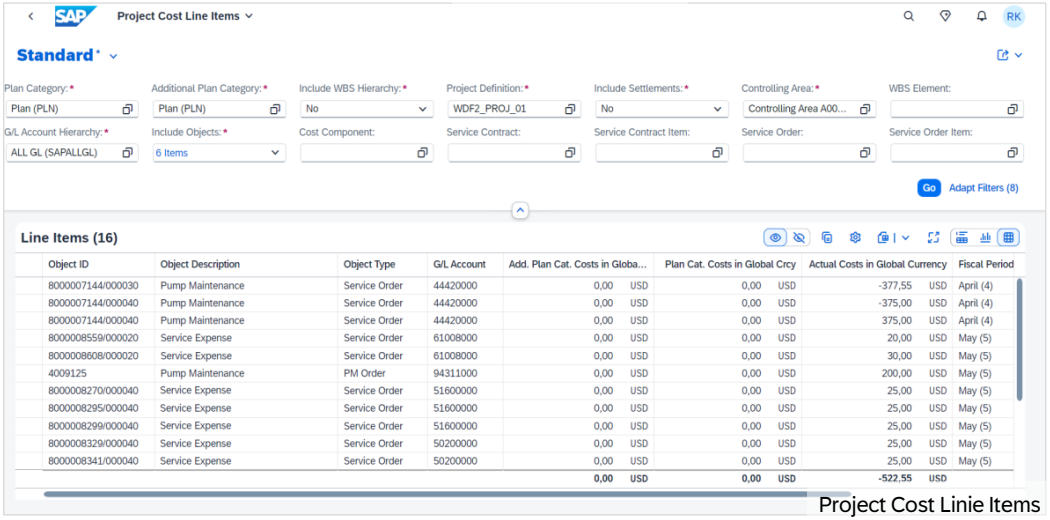
Service and R&D: Project Systems

Services in the project-cost overview and line items

- Project Cost Overview and Project Cost Line Items apps have been enhanced to support service orders and service contracts
- Enabling project cost and revenue transparency for the service business managed per project
- Inclusion of relevant filters at header level – e.g. service orders/contracts and item level – e.g. service item/contract items to facilitate easier navigation and access



Project Cost Overview

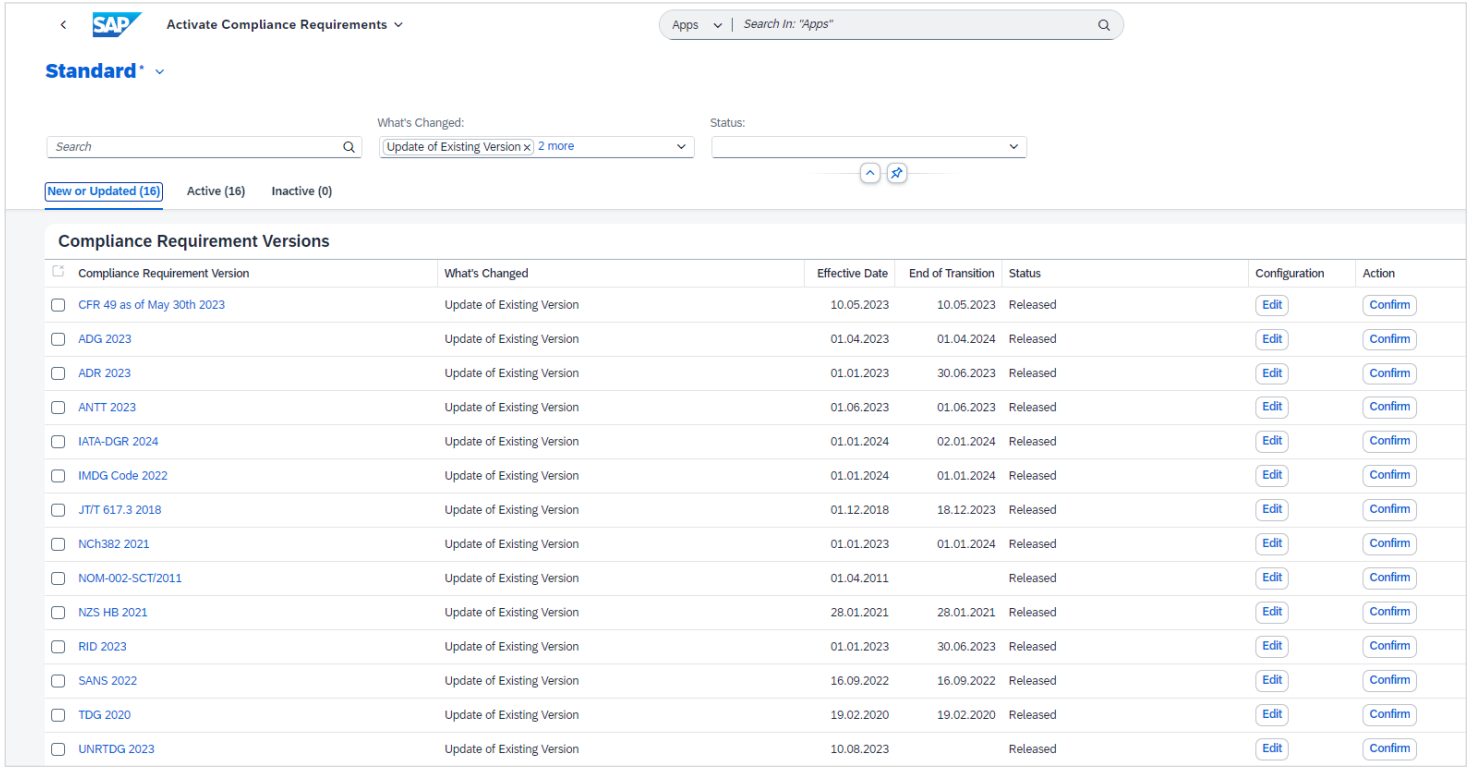


Project Cost Linie Items

R&D: Product Compliance

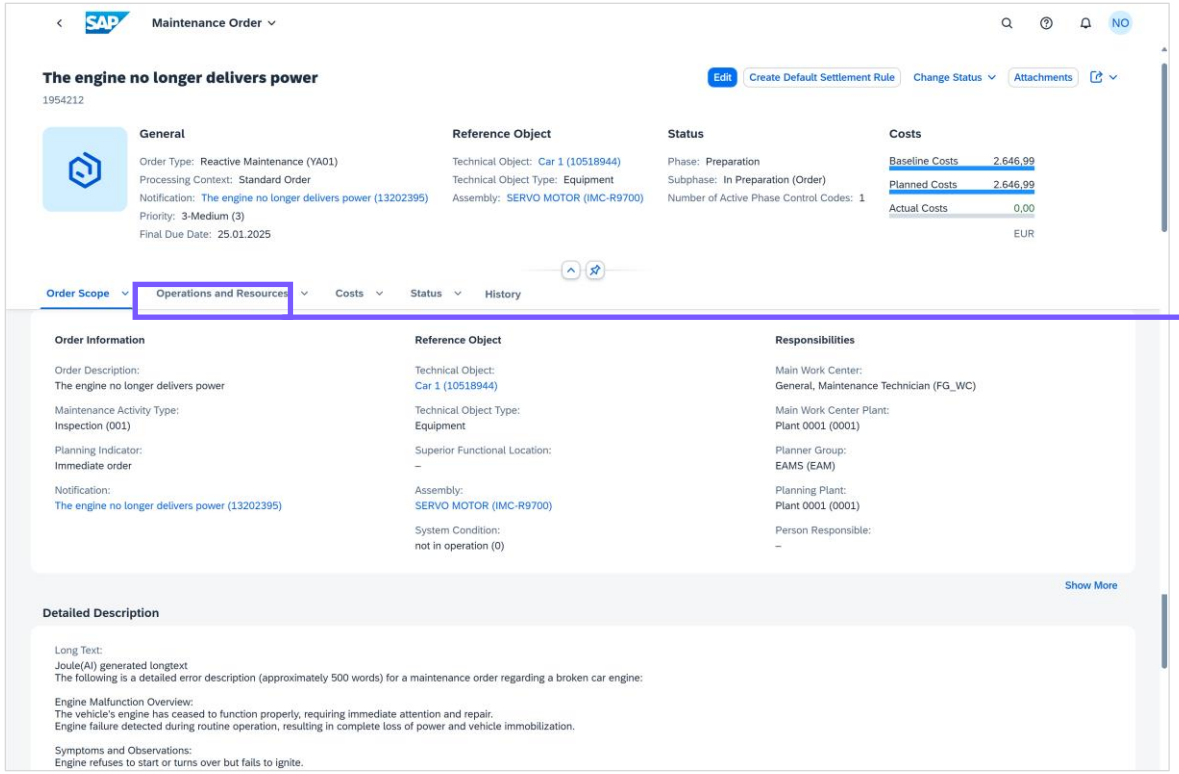
Delivery of Dangerous Goods Regulations via Content Service

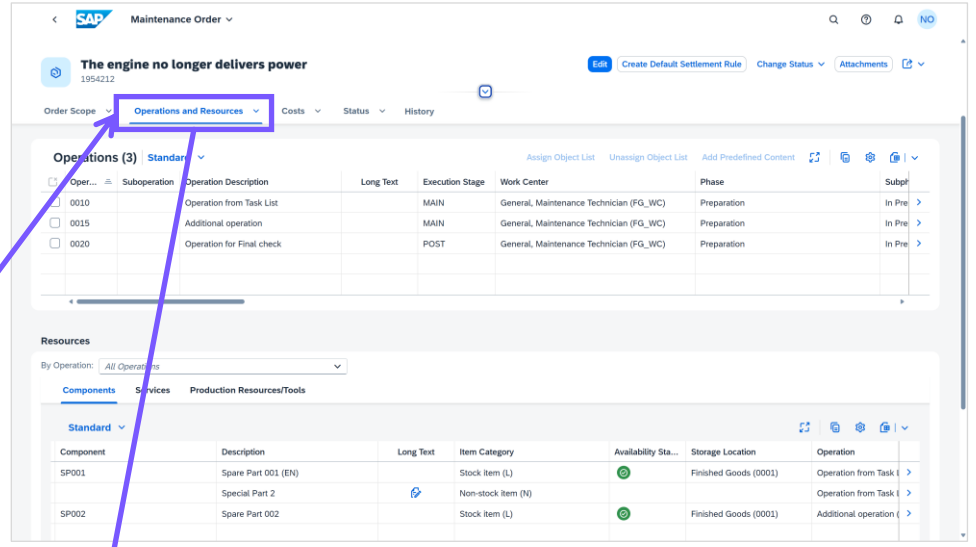
- Consume dangerous goods regulations, through a service interface with the regulatory content service, in SAP S/4HANA Cloud Private Edition and the SAP S/4HANA solution for product compliance
- Automate updates of dangerous goods regulations when regulatory changes and enhancements occur
- Allow users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

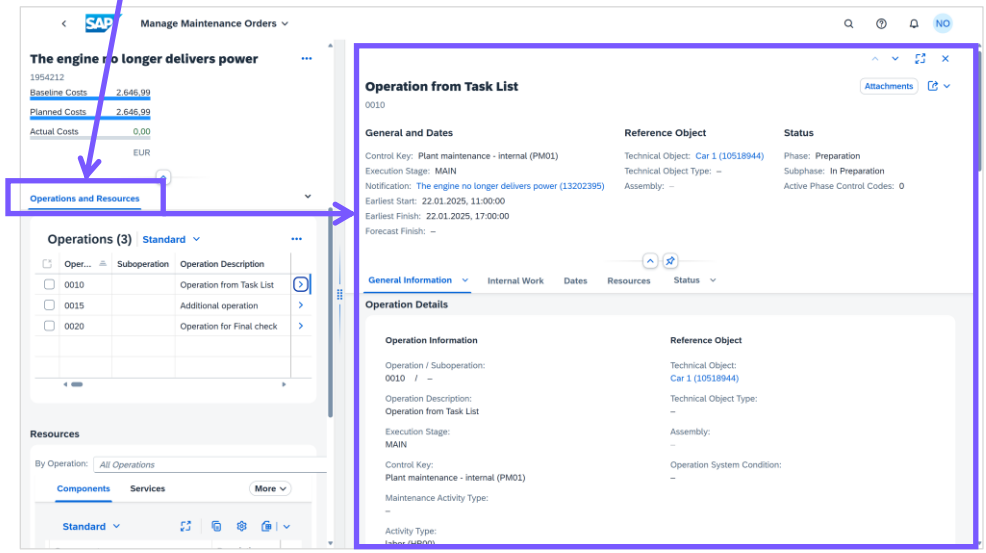


Activate Compliance Requirements

Asset Management: Manage Maintenance Orders App







Challenge

Up to 2023 FPS03, we did not have a Fiori app that can create, edit, and display maintenance orders creating inconsistent user experience.

Solution

With the new Manage Maintenance Orders App, you can display a comprehensive list view of maintenance orders, create maintenance orders and process individual orders.

Asset Management

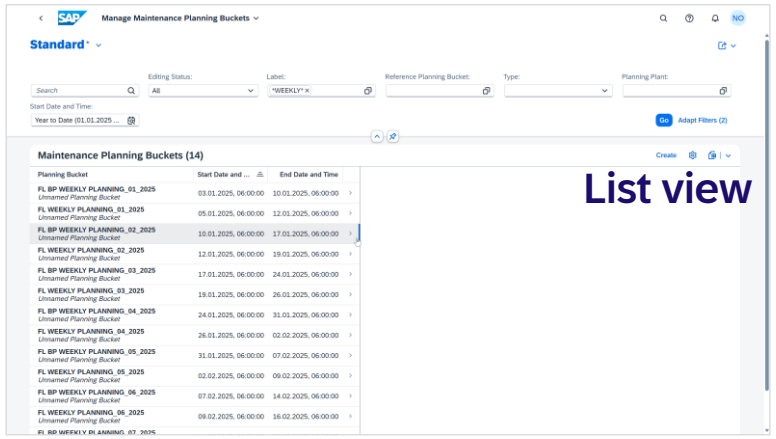
New, updated Manage Maintenance Planning Buckets app

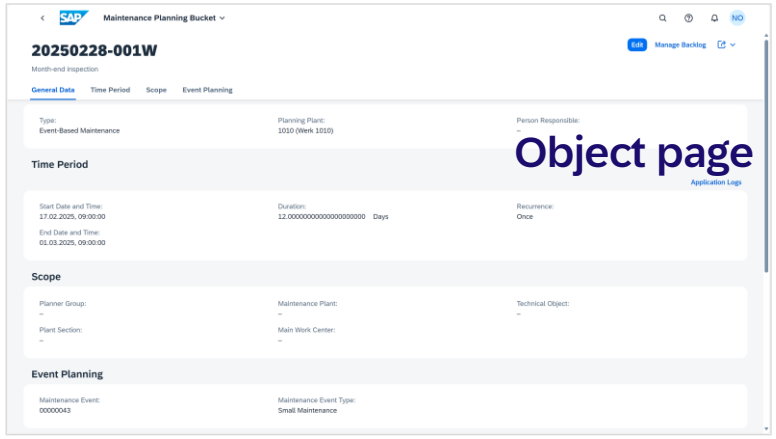
Enhancements new app for managing maintenance planning buckets

- Manage the life cycle of your planning buckets using system statuses.
- Assign maintenance orders and notifications to a maintenance event.
- Create comments for event-based planning buckets.
- Define available scope attributes in Customizing.

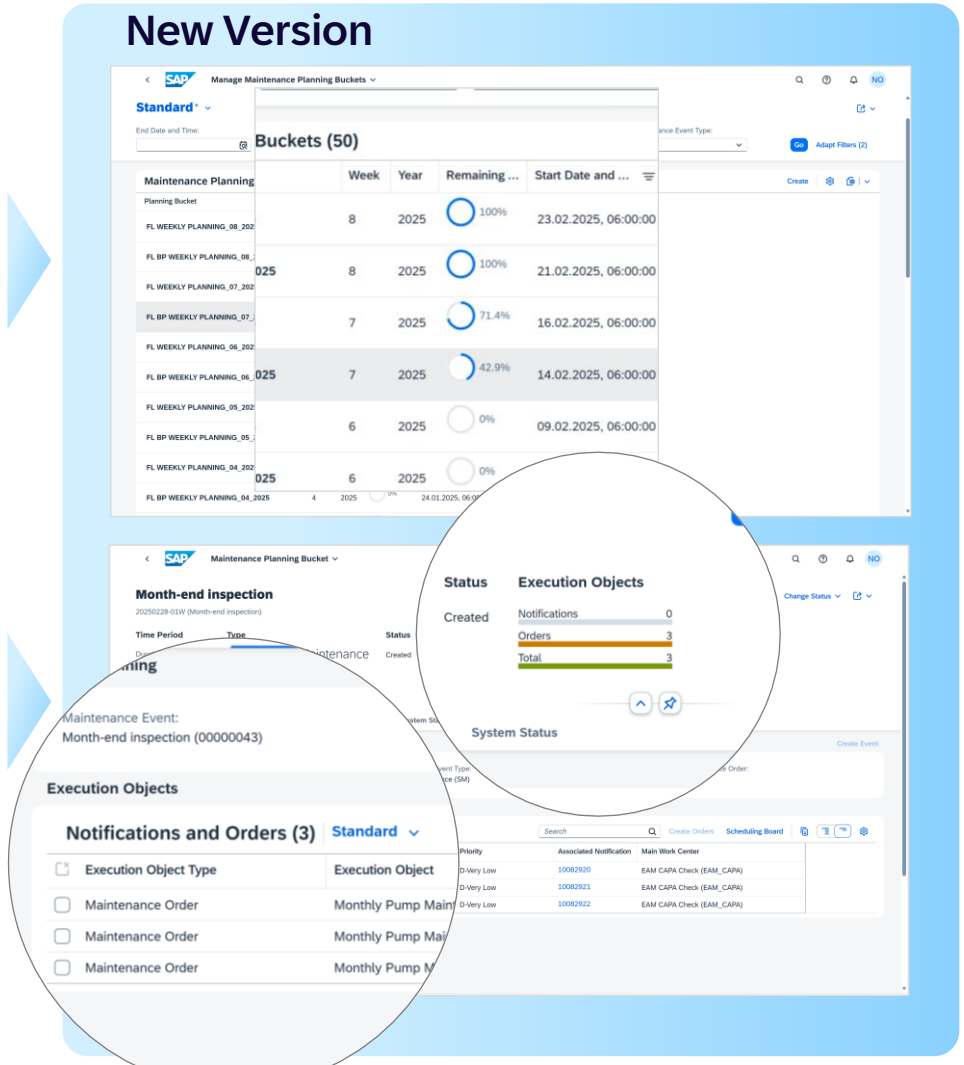
We recommend you use the new version, but you can still use the old version.

Version 1



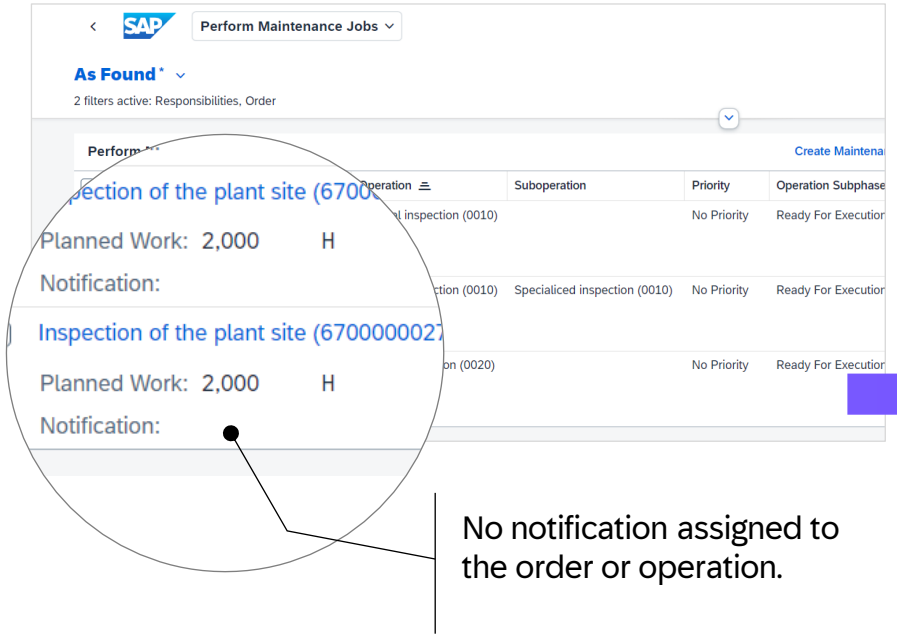


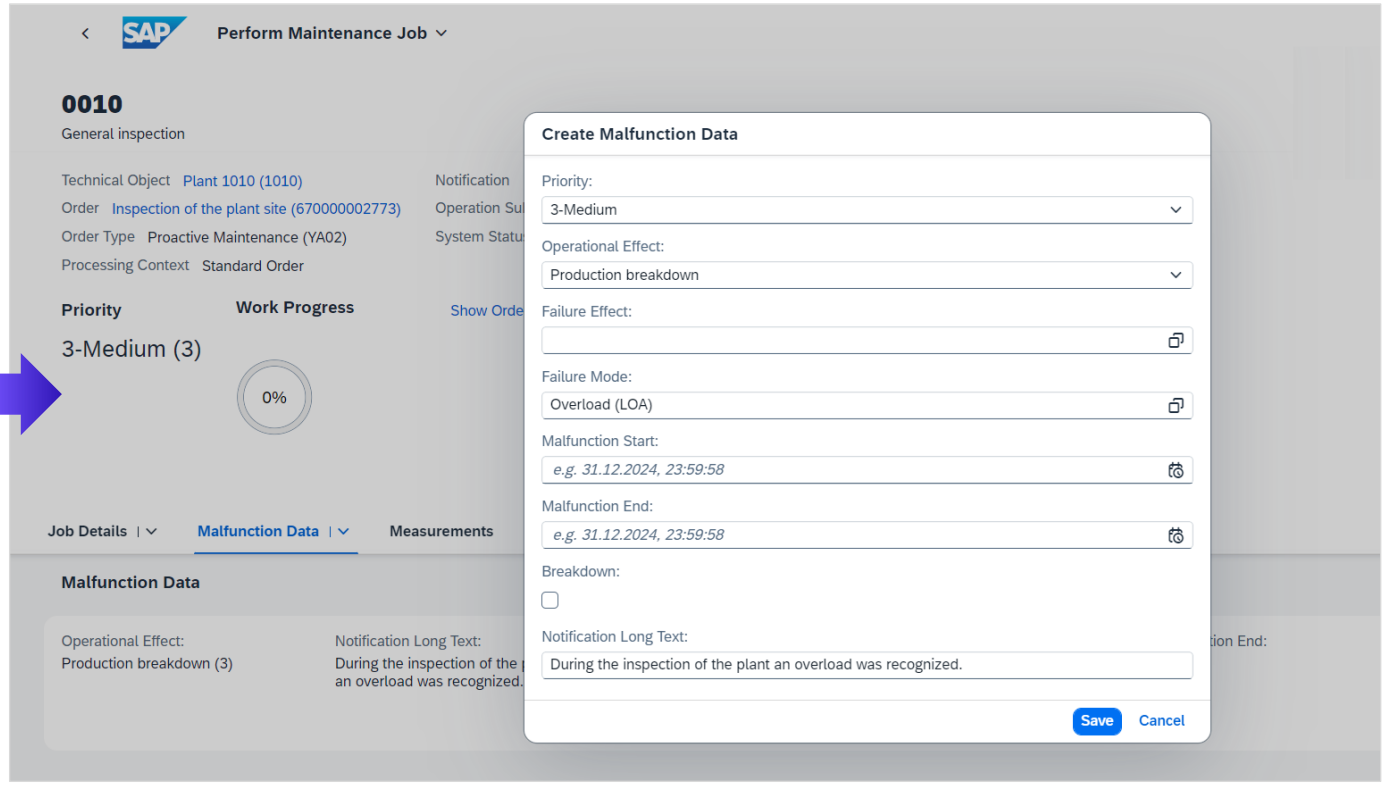
New Version



Asset Management: Performance Jobs app

“As-found” data recording when maintenance request is absent





Challenge

When a maintenance order is created for preventive maintenance or for an emergency, a maintenance request (notification) may be missing. However, the request contains the information about the malfunction or situation of equipment “as found”, which is an important operational data that should be fed back into continuous improvement cycle (e.g. for reliability centered maintenance).

Solution

Enable maintenance technicians to record malfunction data if no relevant notification exists for a job. In this case, the system creates a new notification

Agenda

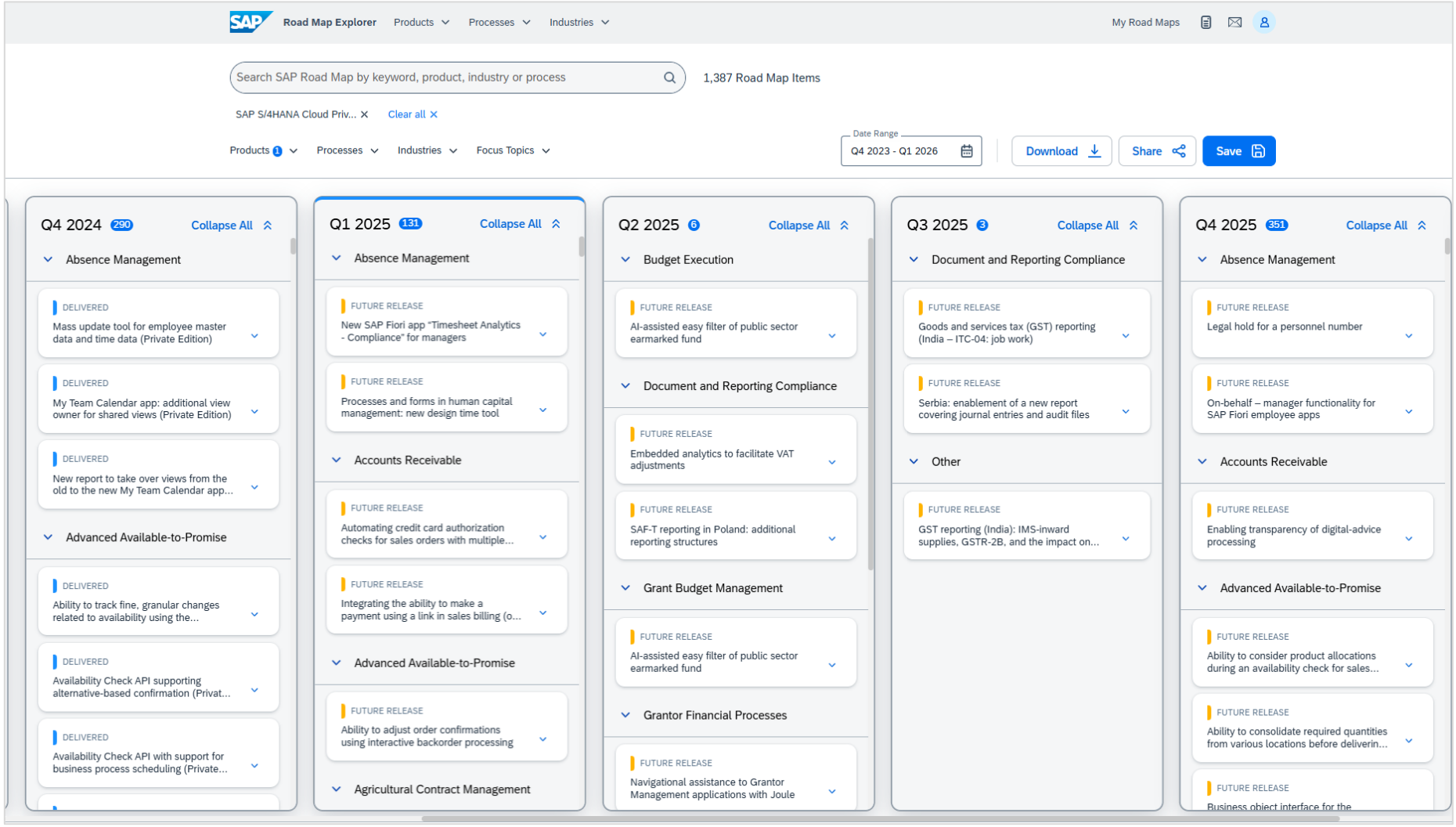
SAP S/4HANA Cloud Private Edition – a key component of SAP's strategy

Highlights of innovations for SAP S/4HANA Cloud Private Edition 2023 FPS03

Additional resources

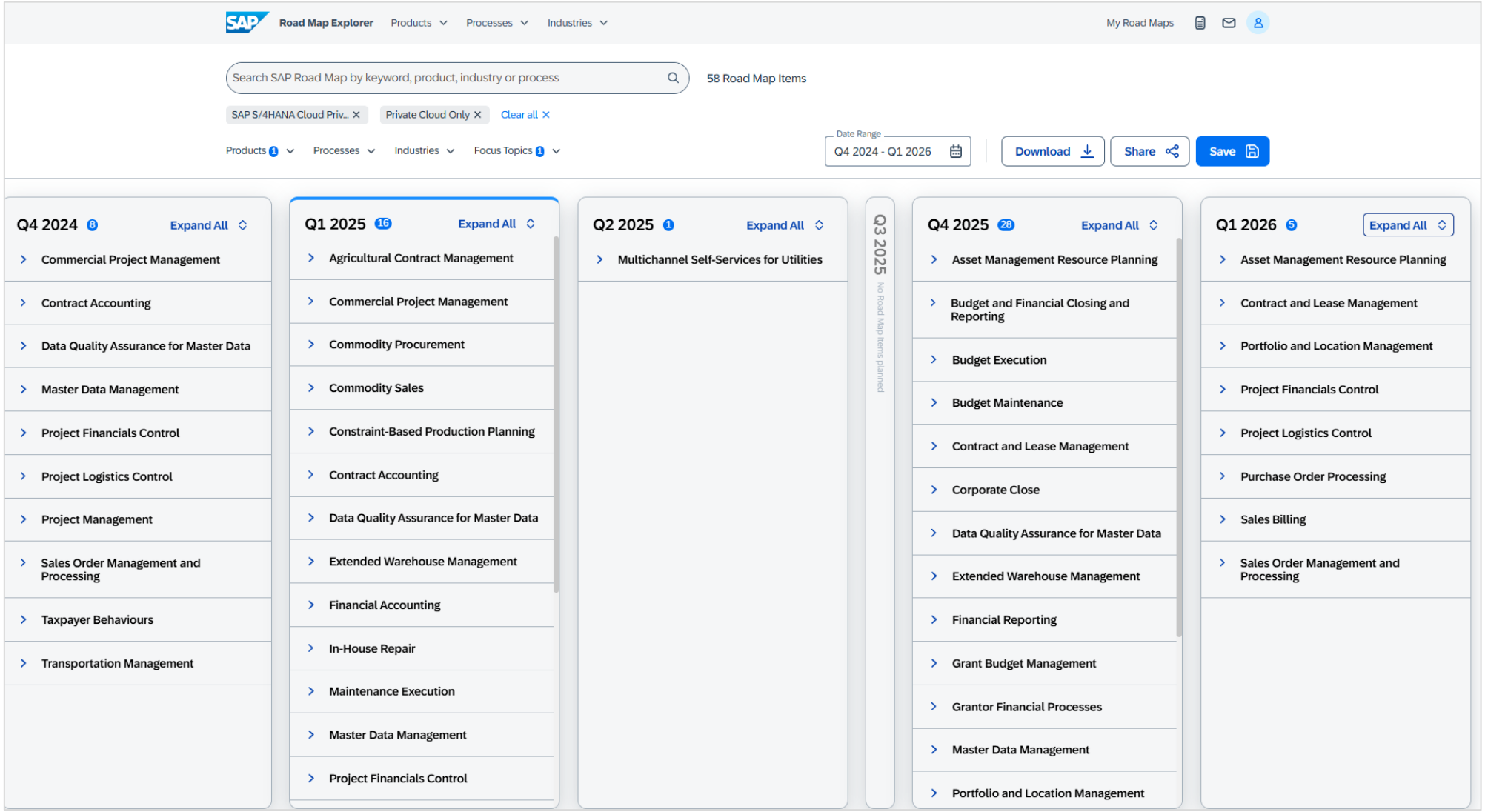
Road map subject to change

SAP S/4HANA Cloud Private Edition: Road map

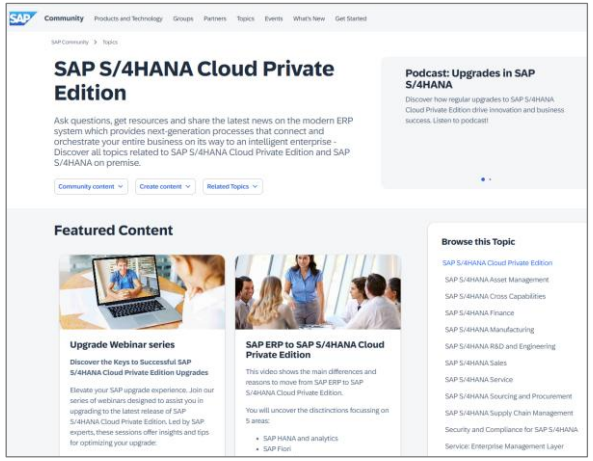


Road map subject to change

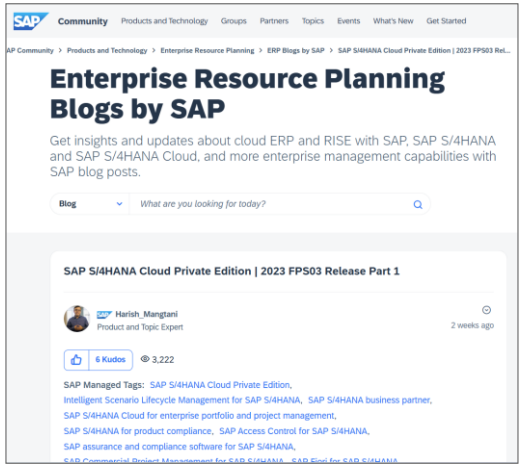
SAP S/4HANA Cloud Private Edition ONLY: Road map



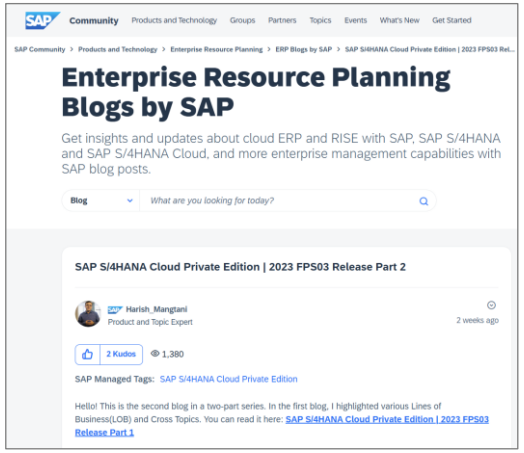
Additional information



[SAP Community for SAP S/4HANA Cloud Private Edition]



[SAP S/4HANA Cloud Private Edition 2023 FPS03 Blog – Part 1]



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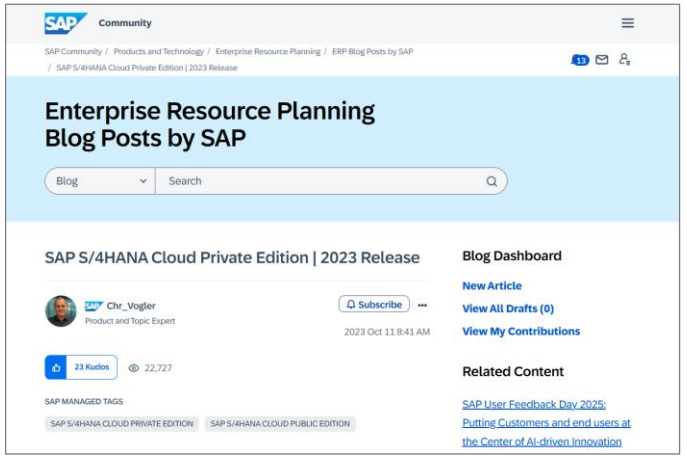

[SAP S/4HANA Cloud 2023 Collection Blog]

Additional information

Navigational and Transactional capabilities with Joule in SAP S/4HANA Cloud Private Edition

AI Functionality in SAP S/4HANA Cloud Private Edition

Thank you.

Contact information:

christine.hofmann@sap.com

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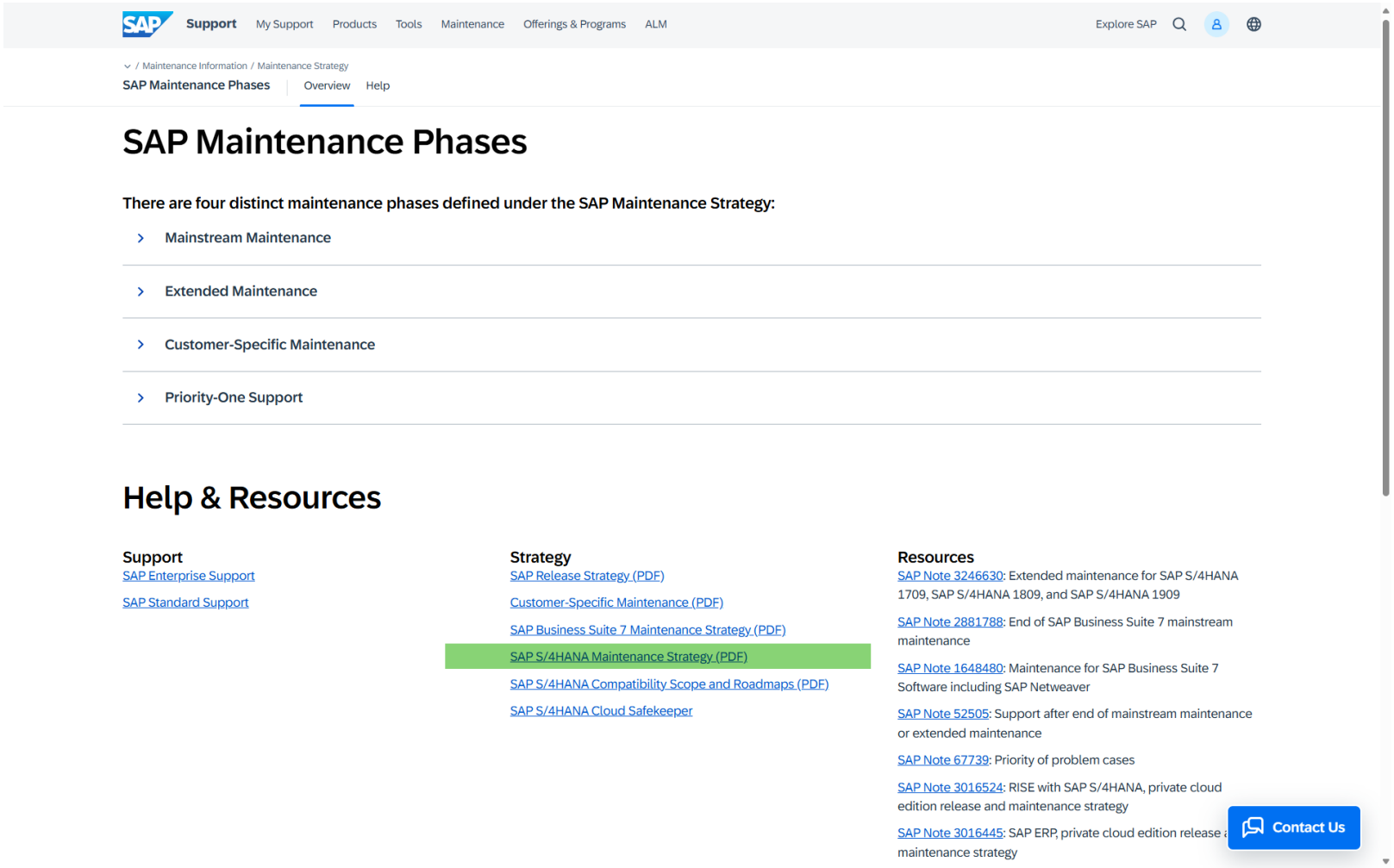
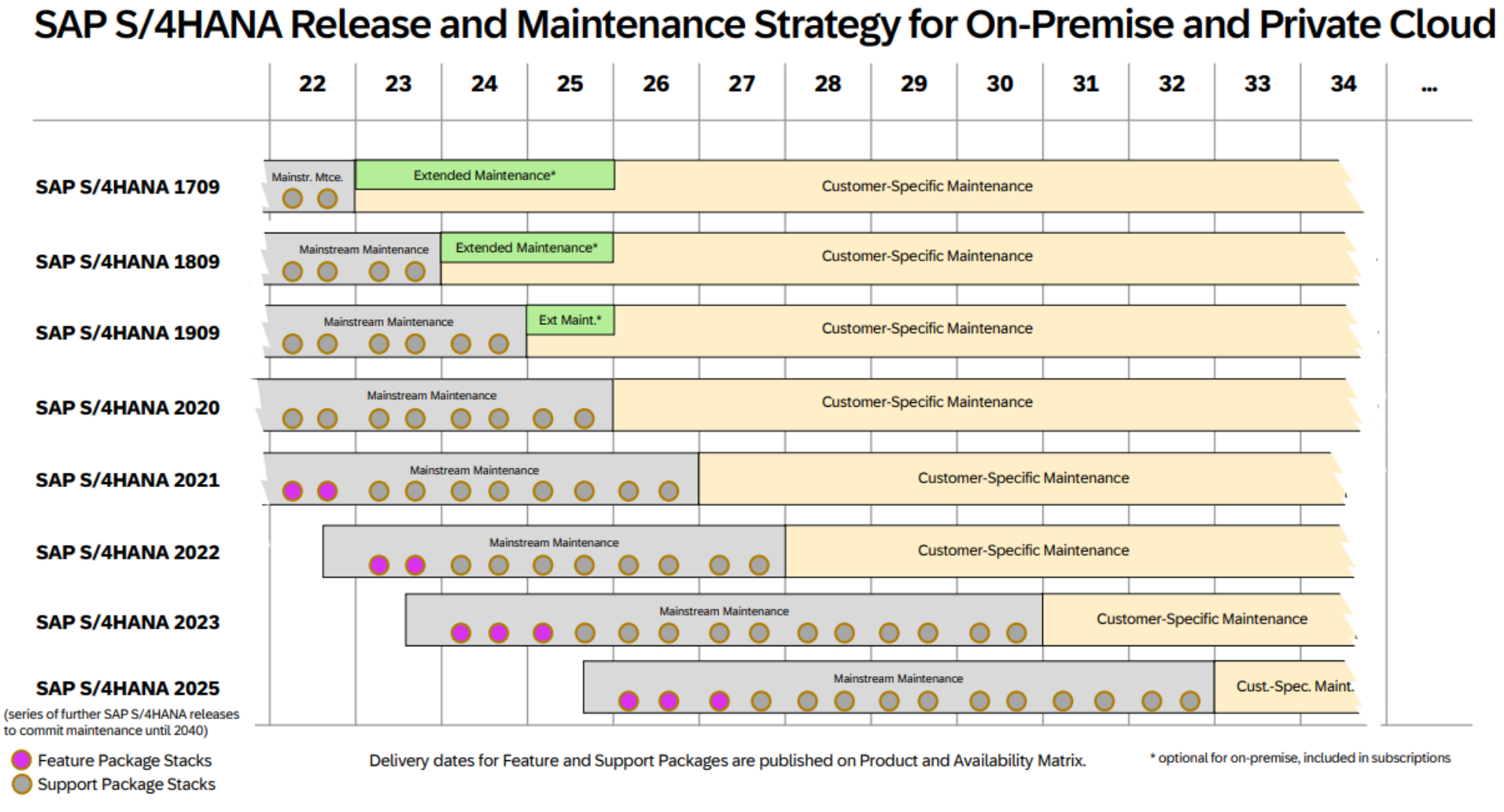
SAP Maintenance Phases



SAP S/4HANA Maintenance Strategy