

Presentatie
SAP S/4HANA Cloud, Public Edition,
en het
SAP Business Technology Platform
1 dec, 2022



YScheer

THE PROCESS EXPERTS

SAP S/4HANA Cloud,
public edition

Webinar Special

SAP S/4HANA Cloud, Public Edition, and SAP Technology Platform

Presenters

- Ferry Bogaards
- Bastijn Schenk
- Theo Bolta

Agenda

- Introduction S/4HANA Cloud, Public Edition
- Introduction SAP Business Technology Platform
- Customer Use cases with SAP BTP

The most experienced partner with SAP S/4HANA Cloud, Public Edition



SAP S/4HC & BTP Webinar

Thursday December 1st, 2022



Scheer
THE PROCESS EXPERTS

Ferry Bogaards
Managing Partner

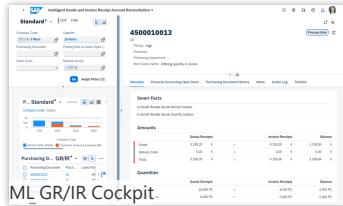
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Agenda Webinar

- Introduction S/4HANA Cloud, Public Edition & Business Technology Platform
- Customer Use cases

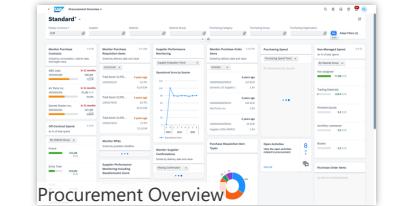
S/4HANA Cloud, Public Edition

Comprehensive end to end business processes delivered by preconfigured best-practices and industry-specific scenarios



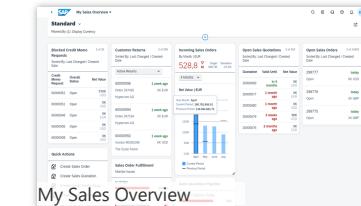
Finance

- Accounting and financial close
- Receivables and Payables mgmt.
- Cost mgmt. & profitability analysis
- Treasury & working capital mgmt.
- Governance Risk and Compliance



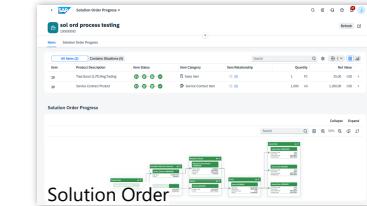
Procurement

- Procurement of direct materials and services
- Supplier management
- Central procurement



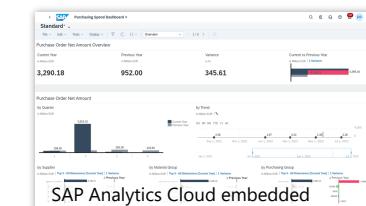
Sales

- Sell, deliver, bill, and monitor a combination of physical goods and services as one solution offering
- Sell from Stock & Sell Services
- Convergent & External Billing



Service

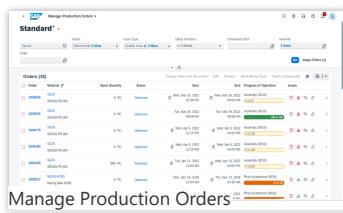
- After-sales services with service contracts, service deliveries, and billing with cost controlling and revenue recognitions
- Combine sales & services as packaged solution offerings



Industry capabilities

- Professional services
- Public sector
- Higher education
- Media
- Financial services

SAP S/4HANA Cloud, public edition



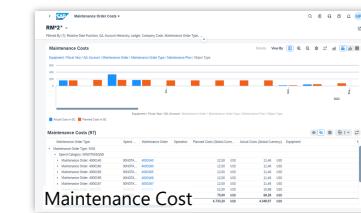
Manufacturing

- Material requirements planning with demand driven and/or predictive MRP
- Make to stock and make to order
- Quality management
- Environment, Health and Safety



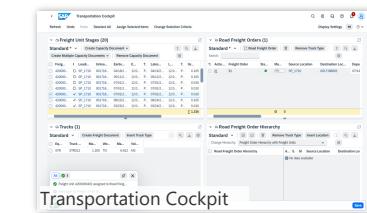
R&D

- Product compliance
- Enterprise portfolio and project management
- Advanced Variant configuration



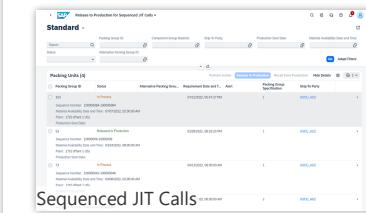
Asset management

- Reactive and proactive maintenance
- Resource scheduling for maintenance planner
- Enhanced collaboration and review



Supply chain

- Warehouse Outbound & Inbound Processing
- Core Inventory Management
- (Advanced) ATP Processing
- Basic Transportation Mgmt.

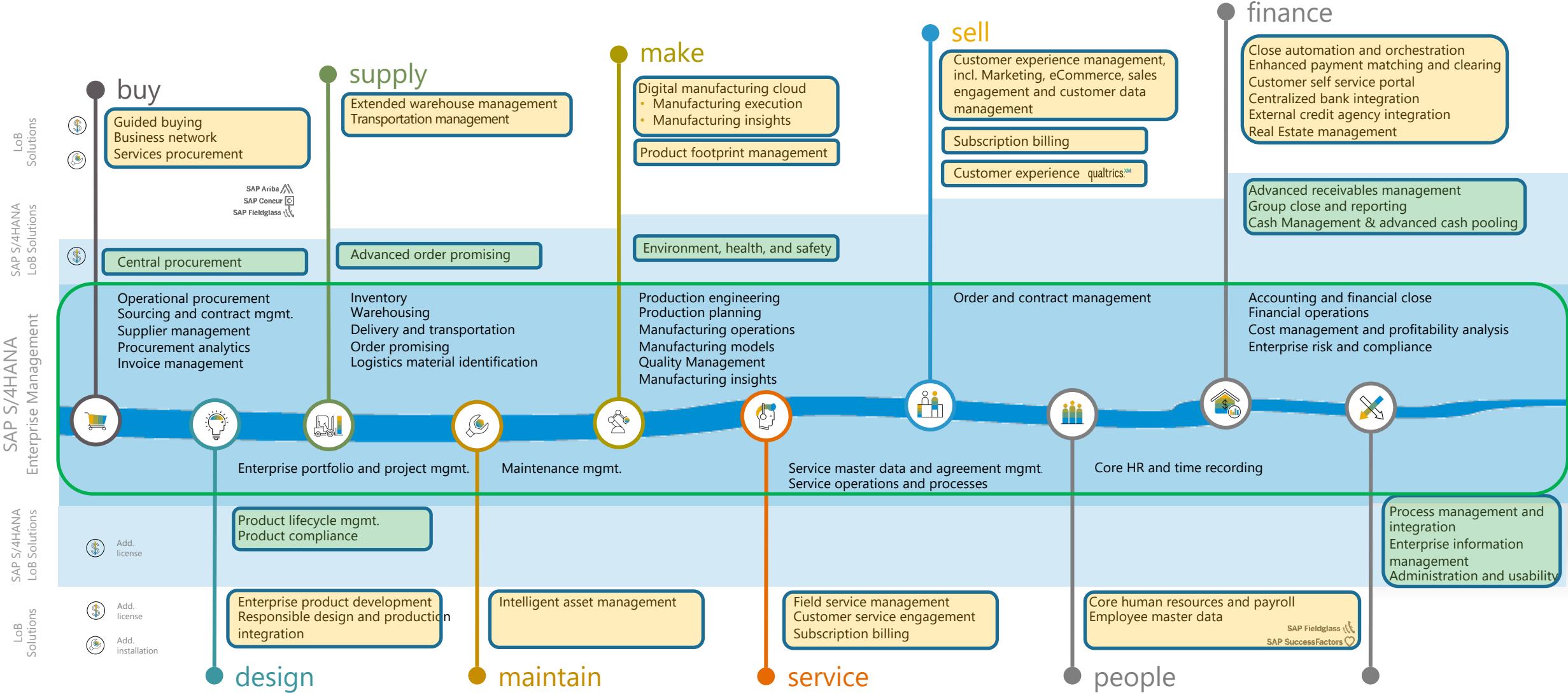


Industry capabilities

- Component manufacturing
- Hi-tech
- Automotive
- Mining services

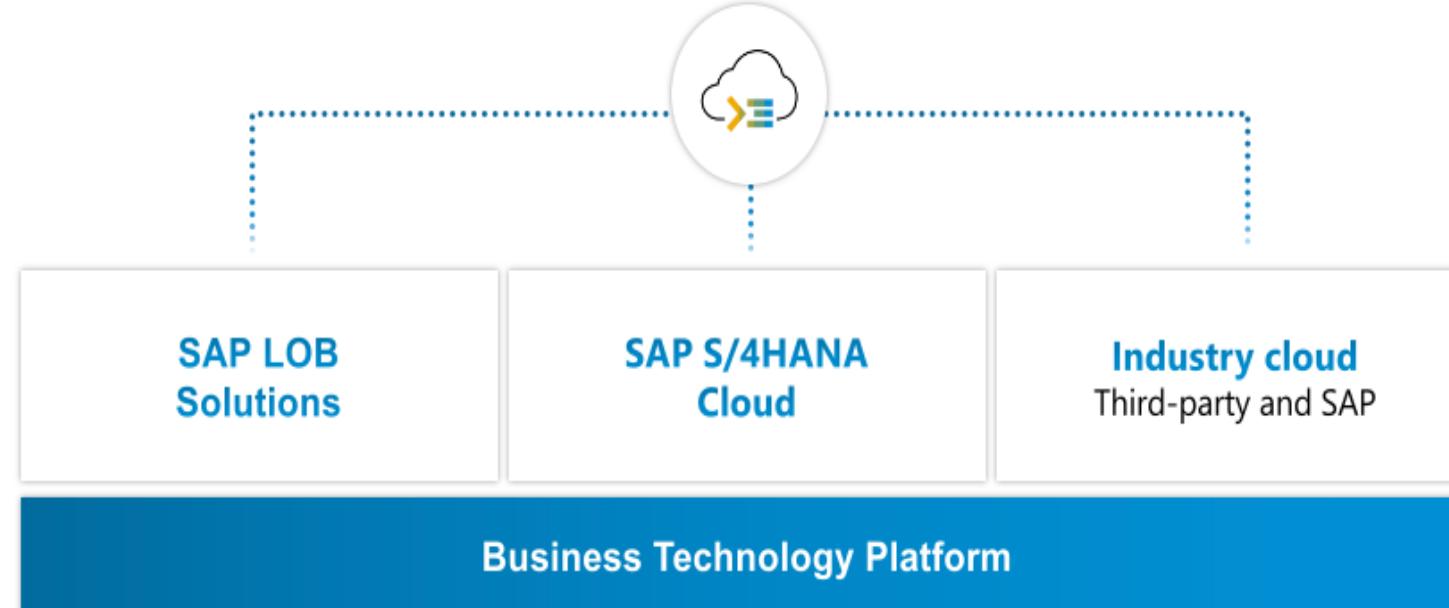
SAP S/4HANA Cloud Modular Application Portfolio (MAP)

– Functional Scope



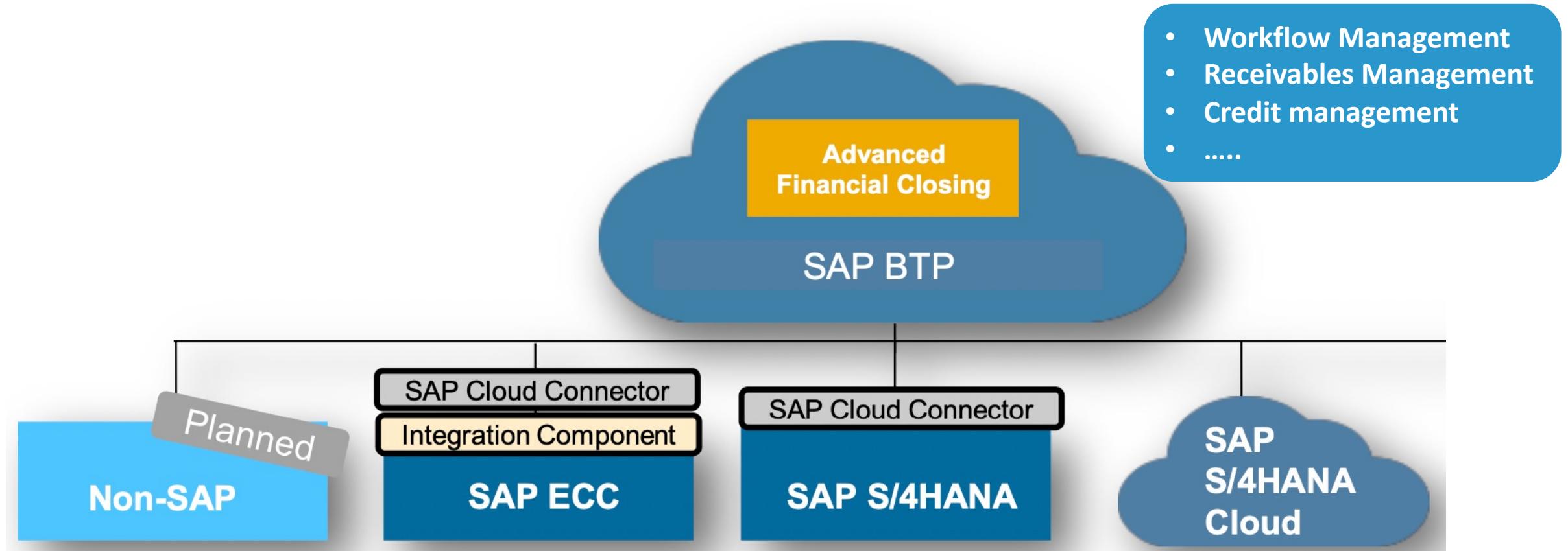
S/4HANA Cloud and SAP Business Technology Platform

Agile, modular architecture providing... ... solutions for business agility and regulatory compliance



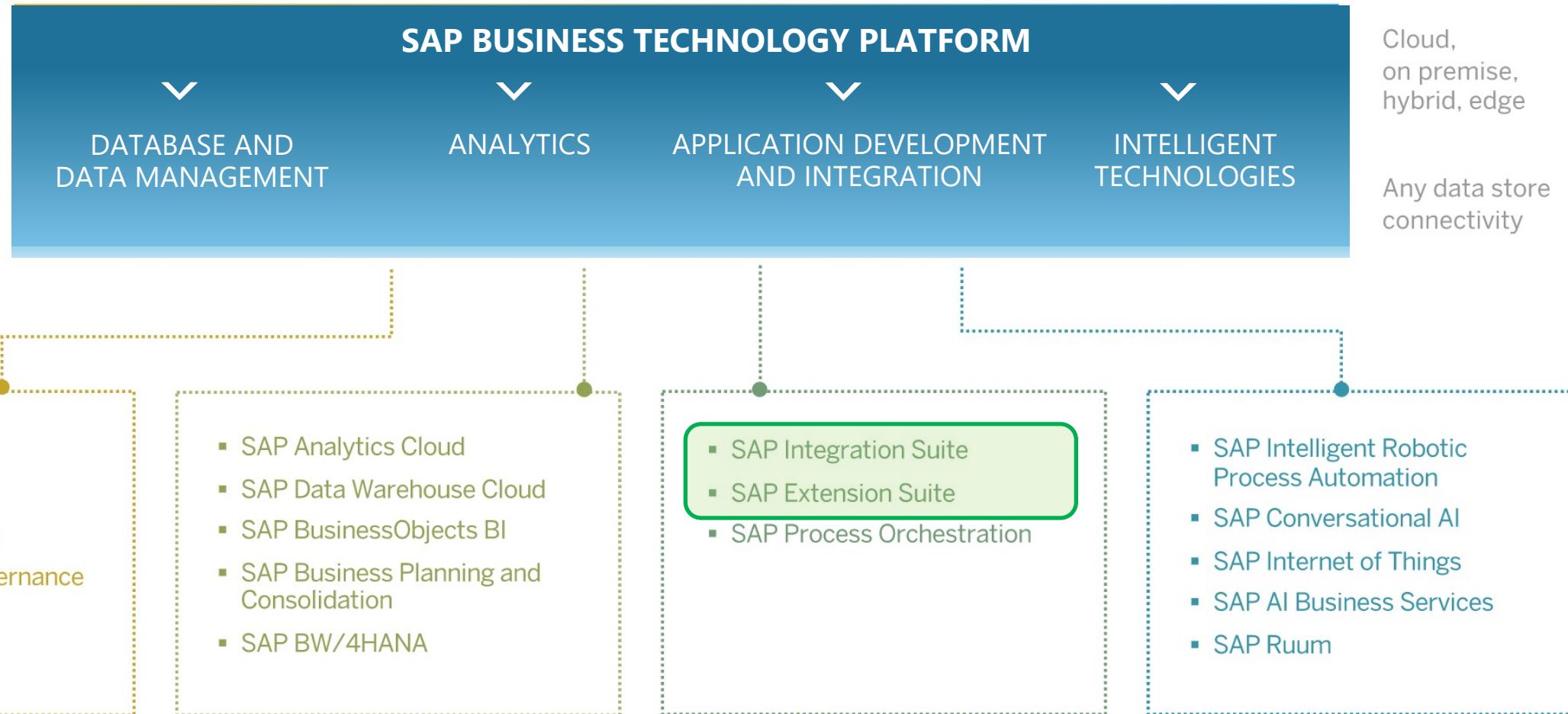
- **Integrate** out-of-the box into complementary SAP solutions to cover business processes end-to-end
- **Connect** to business partners by seamlessly joining SAPs Business Network via out-of-the box integration
- **Specialize** with the growing portfolio of SAP and partner-developed Industry Cloud Solutions
- **Adapt** the system to custom needs instantly by adding custom elements to existing apps
- **Enhance** processes by developing and implementing custom logic in-stack
- **Consume** platform services and custom extensions from SAP BTP to keep the core clean

BTP - Central hub for intelligent Services



Open runtime
Open API
Open environment

Foundational services



SAP Integration Suite

 [See all Integration services in the Discovery Center](#)

 **SAP Customer Experience**

 **SAP S/4HANA® Cloud**

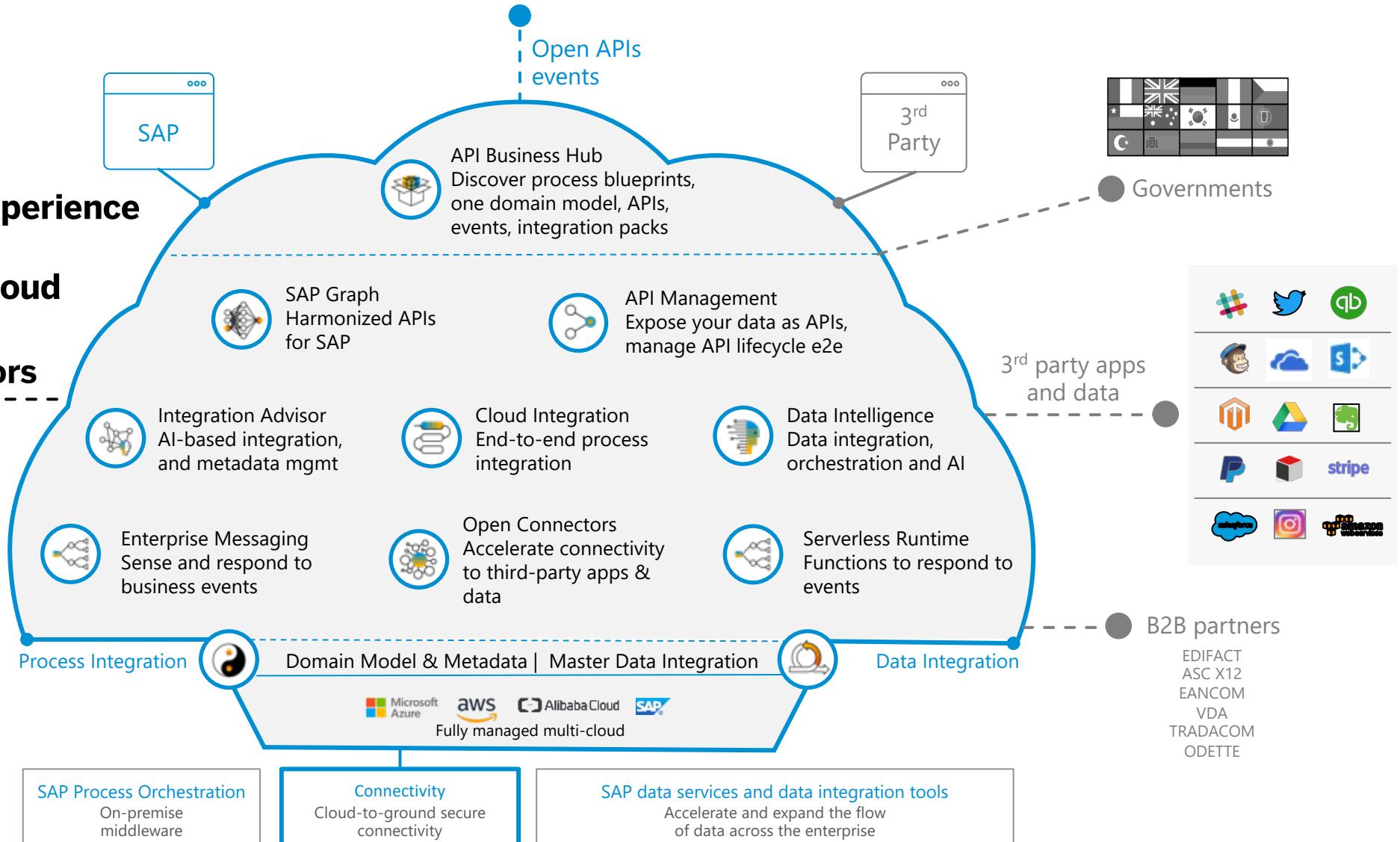
 **SAP SuccessFactors**

 **SAP Ariba**

 **SAP Fieldglass**

 **SAP Concur**

 **More**



Accelerate Integration with 2400+ Pre-Built SAP and Non-SAP Integrations

SAP Customer Experience Magento Shopify

Amazon Services HubSpot Zoho Marketo

Salesforce Sales Cloud Zendesk NetSuite

SAP Ariba GEP Coupa

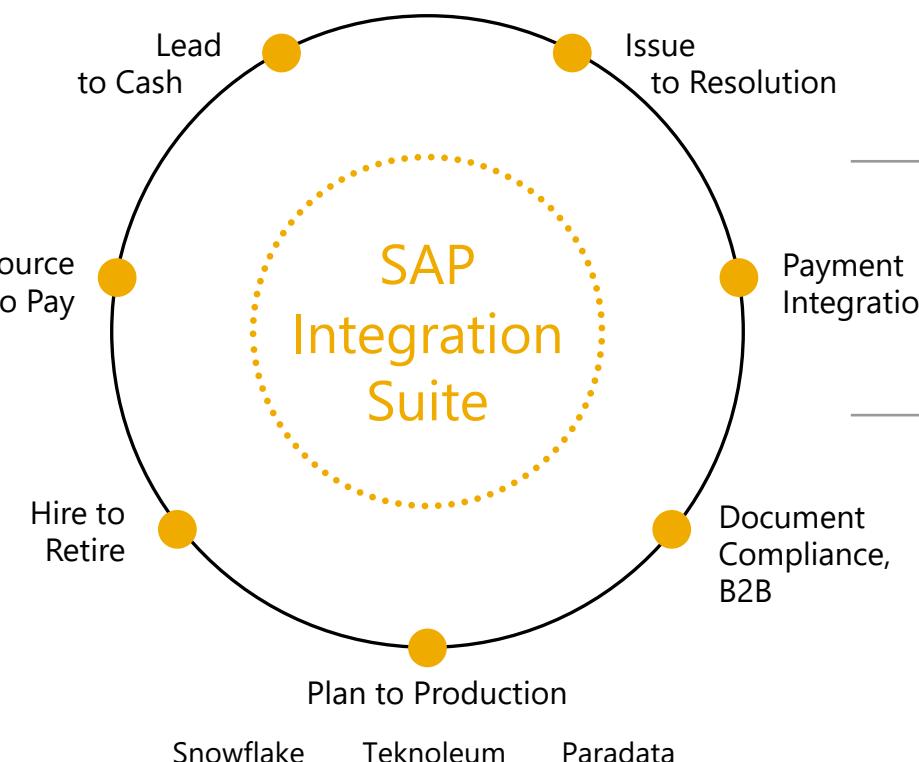
Blue Yonder Mercateo

SAP SuccessFactors SAP Concur SAP Fieldglass

Kronos Automatic Data Processing (ADP) Workday

Alight Oracle Human Capital Management LinkedIn

Fully maintained and updated by SAP
2,400+ Prebuilt integrations **170+** Business events



SAP Customer Experience Jira ServiceNow

Salesforce Service Cloud Freshdesk ServiceMax

QuickBooks FreshBooks Vertex

Tipalti Microsoft Dynamics Sage

DocuSign Adobe Sign



UN/EDIFACT

UNECE ASCX12

SAP Extension Suite

Comprehensive extensibility capabilities to allow cloud lifecycle compliant innovation and differentiation whilst retaining the benefits of a clean digital core.



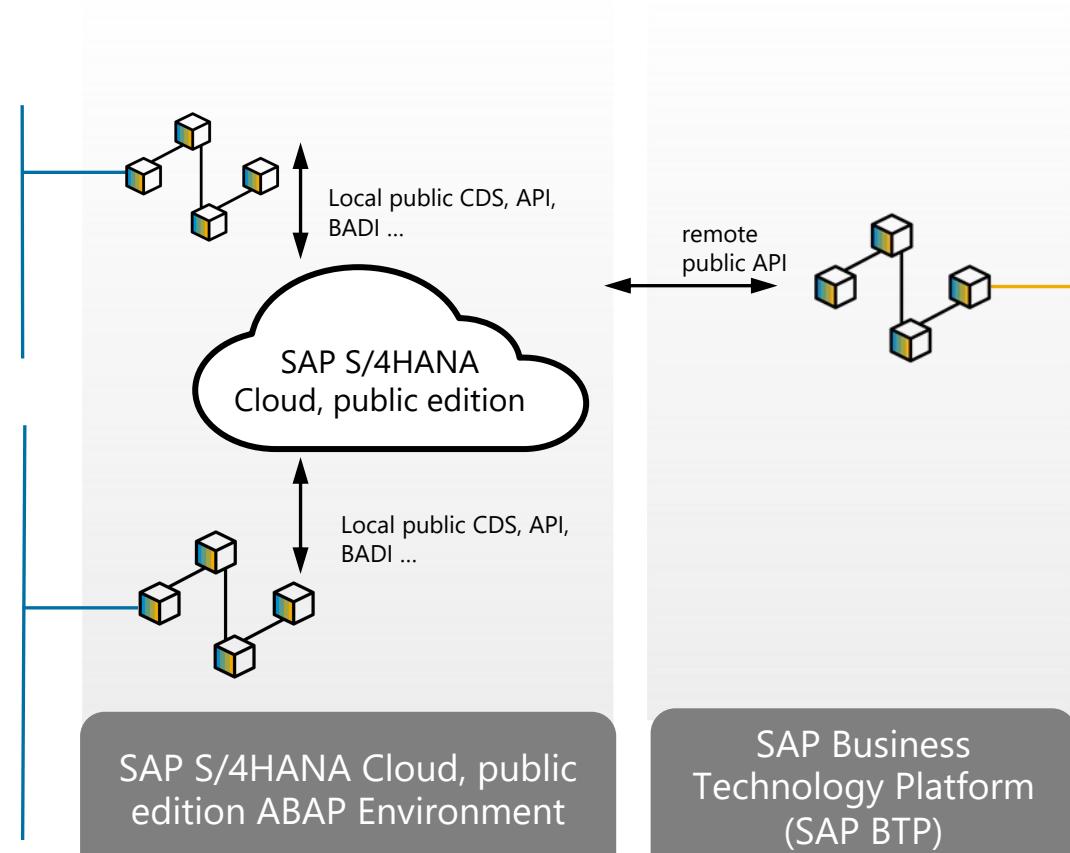
Key User Extensibility

- UI field layout, custom forms and templates
- Custom analytics via CDS views
- Custom Business Objects
- Custom business logic using Cloud BADI



Developer Extensibility¹

- Develop custom ABAP code
- Extensions of SAP S/4HANA Cloud solutions
- Partner extensions
- Directly on SAP S/4HANA stack



EXTENSIBILITY INTEGRATED IN SAP S/4HANA CLOUD, public edition

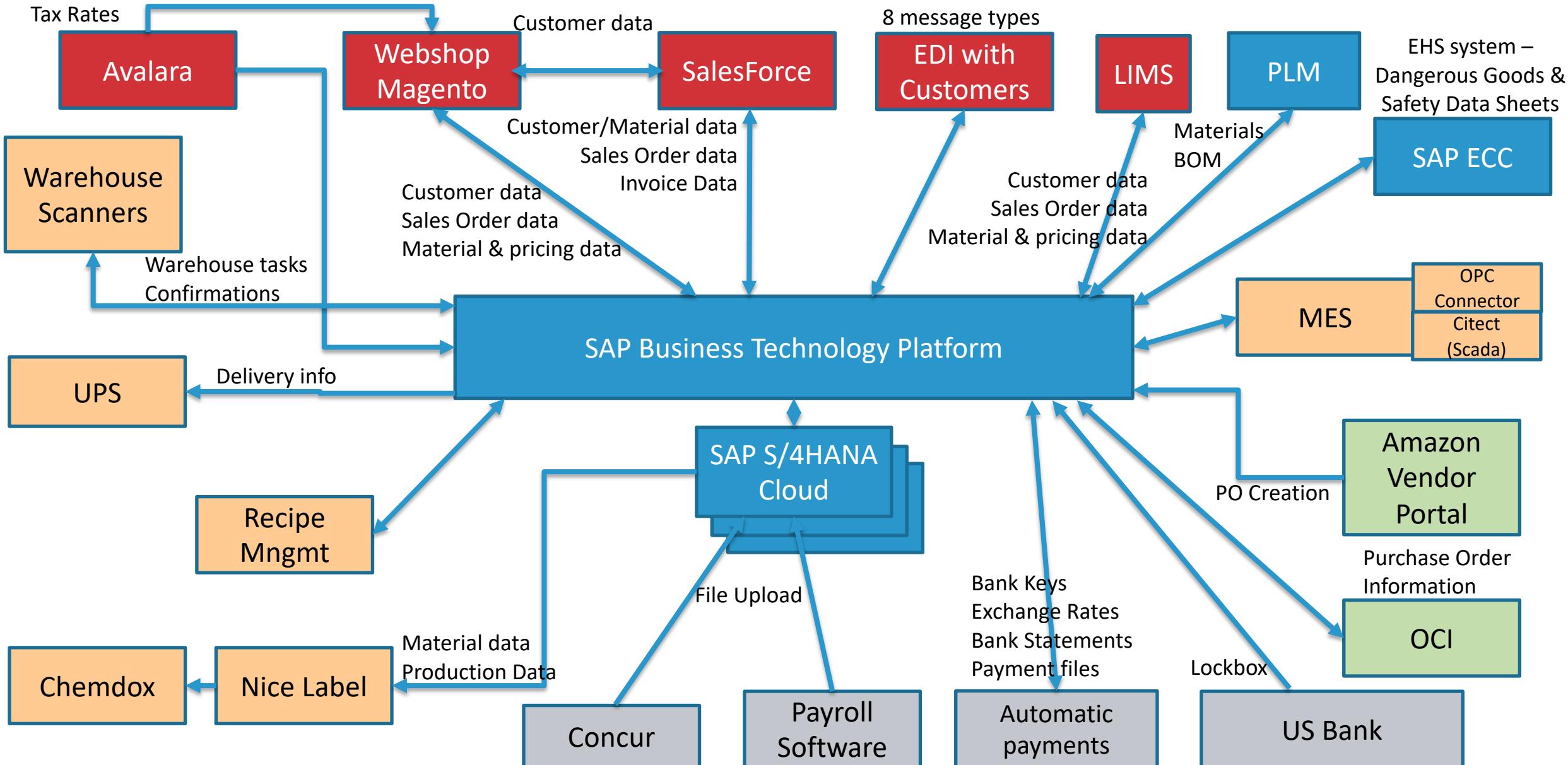
SIDE-BY-SIDE EXTENSIBILITY

¹ Only available for customers who use a 3-system landscape. Please contact your SAP Account Executive for more details.

Customer Use Case - Integration



Overview of live Interfaces today!



Customer Use Case BTP

Fit to standard implementation.

Problem Statement:

Change Bill of Material based on standard rules not possible in standard SAP.

Wish business:

- Explode ingredients B.o.M. (SF) < volume into B.o.M. FG.
- Change Bill of Material ingredients / dosing locations to optimize the Bill of Material per finished product.

Benefits:

- Automate change of packaging size / dosing location ingredients instead of changing by hand.
- Purchasing can react earlier on changed materials.
- Below a certain volume not efficient to produce a semi-finished.

Impact if not implemented

- More changes by hand or reduce productivity in the factory.

Bill of Material without Business Rules

ACR0158Z20

General Information Components

Components

Components (7)

Material	Requirement Quantity	Storage Location
Eckhardt Topmilk (ACR0158000)	4.000,000	KG
Liver Flavour Optomizor Dry I, (5062919BLK)	1.892,160	KG Silo 100 (SI01)
Salt (Bulk) (5063183BLK)	1.907,840	KG Silo 100 (SI01)
#IT PP Rundvee Koenis 1% (ACPPR15Z25)	200,000	KG Hal 1 (SL01)
Vpbom Blanco45 20kg (BLA4020000)	4	PC
Blanco Papier 40x67x11 (ACVP000007)	200	PC Hal 1 (SL01)
#IT Sticker (ACVP100089)	200	PC

Bill of Material with Business Rules

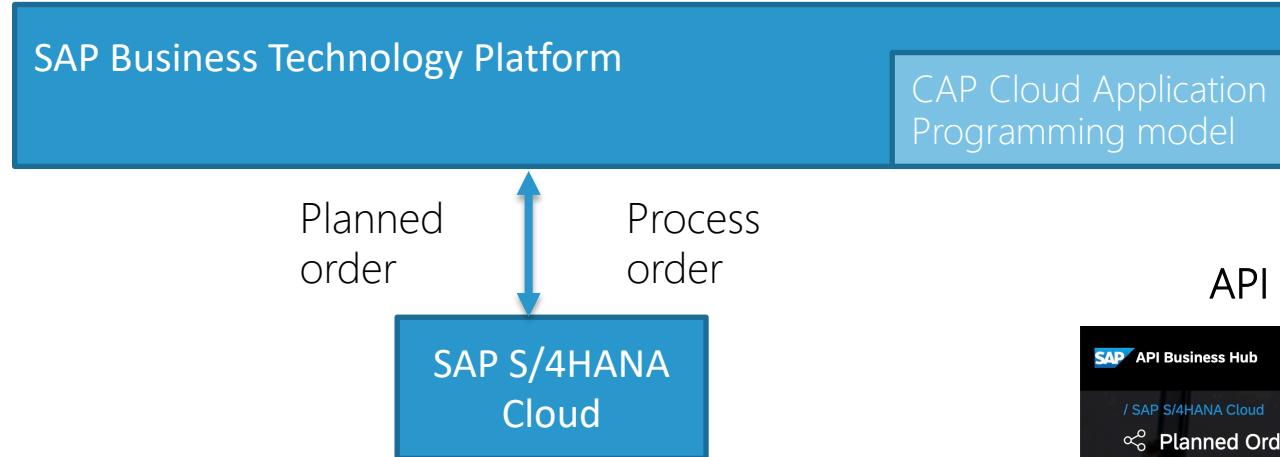
1001806

Order Information Other Manufactured Products Long Text Order Schedule

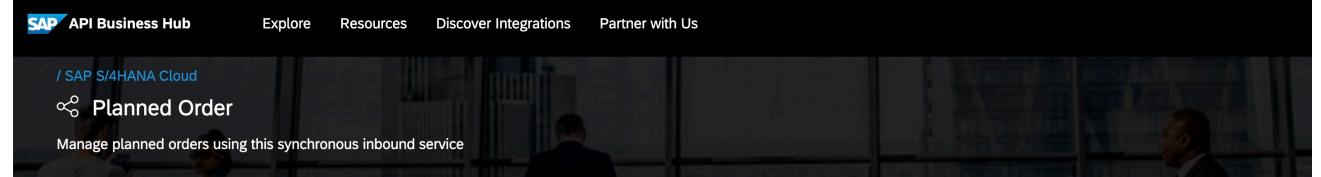
Components (11) All Missing

Component	Required Quantity	Storage Location
5062919BLK	1.959,892	KG SI03 Silo 300
5063183BLK	1.907,840	KG SI13 DW13
ACVP000007	200	PC SL01 Hal 1 SL01
ACVP100089	200	PC
5016055BLK	2,000	KG SB24 Bunker 24
5068010BLK	1,682	KG SB24 Bunker 24
5063753BAG	55,486	KG SL05 Zolder
5063478BAG	39,314	KG SL05 Zolder
5063582BAG	22,630	KG SL05 Zolder
5061469BAG	7,600	KG SL06 Kelder
5060084BAG	3,556	KG SL06 Kelder

Technical solution Business Rules to keep the core clean



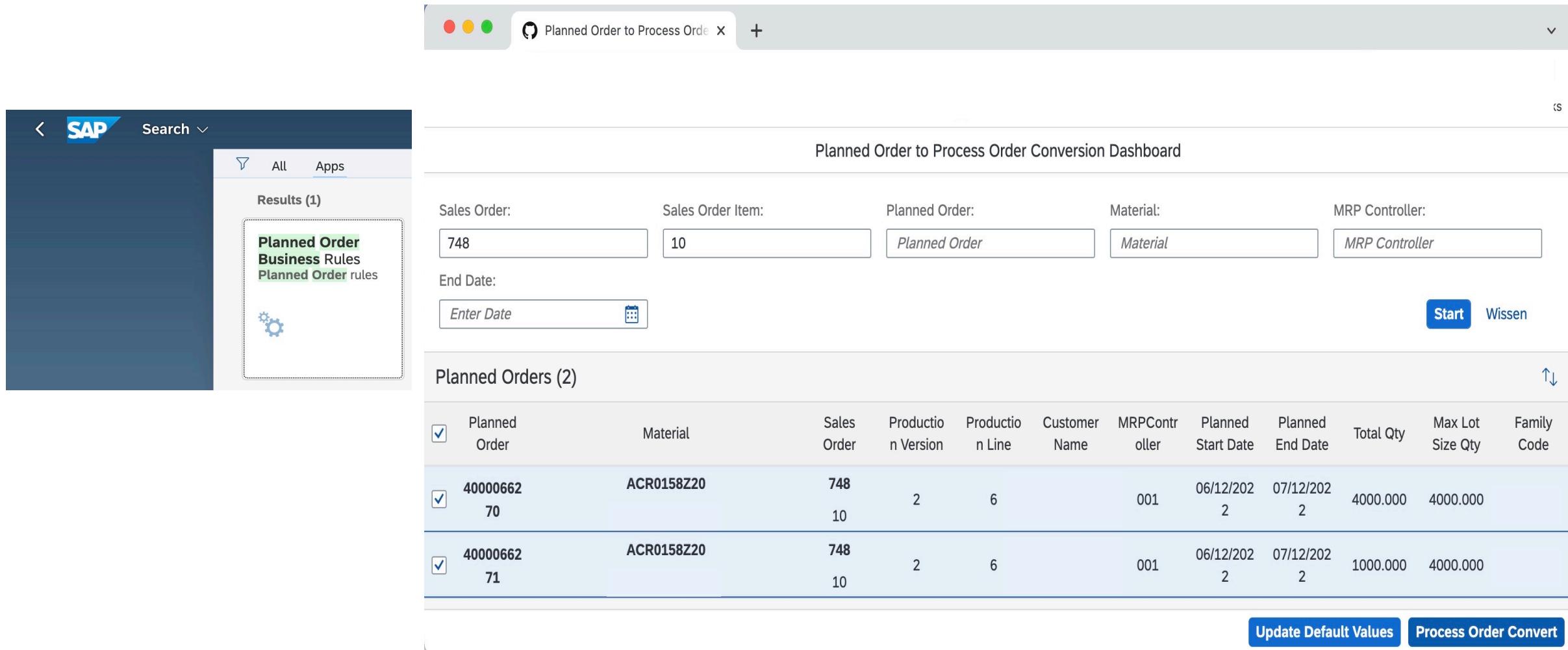
API Planned Order



The screenshot shows the SAP API Business Hub interface for the SAP S/4HANA Cloud API. The page title is 'API Planned Order'. The sub-page title is 'Planned Order'. The sub-sub-page title is 'Manage planned orders using this synchronous inbound service'. Below the sub-sub-page title, there are several navigation links: Overview, API Reference (which is highlighted in yellow), Schema View, SAP Cloud SDK, and Try Out.

Planned Order Capacity	<code>GET</code> /PlannedOrderComponent Get entities from PlannedOrderComponent
Planned Order Component	
Planned Order	<code>GET</code> /PlannedOrderComponent(PlannedOrder='{'PlannedOrder'}',Reservation='{'Reservation'}',ReservationItem='{'ReservationItem'}') Get entity from PlannedOrderComponent by key
Batch Requests	<code>PATCH</code> /PlannedOrderComponent(PlannedOrder='{'PlannedOrder'}',Reservation='{'Reservation'}',ReservationItem='{'ReservationItem'}') Update entity in PlannedOrderComponent
	<code>DELETE</code> /PlannedOrderComponent(PlannedOrder='{'PlannedOrder'}',Reservation='{'Reservation'}',ReservationItem='{'ReservationItem'}') Delete entity from PlannedOrderComponent
	<code>GET</code> /PlannedOrderComponent(PlannedOrder='{'PlannedOrder'}',Reservation='{'Reservation'}',ReservationItem='{'ReservationItem'}')/_PlannedOrder Get related _PlannedOrder
	<code>GET</code> /PlannedOrderHeader('{'PlannedOrder'}')/_PlannedOrderComponent Get entities from related _PlannedOrderComponent
	<code>POST</code> /PlannedOrderHeader('{'PlannedOrder'}')/_PlannedOrderComponent Add new entity to related _PlannedOrderComponent

Tiles in standard S4 direct link to BTP platform

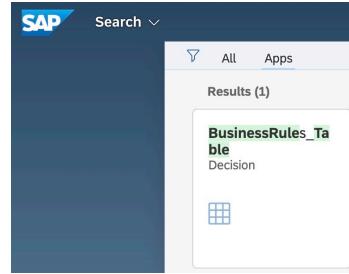


The screenshot shows a SAP Fiori application interface. At the top, there is a header bar with a back arrow, the SAP logo, and a search bar. Below the header is a navigation bar with 'All' and 'Apps' tabs, and a search bar showing 'Results (1)'. A tile titled 'Planned Order Business Rules' is highlighted with a dashed border. The main content area is titled 'Planned Order to Process Order Conversion Dashboard'. It contains several input fields: 'Sales Order' (748), 'Sales Order Item' (10), 'Planned Order' (Planned Order), 'Material' (Material), and 'MRP Controller' (MRP Controller). Below these fields is an 'End Date' input field with a calendar icon and a 'Start' and 'Wissen' button. The next section is titled 'Planned Orders (2)' and contains a table with the following data:

Planned Order	Material	Sales Order	Production Version	Production Line	Customer Name	MRP Controller	Planned Start Date	Planned End Date	Total Qty	Max Lot Size Qty	Family Code
40000662 70	ACR0158Z20	748 10	2	6	001	06/12/2022	07/12/2022	4000.000	4000.000		
40000662 71	ACR0158Z20	748 10	2	6	001	06/12/2022	07/12/2022	1000.000	4000.000		

At the bottom right of the table are buttons for 'Update Default Values' and 'Process Order Convert'.

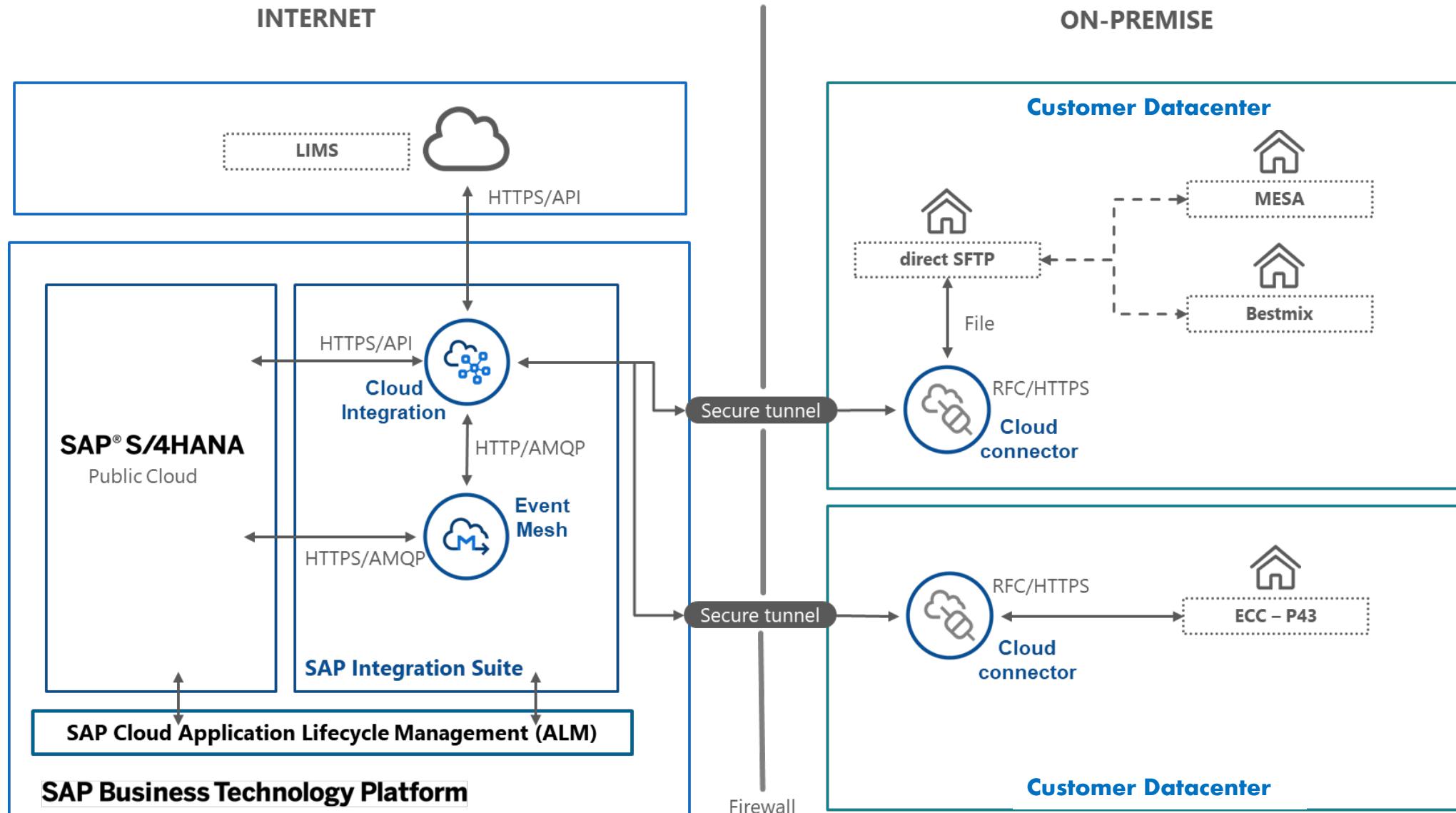
Business Rules BTP



Naam	Label	Omschrijving
Rule4_Mixer_RuleDecision	Rule4_Mixer_RuleDecision	Rule to determine the storage location based on mixer and sum of BLK Material quantity per planned order..
Rule3_FamilyCode_RuleDecision	Rule3_FamilyCode_RuleDecision	Rule to determine the Storage Location Based on BLK Keyword
Rule2_SWAP_RuleDecision	Rule2_SWAP_RuleDecision	Rule to Swap materials based on the input quantity
Rule1_ACPP_RuleDecision	Rule1_ACPP_RuleDecision	Rule is to determine the sum of ACPP material quantity is >/< to targeted business quantity,

Decision Table										
If			Then							
Input Material =	Quantity	Family Code =	OP_1_BBG	OP_1_BBG_PACK	OP_2_BAG	OP_2_BAG_PACK	OP_3_SWAP_MATERIAL	OP_3_QUANTITY	OP_3_DOSING_LOCA...	
'5060034BLK'	< 25.00	"					'5060034BAG'	25	'SL05'	
'5060034BLK'	> 0.01	'ALY2'	'5060034BBG'	900.00	'5060034BAG'	25.00	'5060034BAG'	0.01		
'5060034BLK'	> 0.01	'AD'	'5060034BBG'	900.00	'5060034BAG'	25.00	'5060034BAG'	0.01		
'5016057329'	> 0.50	"			'5016057329'	20.00	'5016057BLK'	0.5	'SB24'	
'5063604BBG'	> 2.00	"	'5063604BBG'	1000.00			'5063604BLK'	2	'SB20'	
'5062819BLK'	< 25.00	"					'5062819BAG'	25	'SL05'	
'5061517BAG'	> 0.50	"	'5061517BBG'	1000.00	'5061517BAG'	25.00	'5061517BLK'	0.5	'SB24'	
'5063752BBG'	> 2.00	"	'5063752BBG'	100.00			'5063752BLK'	2	'SB20'	
'5063752BBG'	< 2.00	"					'5063752BAG'	2	'SL05'	
'5063477BBG'	> 2.00	"	'5063477BBG'	1000.00			'5063477BLK'	2	'SB20'	

Sample Landscape Customer



SAP Event Mesh Queue

SAP Event Mesh

Subdomain enterprise-messaging.cfapps.eu10.hana.ondemand.com

Default Plan

Message Clients

Queues

Resource Allocation

Resource Usage

Test

Namespace Type Management Messaging Messaging REST

Instance ENABLED ENABLED ENABLED

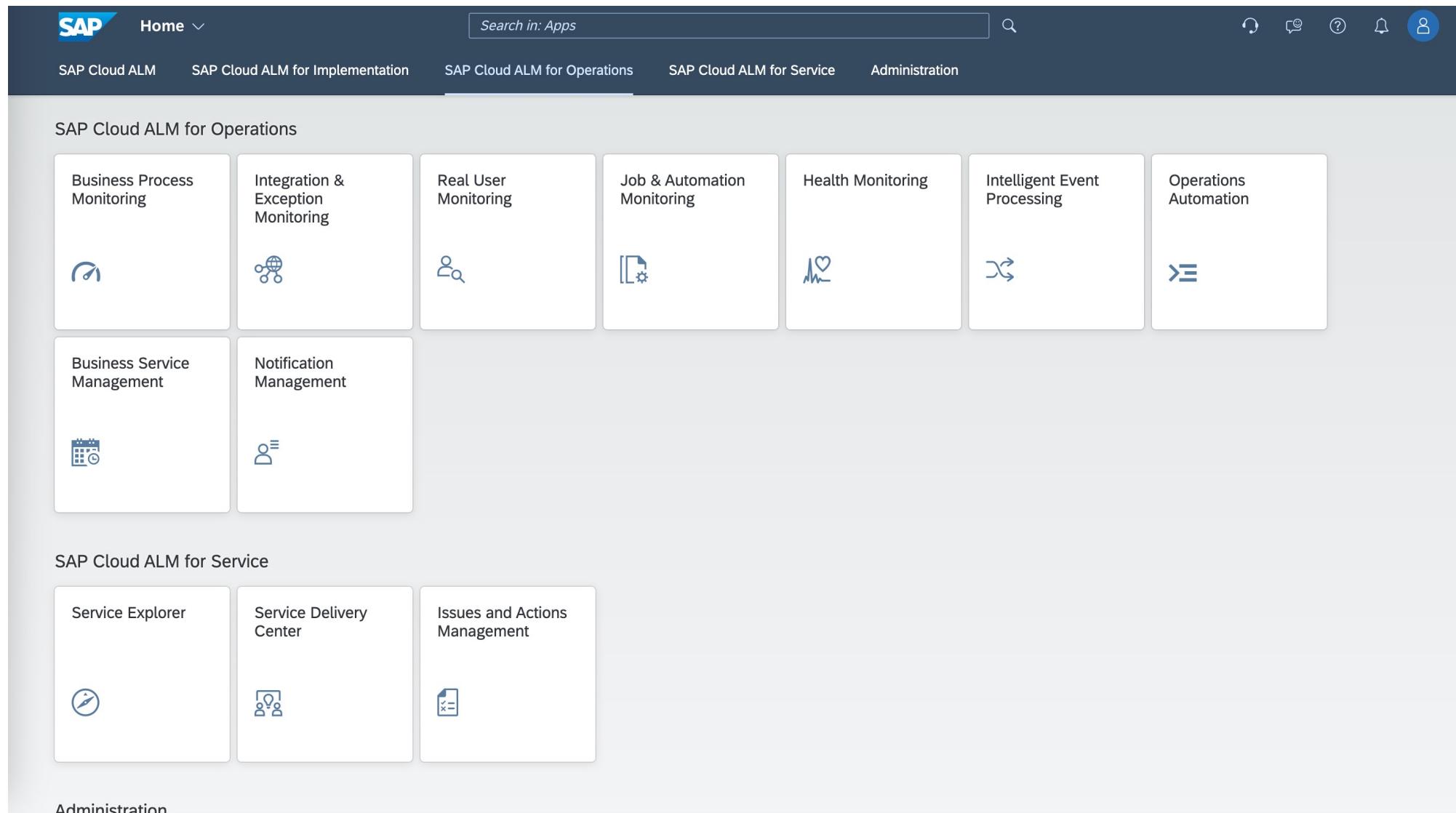
Overview Rules Queues Webhooks Events Service Descriptor Test

Queue

Refresh Search

Queue Name	Messages	Unacknowledged Messages	Queue Size (bytes)	Access Type	Actions
dsm/EmDnpEmea/N40/queue-batch-master-from-s4hp	0	0	0	EXCLUSIVE	
Emea/N40/queue-batch-masterdata-to-MESA	0	0	0	EXCLUSIVE	
/N40/queue-BESTMIXPrices-to-EM-ProductPrices	0	0	0	EXCLUSIVE	
/N40/queue-billofmaterial-to-P43	0	0	0	EXCLUSIVE	
/N40/queue-billofmaterial-to-s4hpc	0	0	0	EXCLUSIVE	
/N40/queue-business-partner-from-s4hpc	0	0	0	EXCLUSIVE	
/N40/queue-costcenter-data-to-EM-EASYINVOICE	0	0	0	EXCLUSIVE	
/N40/queue-costcenter-from-s4hpc	0	0	0	EXCLUSIVE	
/N40/queue-customer-masterdata-to-LIMS	0	0	0	EXCLUSIVE	
/N40/queue-finalconfirmation-processorder-to-s4hpc	0	0	0	EXCLUSIVE	
N40/queue-generalledger-data-to-EM-EASYINVOICE	0	0	0	EXCLUSIVE	

Cloud Application Lifecycle Management



The screenshot displays the SAP Cloud ALM interface. At the top, there is a navigation bar with the SAP logo, a "Home" dropdown, a search bar containing "Search in: Apps", and several icons for refresh, notifications, help, and user profile.

The main content area is titled "SAP Cloud ALM for Operations". It features a grid of seven cards:

- Business Process Monitoring (Icon: circular arrow)
- Integration & Exception Monitoring (Icon: gear with a globe)
- Real User Monitoring (Icon: user with a magnifying glass)
- Job & Automation Monitoring (Icon: document with a gear)
- Health Monitoring (Icon: heart rate monitor)
- Intelligent Event Processing (Icon: two arrows)
- Operations Automation (Icon: three horizontal bars)

Below this, there is another grid of two cards:

- Business Service Management (Icon: calendar)
- Notification Management (Icon: user with a gear)

Further down, there is a section titled "SAP Cloud ALM for Service" containing three cards:

- Service Explorer (Icon: magnifying glass)
- Service Delivery Center (Icon: user with a gear)
- Issues and Actions Management (Icon: document with a list)

At the bottom, there is a footer section titled "Administration".

Integration & Exception Monitoring

SAP Integration & Exception Monitoring

Last Refresh : Nov 17, 2022, 4:16:15 PM

Overview Favorites

Favorites

! (i)

CPI_ErrorHandler
2 out of 2 services displayed

Cloud icon **CI-Prod Integration Suite**
SAP Integration Suite (Cloud Integration)

Cloud icon **CI-Test Integration Suite**
SAP Integration Suite (Cloud Integration)

Quality Green | Alerts 0 Calendar icon Star icon Information icon

CPI_Error
2 out of 2 services displayed

Cloud icon **CI-Prod Integration Suite**
SAP Integration Suite (Cloud Integration)

Cloud icon **CI-Test Integration Suite**
SAP Integration Suite (Cloud Integration)

Quality Green | Alerts 0 Calendar icon Star icon Information icon

CPI_Error
2 out of 2 services displayed

Cloud icon **CI-Prod Integration Suite**
SAP Integration Suite (Cloud Integration)

Cloud icon **CI-Test Integration Suite**
SAP Integration Suite (Cloud Integration)

Quality Green | Alerts 0 Calendar icon Star icon Information icon

CPI_LIMS
2 out of 2 services displayed

Cloud icon **CI-Test Integration Suite**
SAP Integration Suite (Cloud Integration)

Cloud icon **CI-Prod Integration Suite**
SAP Integration Suite (Cloud Integration)

Quality Green | Alerts 0 Calendar icon Star icon Information icon

CPI_Error
2 out of 2 services displayed

Cloud icon **CI-Test Integration Suite**
SAP Integration Suite (Cloud Integration)

Cloud icon **CI-Prod Integration Suite**
SAP Integration Suite (Cloud Integration)

Quality Green | Alerts 0 Calendar icon Star icon Information icon

Cloud icon Information icon

Integration & Exception Monitoring

Home / CPI _MESA

CPI_ _MESA
SAP Integration Suite (Cloud Integration)

Messages Exceptions Alerts

3K 9 0

Search Services 100%

CI-Prod Integration Suite

SAP Integration Suite (Cloud Integration)

Description: CI-Prod Integration Suite

Messages

SAP Integration Suite Messages 35 1 2.9K

Exceptions

Integration Artifact Deployments 2

CI-Test Integration Suite

SAP Integration Suite (Cloud Integration)

CI-Prod Integration Suite

SAP Integration Suite (Cloud Integration)

Integration & Exception Monitoring

SAP Integration & Exception Monitoring

Last Refresh : Nov 22, 2022, 11:38:23 AM

Monitoring Time Frame: 11/22/22, 12:00 AM - 11/22/22, 11:38 AM Business Services: CPI_... MESA

Home / Topology / OCI-Prod%20Integration%20Suite (SAP Integration Suite Messages)

SAP Integration Suite Messages

Clear all Filters

Number of Messages by Status Group (1)

SUCCESSFUL	1,557
ERROR	28

Number of Messages by Artifact Name

CPI_00707b_Pu...	494
CPI_00707e_Pu...	494
More (14)	597

Number of Messages by Package Id

More (5)	220
1,057	
308	

Number of Messages by Package Name

GM_D...	1,057
MM...	308
More (5)	220

Messages (28)

Message ID	Status	Artifact Name	Sender	Receiver	Application Message Type	Package Id
AGN8pJQSM1PJmk1i3hClUG7F_Tbt	Partly Booked Stck 5064650BBG	CPI_00707b_Pull_JournalDat...	SAP Event ...	S4HANA Publ...	Goods Movements	DNPEM...
AGN8pDpozCJ_CT2uklOmnoF_fh2X	Partly Booked Stck 5064650BBG	CPI_00707b_Pull_JournalDat...	SAP Event ...	S4HANA Publ...	Goods Movements	DNPEM...
AGN8o8zMqp9VGAuNjfldjHHxLEFp	Partly Booked Stck 5064714BAG	CPI_00707b_Pull_JournalDat...	SAP Event ...	S4HANA Publ...	Goods Movements	DNPEM...
AGN8o8Jlo7kCuy-pzPkWE7JuKfVa	Partly Booked Stck 5064477BAG	CPI_00707b_Pull_JournalDat...	SAP Event ...	S4HANA Publ...	Goods Movements	DNPEM...
AGN8o64zGIRX-Zzlf_lTo0Zmt5D8	Partly Booked Stck 5064472BAG	CPI_00707b_Pull_JournalDat...	SAP Event ...	S4HANA Publ...	Goods Movements	DNPEM...
AGN8o6R72Lt4FX8LjGNrcEjzfhwB	Partly Booked Stck 5064714BAG	CPI_00707b_Pull_JournalDat...	SAP Event ...	S4HANA Publ...	Goods Movements	DNPEM...

Business Process Monitoring

SAP Business Process Monitoring

Last Refresh : Nov 17, 2022, 4:24:26 PM

Home / Design to Operate

Design to Operate 11/10/22, 12:00 AM - 11/17/22, 4:24 PM Services/Systems: All

Plant: Order Type: MRP Controller: Profit Center: Business Area: Adapt Filters

Design Plan to Project Procure to Receipt Material to Product Order to Invoice Product to Delivery Onboard to Maintenance

Planned Orders with Opening...	Open and Overdue Purchase...	Production Orders Overdue fo...	Open Sales Documents	Throughput of Outbound Goods...	Open and Overdue Purchase...	Production Orders Created	Sales Documents Created	Outbound Deliveries Overdue fo...
624 △ +3.5% compared to 11/2/2022	15,656 △ +7.8% compared to 11/2/2022	15 +0.0% compared to 11/2/2022	731 △ +5.6% compared to 11/2/2022	8,057 ▽ -13.1% compared to the previous ...	1,237 △ +0.7% compared to 11/2/2022	1 +14.5% compared to the previous ...	166 △ +14.5% compared to the previous ...	747 △ +1.9% compared to 11/2/2022

Q&A

MAKE THE MOVE TO THE NEXT GENERATION ERP



Thank you

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Expert // / / /
Enterprise Resource Planning

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THE PROCESS EXPERTS

SAP S/4HANA Cloud,
public edition

Additional Information

- Customer References
- SAP Qualified Package for Manufacturing SAP S/4HANA Cloud, Public Edition
- SAP S/4HANA Cloud, Public Edition Knowledge base



The most experienced partner with SAP S/4HANA Cloud, Public Edition