

The Intelligent ERP

Manage Your Logistical Products



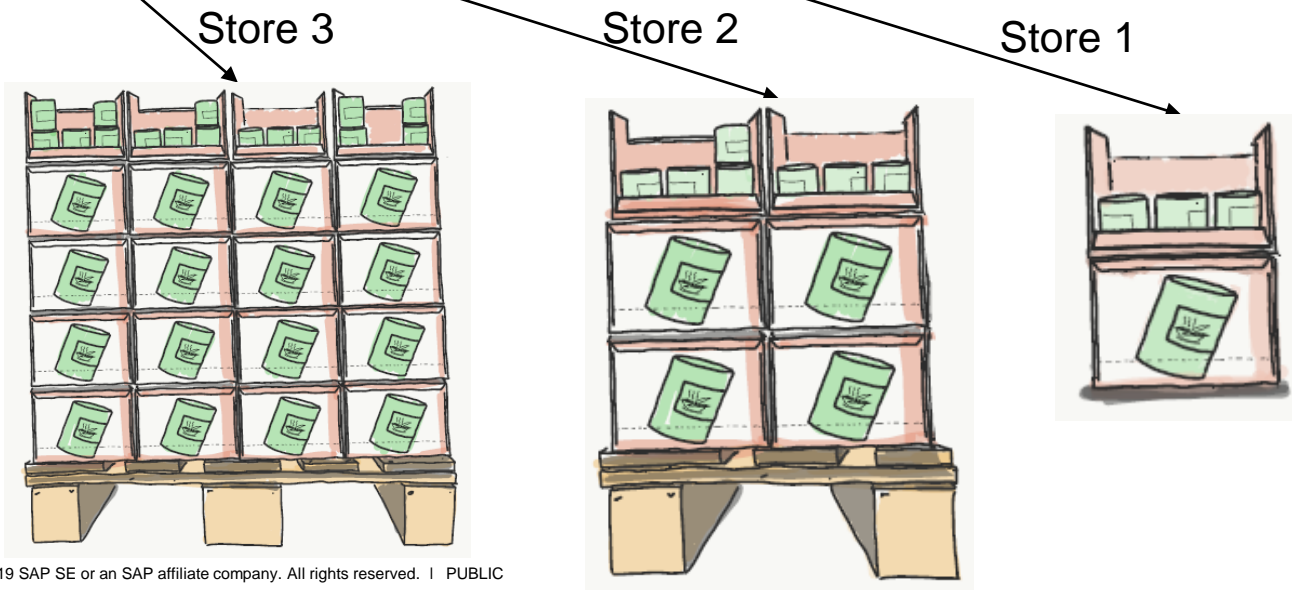
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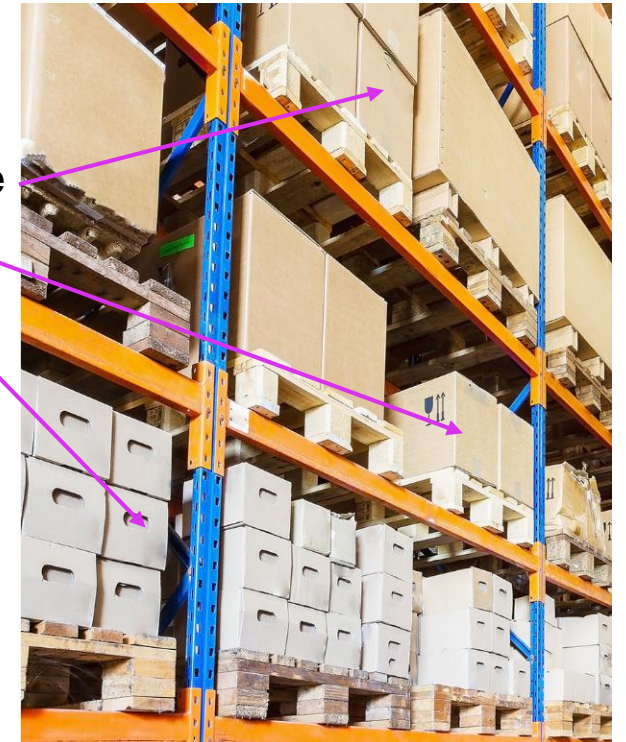
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Business Scenarios Requiring Logistical Products

- **Certain stores should only be able to order/receive certain UoMs (Units of Measure), e.g. because of different store sizes or different sales volumes**
- **Inventory in a DC should be kept separated for different UoMs in order to deliver the correct UoMs to the different stores, and to have stock transparency on UoM level**
- **Different suppliers of fresh products deliver in different UoMs**
 - Canned Peas, 340 g
 - Carton of 12
 - Carton of 24
 - Half-palette
 - Palette



- Half-palette
- Palette
- Carton



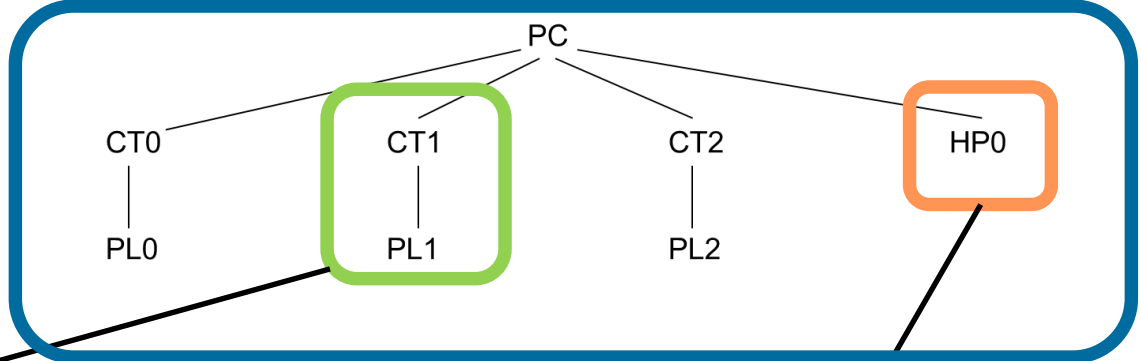
Logistical Product Example Data Model

- Sales Product with PC as Base Unit
- Procurement Product: PL with 4 CT of 7 PC
- Procurement Product: HP with 20 PC

Material: DEMO_PEA Peas 340 g Single n

Units of measure/EANs/dimensions

X	AUn		<=>	Y	BUn		Number	LUn	EAN/UPC	Ct	Al
1	PC	Piece	<=>	1	PC	Piece	1,000	PC	2050000088407	IE	
1	CT0	Small Car.	<=>	6	PC	Piece	6,000	PC	2050000088414	IE	
1	PL0	Pallet 0	<=>	30	PC	Piece	5,000	CT0	2050000088421	IE	
1	CT1	Med. Car.	<=>	7	PC	Piece	7,000	PC			
1	PL1	Pallet 1	<=>	28	PC	Piece	4,000	CT1			
1	CT2	Big Car.	<=>	8	PC	Piece	8,000	PC	2050000088452	IE	
1	PL2	Pallet 2	<=>	32	PC	Piece	4,000	CT2	2050000088469	IE	
1	HP0	Half Pal.	<=>	20	PC	Piece	20,000	PC			



Material: DEMO_PEA_PL1 Peas 340 g - PL1

Log. Cat.: P Procurement Material

Sales Mat.: DEMO_PEA Peas 340 g

Units of measure/EANs/dimensions

A...	<=>	Number	LUn	BUn	OUn	D/I	SUn	EAN/UPC	Ct	AP
CT1	<=>	1,000	CT1	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	2050000088438	IE	<input type="checkbox"/>
PC	<=>	0,143	CT1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="checkbox"/>
PL1	<=>	4,000	CT1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	2050000088445	IE	<input type="checkbox"/>

Material: DEMO_PEA_HP0 Peas 340 g - HP0

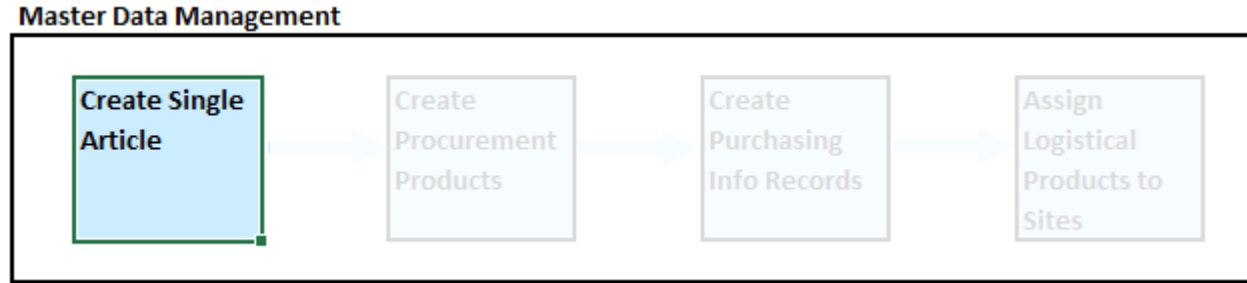
Log. Cat.: P Procurement M

Sales Mat.: DEMO_PEA Peas 340 g

- PC: piece
- CT: carton
- PL: pallet
- HP: half pallet

Master Data Management Logistical Product

Create Sales Product



SAP Create Material DEMO_PEA (Units of Measure)

Material: DEMO_PEA Peas 340 g Single mater...*

Units of measure grp:

Units of measure/EANs/dimensions

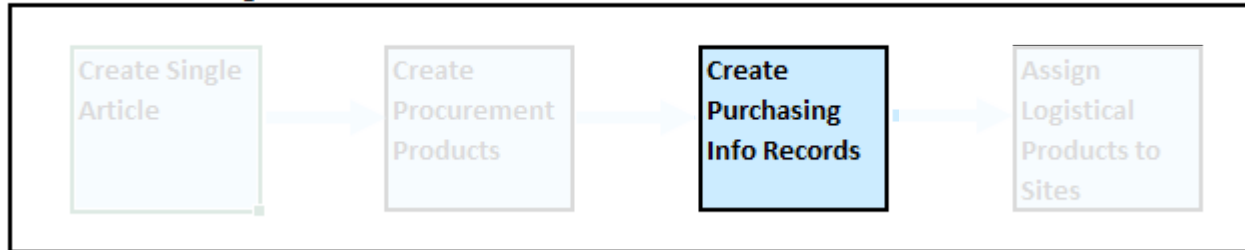
X	AUn		<=>	Y	BUn		Number	LUn	EAN/UPC	Ct	Au	Gross Weight	Net Weight	Unit...
1	PC	Piece	<=>	1	PC	Piece	1,000	PC	2050000088407	IE	<input type="checkbox"/>	0,500	0,340	KG
1	CT0	Small Car.	<=>	6	PC	Piece	6,000	PC	2050000088414	IE	<input type="checkbox"/>	3,100	2,040	KG
1	PL0	Pallet 0	<=>	30	PC	Piece	5,000	CT0	2050000088421	IE	<input type="checkbox"/>	16	10,200	KG
1	CT1	Med. Car.	<=>	7	PC	Piece	7,000	PC	2050000088438	IE	<input type="checkbox"/>	3,600	2,380	KG
1	PL1	Pallet 1	<=>	28	PC	Piece	4,000	CT1	2050000088445	IE	<input type="checkbox"/>	15,800	9,520	KG
1	CT2	Big Car.	<=>	8	PC	Piece	8,000	PC	2050000088452	IE	<input type="checkbox"/>	4,100	2,720	KG
1	PL2	Pallet 2	<=>	32	PC	Piece	4,000	CT2	2050000088469	IE	<input type="checkbox"/>	17,300	10,880	KG
1	HP0	Half Pal.	<=>	20	PC	Piece	20,000	PC	2050000088476	IE	<input type="checkbox"/>	11	6,800	KG
			<=>		PC	Piece					<input type="checkbox"/>		0,000	

- Create Sales Product via Product Fiori app, or classic article maintenance transactions
- ... including all UoMs and GTINs

Master Data Management Logistical Product

Create Purchasing Info Records

Master Data Management



Just for Completeness
No Change

SAP Create Info Record: Purch. Organization Data 1

General Data Conditions Texts Services for Object More

Info Record:

Supplier: L0001EOP SAP & CATT OHG

Material: DEMO_PEA_PL1
Peas 340 g - PL1

Material Group: EA0001EOP TEST

Purchasing Org.: EEOP Standard

Control

Pl. Deliv. Time: 2 Days Tol. Underl.: % No MText

Purch. Group: 001 Tol. Overdl.: % Ackn. Rqd

Standard Qty: 3 PL1 Unlimited Conf. Ctrl:

Minimum Qty: PL1 GR-Bsd IV Tax Code:

Rem. Shelf Life: D No ERS

Differential Invoicing: 01 Not Rele... New PO for inc. Del.

Shippg Instr.:

Procedure: UoM Group:

Max. Quantity: PL1 Rndg Prof.: RMA Req.:

Transport Chain: Stg Time: Auto.Srcg

Conditions

Net Price: 0,38 EUR / 1 PC Valid to: 31.12.9999

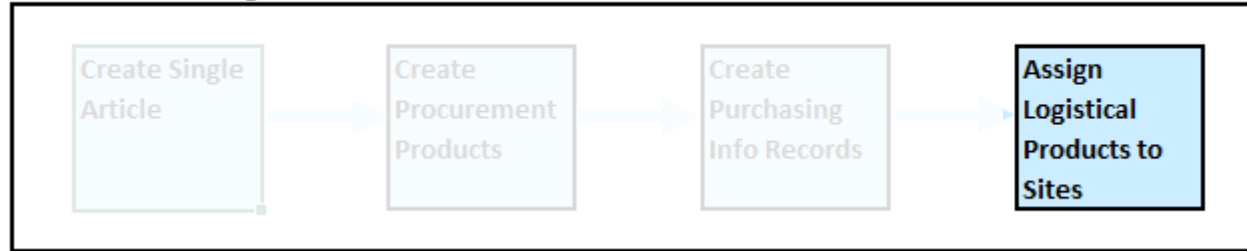
Effective Price: 0,38 EUR / 1 PC No Cash Disc.

Qty Conv.: 1 PL1 <-> 28 PC Cond. Grp:

Master Data Management Logistical Product

Assign Logistical Products to Sites

Master Data Management



Assign Logistical Products

DEMO_PEA_PL1 Peas 340 g - PL1

Supplier-DC DC-DC DC-Store Supplier-Store

Existing Assignments (4)

Distribution Center	Store	Valid From	Valid To
<input type="checkbox"/> eCATT DC EO12 (EO12)	eCATT Store EP11 (EP11)	01.04.2019	31.10.2019
<input type="checkbox"/> eCATT DC EO12 (EO12)	eCATT Store EP12 (EP12)	01.04.2019	31.10.2019
<input type="checkbox"/> eCATT DC EO12 (EO12)	eCATT Store EP13 (EP13)	01.04.2019	31.10.2019
<input type="checkbox"/> eCATT DC EO12 (EO12)	eCATT Store EP14 (EP14)	01.04.2019	31.10.2019

Products (4)

Product	Product Group	GTIN
Peas 340 g - PL1 DEMO_PEA_PL1	TEST (EA0001EOP)	2050000088438
Peas 340 g DEMO_PEA	TEST (EA0001EOP)	2050000088407

- Assign Procurement Product in four sections
 - Supplier – DC
 - DC – DC
 - DC – Store
 - Supplier - Store


Master Data Management Logistical Product


Technical Information of the Data Model


- The Sales Product is modelled as **Single Product**.
- The Procurement Product is modelled as **Display**. The component of this Display is the Sales Product.
- The units of measures of a Product is stored in table MARM.
- There will be a link between the Procurement Products back to the Sales Products. (Table MARA)
- The information which vendor can provide which Procurement Product is stored via the **Purchasing Info Records**. (Tables EINA and EINE and additionally tables of the condition technique for the prices)
- The information which DC can provide which Procurement Products is stored via the **Source List**. (Table EORD)
- The information which Procurement Product can be ordered by a store is stored via the Source List. (Table EORD)
- The information which supplying site delivers a Product for a store is stored via the Site Maintenance (default value in table WRF3) and via the Source List.

Supplier Purchase Order for Distribution Center

Replacement of Sales Product by Procurement Product


 NB Standard PO Supplier: L0001EOP SAP & CATT OHG Doc. Date: 04.03.2019


 Header


 Display Scope: ALL All Items Char. Display:



<input type="checkbox"/>	S...	Itm	...	A	I	Material	Short Text	PO Quantity	OUn	Deliv. Date	Net Price	Curr...	Per	OPU	High...	...	Plnt
<input type="checkbox"/>						<u>demo_pea</u>		1	p11			EUR					eo11
<input type="checkbox"/>												EUR					
<input type="checkbox"/>												EUR					

After pressing Enter: replacement of the sales product by the procurement product (sales product as sub-item)

 NB Standard PO Supplier: L0001EOP SAP & CATT OHG Doc. Date: 04.03.2019

 Header

 Display Scope: ALL All Items Char. Display:

<input type="checkbox"/>	S...	Itm	...	A	I	Material	Short Text	PO Quantity	OUn	Deliv. Date	Net Price	Curr...	Per	OPU	High...	...	Plnt
<input checked="" type="checkbox"/>		10				<u>DEMO_PEA_PL1</u>	Peas 340 g - PL1	1	PL1	06.03.2019	0,38	EUR	1	PC			eCATT DC
<input checked="" type="checkbox"/>		11				<u>DEMO_PEA</u>	Peas 340 g	28	PC		0,00	EUR	0	PC	10	6	
<input type="checkbox"/>												EUR					
<input type="checkbox"/>												EUR					

SAP S/4HANA Retail for Merchandise Management 1809 FPS02

Planned Innovations for Logistical Products



- Availability in the following logistics processes:
 - Rapid replenishment
 - Material requirements planning (MRP)
 - Allocation table
 - Collective purchase order
- Enablement of full products as logistical products
- Enhancement to the SAP Fiori app "Assign Logistical Products" by:
 - Additional consistency checks when changing assignments
 - Deletion of future assignments
 - Use of store groups when changing assignments

The screenshot shows the SAP Fiori app interface for 'Assign Logistical Products'. The product 'AEOP_GARBANZO' (Garbanzo Beans 570g) is selected. The 'DC-Store' section is active, showing 'Existing Assignments (23)'. A search bar and a dropdown menu labeled 'Select a store group' are visible. The dropdown menu is highlighted with a red circle, showing a list of store groups including 'ALE1 ALE2 (0000003382)', 'asd (0000001263)', 'BS Class for testing (0000001343)', and 'DSC1 (0000009722)'. The 'Go' button is also visible next to the dropdown.

SAP S/4HANA Retail for Merchandise Management 1909

Planned Innovations for Logistical Products



- Availability in the following logistics processes:
 - Allocation Table: distribute the sales product to all stores, based on the procurement product associated to the respective stores
 - Promotion: enablement of logistical products
 - Delisting of a logistical product in a store (check if there is a procurement product part of delisting a sales product for a store)
- Enhancement to the SAP Fiori app "Assign Logistical Products" by:
 - Include procurement products when selection sales products (in assignment app when searching for a product)

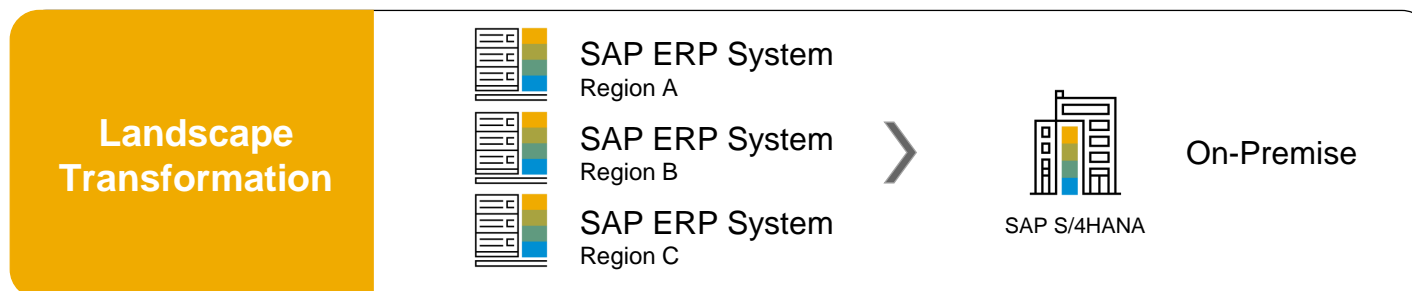
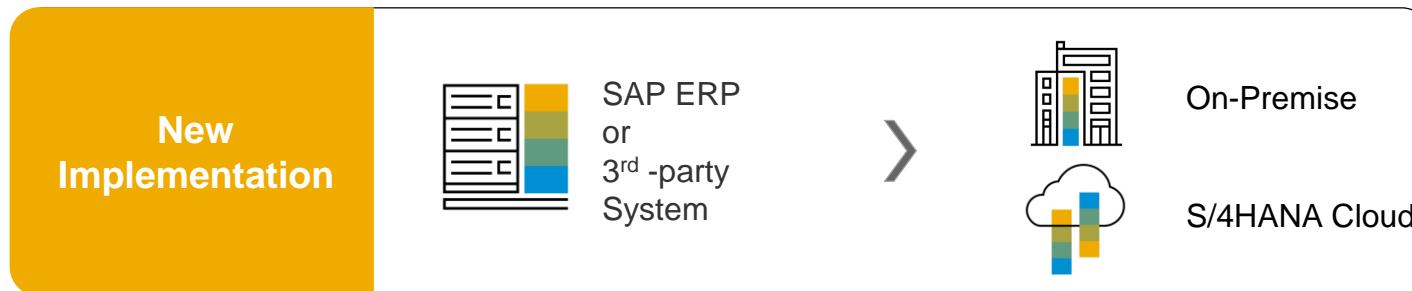
The Intelligent ERP

Move to S/4HANA



Transition to SAP S/4HANA

Three different approaches to move to SAP S/4HANA



Bring your business processes to the new platform

- A complete technical in-place conversion of an existing SAP Business Suite ERP system to SAP S/4HANA
- Adopt new innovations at your speed

New implementation / re-implementation

Reengineering and process simplification based on latest innovations

- Implement innovative business processes with SAP best-practice content on a new platform
- Perform initial data load
- Retire old landscape

Value driven data migration to the new platform

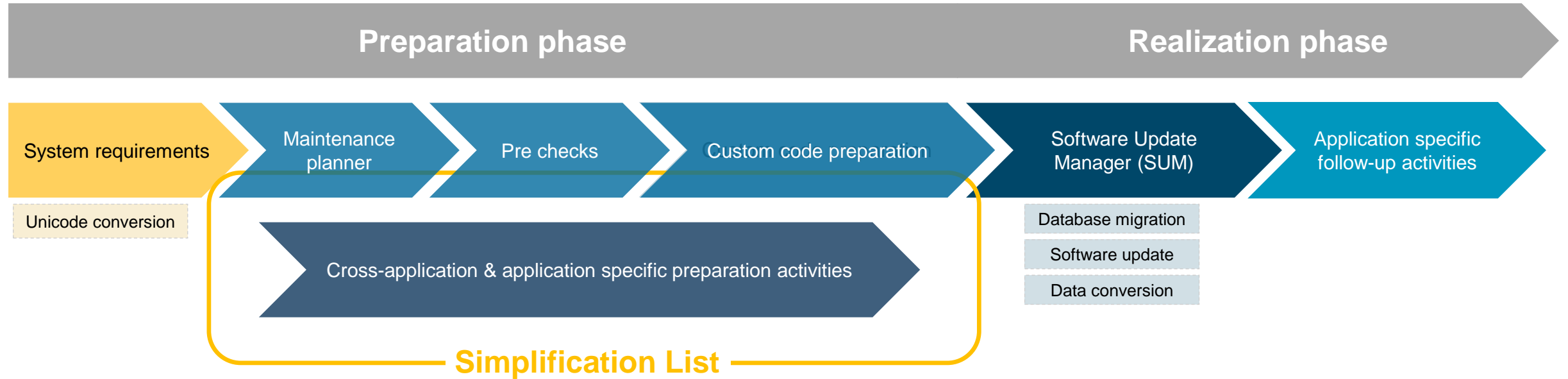
e.g. consolidation of current SAP Business Suite landscape into one global SAP S/4HANA system or selective data migration based on legal entities



[SCN Blog: How to find my path to SAP S/4HANA](#)

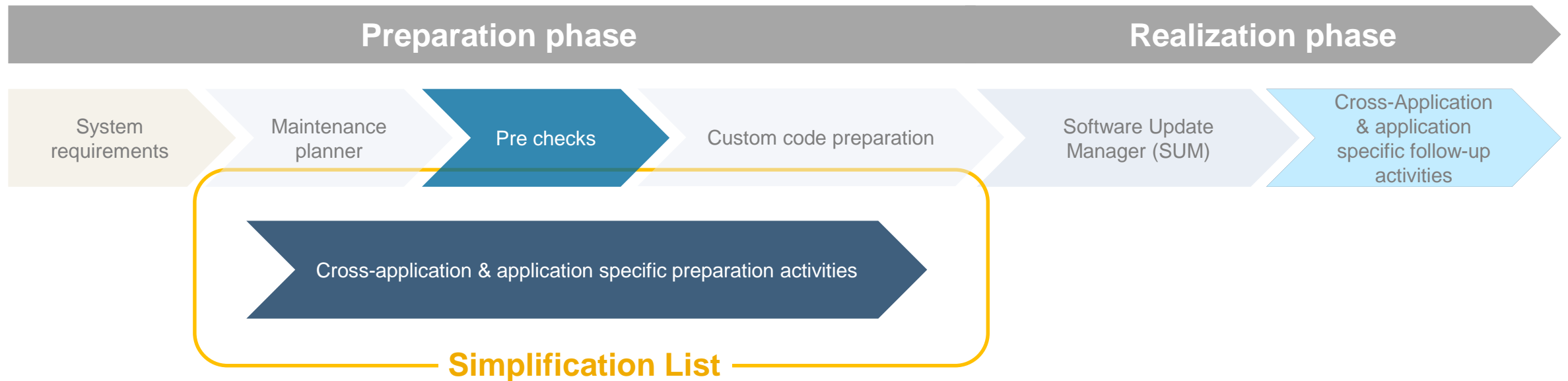
SAP S/4HANA System Conversion

Overview Technical Process Steps



SAP S/4HANA System Conversion

Simplification List



■ The **Simplification List** is a collection of **Simplification Items**. Within a Simplification Item it is described what is the difference of a functionality between SAP Business Suite and SAP S/4HANA.

- Currently the Simplification List provides this information per each dedicated SAP S/4HANA On-Premise release, and
- Will be provided as part of the SAP S/4HANA documentation.
- A Simplification Item does have a simplification category and provides information about the potential impact for the customer.
- Based on the simplification item custom code check analysis can be executed.
- Will be used by the SAP Readiness Check

SAP S/4HANA

Guiding Principles for Development

TIDY UP – DEPRECATION

- Apply the “principle of one” and keep the better variant of a transaction
- Remove code that is based on outdated technology
- Remove code unutilized for long time
- Remove code that was replaced by a better option
- Remove code that will undergo renovation in S/4HANA

SMOOTH TRANSITION FROM OLD TO S/4HANA – COMPATIBILITY PACKS

- Carry over transactions and functionality with high usage in installed base
- Co-existence of classical transactions next to new transactions
- Grant lead time until 2025 to move to new transactions
- De-risk development by allowing phased approach

RENOVATE

- Simplify data models
- Remove aggregates and indices
- Provide FIORI 2.0 based UIs
- Re-design transactions and processes (roadmap)

SAP S/4HANA Retail for Merchandise Management

Deprecation

Topic	Replaced by	Remark
Article discontinuation (old via transactions WSE*)	Article discontinuation (transactions WRF_DIS_*) (existing)	Redundant functionality
Article hierarchy (old via transactions MATGRP*)	Article hierarchy (transactions WMATGRP*) (existing)	Redundant functionality
ERP based MAP	SAP Merchandise/Assortment Planning for Retail (existing)	Redundant functionality
Online Store with Product Catalog	SAP Hybris Commerce (existing)	Redundant functionality
Labeling	Fiori app for store associate (existing)	Redundant functionality
Assortment List (old)	High Performance Assortment List (existing)	Redundant functionality
In-store food production integration	Other interfaces (existing)	Redundant functionality
PRICAT Outbound	Potential future renovation (CP)/other integr. scenarios (exist.)	Redundant functionality
Replenishment	Rapid Replenishment (existing)	Redundant functionality
Value and Quota Scales	Distribution Curve (existing)	Redundant functionality
Obsolete Transactions	Alternative transactions (existing)	Redundant functionality
RMA (Retail Method of Accounting)	Material Ledger / ERMA (existing)	Low usage (< 5 customers)
GR capacity check	EWM (existing)	Low usage (< 5 customers)
AIN (India Margin Protection)	n/a	Low usage (< 5 customers)
Perishables procurement/Fresh Item Procurement	Potential future solution	Low usage (< 5 customers)
Prepack Allocation Planning	Potential future renovation topic	Low usage (< 5 customers)
SAP Retail Store, iViews	Fiori/in-store MIM apps (existing)	Technology not supported anymore
Logistical variants	Logistical Products (existing)	Technology of generic article changed
RIS (incl. Category Man.)	New analytics (planned)	Technology not supported anymore
Retail Ledger / Profit Center Analytics	Material Ledger / new analytics (existing/planned)	Technology not supported anymore
Market basket calculation	Potential future solution/renovation topic	Technology not supported anymore
Short Text Replacement	Alternative solution for some languages (existing)	Technology not supported anymore
Seasonal procurement	MRP and PIR / fashion processes (existing)	OTB potential candidate for renovation

Note [2371618](#) - S4WTL - Retail Functionality not available anymore

SAP S/4HANA Retail for Merchandise Management

Compatibility Packs

Topic	Replaced by	Remark
POS Outbound (IDoc WP_PLU)	Assortment list (HPR) / enterprise service (existing)	Redundant functionality
Retail Demand Man. Integration	Other interfaces (existing)	Redundant functionality
Sales forecasting for stores	SAP CAR (UDF) (existing)	Redundant functionality
Import of external forecast data	SAP CAR (UDF) (existing)	Redundant functionality
Extended Forecast (AHD)	SAP CAR (UDF) (existing)	Redundant functionality
Subsequent settlement	Condition contract (existing)	Redundant functionality
Markdown plan	Markdown profile, Price Planning Workb. (existing)	Relates to pricing renovation
Bonus buy (old via transactions VBK*)	Bonus buy (transactions RDMBB*) (existing)	Redundant functionality
Additional	Value Added Services (existing)	Redundant functionality
Rapid Replenishment	SAP F&R (existing)	Redundant functionality
Load build / investment buy	SAP F&R (existing)	Redundant functionality
AFS Integration	Integrated fashion processes (existing)	SAP AFS not strategic anymore
Closed loop BW access	New analytics (planned)	Technology not strategic anymore

Note [2371605](#) - S4TWL - Retail Functionality not strategic anymore

SAP S/4HANA Simplification List

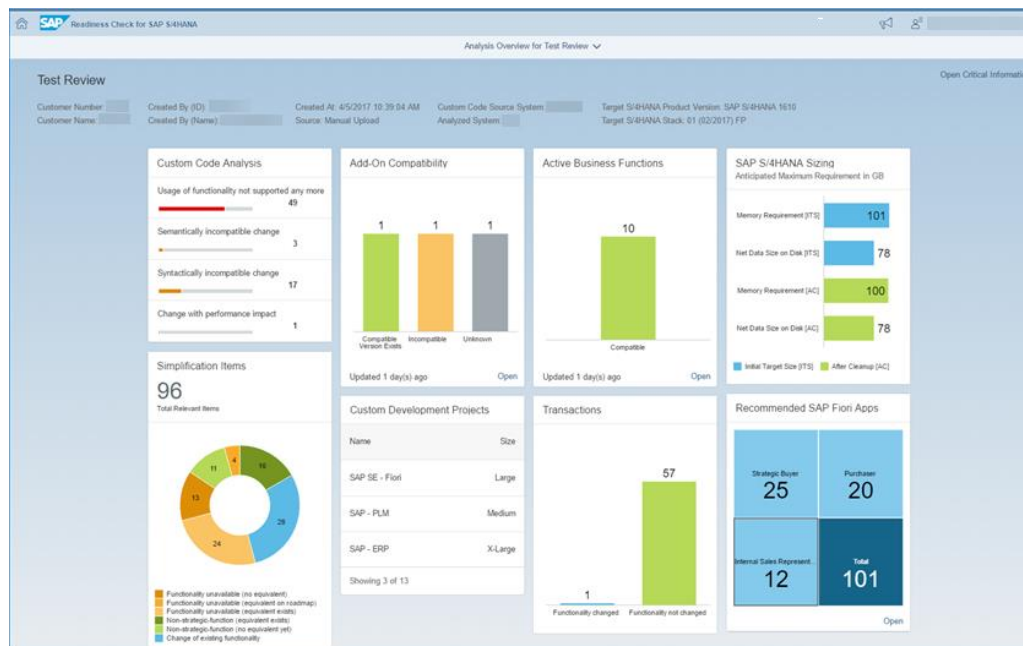
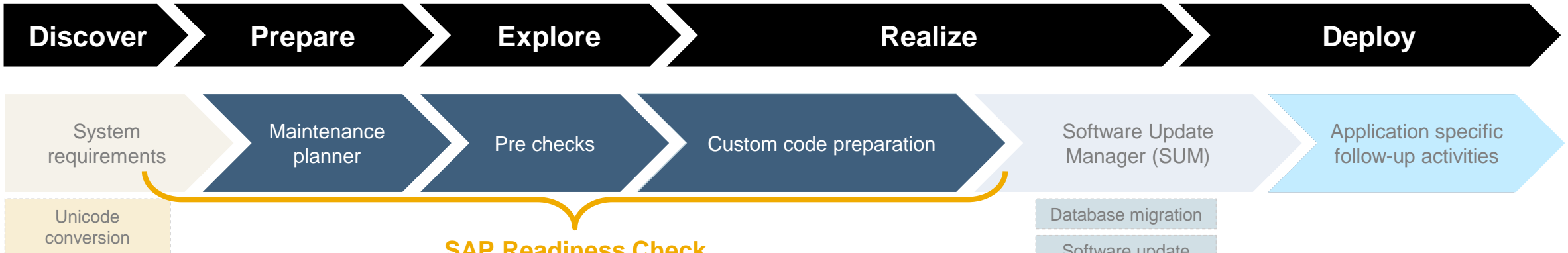
How to Access

■ The **Simplification List** is a collection of **Simplification Item**. Within a Simplification Item it is described what is the difference of a functionality between SAP Business Suite and SAP S/4HANA. A Simplification Items does have a simplification categories and provides information about potential impact for the customer. Based on the simplification item custom code check analysis can be executed. Related services offerings are available (or will be available over time).

- Note [2385984](#) - S4TWL - Simplification Items: SAP S/4HANA Retail for Merchandise Management, and SAP S/4HANA for Fashion and Vertical Business
- [SAP S/4HANA 1809 FPS01 Help](#)
 - select [Simplification List pdf](#)
- Note [2385984](#) - Simplification List for SAP S/4HANA as xls
- Simplification List via Transition DB
 - [external](#)
- Related information
 - [Transformation Navigator](#)

SAP S/4HANA Implementation

New SAP Readiness Check



- A holistic system analysis is the foundation for further planning steps toward a successful and smooth SAP S/4HANA system transition.
- The SAP Readiness Check for SAP S/4HANA summarizes the most important aspects of the conversion in an easily consumable way.

https://help.sap.com/viewer/p/SAP_READINESS_CHECK

SAP Readiness Check for SAP S/4HANA

Custom Code & Custom Dev

- Custom Code must be analyzed with respect to SAP S/4HANA compliance, based on the SAP simplification database
- SAP Readiness Check provides BOM of affected objects as well as SAP Custom Development Projects (CDP's)
- An in-depth custom code management activities to follow during project execution

Simplification items

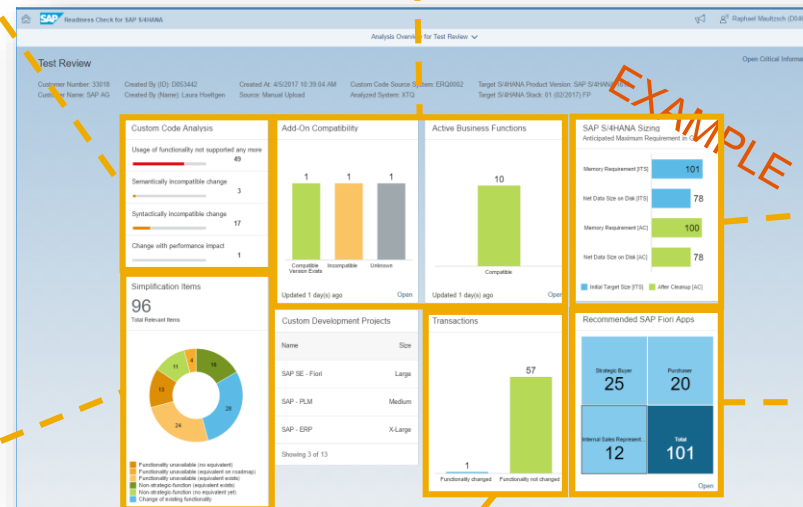
- Simplification Items represent application or architecture changes in comparison to ERP
- About 470 Simplification Items exist for SAP S/4HANA 1610
- They are grouped by business priority (e.g. Core Finance) and industry, respectively

AddOn's & Business Functions

- SAP AddOn's and Business Functions as well as 3rd party AddOn's have to be checked for their compatibility with SAP S/4HANA
- SAP software is listed and rated
- 3rd party software is listed only

S/4HANA Sizing

- To prepare for SAP S/4HANA, a system sizing is the baseline for further discussions regarding the future target size
- SAP Readiness Check summarizes the technical sizing result so that customers can further engage internally, with SAP or with partners to discuss the future target system size



EXAMPLE

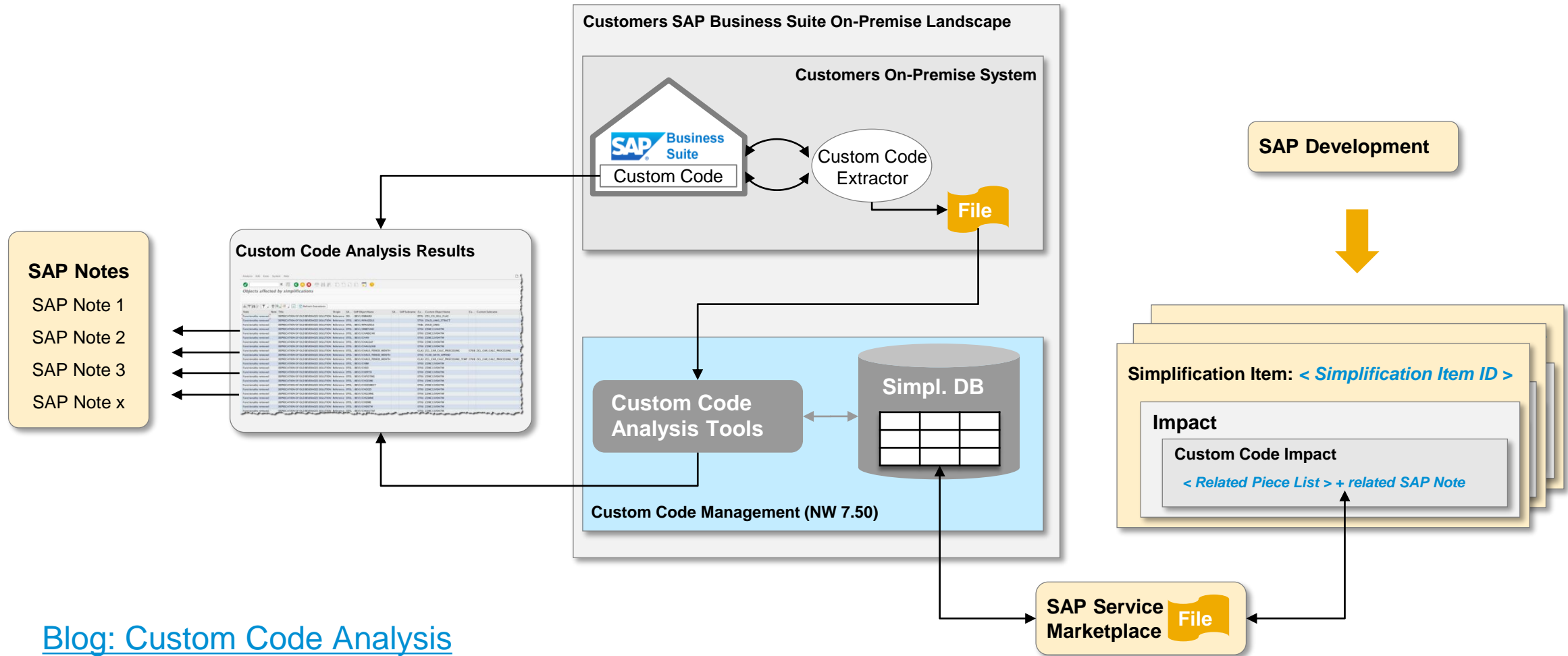
Recommended Fiori Apps

- Fiori apps recommended based on the transaction usage history in the evaluated system

Transactions

- SAP GUI transactions replaced or deprecated in SAP S/4HANA, such as Classic MM-PUR GUI transactions

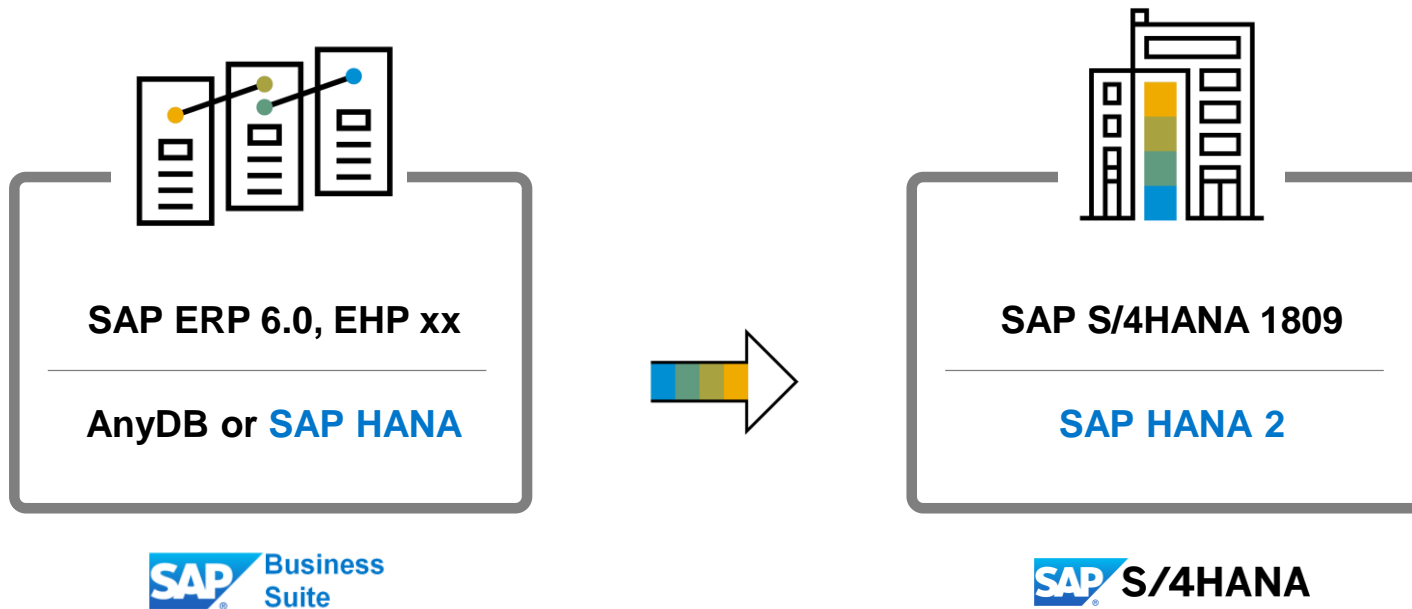
SAP S/4HANA - Custom Code Analysis



[Blog: Custom Code Analysis](#)

SAP S/4HANA

System Conversion – Transition Paths Overview



It is recommended to go to SAP S/4HANA **without previously exchanging** the Database to SAP HANA on SAP ERP

System Conversion Paths (basically)
From SAP Business Suite
(ERP6.0, EHP xx, Any DB or SAP HANA DB)
to SAP S/4HANA 1809 SPS00

Note 1: For older SAP Business Suite releases or systems on Non-Unicode an additional step to SAP ERP 6.0 EHPxx is required.

Note 2: System has to be an AS ABAP-only system. Dual-stack systems (AS ABAP and AS Java combined in one system) are not supported for the conversion. If your system is as dual-stack system, you have to split it before doing the conversion.

Note 3: SAP Suite on HANA customers who are planning a system conversion to SAP S/4HANA 1809 should first update the database from SAP HANA 1 to SAP HANA 2 and then do the system conversion (either in the same or a separate downtime).

Start Release	Target Release	Availability	Remarks
SAP ECC 6.0 EHP 0-8	SAP S/4HANA 1809	Available since Q4/2018	Migration to SAP HANA 2 DB [if required], Installation of S4CORE Software

System Conversion requirements incl. min./max. SP-level on source system:



[2625407-SAP S/4HANA 1809: Release Information Note](#)

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