

Warehouse Management in SAP S/4HANA Cloud

What's New in 2105

May 2021
EWM Development, SAP SE

PUBLIC

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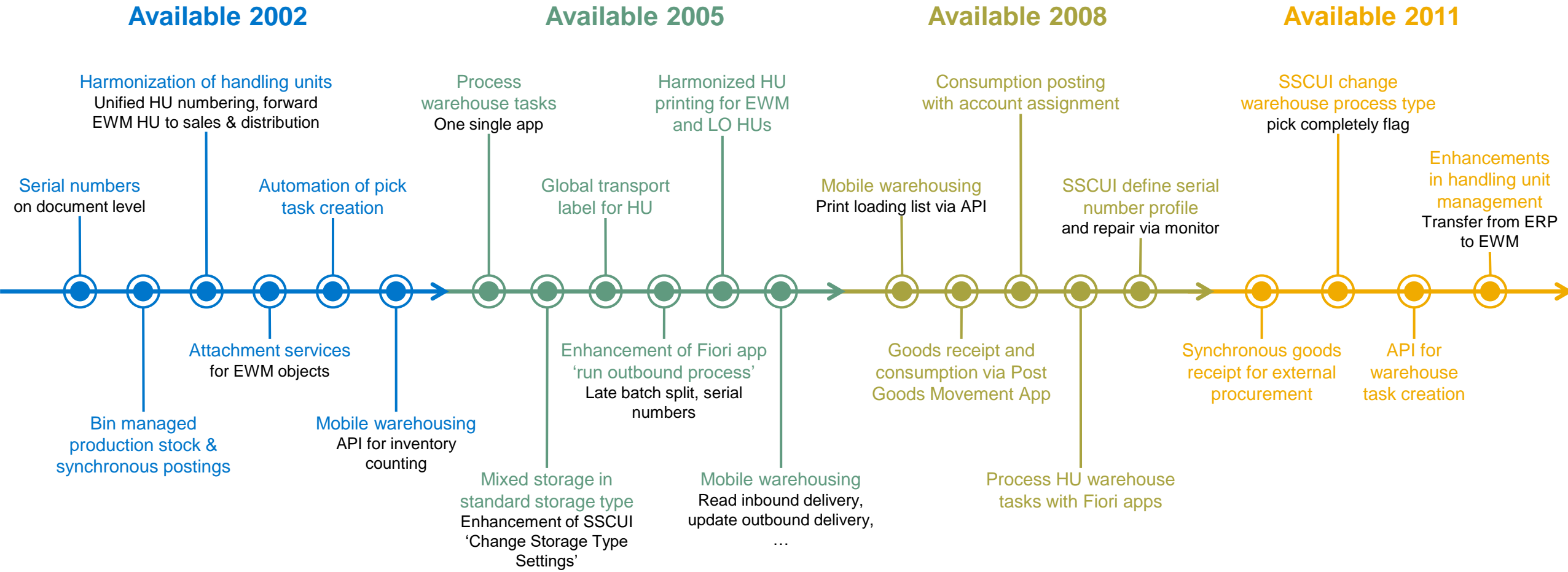
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Recap SAP S/4HANA Cloud – Warehouse Management

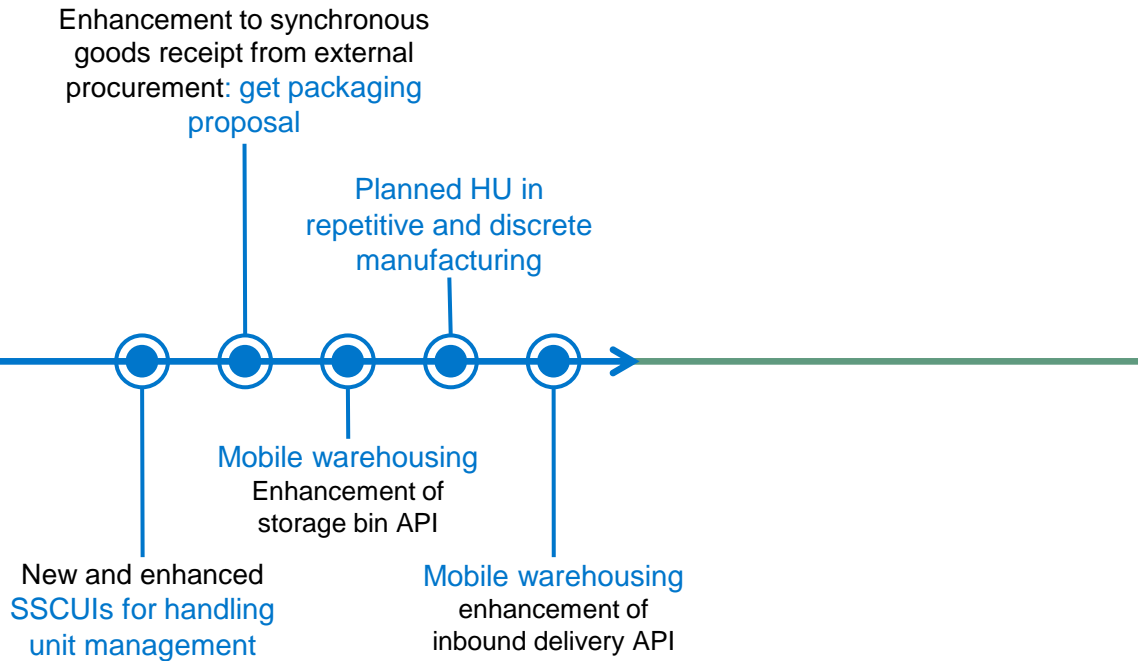
Innovations in 2020



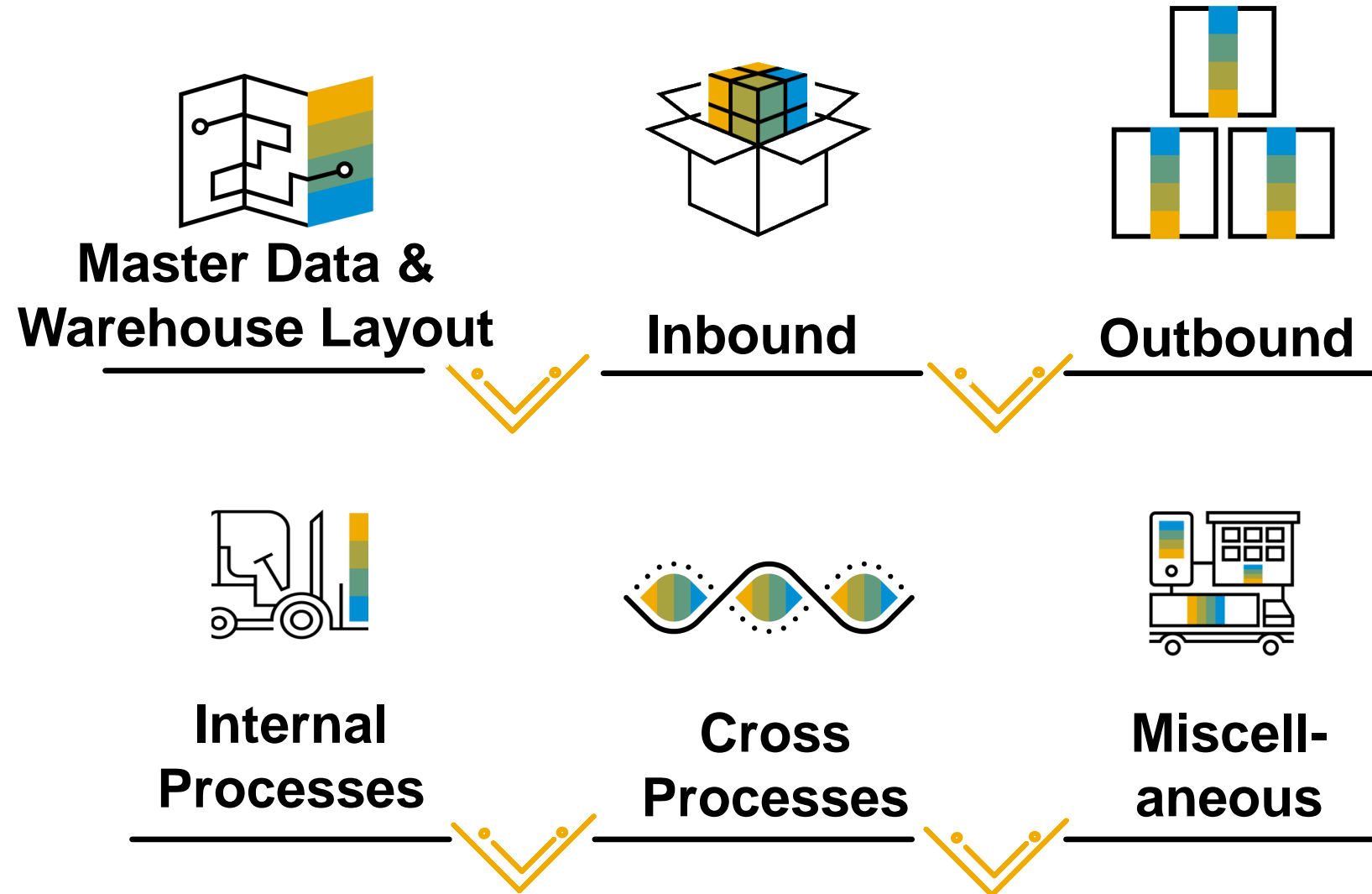
Recap SAP S/4HANA Cloud – Warehouse Management

Innovations in 2021

Available 2102

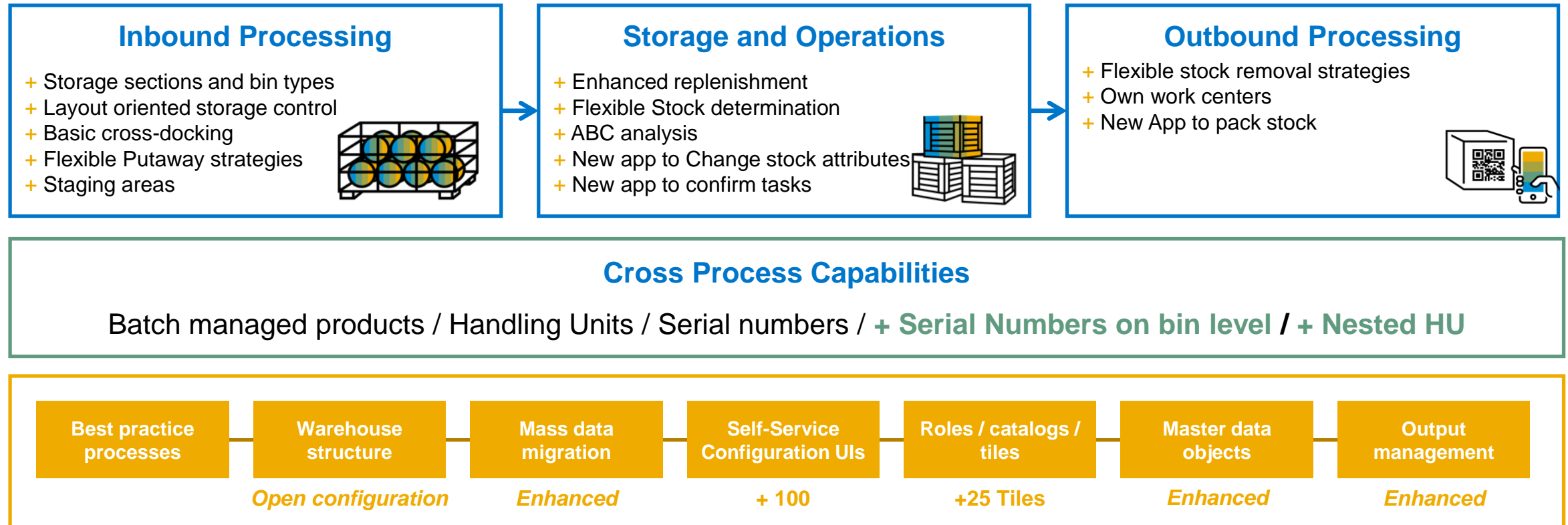


Areas of Investment in SAP S/4HANA Cloud 2105

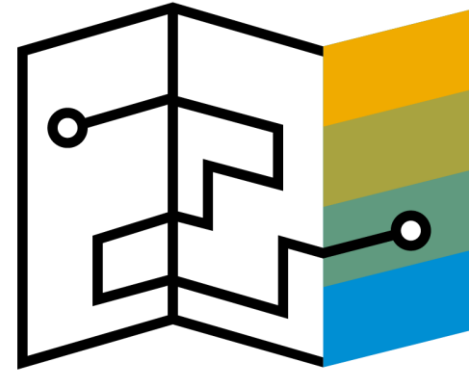


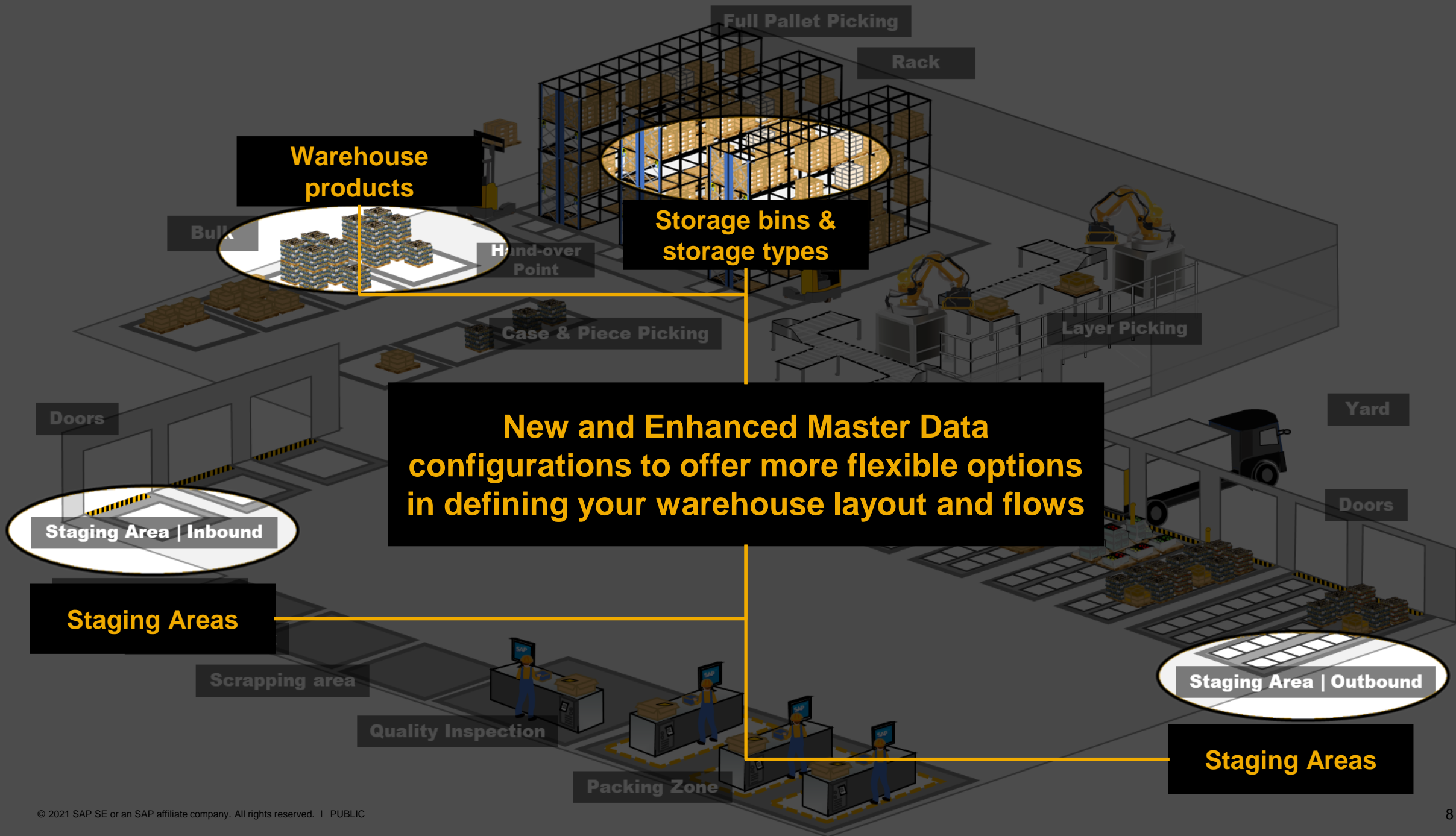
Additional Scope in S/4HANA Cloud Warehouse Management

SAP S/4HANA Cloud 2105 compared to the 2102 release



Master Data & Warehouse Layout





Master Data – Storage Bins

Motivation

- Have more flexibility in defining the warehouse layout

New attributes in storage bin master

- Storage Sections (subdivisions of storage types)
- Storage Bin Types (e.g. for large or small pallets)
- Bin Access Types (reflects resource type's ability to access stock in a bin)

New configuration options

- Define Storage Sections
- Define Storage Bin Types including details like max volume weight and dimension of the bin type
- Define Bin Access Types
- Define Storage Bin Identifiers for Bin structures (used for Mass creation)
- Activate change documents

New attributes

SAP Change Storage Bin

Delete Create Display More ▾

* Warehouse No.: 1050 Warehouse

* Storage Bin: CL - AREA

Storage Bin Stock Physical Inventory Bin Sectioning Statistic Activity Areas Warehouse Tasks PSA

Storage Type: S970 Clarification Zone

Storage Section:

Bin Access Type:

Stor. Bin Type:

Stor. Grp:

Fixed Bin Type:

Maximum Weight: KG %

Max. Volume: CD3 %

Total Capacity:

Bin Aisle:

Stack:

Bin Level:

Bin Sectn:

No. of HUs: 7

Weight Used: 39,911.700

Loading Volume: 407,446

X Coordinate:

Y Coordinate:

Z Coordinate:

App Change Storage Bin

Master Data – Storage Types

Motivation

- Provide even more warehouse layout and storage control configuration options

New fields in the “Details” tab

- Storage Type Role
- Storage Behavior
- Level of Available Quantity
- Available Quantity: Batches
- ...

Master Data						
Description	Configuration Steps	Comments				
5. Set warehouse Address	Open Set Status	Mandatory	Yes	102657	Configure	▼
6. Define Warehouse Number Control	Open Set Status	Recommended	No	104735	Configure	▼
7. Define Warehouse Attributes	Open Set Status	Mandatory	No	102480	Configure	▼
8. Create Storage Types Using Templates	Open Set Status	Mandatory	No	102519	Configure	▼
9. Maintain Storage Types	Open Set Status	Recommended	No	102666	Configure	▼
10. Define Storage Sections	Open Set Status	Optional	No	104453	Configure	▼

<

SAP

Change View "Maintain Storage Types": Details

New Entries

Copy As...

Undo Change

Previous Entry

Next Entry

Other Entry...

More ▾

Warehouse No.:

1050

Warehouse

Storage Type:

M920

Goods Issue with Determination

Stor. Type Template:

A Standard Storage

▾

General

Storage Type Role:

D Staging Area Group

▾

Level of Avail. Qty:

Highest-Level HU

▾

HU Requirement:

HU Allowed But Not Required

▾

Max. No. Bins:

Check Max.No.Bins:

☐

Use Fixed Bins:

☐

Fixed Bin Not Autom.:

☐

No Capacity Update:

☐

Storage Behavior:

Standard Warehouse

▾

Avail. Qty: Batches:

Available Quantity: Batch-Specific

▾

Qty Classific.:

Do Not Explode Prod.:

☐

Putaway Control

Confirm Putaway:

☒

Don't Put Away HUs:

☐

SSCUI Maintain Storage Types -> Maintain Storage Types Details

Master Data – Warehouse Products

New attributes in the warehouse product

- Product group
- Process Block Profile
- Warehouse storage condition

New or enhanced configuration options

- Define Warehouse Material group
- Define Process Block Profile
- Activate Process Block Profile
- Define Unit of Measure Attributes - enhanced
- Define Warehouse Storage conditions
- Define Handling Indicators
- Define Quantity Classifications



Quantity classifications allow you to describe in which packing unit a product is stored in the warehouse.

Trad.Good 11,PD,Reg.Trading /

1050

Product Type: HAWA Base Unit of Measure: PC Reference Product:
Product Category: GTIN:
Product Group: L001 GTIN Category:

General Information Quality Inspection Putaway Stock Removal Storage Types

Warehouse Number: Warehouse (1050)
Party Entitled to Dispose: Werk 1010 als Geschäftspartner (10411010)
Process Block Profile:
Process Type Determination Indicator: Control Indicator S1 (S1)

Product Load Category:
Cycle Counting Indicator:
Required Minimum Shelf Life: 0,00 DAY
Backflush Withdrawal:

Correlation Fix:
Consumption Relevant for VAS:
Documentary Batch: No Documentary Batch
Adjustment Profile:

Quantity Classification for Merchandise Distribution: Eaches (1)
Preferred Unit of Measure:

App Manage Product Master Data

Change View "Define Quantity Classifications"

New Entries






	Qty Class.	Description
<input type="checkbox"/>	1	Eaches
<input type="checkbox"/>	2	Cartons
<input type="checkbox"/>	4	Pallets

SSCUI Define Quantity Classifications₁

Master Data – Warehouse Products

Quantity classifications

SAP Change View "Maintain Storage Types": Details


New Entries      More ▾

Warehouse No.: 1050 Warehouse

Storage Type: ZB01 Bulk Storage

Stor. Type Template: C Bulk Storage ▾

General

Storage Type Role: Standard Storage Type ▾	Storage Behavior: 2 Bulk Storage ▾
Level of Avail. Qty: 1 Storage Bin ▾	Avail. Qty: Batches: Available Quantity: Batch-Specific ▾
HU Requirement: X HU Requirement ▾	Qty Classific.: 
Max. No. Bins: <input type="text"/>	Do Not Explode Prod.: <input type="checkbox"/>
Check Max.No.Bins: <input type="checkbox"/>	
Use Fixed Bins: <input type="checkbox"/>	
Fixed Bin Not Autom.: <input type="checkbox"/>	
No Capacity Update: <input type="checkbox"/>	

Putaway Control

Conf.Putaway: <input checked="" type="checkbox"/>	Don't Put Away HUs: <input type="checkbox"/>
HU Type Check: <input type="checkbox"/>	Check Max.St.TypeQty: <input type="checkbox"/>
Putaway Rules: 2 Addition to Existing Stock/Empty ... ▾	Delete SI: <input checked="" type="checkbox"/>
Addn.Stock Forbidden: Addition to Existing Stock Permitted ▾	SrchRule EmptyBin: Sorting According to Definition ▾
StorSectionChk: No storage section determination ... ▾	Level: Add. to Stock: Addition to Stock at Bin Level ▾
Split During Putaway: Do not Split During Putaway ▾	Capacity Check: 4 No Check Against Key Figure, W... ▾



This field is used to determine the storage type in which the product is stored in the optimal packing unit

SSCUI Maintain Storage Types

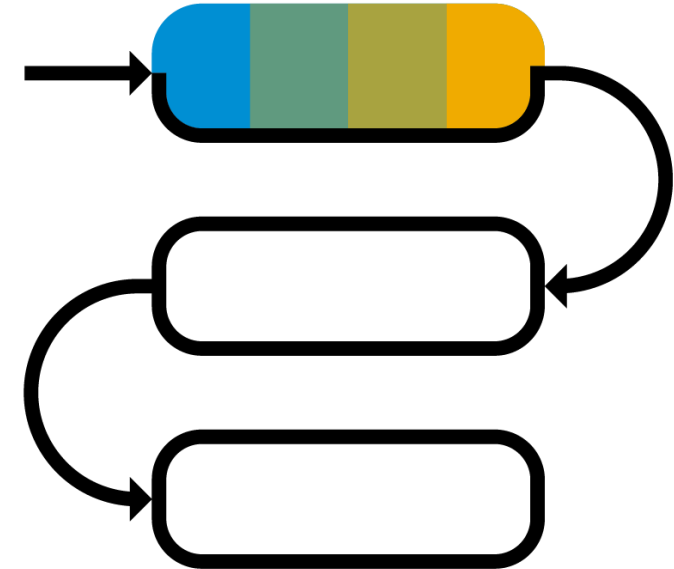
Master Data – Staging Areas



Staging areas in the warehouse are used to provide interim storage for goods after unloading or before loading.

New or enhanced configuration options (master data)

- NEW: Determine staging area – inbound
- Determine staging area – outbound
- NEW: Define access sequence – staging areas inbound
- Define access sequence – staging areas outbound



Master Data – Staging Areas

Determine staging area in inbound

Determine staging area based on warehouse process type, carrier, ship-from party etc.

<

SAP

Change View "Determine Staging Area - Inbound": Overview

New Entries

Copy As...

Delete

Undo Change

Select All

Deselect All

More ▾

Warehouse No.:

1050

Determine Staging Area - Inbound

	Whse Proc. T...	SA/DDetGrp	Carrier	Ship-from	Seq. ...	StgAreaGrp	StgArea	Staging Bay	
<input type="checkbox"/>	MP10	MPDG			1	M910	MP91	GR - AREA - MP - 910	
<input type="checkbox"/>	S110				1	S910			
<input type="checkbox"/>	S210				1	S910		GR - AREA	
<input type="checkbox"/>									

SSCUI Determine Staging Area - Inbound

Master Data – Staging Areas

Determine staging area in outbound

Determine staging area based on warehouse process type, carrier, ship-from party etc.

<

SAP

Change View "Determine Staging Area - Outbound": Overview

Details

New Entries

Copy As...

Delete

Undo Change

Select All

Select Block

Deselect All

More ▾

Warehouse No.:

1050

Determine Staging Area - Outbound

	Route	Whse Proc. Type	SA/D...	Carrier	Ship-To	Seq. No.	Stg. Area Group	StgArea	Staging Bay
<input type="checkbox"/>				10300001		1	S920		GI - AREA - 02
<input type="checkbox"/>			DDG1			1	S920		GI - AREA - 02
<input type="checkbox"/>			MPDG			1	M920	MP10	GI - AREA - MP
<input type="checkbox"/>		S210				1	S920		GI - AREA - 01
<input type="checkbox"/>		S210				2	S105		
<input type="checkbox"/>		Z210				1	S920		GI - AREA - 01
<input type="checkbox"/>									

Fiori App *Determine Staging Area - Outbound*

Master Data – Staging Areas

Determine staging area in outbound

Define the access sequence for staging areas in Outbound

<

SAP

Change View "Define Access Sequence - Staging Areas - Outbound": Overv

New Entries

Copy As...

Delete

Undo Change

Select All

Select Block

Deselect All

More ▾

Warehouse No.:

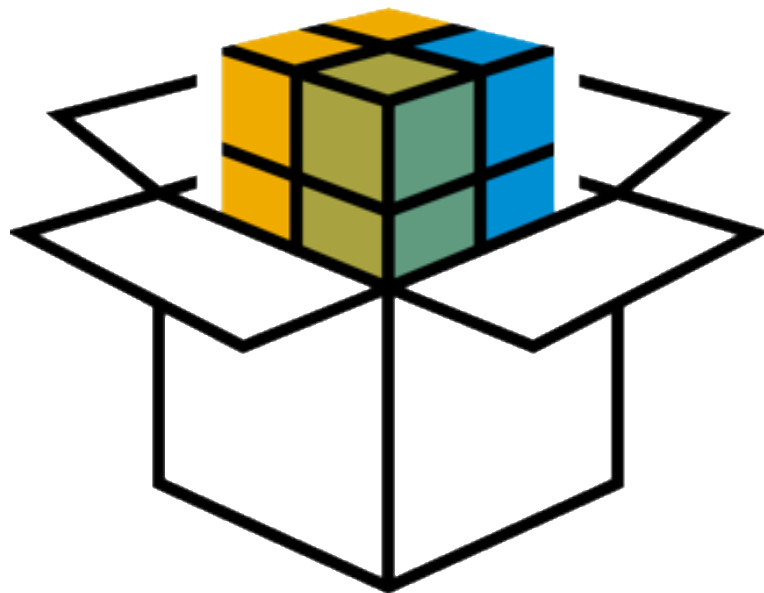
1050

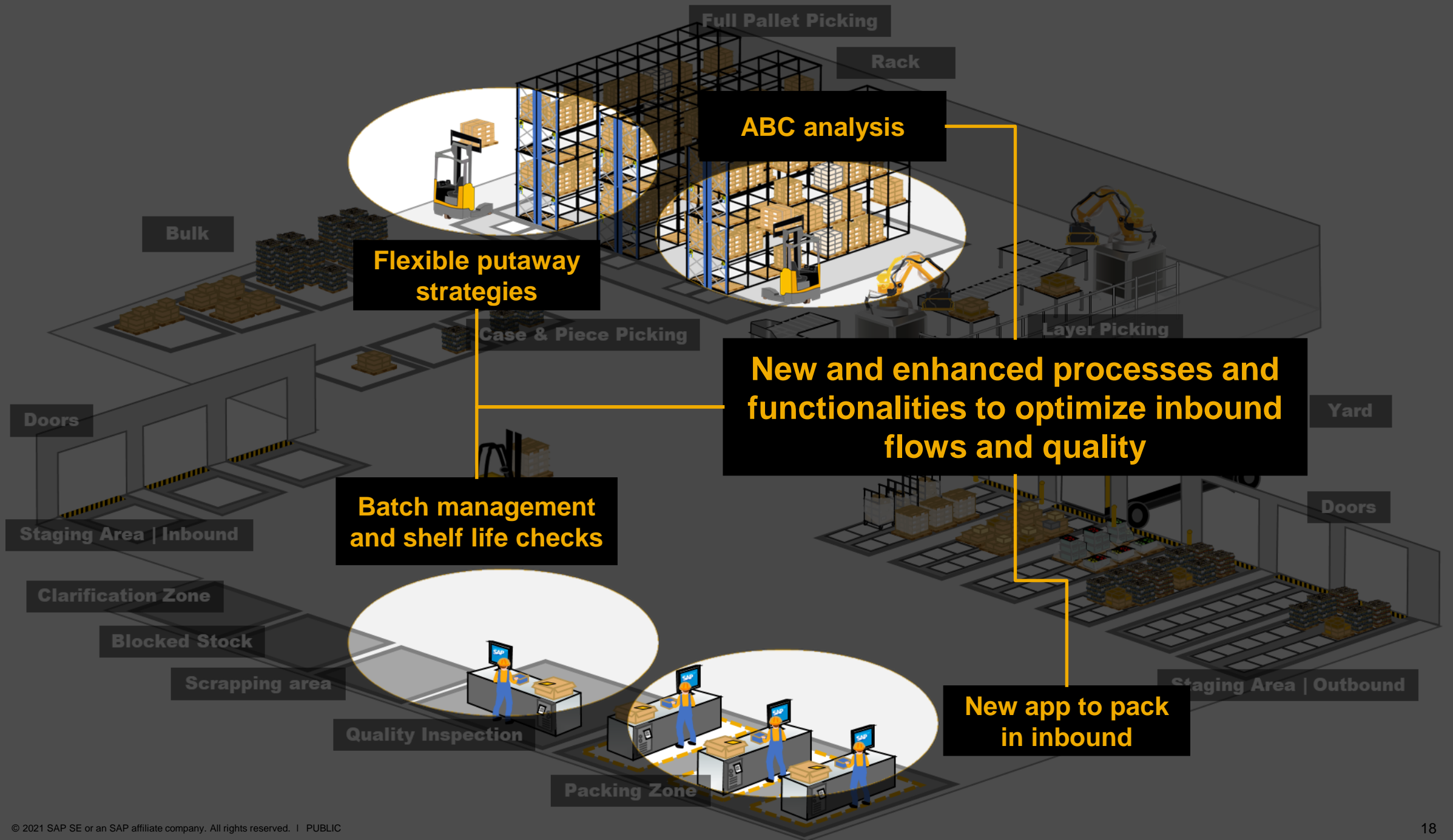
Define Access Sequence - Staging Areas - Outbound

	Access Seq. No.	Route	WhPrTyp	DetGrp	ShipTo	Carrier	
<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>							

Fiori App *Define Access Sequence – Staging Areas - Outbound*

Inbound





New Flexibility for Putaway Strategies

Overview

Motivation

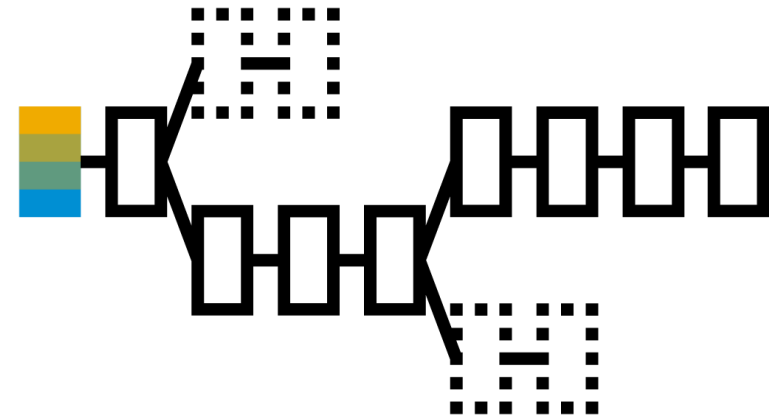
- Determine the most suitable destination storage bins during putaway

New capabilities

- More granular definition of bulk storage
- Support of bin divisions (which type of pallets fit into one bin)
- Near to fixed bin search
- Storage Type search sequences to find the best suitable bin in the warehouse across multiple storage types

New or enhanced configuration options

- Define Putaway Control Indicator
- Define Bin Sections
- Perform bin sectioning by HU type and bin type
- Define Storage Type control for bulk storage
- Define Storage Type control Near to Picking Fixed Bin
- Define Bulk Storage Indicators - enhanced with more maintenance options
- Define Bulk Structures – enhanced with more maintenance options
- Define Storage Type Search Sequence and assign storage types



New Flexibility for Putaway Strategies

Assign multiple storage types to storage type search sequence

Before 2105

- Only one storage type could be assigned to a storage type search sequence
- During putaway bin determination, only one storage type was considered

With 2105

- It is possible to assign multiple storage types to a storage type search sequence
- During putaway bin determination, multiple storage types can be considered to find a suitable bin



According to the sequence number, the system searches first in storage type S001 and then in storage type S970 for a suitable bin

Storage Type Search Sequence for Putaway						
	WhN	Srch Seq.	Seq. No.	Ty.	STG	Description
<input checked="" type="checkbox"/>	1050	S001	1	S001		Search Sequence
<input checked="" type="checkbox"/>	1050	S001	2	S970		Search Sequence
<input type="checkbox"/>	1050	S970	1	S970		Search Sequence
<input type="checkbox"/>	1050	SB01	1	SB01		Search Sequence
<input type="checkbox"/>	1050	SB01	2	S970		Search Sequence

SSCUI Assign Storage Types to Storage Type Search Sequence

Business Benefit: optimize space utilization with capabilities to find the best suitable bin in the warehouse

Batch Management and Remaining Shelf Life Check in Inbound Delivery

New SSCUI available

Scope

- Control batch management in the inbound delivery
- Define batch processing in deliver, e.g. post goods receipt to restricted batches
- Specify how a batch is to be created during the processing of inbound deliveries, e.g. activate the creation of batches in the background
- Specify how a batch is to be classified.
- Specify how the check for the best before date or shelf life expiration date is to occur

 Define how batches are created

SAP Change View "Batch Management in the Delivery: Inbound Delivery": Over

Batch Management in the Delivery: Inbound Delivery

	Doc. Cat.	War...	Item Type	Doc. Type	GM OK Rstd	Create	Classif.	Check BBD/SLED
<input type="checkbox"/>	PDI	1050	DIG1	DIG1	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	1050	DIG2	DIG2	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input checked="" type="checkbox"/>	PDI	1050	ELN	EL	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	1750	DIG1	DIG1	<input checked="" type="checkbox"/>	Manual Batch Creation Allowed		Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	1750	DIG2	DIG2	<input checked="" type="checkbox"/>	A Batch Creation Not Allowed		Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	1750	ELN	EL	<input checked="" type="checkbox"/>	B Create Batch in the Background, Ext. Number Assignment Only		Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	DG01	DIG1	DIG1	<input checked="" type="checkbox"/>	C Create Batch in the Background, Ext. and Int. Number Assgmt		Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	DG01	DIG2	DIG2	<input checked="" type="checkbox"/>			Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	DG01	ELN	EL	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	FLBP	DIG1	DIG1	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	FLBP	DIG2	DIG2	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	FLBP	ELN	EL	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	FLRP	DIG1	DIG1	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	FLRP	DIG2	DIG2	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>	PDI	FLRP	ELN	EL	<input checked="" type="checkbox"/>	Manual Batch Creation A	Classification Using SAP	Do Not Lock Item, Minim:
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								

SSCUI Batch Management and Remaining Shelf Life Check in the Inbound Delivery

Business Benefit: increase efficiency in the inbound process by automatically creating batches, more flexibility

Option to Automatically Delete Fixed Bin Assignments

New SSCUI available

Scope

- Configure when the assignment for fixed bins are deleted
- You have the following options:
 - Delete the assignment **when the bin is empty**
 - **Never delete** the assignment automatically

SAP Display View "Delete Fixed Bin Assignment": Overview				
Select All Deselect All Configuration Help More ▾				
Delete Fixed Bin Assignment				
	WhN	Ty.	WhsProdGrp	ModeFBin
<input type="checkbox"/>	1050	S001		Never delete automatically
<input type="checkbox"/>	1050	SF01		Delete if bin is empty
<input type="checkbox"/>				
<input type="checkbox"/>				

SSCUI Delete Fixed Bin Assignment

New App to Pack in Inbound

Nested handling units, products with serial numbers, change stock attributes

Motivation

- Provide more options to manage handling units (HUs) including nested HUs

Scope

- Packing in inbound
- Manage serial numbers
- Pack nested handling units
- Change stock attributes

App Work Center Packing for Inbound Delivery

Work Center Packing for Inbound Delivery (Time Zone CET)

Message Log Refresh More

Warehouse/HU/Item Product PckQty Alt. Unit

Warehouse/HU/Item	Product	PckQty	Alt. Unit
1050			
MPs MP-1 DO NOT USE !!!	TG11-MP-1	2	PC
MPs Trad Good 11.PD.Reg.Trading	TG11-MP	2	PC
300017497	PMPALLET		
MPs MP-1 DO NOT USE !!!	TG11-MP-1	2	PC
300017495	PMPALLET		
MPs Trad Good 11.PD.Reg.Trading	TG11-MP	1	PC
300017496	PMPALLET		
MPs Trad Good 11.PD.Reg.Trading	TG11-MP	1	PC

Create HU Repack HU Repack Product Change HU

HU: Pack. Material: HU/Storage Bin: Cons.Grp: Number of HUs: Collective HU: Execute

Not Packed

Line Cat.	Product	Partial Qty
	TG11-MP	0
	TG11-MP-1	0

Pack 5/No

Change Inbound Deliveries

Delivery 180000958

Warehouse Number: Warehouse (1050) Vendor: Inlandslieferant DE 1 (10300001) Time Zone: CET Number of Items: 2

General Data Items Attachments

Planned Div. Date: 22.02.2021, 00:00 Carrier: ASN: LE Delivery: 180000958

Packing Handling Units

Mixed Handling Unit

Delivery Item is packed in nested Handling Units. Use 'Packing' to get an overview of the complete HU information

Packaging Material: PMPALLET Handling Unit: 300017497 Pack.Mat.Descr.: PALLET Vendor: 10300001 Handling Unit Type: SP1 HU Type Descr.: Pallet

Standard

Product	Batch	Packed Quantity	Purchase Order	Loading Weight
TG11-MP-1		2,000 PC	4500008593	2,000 KG
TG11-MP		2,000 PC	4500008593	2,000 KG

Close Delete Mixed HU

ABC Analysis of Products

New app to perform ABC analysis

New capabilities

- Categorize the importance of products based on confirmed warehouse tasks
- Update the putaway strategy of the affected products based on the ABC classification
- Background processing supported

Set ABC categories, desired putaway control indicator (PACI), storage section indicator and cycle counting indicator for product category



< **SAP** ABC Analysis Report

Save as Variant... Get Variant... More ▾

Location & Product Selection

* Warehouse Number:

Party Entitled to Dispose: to:

Product: to:

Whse Product Group: to:

Exclude Products w/o WTs: ☐

Confirmed Product Warehouse Task Selection

Confirmation Date: to:

Whse Proc. Category: to:

Whse Process Type: to:

Source Storage Type: to:

Dest. Storage Type: to:

Alt. Unit of Measure: to:

Analysis Strategy Selection

* ABC Analysis Basis: ▾

No. of ABC Categories:

Analysis Basis in %: ☒

Analysis Basis in No.: ☐

No. of Products in %: ☐

Number of Products: ☐

Update PACI: ☐

Upd. StorSecInd: ☒

* StoSecInd Upd Level: ▾

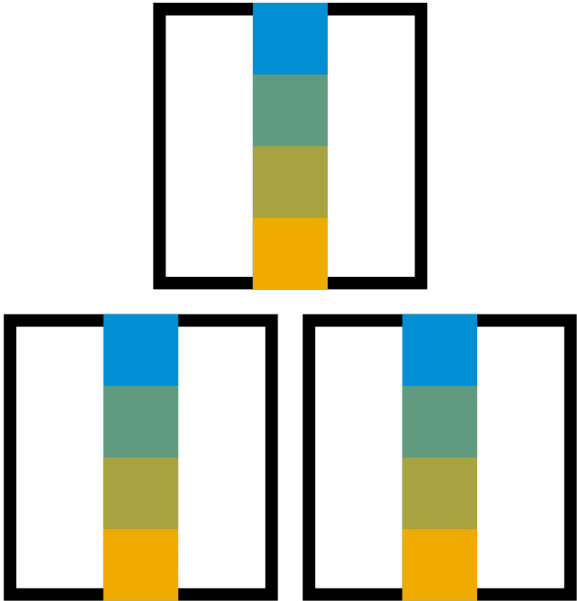
Upd. CC Ind.: ☒

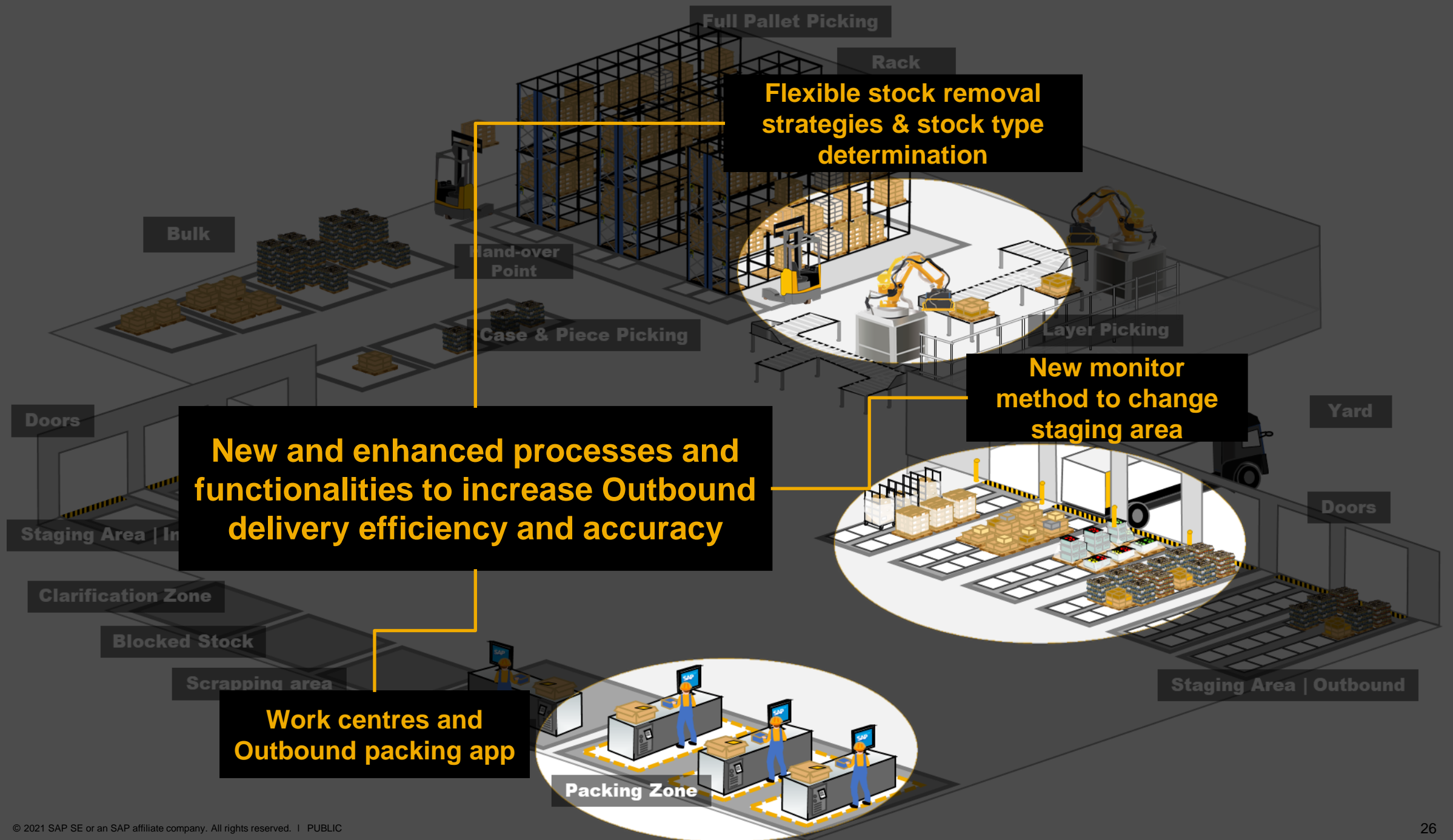
Category 1: <input type="text" value="A"/>	Category Limit 1: <input type="text" value="80"/>	PACI 1: <input type="text"/>	StorSecInd 1: <input type="text" value="ZI0A"/>	CC Ind. 1: <input type="text" value="A"/>
Category 2: <input type="text" value="B"/>	Category Limit 2: <input type="text" value="15"/>	PACI 2: <input type="text"/>	StorSecInd 2: <input type="text" value="ZI0B"/>	CC Ind. 2: <input type="text" value="B"/>
Category 3: <input type="text" value="C"/>	Category Limit 3: <input type="text" value="5"/>	PACI 3: <input type="text"/>	StorSecInd 3: <input type="text" value="ZI0C"/>	CC Ind. 3: <input type="text" value="C"/>

Background Processing

☐ Update Indicators in Background Processing Mode

Outbound





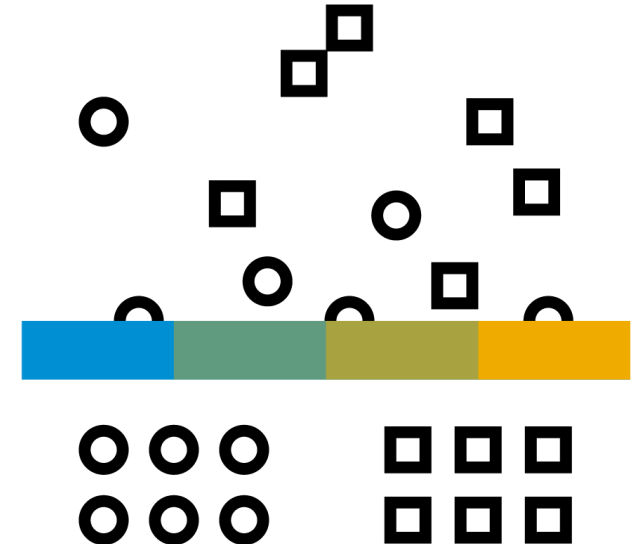
New Flexibility For Stock Removal Strategies

New capabilities

- Storage type search sequences to find the best suitable bin in the warehouse for stock removal across multiple storage types

New or enhanced configuration options

- Define storage type search sequence for stock removal and assign storage types
- Define material group for storage type search sequence



Business Benefit: optimize space utilization with capabilities to find the best suitable stock item in the warehouse

New Flexibility For Stock Removal Strategies

Assign multiple storage types to storage type search sequence

Before 2105

- Only one storage type could be assigned to a storage type search sequence
- During stock allocation for stock removal, only one storage type was considered

With 2105

- It is possible to assign multiple storage types to a storage type search sequence
- During stock allocation for stock removal, multiple storage types can be considered to find the best suitable bin for stock removal

The screenshot shows the SAP SSCUI interface for 'Assign Storage Types to Storage Type Search Seq.'. The title bar indicates 'Change View "Assign Storage Types to Storage Type Search Seq.": Overvi'. The interface includes a 'Dialog Structure' pane on the left with 'Define Storage Type Search Seq.' and 'Assign Storage Types to Storage' options. The main area shows 'Warehouse No.: 1050' and 'Sequence: KEKA Search Sequence'. Below this is a table titled 'Assign Storage Types to Storage Type Search Seq.' with columns 'Sequence No.', 'Storage Type', and 'StTypeGrp'. The table has one row with '1' in the 'Sequence No.' column and 'KEKA' in the 'Storage Type' column. At the bottom, there is a 'Position...' button and 'Entry 1 of 1'.

Sequence No.	Storage Type	StTypeGrp
1	KEKA	

SSCUI Assign Storage Types to Storage Type Search Sequence

Work Center / Packing Station



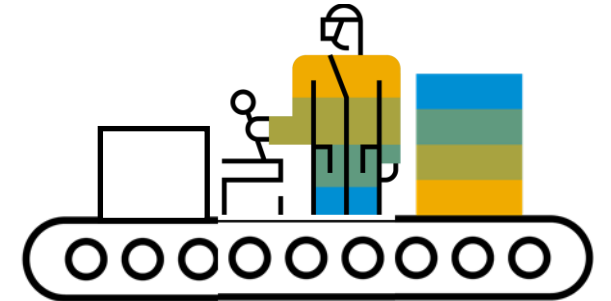
The work center is a physical unit in the warehouse in which activities such as packing, distribution or weighing are performed.

New configuration options

- Define customer own work centers / packing stations
- Configure work center layout to provide users only the information needed
- Specify how a work-center for outbound is being determined

New app to support more packing options like

- Packing nested Handling Units
- Specify additional handling unit attributes like dimensions, weights and volumes
- Pack products with serial numbers
- Change stock attributes in work center



Work Center / Packing Station

Define Own Work Centers / Packing Stations



Define which tab pages are visible in which area

SAP Change View "Work Center Screen Configuration": Details

New Entries Copy As... Undo Change Previous Entry Next Entry Other Entry... More ▾

Warehouse Number: 1050
Work Center Layout: VPMX
Description: Packing – Maximum Functionality
Transaction Type: Packing - General ▾

Tab Pages in Scanner Area	Tab Pages in Detail Area
<input checked="" type="checkbox"/> Display Scannr Area	<input checked="" type="checkbox"/> Display Detail Area
<input checked="" type="checkbox"/> Create HU	<input checked="" type="checkbox"/> HU Capacity
<input checked="" type="checkbox"/> Repack HU	<input checked="" type="checkbox"/> HU Detail 1
<input checked="" type="checkbox"/> Repack Product	<input checked="" type="checkbox"/> HU Detail 2
<input checked="" type="checkbox"/> Enter Differences	<input checked="" type="checkbox"/> HU Contents
<input checked="" type="checkbox"/> Change HU	<input checked="" type="checkbox"/> Stor. Bin
<input checked="" type="checkbox"/> Assign SNs	<input checked="" type="checkbox"/> Prod. in Storage Bin
<input checked="" type="checkbox"/> Assign SNs to Deliv.	<input checked="" type="checkbox"/> Product Details
<input checked="" type="checkbox"/> Focus on Stock	<input checked="" type="checkbox"/> Product Not Packed
Different Functions	
<input checked="" type="checkbox"/> Packing in Bin	<input checked="" type="checkbox"/> Texts for Product
<input checked="" type="checkbox"/> Delete HU	<input checked="" type="checkbox"/> Open WTs
<input checked="" type="checkbox"/> Empty HU	<input checked="" type="checkbox"/> Confirmed WTs
<input checked="" type="checkbox"/> HU Header Chgble	<input checked="" type="checkbox"/> Serial Nos
<input checked="" type="checkbox"/> Pack Add.Pack.Mat.	<input checked="" type="checkbox"/> Warehouse
<input type="checkbox"/> Reason Required	
Def. Exc. Code: <input type="text"/>	

SSCUI Specify Work Center Layout

Tree

☒ Display Tree Control

Display 2nd TreeCtrl:

Expand Tree Control: 3

☒ Drag&Drop



Enable drag & drop functionality

New App to Pack in Outbound

Alternative to Fiori app ,Pack Outbound Deliveries'

Motivation

- View the HU hierarchy
- Create, change, and delete HUs
- Repack HUs and products
- Post differences
- Repack batch-managed materials as well as products with a stock-level serialization requirement

Scope

- Packing in outbound
- Manage serial numbers
- Pack nested handling units
- Change stock attributes

App Run Outbound Process

SAP Run Outbound Process

undefined 80013940

Packing Handling Units

Goods Issue Reverse Goods Issue Investigate Block

General Data Items Attachments

Message Log Refresh More

Section/Bin/HU/Item	Product	PckQty AUUn	Alt. Unit	Quantity B...	Pack.
GI-AREA-01					
300017879	BI2-EUROPALLET				BI2-E
Trading Goods MEK_PROD_SNC		2	PC	2	PC

Product Serial Nos Open WTs, From Confirmed WTs, From

Product: MEK_PROD_SNC

Product Descr.: Trading Goods 0016,Reg.Proc., Serial No.

Batch: Restricted-use

Doc. Cat. Text: Outbound Delivery

Stock Reference: 80013940

Stock Type: F Unrestricted-Use

Disposal Party: 10411010 Werk 1010 als Geschäftspartner /

Owner: 10411010 Werk 1010 als Geschäftspartner /

Cons.Grp: 5000000372

App Work Center Packing for Outbound Delivery

Enhancement of App 'Post Goods Issue – Unplanned'

App available since S/4HANA Cloud 1811

New capabilities

- Support serial numbers on stock level
- Support reason for goods movements
- Support usage of storage sections



Enter serial numbers

Business Benefit: post goods issue for serialized stock, enter reason for goods movements

The screenshot shows the SAP 'Post Unplanned Goods Issue' app interface. The form is divided into several sections:

- Location Data:** Includes fields for Warehouse Number (1050), Storage Type, and Storage Bin.
- Product Data:** Includes fields for Product, Batch, Stock Type, Party Entitled to Dispose, Owner, Usage, Type, and Serial Number. The Serial Number field is highlighted with a blue arrow pointing from the 'Enter serial numbers' text.
- Handling Unit Data:** Includes fields for Handling Unit and to:.
- Display Mode:** Includes radio buttons for Display HU List and Display Stock List (selected), and a checkbox for Select Scrap Stock Only (checked).
- Processing:** Includes a dropdown for GI Process, and input fields for GI Document, Posting Date, Storage Location, Movement Reason, and Acct Assignment Cat.:

App Post Goods Issue - Unplanned

New Monitor Method to Change the Staging Area

For Outbound Delivery Orders

Motivation

- Provide more monitor methods to control the outbound delivery process

Scope

- Assign or change Staging Areas on item level
- Mass change the Staging Area for multiple lines in one step

The screenshot displays the SAP Warehouse Management Monitor interface for Whse. 1050 (Time Zone CET). The left sidebar shows a navigation tree with 'Outbound' selected. The main area shows 'Outbound Delivery Order' with a table of items. The 'Assign Staging Bay' dialog is open, showing 'Warehouse No.: 1050' and '* Staging Bay: GI-AREA-MP'. A context menu is visible over the 'Outbound Delivery Order Item' table, with 'Assign Staging Bay' highlighted.

Outbound Delivery Order

	Blocked (Overall)	Document	Doc. Type	Route	PlndRteDep.Dte	Rte Dep. Tme	Warehouse Activity Status	Carrier	Packing Status
<input type="checkbox"/>	<input type="checkbox"/>	80010524	LF	TR0001	02/01/2021	00:00:00	Completed		Not started
<input type="checkbox"/>	<input type="checkbox"/>	80010555	LF	TR0001	02/02/2021	00:00:00	Completed		Not started
<input type="checkbox"/>	<input type="checkbox"/>	80010556	LF	TR0001	02/02/2021	00:00:00	Completed		Not started
<input type="checkbox"/>	<input type="checkbox"/>	80010570	LO		02/02/2021	00:00:00	Partially Completed		Not started
<input checked="" type="checkbox"/>	<input type="checkbox"/>	80010571	LO		02/02/2021	00:00:00	Not Started		Not started

Outbound Delivery Order Item

	Blocked (Overall)	Doc	Type
<input checked="" type="checkbox"/>	<input type="checkbox"/>	80010571	LO

Assign Staging Bay

Warehouse No.: 1050

* Staging Bay: GI-AREA-MP

Continue Cancel

App Warehouse Monitor

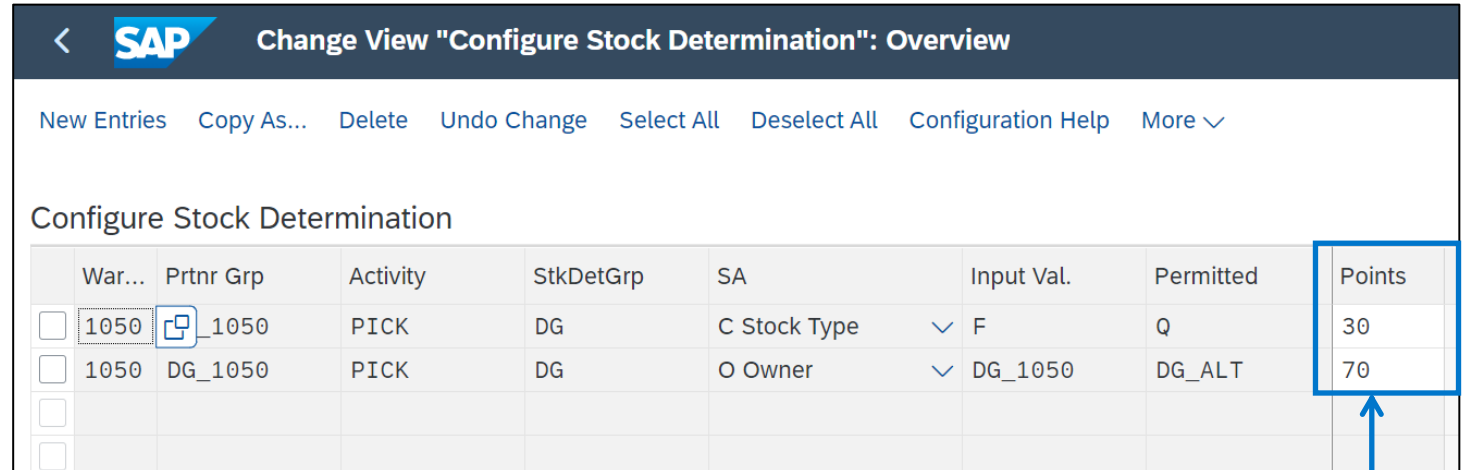
Stock Type Determination


Motivation

- Allow the creation of stock determination groups and assign them to warehouse products.

Scope

- Define whether the stock is prioritized by the stock determination or whether it just adds additional stock to the regular removal bin determination
- If valid stock determination group for a product is maintained, the system performs stock determination
- Maintain multiple records to specify which additional stock types or owners can be used based on the requested stock type and owner



Change View "Configure Stock Determination": Overview								
New Entries Copy As... Delete Undo Change Select All Deselect All Configuration Help More ▾								
Configure Stock Determination								
	War...	Prtnr Grp	Activity	StkDetGrp	SA	Input Val.	Permitted	Points
<input type="checkbox"/>	1050	 _1050	PICK	DG	C Stock Type ▾	F	Q	30
<input type="checkbox"/>	1050	DG_1050	PICK	DG	O Owner ▾	DG_1050	DG_ALT	70
<input type="checkbox"/>								
<input type="checkbox"/>								

SSGUI Configure Stock Determination

Prioritize records by
assigning point to them

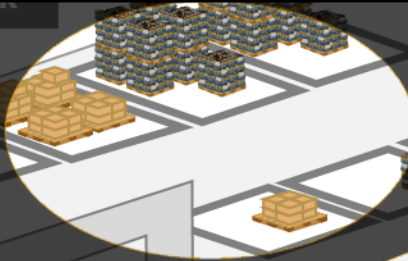


Internal Processes



New and enhanced internal processes for better stock accuracy and faster fulfilments

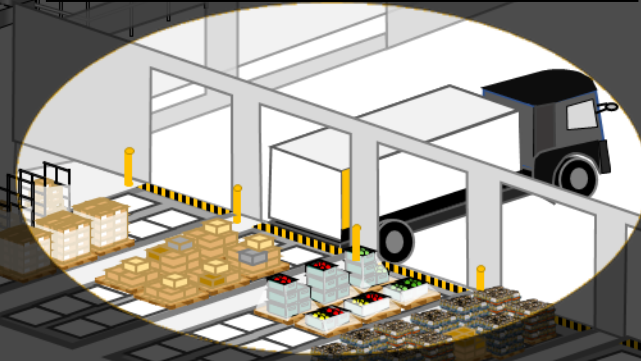
Change stock attributes



New replenishment option

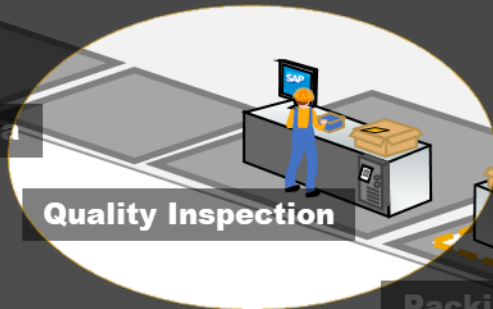


New cross-dock option



Quality Management enhancements

Quality Inspection



Packing Zone

Full Pallet Picking

Hand-over Point

Doors

Staging Area | Inbound

Clarification Zone

Blocked Stock

Scrapping area

Yard

Doors

Staging Area | Outbound

Enhancements to Physical Inventory Processing

Overview

Support stock based serial numbers in counting:

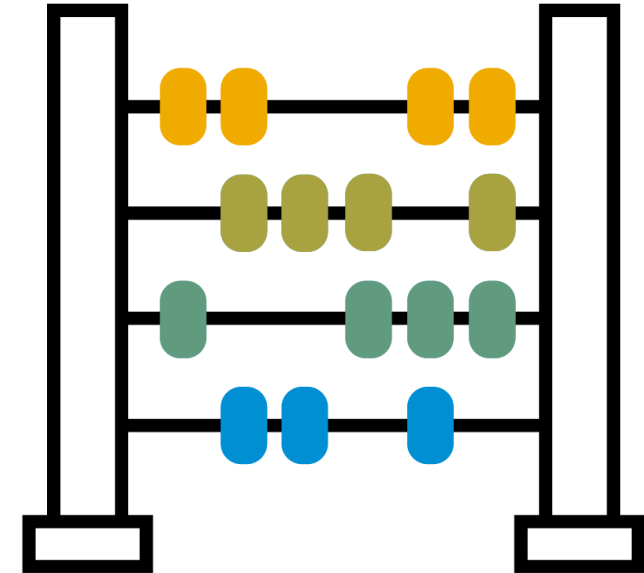
- Capture stock based serial numbers (C-serial numbers) with the App “Count PI documents”

New physical inventory procedures supported:

- Ad-hoc counting
- Low stock check with and without physical inventory
- Putaway physical inventory

More configuration options to fine-tune the physical inventory process on PI area level:

- Activate low stock check; enable tolerance check for low stock count; and others
- Creation of new tolerance groups for difference analyzer, recounting and posting differences
- Define priorities for PI documents
- Define reasons for PI documents and for differences
- Configuration of printing form to control information shown in print-out



Business Benefit: increased accuracy of inventory

Enhancements to Physical Inventory Processing

Capture stock based serial numbers

SAP Counting

Physical Inventory Document: 6000001871

Warehouse Order: 2000281411
Number of Physical Inventory Items: 1
Time Zone: CET

General Information Count Physical Inventory Items

Counter: HUANGL
Count Date and Time: Jan 4, 2021, 9:01:22 AM

Count Physical Inventory Items

Total Rows of PI Items (2)

Storage Bin	Bin Empty	Handling Unit	HU Complete	HU Empty	HU Missing	Product	Product Desc.	Batch	Quantity	UoM	Serial Number	Check
T051-06-09-C	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PROD-M01-...	Medium part 01		5	EA	Edit	<input checked="" type="checkbox"/>
T051-06-09-C	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PROD-S01	Small part, fast-moving 01		2	EA		<input checked="" type="checkbox"/>

Fiori app *Count PI documents*



Enter serial numbers

Serial Number Assignment

Product:
PROD-M01-SNC (Medium part 01)

No. Serial Numbers:
4 / 5

Enter serial number

List of Serial Numbers

Serial Numbers

123	<input type="checkbox"/>
234	<input type="checkbox"/>
77362	<input type="checkbox"/>
923832	<input type="checkbox"/>

Save Cancel

New SSCUIs For Definition of Tolerance Groups

Motivation

- Provide more flexibility when defining tolerance groups

Scope

- Enhance configuration steps “Define Tolerance Group for Difference Analyzer” and “...for Posting Differences” with new fields
- New configuration step to define physical inventory tolerance groups for the recount of a physical inventory document

The screenshot displays the SAP Fiori app interface for configuring internal warehouse processes. The left sidebar shows a navigation tree with categories like 'All Items (6)', 'Master Data', 'Goods Receipt Processes', 'Goods Issue Processes', 'Internal Warehouse Processes' (selected), 'Cross-Process Settings', and 'General Settings'. The main area is titled 'Internal Warehouse Processes' and contains a 'Configuration Steps' table. The table lists 12 steps, with steps 5, 6, and 7 highlighted by a blue box. Step 5 is 'Define Tolerance Group for Difference Analyzer', step 6 is 'Define Tolerance Group for Posting Differences', and step 7 is 'Define Tolerance Group for Recounting'. Each step has a 'Configure' button and a 'Set Status' link.

Step Name	Status	Mandatory	Redo in P System	ID	Actions
1. Activate Replenishment Strategies in Storage Types	Open Set Status	Optional	No	103343	Configure Set Status
2. Define Physical Inventory Area	Open Set Status	Optional	No	102621	Configure Set Status
3. Specify Physical-Inventory-Specific Settings in the Warehouse	Open Set Status	Optional	No	104314	Configure Set Status
4. Configure Cycle Counting	Open Set Status	Optional	No	102730	Configure Set Status
5. Define Tolerance Group for Difference Analyzer	Open Set Status	Recommended	No	102539	Configure Set Status
6. Define Tolerance Group for Posting Differences	Open Set Status	Recommended	No	102585	Configure Set Status
7. Define Tolerance Group for Recounting	Open Set Status	Optional	No	104304	Configure Set Status
8. Define Reason for Physical Inventory	Open Set Status	Optional	No	104341	Configure Set Status
9. Define Reason for Differences	Open Set Status	Optional	No	104299	Configure Set Status
10. Define Standard Reason for Each Phys. Inv. Procedure	Open Set Status	Optional	No	104315	Configure Set Status
11. Define Print Form for Physical Inventory Documents	Open Set Status	Optional	No	102616	Configure Set Status
12. Define Preallocated-Stock References	Open Set Status	Optional	No	104385	Configure Set Status

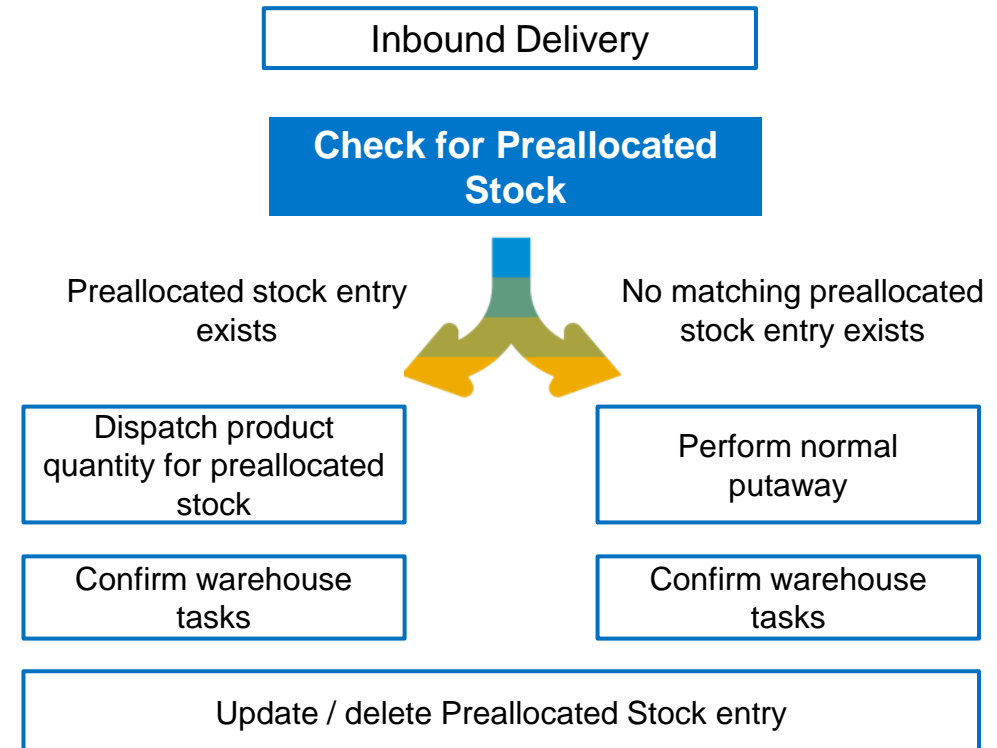
Fiori app *Configure your solution* > Supply Chain > Warehouse Management > Physical Inventory

New Cross-Docking Option: Preallocated Stock

Overview

Scope

- Maintenance view on warehouse monitor to create and update entries for preallocated stock
- Preallocated / missing stock is considered during putaway and regular putaway is bypassed
- Attribute on warehouse task to indicate relevance for preallocated stock
- Monitor preallocated stock



Business Benefit: cover urgent demands as soon as material is available again

New Cross-Docking Option: Preallocated Stock

Warehouse Monitor node

The screenshot displays the SAP Warehouse Management Monitor interface for Warehouse 1050 (Time Zone CET). The left sidebar shows a tree of nodes, with 'Preallocated Stock' selected. The main area shows a table of preallocated stock with columns: Product, Description, Batch, Stock Type, and Desc. Stock Type. A context menu is open over the table, showing options: Display Change Documents, Create Preallocated Stock, Update Preallocated Stock, and Delete Preallocated Stock. A blue arrow points from a note at the bottom to the 'Update Preallocated Stock' option.

Warehouse Management Monitor SAP - Whse. 1050 (Time Zone CET)

Default Values Fullscreen On/Off Expand All Collapse All Show Hidden Nodes More ▾

Fixed Bin Overview
Physical Stock
Available Stock
Stock Overview
BBD/SLED Overview
Stock Not In Pref. Uo
Resource
Handling Unit
Preallocated Stock
Warehouse Task

Preallocated Stock

Warehouse Task

Product	Description	Batch	ST	Desc. Stock Type
<input checked="" type="checkbox"/> TG11	Trac		F	Unrestricted-Use
<input type="checkbox"/> TG12	Trac		F	Unrestricted-Use
<input type="checkbox"/> TG11	Trac		F	Unrestricted-Use

Display Change Documents
Create Preallocated Stock
Update Preallocated Stock
Delete Preallocated Stock

App Warehouse Monitor



Maintain Preallocated stock directly from the Warehouse Monitor

New Cross-Docking Option: Preallocated Stock

Configuration options (1/2)

Configuration options to enable preallocated stock handling

- Activate preallocated stock check in warehouse process type

The screenshot shows the SAP 'Define Warehouse Process Type' configuration screen. The 'Warehouse No.' is 1050 and the 'Whse Proc. Type' is S110 Putaway. The 'General Settings' section includes fields for 'Whse Proc. Category' (1), 'Activity' (PTWY), 'Priority', 'WO Creation Rule', 'WOCR Activity Area' (1), 'Stock ID Control', and 'Rounding After Split'. The 'Manual WT Forbidden' checkbox is checked. The 'Preallocated Stock Allowed' checkbox is highlighted with a red box and a red arrow pointing to it from below. The 'Allow Restricted Batches' checkbox is also checked. The 'Control for Putaway/Stock Removal' section includes fields for 'Process Type Grp Stk Rem.', 'Process Type Group Putaway', 'Round Whole Units', and 'Automatic WT Creation at GR'. The 'Settings for Storage Process' section includes the 'Strge Ctrl Relevance' field. The 'Save' and 'Cancel' buttons are at the bottom right.

SSCUI for warehouse process type: activate preallocated stock



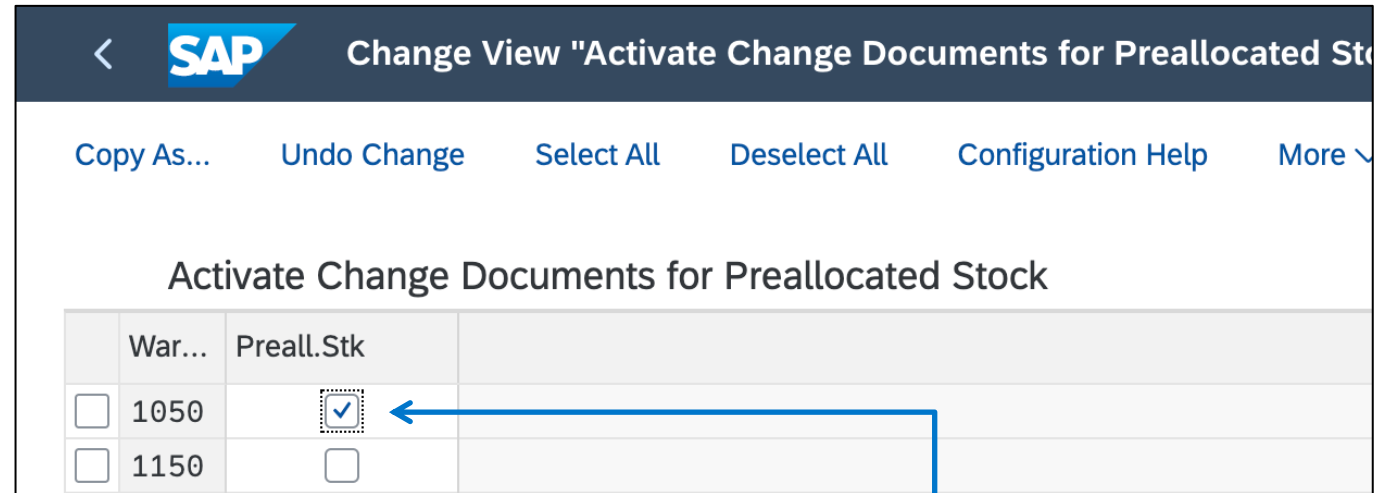
Allow preallocated stock for warehouse process type

New Cross-Docking Option: Preallocated Stock

Configuration options (2/2)

Configuration options to enable preallocated stock handling

- Activate change documents for preallocated stock information table to track changes
- Define own references for the preallocated stock: You can define reference categories to group documents or information relevant to preallocated stock



Change View "Activate Change Documents for Preallocated Stock"

Copy As... Undo Change Select All Deselect All Configuration Help More

Activate Change Documents for Preallocated Stock

	War...	Preall.Stk
<input checked="" type="checkbox"/>	1050	<input checked="" type="checkbox"/>
<input type="checkbox"/>	1150	<input type="checkbox"/>

SSCUI Activate Change Documents for Preallocated Stock



Set flag to activate change documents

New Replenishment Option: Order Related Replenishment

Calculate quantities based on open outbound delivery orders

Before 2105

- Planned and automatic replenishment are supported since release 2002
- Replenishment for fixed bin storage types only

With 2105

- Order related replenishment is planned to be supported as well
- In the order related replenishment, the system calculates replenishment quantities based on the quantity of open outbound delivery orders
- Open configuration for replenishment

SAP Change View "Activate Replenishment Strategies in Storage Types": Data

New Entries Copy As... Delete Undo Change Previous Entry Next Entry Other Entry... More ▾

Warehouse No.: 1050 Warehouse

Storage Type: SF01 Fixed Bin Storage

Repl. Strat.: 1 Planned Replenishment

Activate Replenishment

Whse Proc. Type: S310

Qty Type Used: 1 Available Quantity

☐ Ignore Bins with Stock Removal Lock

☒ WT Immed.

☐ Do Not Consider Putaway Quantities

☐ Recalculate Replenishment Qty in WT

Activate order-related replenishment

SSCUI Activate Replenishment Strategies in Storage Types

Business Benefit: replenish what is required to fulfill open outbound delivery orders

Change Stock Attributes

Now available in SAP S/4HANA Cloud WM

Scope

- Change the stock type of stock in the warehouse
- Create an inspection document and post the stock to quality management (QM) stock
- Post consignment stock in the warehouse to your own stock
- Schedule recurring attribute changes via the “Schedule Stock Attribute Changes” App
- Simulate the attribute changes to see the results without saving any data into the database

The screenshot displays the 'Change Stock Attributes' Fiori app interface. At the top, there's a header bar with the SAP logo and the title 'Change Stock Attributes'. Below the header, there are two buttons: 'Save as Variant...' and 'More'. The main content area is divided into several sections:

- General Data:** Contains a dropdown menu for 'Mode' set to 'Change Stock Type' and a text input for 'Warehouse Number' with the value '1050'.
- Stock Attributes:** A section with multiple rows of input fields. Each row has a 'from' field, a 'to' field, and a button with a right-pointing arrow. The rows are: Product, Stock Type, Owner, Party Entitled to Dispose, Batch, Stock Identification, and Serial Number.
- Dates:** Contains input fields for 'Best Before Date', 'Latest Delivery Date', and 'Goods Receipt Date', each with a 'to' field and a right-pointing arrow button. Below these is a checkbox for 'Consider Next InspDate (Batch):' and a text input for 'Offset in Days (+/- Today):' with the value '0'.
- Storage Bin Details:** Similar to the Stock Attributes section, it has input fields for 'Storage Type', 'Storage Bin', 'Storage Section', 'Storage Bin Type', 'Storage Bin Aisle', 'Storage Bin Stack', and 'Storage Bin Level', each with a 'to' field and a right-pointing arrow button.

At the bottom of the form, there is a green checkmark icon followed by the text 'Enter destination stock type'.

Fiori App *Change Stock Attributes*

Quality Management

New ad-hoc inspection, assign internal follow-up actions and / or warehouse process type

New capabilities

- New ad-hoc inspection / warehouse internal inspection IOT5
- Assign internal follow-up actions or warehouse process types to pre-delivered follow-up actions

New configuration options

- Define and activate warehouse-dependent IOTs: IOT4 (quality inspection for goods receipt from external) and IOT5 (ad-hoc inspection / warehouse internal inspection) are available

SAP Change View "Warehouse-Dependent IOT Settings": Overview						
New Entries Undo Change Configuration Help More ▾						
Dialog Structure		Warehouse-Dependent IOT Settings				
Warehouse-Dependent IOT Setting		War...	IOT	Activ. IOT	Prod./Bat.	Change Qty
		<input type="checkbox"/>	1050 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	1050 5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>


SSCUI Define and Activate Warehouse-Dependent IOTs

Business Benefit: record quality issues in the warehouse, prevent shipping of substandard stock to customers

Quality Management

Assign internal follow-up actions or warehouse process types to pre-delivered follow-up actions

<



Change View "Define Follow-Up Actions for Quality Results": Overview

New Entries

Undo Change

Configuration Help

More ▾

Define Follow-Up Actions for Quality Results

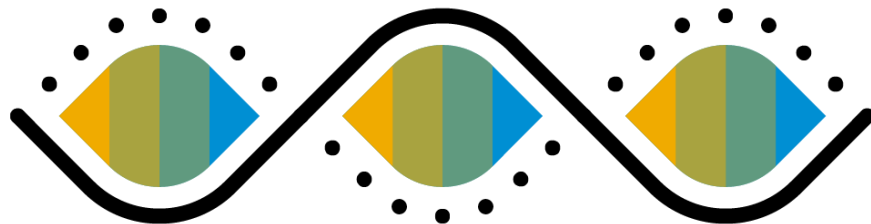
	War...	FolUpAct	IOT	Int.Action	Ty.	Whse Proc. Type	Reasn	
<input type="checkbox"/>	1050	SWM_A	4	4 Put Away	✓ FF			
<input type="checkbox"/>	1050	SWM_A	5	4 Put Away	✓ FF			
<input type="checkbox"/>	1050	SWM_AP	4	4 Put Away	✓ FF			
<input type="checkbox"/>	1050	SWM_AP	5	4 Put Away	✓ FF			
<input type="checkbox"/>	1050	SWM_R	4	1 Blocked Stock	✓ BB			
<input type="checkbox"/>	1050	SWM_R	5	1 Blocked Stock	✓ BB	S420		
<input type="checkbox"/>	1050	SWM_RP	4	1 Blocked Stock	✓ BB			
<input type="checkbox"/>	1050	SWM_RP	5	1 Blocked Stock	✓ BB	S420		

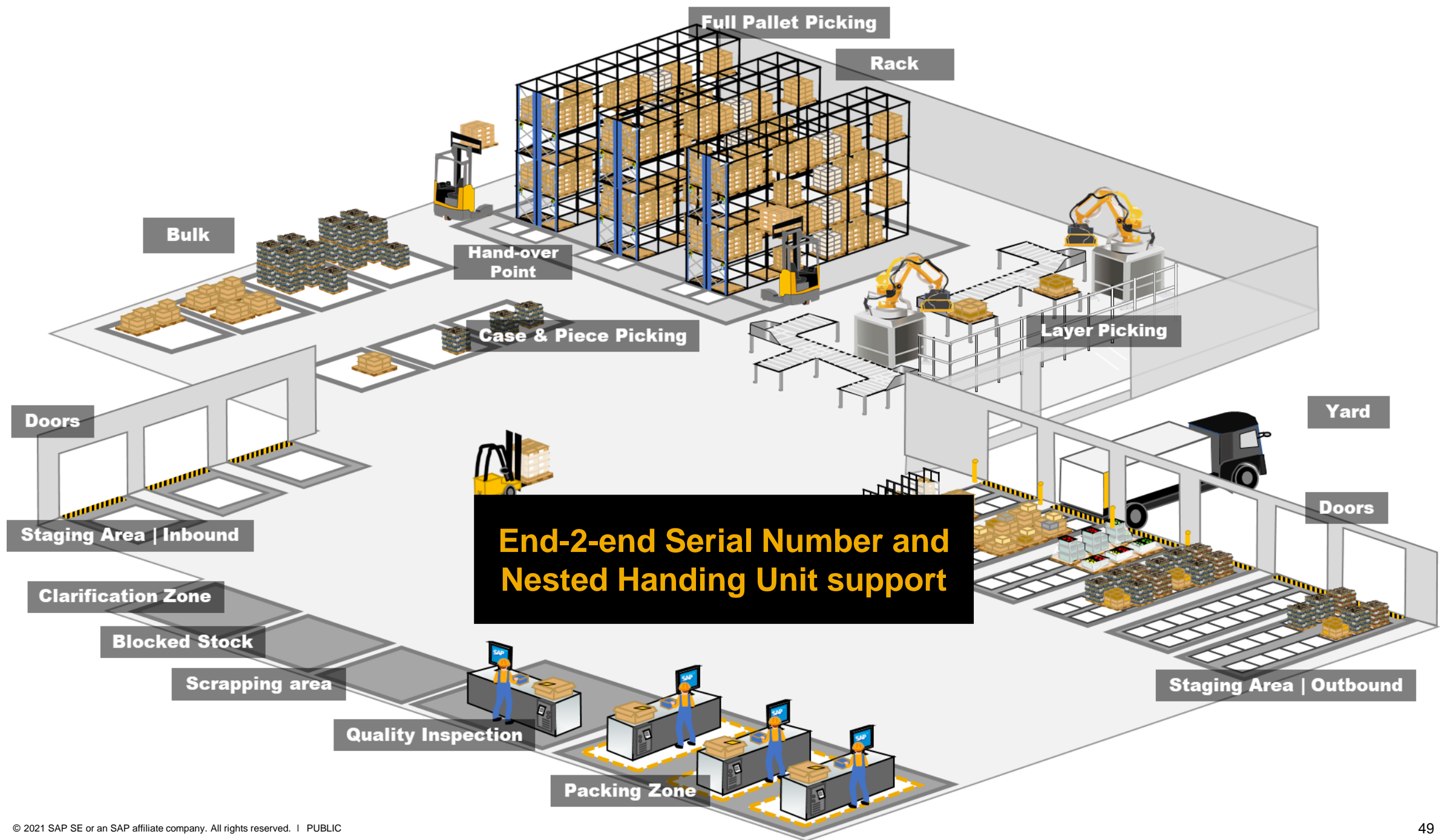
SSCUI Maintain Follow-Up Actions



Assign internal action to follow-up action, assign stock type and / or warehouse process type to be used for follow-up action

Cross Processes





Serial Numbers on Bin Level

Support stock based serial numbers (C-level) throughout warehouse processes

New capabilities

- Receive and issue products with stock based serial numbers
- Pick products with stock based serial numbers
- Pack products with stock based serial numbers
- Count products with stock based serial numbers in physical inventory

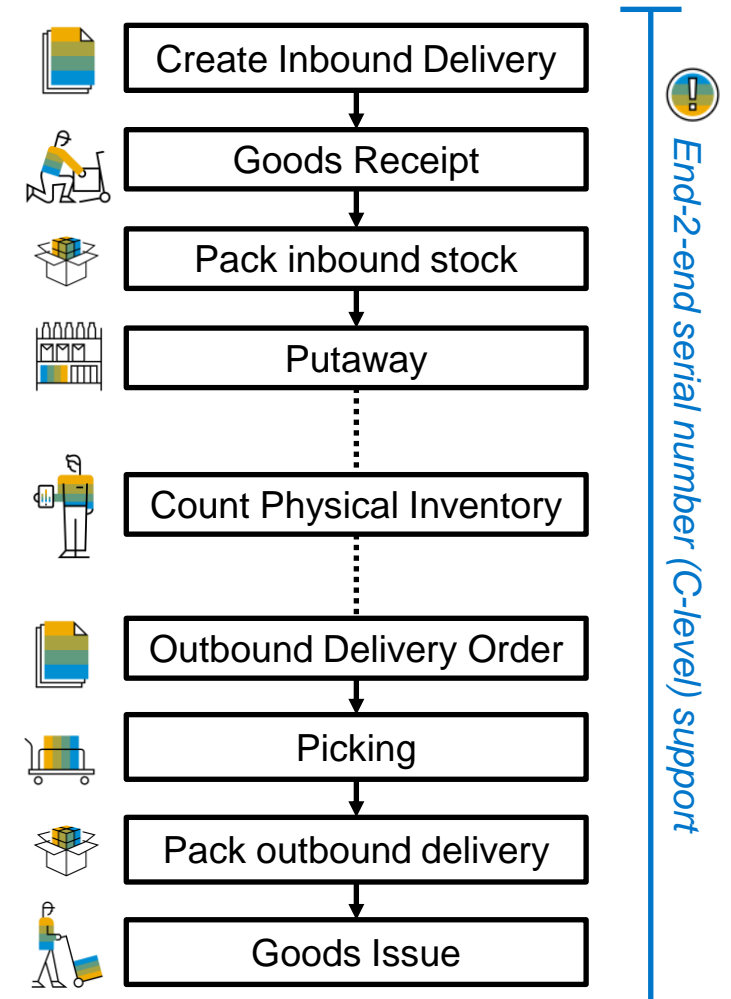
Enhanced SSCUIs

- Enhancement of SSCUI *Harmonized serial number settings*
- Enhancement of SSCUI *Warehouse dependent serial number settings*

New or enhanced transactions for processing stock with C serial numbers

- New in app Work Center Packing
- New in app Confirm Warehouse Tasks
- New posting change method for serial numbers in the physical stock
- Enhancement of warehouse monitor to display serial numbers

Note: enhancement of fiori apps for warehouse task processing planned for a future release



Serial Number Posting Methods

Motivation

- Offer more options for precision in managing stock with serial numbers

Scope

- New sub-node “Serial Number”
- Ability to select specific products within an HU with own serial numbers
- Perform stock changes on serial number level

The screenshot displays the SAP Warehouse Management Monitor interface. The top navigation bar includes the SAP logo and the title 'Warehouse Management Monitor SAP - Whse. 1050 (Time Zone CET)'. Below the navigation bar, there are tabs for 'Default Values', 'Fullscreen On/Off', 'Expand All', 'Collapse All', 'Show Hidden Nodes', and 'More'. The left sidebar shows a tree structure with nodes for 'Outbound', 'Inbound', 'Physical Inventory', 'Documents', 'Stock and Bin', 'Storage Bin', 'Physical Stock', 'Available Stock', 'Handling Unit', 'Fixed Bin Assignment', 'Storage Bin Sorting', 'Fixed Bin Overview', 'Physical Stock', 'Serial Number', and 'Available Stock'. The main area is divided into two sections: 'Physical Stock' and 'Serial Number'. The 'Physical Stock' section shows a table with columns: Ty., Storage Bin, Handling Unit, Product, and Product Description. The 'Serial Number' section shows a table with columns: Storage Bin, Product, Serial No., Type, Created By, Created On, Created At, and Counter. A blue box highlights the 'Serial Number' icon in the 'Physical Stock' section, and a blue line connects it to a dropdown menu. The dropdown menu lists the following options: 'Change Product or Batch', 'Change Stock Type', 'Change Stock Owner and Usage', 'Change Sales Order or Project', and 'Change Disposal Party'.

Ty.	Storage Bin	Handling Unit	Product	Product Description	
<input type="checkbox"/>	S970	CL-AREA	300031796	TG11	Trad.Good 11,PD,Reg.Trading
<input type="checkbox"/>	S970	CL-AREA		SG424	SEMI424,PD,Subassembly,bin-managed PSA
<input type="checkbox"/>	S970	CL-AREA		TG12	Trad.Good 12,Reorder Point,Reg.Trad.
<input checked="" type="checkbox"/>	S970	CL-AREA	300005448	CR0016	Trading Goods 0016,Reg.Proc., Serial No.

Storage Bin	Product	Serial No.	Type	Created By	Created On	Created At	Counter
<input checked="" type="checkbox"/>	CL-AREA	CR0016	SERIAL35	F	_SAPD069461	01/28/2021	16:25:56
<input type="checkbox"/>	CL-AREA	CR0016			461	01/28/2021	16:25:56

App Warehouse Management Monitor

Serial Numbers on Bin Level

Support stock based serial numbers (C-level) throughout warehouse processes

The screenshot displays the SAP Work Center Packing for Inbound Delivery interface. On the left, a table lists warehouse items with columns for Warehouse/HU/Item, Product, PckQty AU, Alt. Unit, and Quantity. The right panel shows a 'Create HU' form with fields for HU, Pack. Material, HU/Storage Bin, Cons. Grp, Number of HUs, and Collective HU. Below this, a 'Serial Nos' tab is active, showing a list of serial numbers: SNC350, SNC351, and SNC352. A blue box highlights the 'Delete Assgmt to HU' button, and a blue arrow points to it with the text 'Enter and delete serial numbers'. The bottom of the interface includes 'Save' and 'Cancel' buttons.

Warehouse/HU/Item	Product	PckQty AU	Alt. Unit	Quantity
1050				
Trading Goods 0016,Reg.Proc., Serial No.	CR0018	3	PC	
Trad.Good 11,PD,Reg.Trading	TG11	1	PC	
300017441	IR-EUROPALLET			
Trad.Good 11,PD,Reg.Trading	TG11	1	PC	
300017442	IR-CARTON_M			
Trading Goods 0016,Reg.Proc., Serial No.	CR0018	3	EA	

Serial no.

<input checked="" type="checkbox"/>	SNC350
<input type="checkbox"/>	SNC351
<input type="checkbox"/>	SNC352

Enter and delete serial numbers

App Work Center Packing for Inbound Delivery

Serial Number Support in Confirm Warehouse Tasks App

Scope

- New tab “Serial Number” in App “Confirm Warehouse Tasks”
- Confirm serial number based warehouse tasks

SAP Confirm Warehouse Task in Whse. 1050 (Time Zone CET)

Default Values Message Log More ▾

Show: * Find: Warehouse Order ▾

[Open Advanced Search](#)

Confirm + Save Confirm Confirm in Foreground Cancel Start WO

	Mode	Whse Order	WO Status	WO Cr. Rle	Resource	Queue	Processor	Acty Area	Confirm. Date	Conf.	Conf. By	Start	Start
<input type="checkbox"/>	63	2000000902	Confirmed	SR03				S001	01/28/2021	15:23:37	CB9980000744	01/28/2021	15:23:37
<input checked="" type="checkbox"/>	63	2000000903	Confirmed	SR01				S970	01/28/2021	16:39:47	_SAPD069461	01/28/2021	16:39:47
<input type="checkbox"/>	63	2000000904	Canceled	SR03				SG01		00:00:00			00:00:00
<input type="checkbox"/>	63	2000000905	Canceled	SR03				SG01		00:00:00			00:00:00
<input type="checkbox"/>	63	2000000906	Confirmed	SR01				SG01	01/29/2021	11:35:30	_SAPD069461	01/29/2021	11:35:30
<input type="checkbox"/>	63	2000000907	Confirmed	SR03				SG01	01/29/2021	11:39:50	_SAPD069461	01/29/2021	11:39:50
<input type="checkbox"/>	63	2000000908	Confirmed	SR03				SG01	01/29/2021	11:47:28	_SAPD069461	01/29/2021	11:47:28
<input type="checkbox"/>	63	2000000909	Confirmed	SR03				SG01	01/29/2021	11:48:38	_SAPD069461	01/29/2021	11:48:38
<input type="checkbox"/>	63	2000000910	Confirmed	SR01				SG01	01/29/2021	12:00:06	_SAPD069461	01/29/2021	12:00:06

Warehouse Task

Serial Number Exception

Serial Numbers Actual Serial Numbers Diff. Serial Numbers Low Stock Default Value

	Whse Task	Item	Mode	Serial No.	Actual	Ser. Diff.	L. Stk
<input type="checkbox"/>	1000000803	1	63	SERIAL41	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	1000000803	1	63	SERIAL42	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

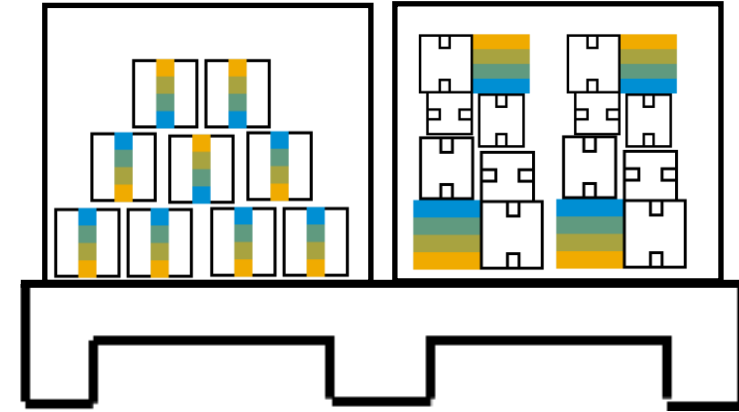
App Confirm Warehouse Tasks

Nested Handling Units

Scope

- Receive nested handling units
- Pick nested handling units
- Pack nested handling units
- Count nested handling units in physical inventory

In addition, the migration object for stock upload is enhanced to upload nested handling units



Business Benefit: process nested handling units in the warehouse

Miscellaneous



Warehouse Monitor Enhancements

New and updated nodes and methods in the monitor

Scope

- New nodes for resource management
- More alert nodes to manage:
 - Overdue Warehouse Orders
 - Overdue Warehouse Tasks
 - Overdue Inbound Deliveries
 - Overdue Outbound Deliveries
 - ...
- [Additional methods](#) for Warehouse Order nodes

App Warehouse Monitor

The screenshot displays the SAP Warehouse Management Monitor interface for SAP - Whse. 1050 (Time Zone CET). The left sidebar shows a tree view of nodes, with 'Resource Management' expanded. The 'Resource' node is highlighted, and a list of resources is shown in the main area. The 'Alert' node is also highlighted, and a list of alert types is shown in a separate window.

Resource Management

Resource	Rsrc Type	Rsrc Grp	User Name	Logon Date	Logon Time	Queue
RES1					00:00:00	
SIEGELST		RGP1			00:00:00	TEST
BEHRINGERN	NBRT	NBRG	_SAPC5160893	02/25/2021	14:09:34	TEST
ADLERT	TART		CB9980000748	03/02/2021	09:22:11	ZTA_CLARI
TESTNB	TART				00:00:00	ZAI_QUEUE

Alert

- Overdue Warehouse Order
- Overdue Warehouse Task
- Overdue Inb. Delivery w/o GR
- Overdue Inb. Delivery w/o WT
- Overdue Outb. Delivery w/o GI
- Overdue Outb. Delivery w/o WT
- Overdue Delivery Warehouse Act
- Exception

New Folder Structure in Manage Your Solution App

Motivation

- Provide a more accurate warehouse overview and configuration with 100+ new SSC UIs

New SSCUI groups:

- Master data
- Goods receipt processes
- Goods issue processes
- Internal warehouse processes
- Cross-process settings
- Interface to other components
- Mobile data

The screenshot displays the SAP Manage Your Solution app interface for the 'Realize Phase'. The top navigation bar includes the SAP logo and the title 'Configure Your Solution: Realize Phase'. Below the navigation bar, there are several filter options: 'Standard*' (with a dropdown arrow), 'Application Area' (set to 'Supply Chain'), 'Sub Application Area' (set to 'Warehouse Ma...'), 'Status' (set to 'All'), 'Mandatory' (set to 'All'), and 'Country/Region-Dependent' (set to 'All'). There is also a 'Redo in P System' dropdown set to 'All' and an 'Adapt Filters (6)' button. The main content area shows a list of 8 items under the heading 'All Items (8)'. The list is organized into columns: Application Area, Sub Application Area, Item Name, Short Description, Status, Mandatory, Country/Region-Dependent, and Redo in P System. Each item has a checkbox in the first column. The items are: 1. Supply Chain, Warehouse Management, Master Data, Make settings for your warehouse master data., Open, Mandatory, Global, Country Dependent, Yes. 2. Supply Chain, Warehouse Management, Goods Receipt Processes, Make settings for your goods receipt processes., Open, Recommended, Country Dependent, No. 3. Supply Chain, Warehouse Management, Goods Issue Processes, Make settings for your goods issue processes., Open, Optional, Country Dependent, No. 4. Supply Chain, Warehouse Management, Internal Warehouse Processes, Make settings for processes to keep your warehouse running smoothly., Open, Recommended, Global, Country Dependent, No. 5. Supply Chain, Warehouse Management, Cross-Process Settings, Make settings for objects and functions that apply to more than one process., Open, Recommended, Global, Country Dependent, Yes. 6. Supply Chain, Warehouse Management, General Settings, Make settings for your warehouse., Open, Mandatory, Global, Country Dependent, Yes. 7. Supply Chain, Warehouse Management, Physical Inventory, Make settings for physical inventory (PI)., Open, Recommended, Global, Country Dependent, No.

<input type="checkbox"/>	Application Area	Sub Application Area	Item Name	Short Description	Status	Mandatory	Country/Region-Dependent	Redo in P System
<input type="checkbox"/>	Supply Chain	Warehouse Management	Master Data	Make settings for your warehouse master data.	Open	Mandatory	Global, Country Dependent	Yes
<input type="checkbox"/>	Supply Chain	Warehouse Management	Goods Receipt Processes	Make settings for your goods receipt processes.	Open	Recommended	Country Dependent	No
<input type="checkbox"/>	Supply Chain	Warehouse Management	Goods Issue Processes	Make settings for your goods issue processes.	Open	Optional	Country Dependent	No
<input type="checkbox"/>	Supply Chain	Warehouse Management	Internal Warehouse Processes	Make settings for processes to keep your warehouse running smoothly.	Open	Recommended	Global, Country Dependent	No
<input type="checkbox"/>	Supply Chain	Warehouse Management	Cross-Process Settings	Make settings for objects and functions that apply to more than one process.	Open	Recommended	Global, Country Dependent	Yes
<input type="checkbox"/>	Supply Chain	Warehouse Management	General Settings	Make settings for your warehouse.	Open	Mandatory	Global, Country Dependent	Yes
<input type="checkbox"/>	Supply Chain	Warehouse Management	Physical Inventory	Make settings for physical inventory (PI).	Open	Recommended	Global, Country Dependent	No

App *Manage your solution* with SSCUIs for warehouse management

System Configuration Enhancements

Warehouse tasks and warehouse orders

Warehouse process types

- Option to add customer specific or own warehouse process types
- More detailed configuration options
- Influence the determination of the warehouse process type

Warehouse orders: ensure manageable warehouse orders are created

- Define warehouse order creation rules
- Define search sequences, sorting options and number range intervals
- Define limits and filters for warehouse orders



Business Benefit: more flexibility in setup, better support for customer-specific processes

System Configuration Enhancements

Warehouse process types

Examples for new fields (list not complete)

- Manual creation of warehouse task forbidden: manually created warehouse tasks without warehouse request cannot use this warehouse process type
- Confirm immediately: allows immediate confirmation upon creation
- Propose confirmation upon warehouse task creation: warehouse task is confirmed immediately
- Negative stock allowed: allow posting of negative quants
- Preallocated stock allowed: determines whether it is allowed to create warehouse tasks for preallocated stock
- Control for HU picking: describes how picking of a complete handling unit is handled
- Warehouse process type group for stock removal and putaway: allows grouping in stock removal / putaway storage type search sequence

The screenshot displays the SAP 'Define Warehouse Process Type' configuration interface. At the top, the title bar reads 'Change View "Define Warehouse Process Type": Details'. Below this, navigation links include 'New Entries', 'Copy As...', 'Undo Change', 'Previous Entry', 'Next Entry', 'Other Entry...', and 'More'. The main configuration area is titled 'Define Warehouse Process Type' and contains several sections:

- General Settings:** Includes fields for 'Warehouse No.' (1050), 'Whse Proc. Type' (Z110 Putaway), 'Whse Proc. Category' (1), 'Activity' (PTWY), 'Priority', 'WO Creation Rule', 'WOCR Activity Area' (1), 'Stock ID Control', 'Rounding After Split', 'Manual WT Forbidden' (checked), 'Confirm Immediately', 'Propose Confirmation', 'No Automatic Replenishment' (checked), 'Skip Process Block Profile', 'Negative Stock', 'Preallocated Stock Allowed', and 'Allow Restricted Batches' (checked).
- Control for Putaway/Stock Removal:** Includes fields for 'Process Type Grp Stk Rem.', 'Process Type Group Putaway', 'Round Whole Units', 'Automatic WT Creation at GR', and 'Control f. HU Pick'.
- Settings for Storage Process:** Includes the field 'Strge Ctrl Relevance'.
- Settings for Posting Changes:** Includes the fields 'Post. Change in Bin' and 'Goods Mvmnt Before Warehouse Task'.
- Settings for Production Supply:** Includes the field 'Def Exc Code Kanban'.
- Settings for Warehouse Requests:** Includes the fields 'Availability Group', 'Allow WT Creation in RF Putaway', 'Completely Pick WR', 'Rough Bin Determination', and 'Create HU WTs for Putaway'.

System Configuration Enhancements

Warehouse orders: define rules for warehouse order creation

Scope

- Define rules that are used to group warehouse tasks together into warehouse orders in order to create optimum work packages
- Define limit values for the size of a warehouse order
- Define filters
- Define sort rules for the sorting of the warehouse tasks

< **SAP** Change View "Warehouse Order Creation Rules": Details

New Entries Copy As... Undo Change Previous Entry Next Entry Other Entry... More ▾

Warehouse No.: 1050

WO Creatn Rule: ZR01

Warehouse Order Creation Rules

Description: 1 WO per Material in ODO

WO Creation Cat: B Pick Path ▾

Item Filter:

Subtotal Filter:

Limit: Z001

Inbound Sorting: MAT

WO Sorting:

Prep.Time:

Time Unit: MIN

Determine WkCtr: ☐

WO Locked: ☐

SSCUI Define Creation Rules for Warehouse Orders

Enhancements to Migration Objects

New attributes for Warehouse Products

- Control Indicator for Process Type Determination
- Storage Section Indicator
- Storage Bin Type
- Process Block Profile
- Stock Determination Group
- Relevance for two-step picking
- Staging area / door determination group

New attributes for Storage Bins

- Storage Section + Storage Bin Type
- Bin Access Type
- Verification
- Storage Group for Layout oriented routing
- Max Capacity

New attributes for Stock Upload

- Support Nested Handling Units
- Support Stock based serial numbers

The screenshot shows the 'Migration Object Tables' interface in SAP. It displays a table with two files listed under the 'Files (2)' tab. The first file is 'EWMS4_2105_CloudMigration_WhseStock_SerialNumber_Error_SampleData.xml' and the second is 'EWMS4_2105_CloudMigration_WhseStock_NestedHU_Error_SampleData.xml'. Both files are marked as 'Validation Scheduled'.

File Name	Uploaded By	Uploaded On	File Size	Status
EWMS4_2105_CloudMigration_WhseStock_SerialNumber_Error_SampleData.xml	Inga Rudolph	Fri Feb 05 2021 18:29:52 GMT+0100 (Central European Standard Time)	147,2 KIB	Validation Scheduled
EWMS4_2105_CloudMigration_WhseStock_NestedHU_Error_SampleData.xml	Inga Rudolph	Fri Feb 05 2021 18:29:52 GMT+0100 (Central European Standard Time)	163,4 KIB	Validation Scheduled

The screenshot shows the 'Migration Object File Content' interface in SAP. It displays a table with stock data for the file 'EWMS4_2105_CloudMigration_WhseStock_SerialNumber_Error_SampleData.xml'. The table has columns for Warehouse Number, Storage Bin, Highest-Level HU, Identification of Line Being Referred to, and Serial Number.

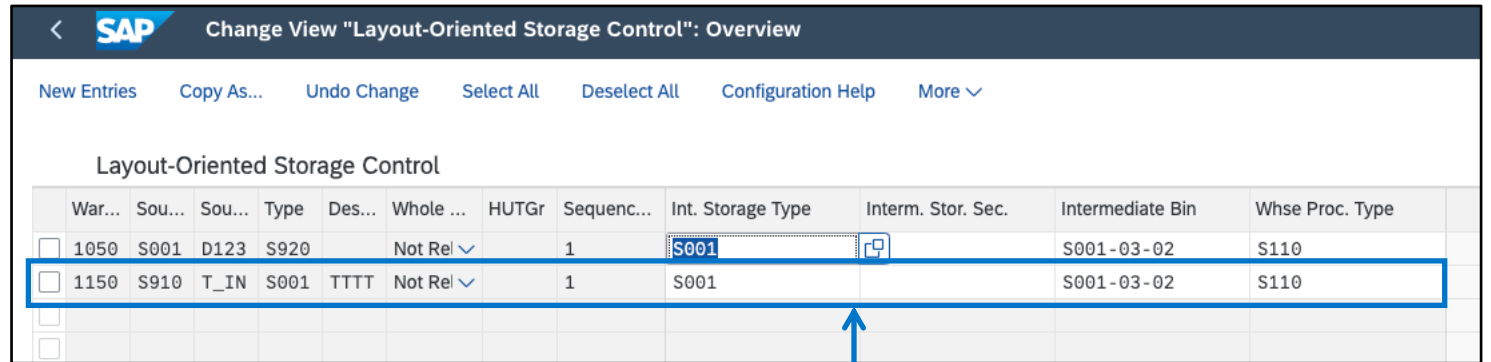
Warehouse Number	Storage Bin	Highest-Level HU	Identification of Line Being Referred to	Serial Number
1050	IR5-ERR1-02-0:	HU1	4	IR5-SER1-1
1050	IR5-ERR1-02-0:	HU1	6	IR5-SER1-2
1050	IR5-ERR1-02-0:	HU1	6	IR5-SER1-3
1050	IR5-ERR1-02-0:		7	IR5-SER2-1
1050	IR5-ERR1-02-0:		7	IR5-SER2-2

Layout-Oriented Storage Control

Define intermediate locations for movement of handling units

Scope

- Layout-oriented storage control allows you to define intermediate storage bins in order to move products from a source bin to a destination bin via an intermediate location (e.g. because change of equipment is required or change of carrier handling unit)
- Note: the usage of handling units is a requirement for layout-oriented storage control



	War...	Sou...	Sou...	Type	Des...	Whole ...	HUTGr	Sequenc...	Int. Storage Type	Interm. Stor. Sec.	Intermediate Bin	Whse Proc. Type
<input type="checkbox"/>	1050	S001	D123	S920		Not Rel		1	S001		S001-03-02	S110
<input type="checkbox"/>	1150	S910	T_IN	S001	TTTT	Not Rel		1	S001		S001-03-02	S110
<input type="checkbox"/>												
<input type="checkbox"/>												

SSCUI Define Layout-Oriented Storage Process Control

Example: Movements from storage type ,S910' to storage type ,TTT' always have to go via intermediate storage bin S001-03-02 in intermediate storage type S001

Exception Handling

Overview

Scope

- Enable exception handling as new SSC-UIs to open the flexibility for warehouse configuration
- The SSC-UIs allow customers to
 - create their own exception codes in specific business contexts and steps
 - create exception code profiles
 - change the assignment of internal exceptions to exception codes
- With the App 'Assign User to Exception Code Profile' customers can assign specific users to exception profiles



Exception Handling

SSCUI to define exception codes

<

SAP

Change View "Create Exception Codes": Overview

New Entries

Copy As...

Undo Change

Select All

Deselect All

Configuration Help

Dialog Structure

▼ Create Exception Codes

▼ Define Exception Code

▼ Maintain Process Parameters

Delivery Adjustment in Cas

Maintain Exception Code Profiles

Create Exception Codes

War...	Exception Code	Description
<input type="checkbox"/>	1050 CDB2	Test
<input type="checkbox"/>	1050 CHBD	Change Destination Bin
<input type="checkbox"/>	1050 CHHU	Change Destination HU
<input type="checkbox"/>	1050 CU02	Change Stock-Specific UoM from Mon
<input checked="" type="checkbox"/>	1050 DIFD	Diff. as Charges for Inbound Delivery
<input type="checkbox"/>	1050 DIFO	Test SAP namespace
<input type="checkbox"/>	1050 DIFS	Diff. as Charges for Source Bin
<input type="checkbox"/>	1050 DIFW	Diff. as Charges for Warehouse
<input type="checkbox"/>	1050 SAP1	Test SAP namespace
<input type="checkbox"/>	1050 Z999	Test SSCUI
<input type="checkbox"/>	1050 ZAS1	Blocked Source Bins
<input type="checkbox"/>	1050 ZCHB	Copy of Change Destination Bin
<input type="checkbox"/>	1050 ZHK1	Henri's Exception #1
<input type="checkbox"/>	1050 ZMD1	Marc's Test
<input type="checkbox"/>	1150 CHBD	Change Destination Bin
<input type="checkbox"/>	1150 CHHU	Change Destination HU
<input type="checkbox"/>	1150 CU02	Change Stock-Specific UoM from Monitor
<input type="checkbox"/>	1150 DIFD	Diff. as Charges for Inbound Delivery

<

SAP

Change View "Define Exception Code": Overview

Details

New Entries

Copy As...

Undo Change

Select All

Deselect All

Configuration Help

More

Dialog Structure

▼ Create Exception Codes

▼ Define Exception Code

▼ Maintain Process Parameters

Delivery Adjustment in Cas

Maintain Exception Code Profiles

Warehouse No.: 1050

Exception Code: DIFD

Define Exception Code

Bus. Context	S...	Excp.Code Prof.	Block
<input type="checkbox"/> TPT Confirm Warehouse Task (Putaway)	02		<input type="checkbox"/>
<input type="checkbox"/> TPT Confirm Warehouse Task (Putaway)	05		<input type="checkbox"/>
<input type="checkbox"/> TPT Confirm Warehouse Task (Putaway)	06		<input type="checkbox"/>
<input type="checkbox"/> TPT Confirm Warehouse Task (Putaway)	A0		<input type="checkbox"/>

Specify business context in which exception code can be used

SSCUI Define Exception Code

Assign user to exception code profile

- Display created exception code profiles
- Assign users to exception code profiles

App Maintain User Settings – Exception Code Profile

S/4HANA Cloud Warehouse Management

Official roadmap via roadmaps.sap.com

Q1 2021 45 Innovations	Q2 2021 : ✕ ⏪ ⏩			
	Future Release			
	▼ Transportation Management			
	▼ Variant Configuration			
	^ Warehouse Management			
	Additional configuration options for warehouse tasks SAP S/4HANA Cloud ▼	Additional features in physical inventory processing SAP S/4HANA Cloud ▼	Additional handling unit management capabilities SAP S/4HANA Cloud ▼	Basic cross-docking functionality to bypass regular put-away processes SAP S/4HANA Cloud ▼
	Consolidation groups to bundle outbound items SAP S/4HANA Cloud ▼	Enablement of further options in the cloud replenishment process SAP S/4HANA Cloud ▼	Mobile warehousing via the RF framework SAP S/4HANA Cloud ▼	Serial number handling with stock-based serial numbers SAP S/4HANA Cloud ▼
	Strategies to determine destination or source storage bins in putaway and... SAP S/4HANA Cloud ▼	Warehouse internal inspection SAP S/4HANA Cloud ▼		

Wrap Up



Strong growth of scope in cloud



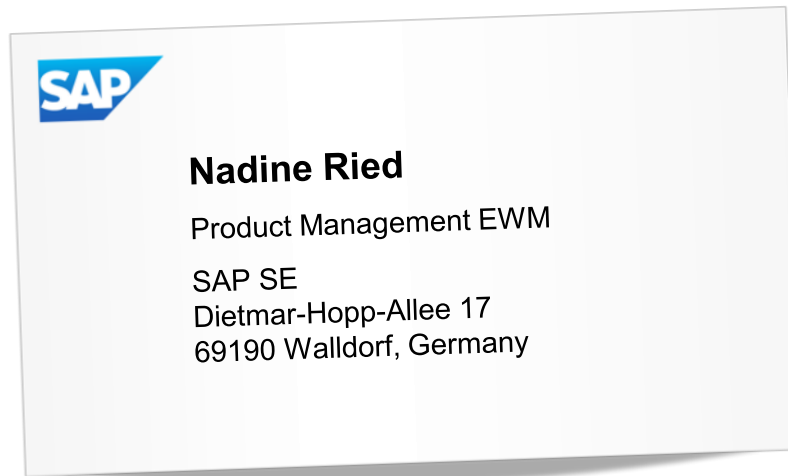
Increased flexibility in warehouse layout and processes



Foundation for future innovations

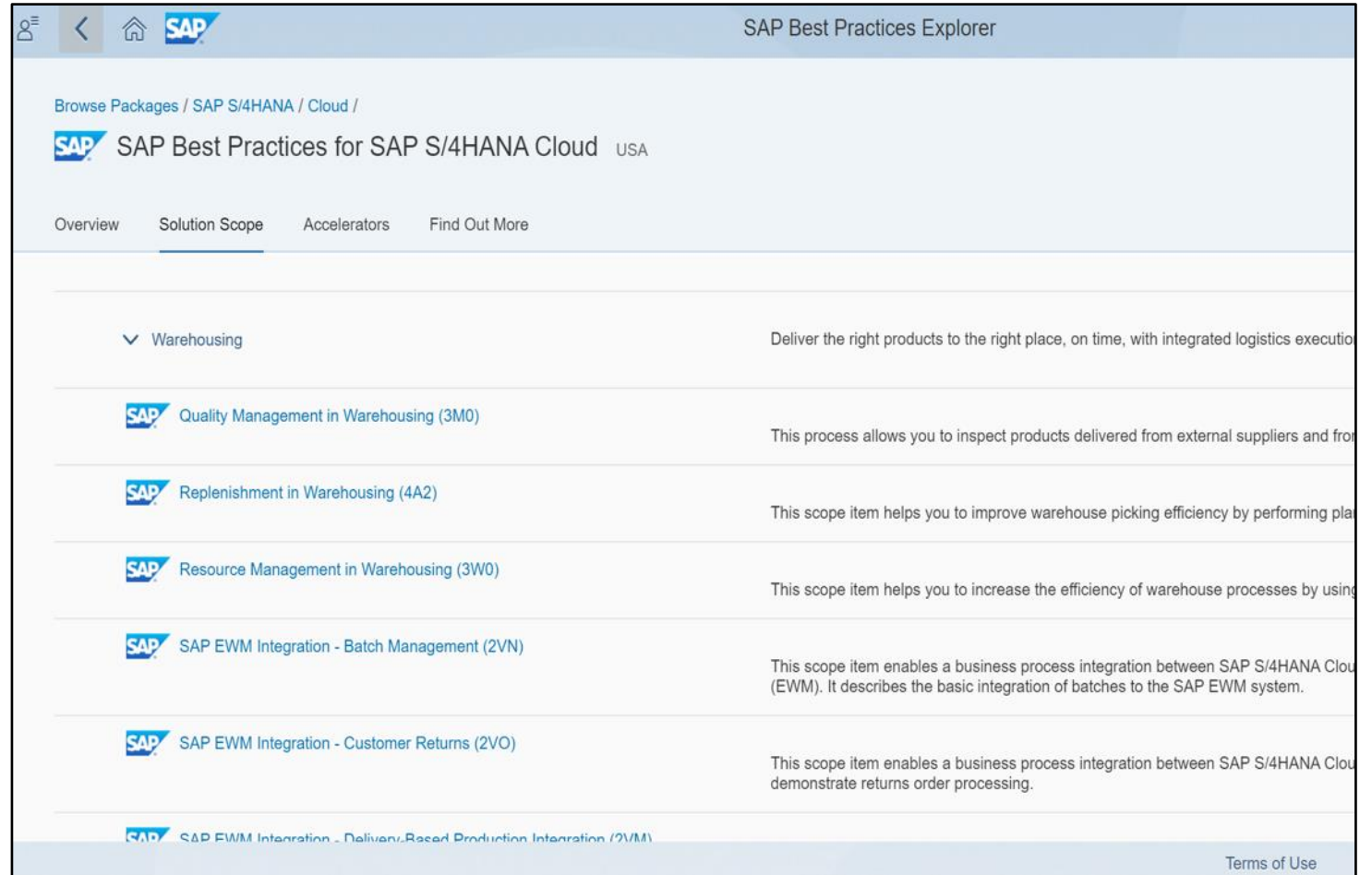


Thank you.



Links And Further Information

- [SAP Best Practices Explorer](#) → Solution Scope → Supply Chain → **Warehousing**
- [SAP Best Practices Content Library](#)
- [SAP API Business Hub](#)
- [S/4HANA Cloud Community](#)
- [S/4HANA Cloud Roadmap](#)



SAP Best Practices Explorer > Solution Scope for Warehousing