



SAP® Digital Supply Chain

Warehouse Management in SAP S/4HANA Cloud, public edition

What's New in 2308

Product Management, SAP
August 2023

PUBLIC

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SAP S/4HANA Cloud – Warehouse Management

Planned 2308



Core Function

Inbound

- Additions to mobile RF transaction “Receive by Delivery / ASN”
- Create HU WTs after usage decision

Outbound

- Wave management
- Picking predefined serial numbers
- Automatic packing in outbound work center
- Loading with a mobile RF transaction
- Rough bin determination

Production Integration

- Quantity based staging for PMR

Continuous Improvements

- Direct replenishment
- Warehouse Monitor improvements
 - Mass change of the handling unit type
 - Search for stock by sub-HU number
 - Search by and display the production order number
 - Navigate from storage bin to related warehouse tasks
- Various improvements
 - Mass maintenance of warehouse product by file upload
 - Cancelling multiple warehouse documents at once
 - Entering a free text reason code for posting changes
 - Batch verification during physical inventory counting



User Experience

- Additional functionality and developer extensibility for App “Manage Outbound Delivery Orders”
- New FIORI App “Advanced Shipping & Receiving Cockpit”



Extensibility

- Screen Personas: Unique Button ID
- New entity Warehouse Product included into the Product API
- Additions to the “Warehouse Order and Task” API
- Additions to the “Handling Unit” API
- CDS View for Warehouse Task & Warehouse Order
- CDS View for EWM Deliveries

Core Functions

Inbound Processes





RF Receiving - Handling Unit Creation

Logical Transaction: "Receive HU by Delivery / ASN"

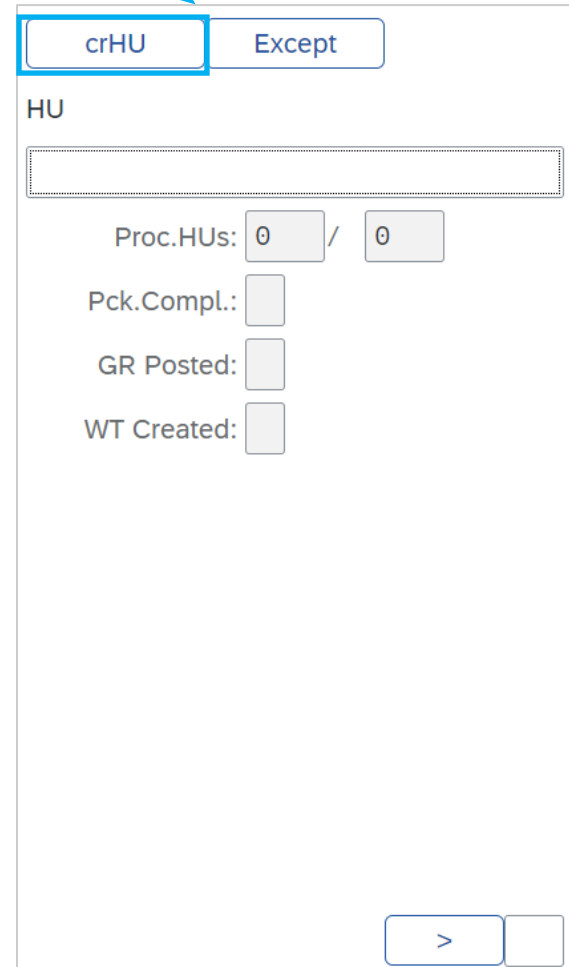
Create one HU according to PI

Scope:

- Automatic packing of single handling units according to packing instructions (nested HUs supported)
- Creating mixed handling units (different products, batches..)

Business Benefit:

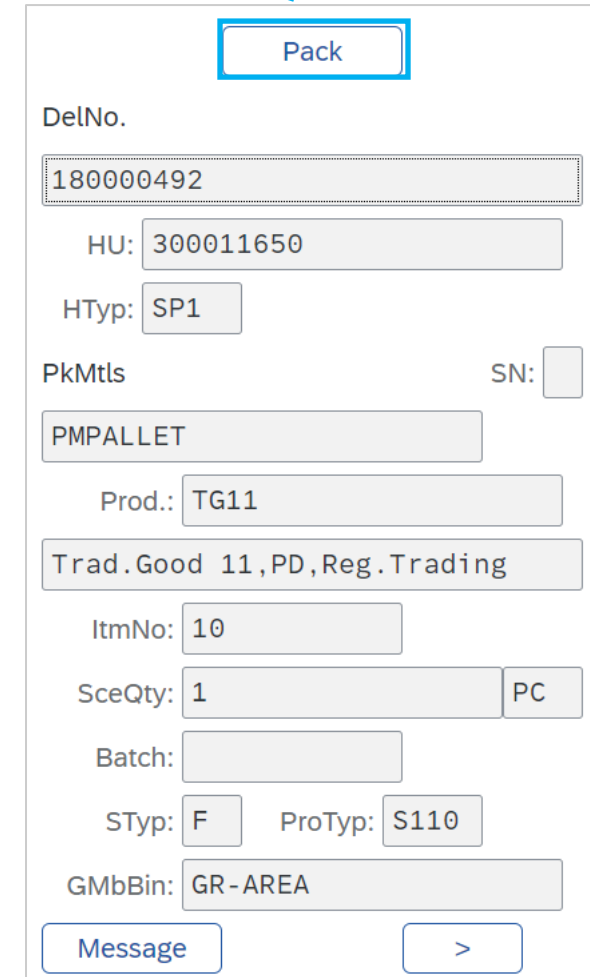
- Reducing the manual user input by automatic packing
- Receiving handling units that contain different products or batches on a mobile device



The screenshot shows the 'crHU' tab selected. It features a text input field for 'HU', a 'Proc.HUs' field with a value of 0, and several checkboxes for 'Pck.Compl.', 'GR Posted', and 'WT Created'. A blue arrow points from the text 'Create one HU according to PI' to the 'crHU' tab.

EWM_MOBGUI: Receive HU by Delivery

Pack to an already created HU



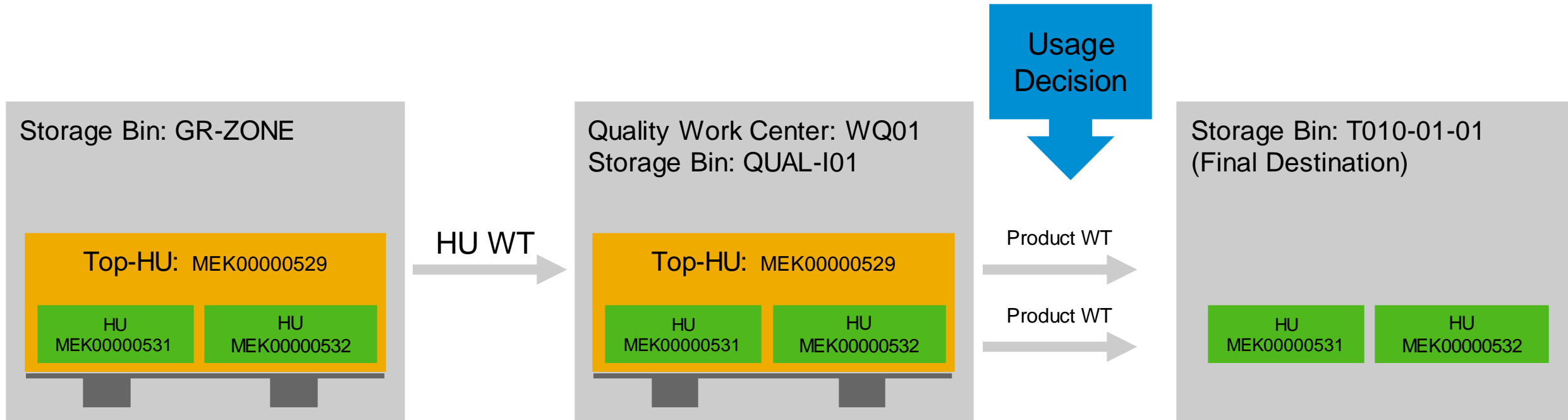
The screenshot shows the 'Pack' tab selected. It contains various input fields: 'DelNo.' (180000492), 'HU' (300011650), 'HTyp' (SP1), 'PkgMtls' (PMPALLET), 'Prod.' (TG11), 'Trad.Good' (11,PD,Reg.Trading), 'ItmNo' (10), 'SceQty' (1), 'Batch', 'STyp' (F), 'ProTyp' (S110), and 'GMbBin' (GR-AREA). A blue arrow points from the text 'Pack to an already created HU' to the 'Pack' tab.

EWM_MOBGUI : Receive HU by Delivery



Create HU WTs after usage decision

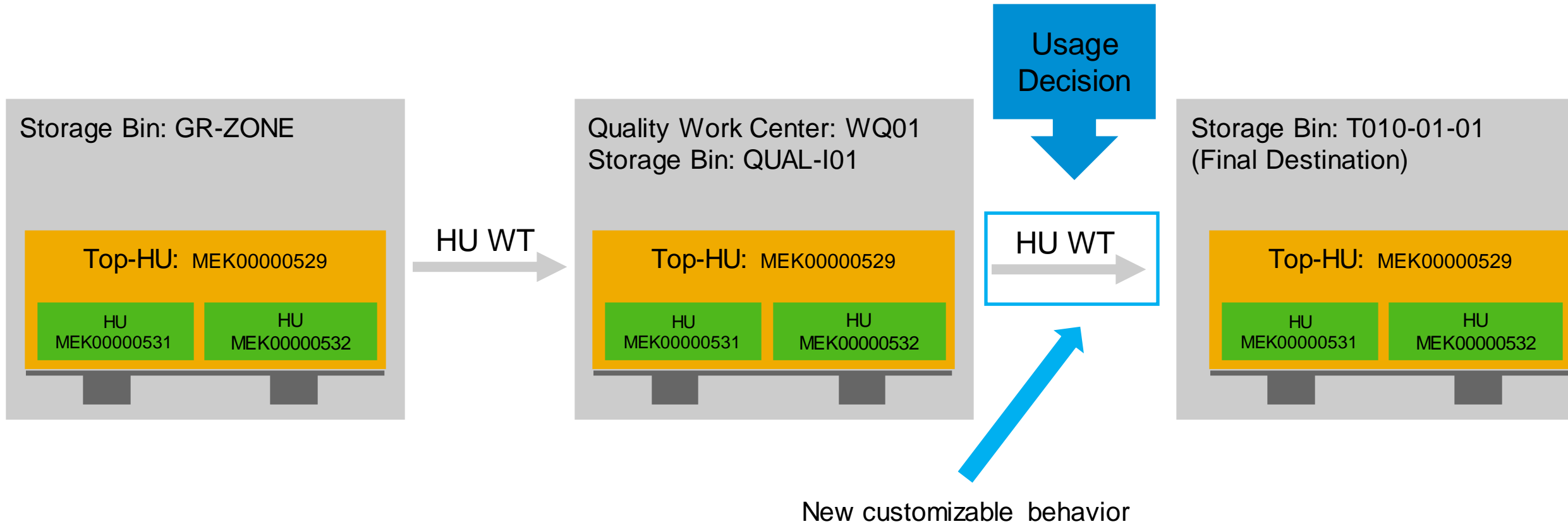
As-Is Design: Putaway with product warehouse tasks





Create HU WTs after usage decision

To-Be Design: Putaway with HU warehouse tasks





Create HU WTs after usage decision

Configuration

Scope:

- Create a handling unit WT after usage decision instead of a product WT
- Configurable via SSCUI

Business Benefit:

- Move the whole HU at once, also for mixed HUs

< **SAP** Maintain Follow-Up Actions: Change: Details ▾

Table View ▾ Edit ▾ Goto ▾ Selection ▾ Utilities ▾ System ▾ Help ▾ ⚙ ▾

New Entries Undo Change Previous Entry Next Entry Other Entry... Configuration Help

Warehouse No.: 1050
Follow-Up Actn: SWM_A
Insp. Obj. Type: 4

Define Follow-Up Actions for Quality Results

Internal Action: Put Away ▾

Non-Dep Stk Ty.: FF

Whse Proc. Type:

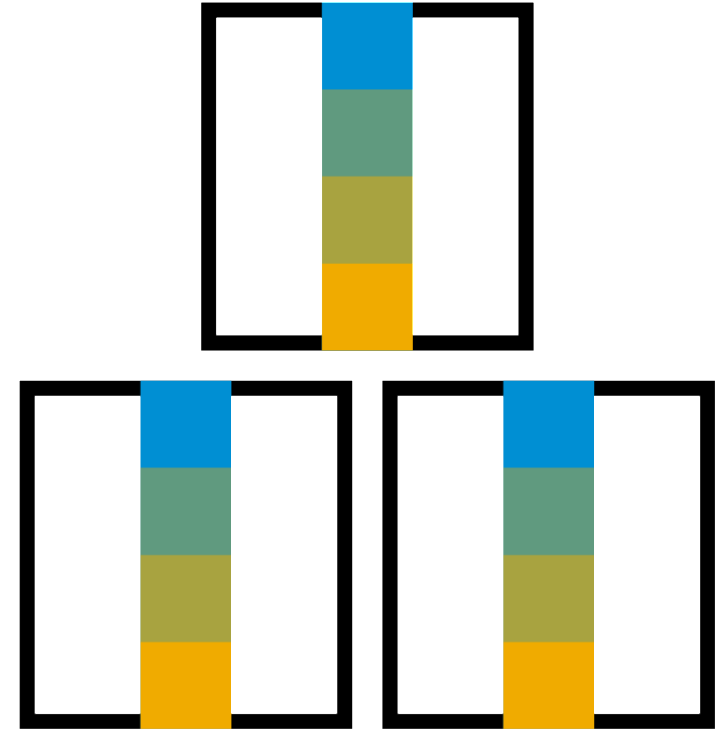
Creation of HU WTs: ☐

SSCUI Maintain Follow-Up Actions

Configuration to create HU WTs

Core Functions

Outbound Processes





Rough Bin Determination

Overview

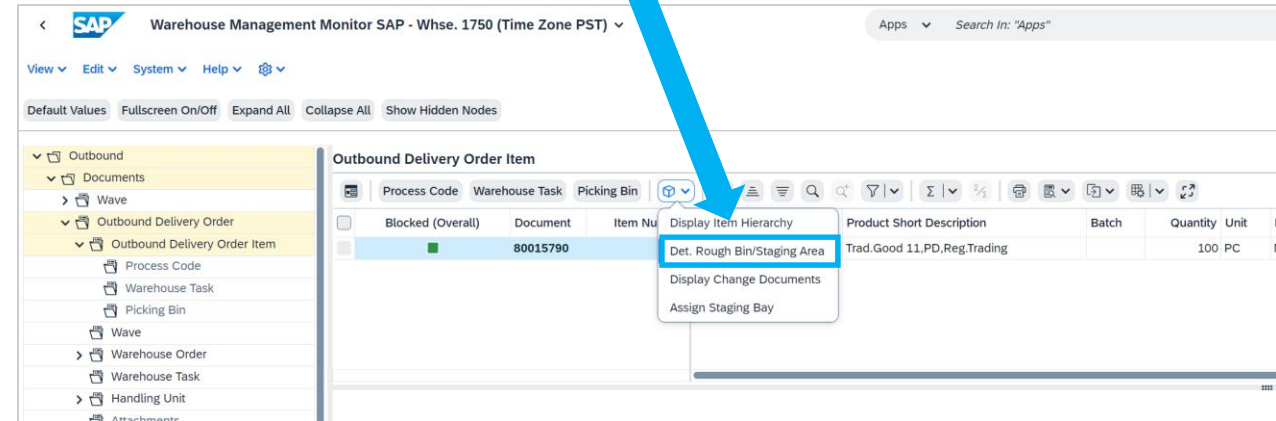
Scope:

- Determine the planned picking bin early in the process by simulating the stock removal strategy
- Rough bin determination can be used for these processes
 - Order driven replenishment
 - Wave assignment

Business Benefit:

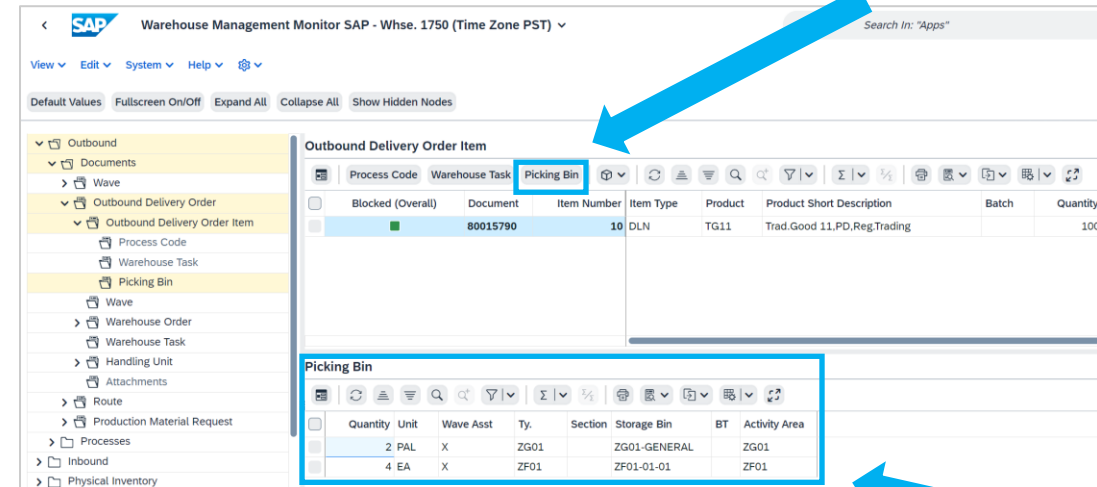
- Stock can be replenished based on the open outbound delivery order items
- Waves can be bundled based on the planned picking bin

New method to (re-) trigger the rough bin determination



Warehouse Monitor

Navigation to the new node



Warehouse Monitor

Rough bins displayed in a new node



Wave Management

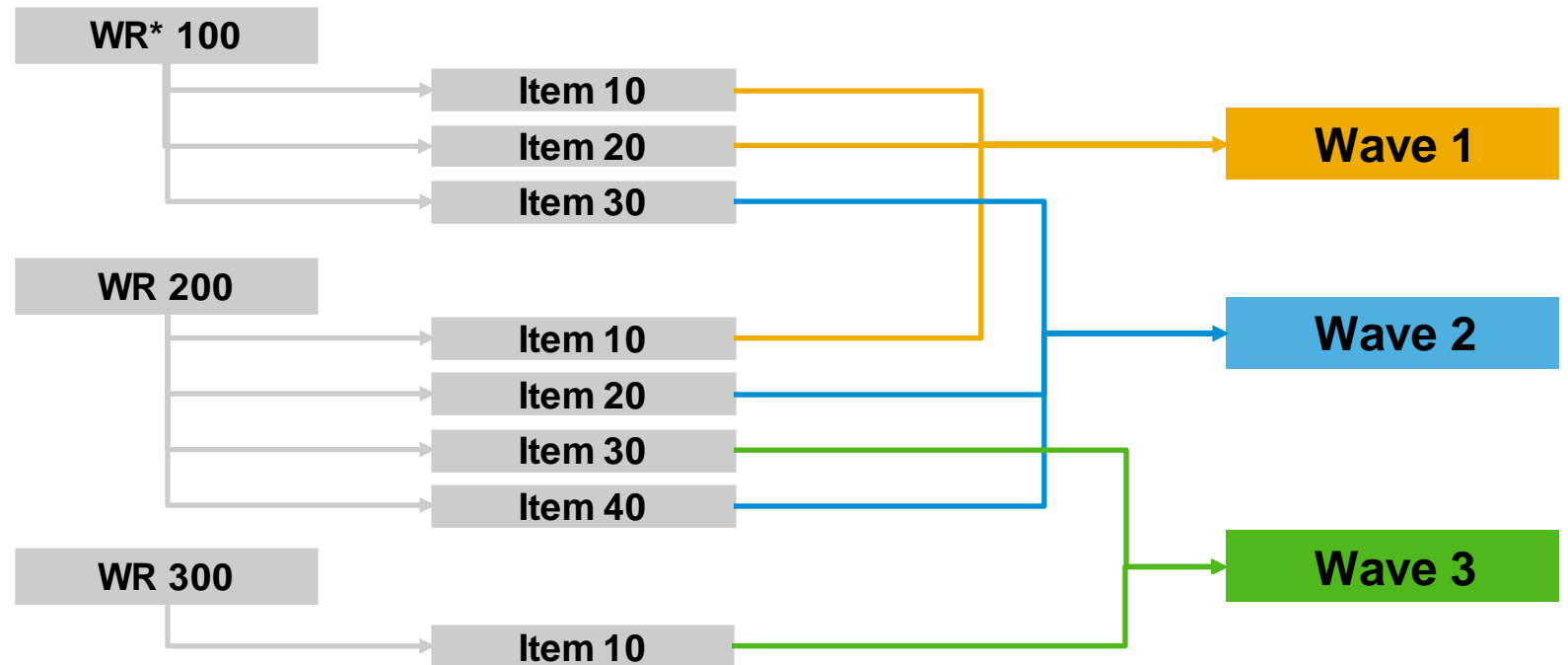
Introduction

Scope

- Multiple warehouse request items are assigned to the same wave based on predefined criteria
- Upon wave release, the warehouse tasks for all warehouse request items are created

Business Benefit:

- Optimized picking process
- Ideal creation of warehouse orders (= work packages for one picker)
- Timed warehouse task creation for related deliveries



* Warehouse Request



Wave Management

Configuration

Available SSCUIs

- Define Number Range Intervals for Waves
- Assign Number Range Intervals to Warehouse Number
- Maintain Wave Types
- Maintain Wave Categories
- Maintain Wave Capacity Profiles
- Define Wave Simulation Settings

Configure maximum capacities per wave



War...	Description	Wave Type	Description
<input type="checkbox"/> 1050	Warehouse	ST01	Wave Type 01
<input type="checkbox"/> 1750	Warehouse	ST01	Wave Type 01

Maintain Wave Types

War...	Description	Wave Ca...	Description
<input type="checkbox"/> 1050	Warehouse	S1	Wave Category 01
<input type="checkbox"/> 1750	Warehouse	S1	Wave Category 01

Maintain Wave Categories

Warehouse No.: 1050
Capacity Prfl.: Z1

Capacity Profile for Waves

Description: Wave capacity with 10 items

Maximum No. Items: 10
Maximum Weight:
Weight Unit:
Max. Volume:
Volume Unit:
Max. Capacity:
Error at Cap.Overr.: ☐

Maintain Wave Capacity Profiles

War...	Description	No WO Sim.	No Update
<input type="checkbox"/> 1050	Warehouse	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1750	Warehouse	<input type="checkbox"/>	<input type="checkbox"/>

Maintain Wave Simulation Settings



Wave Management

Maintain Wave Templates

Scope

- Define different wave templates for different scenarios such as export or domestic shipments
- Define time settings such as the cut off time

Business Benefit:

- Distinguish different scenarios based on wave templates to gain transparency and efficiency
- Meet planned schedules by defining time settings

Define Wave Template: Change

Table View Edit Goto Selection Utilities System Help

Details New Entries Copy As... Delete Undo Change Select All Select Block Deselect All

Warehouse No.: 1050 Warehouse

Define Wave Template

Template	Description	Rlse Mthd	Wave Type	Wave Cat.	BD
<input type="checkbox"/> 2001	Export, Cut-Off 18:00, 20t	Manual	ST01	S1	Leave Item in Wave (Release Wave ...)
<input type="checkbox"/> 2002	Domestic, Cut-Off 12:00, 20t	Manual	ST01	S1	Leave Item in Wave (Release Wave ...)
<input type="checkbox"/> 2003	Parcels, Cut-Off 09:00	Manual	ST01	S1	Leave Item in Wave (Release Wave ...)
<input type="checkbox"/> 2004	Parcels, Cut-Off 12:00	Manual			
<input type="checkbox"/> 2005	Parcels, Cut-Off 15:00	Manual			

Maintain Wave Template

Define Wave Template Time Attributes: Change: Details

Table View Edit Goto Selection Utilities System Help

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

Warehouse No.: 1050 Warehouse

Time Zone: CET

Wave Template: 2001

Template Option: 1

Define Wave Template Time Attributes

Time Settings

Cutoff Time: 18:00:00	Cutoff Days:
Release Time: 18:15:00	Release Days:
Pkng Cmpl. Time:	Pkng Cmpl. Days:
Packg Cmpl. Time:	Packg Cmpl. Days:
Stgg Cmpl. Time: 22:00:00	Stagg Cmpl. Days:
Wave Cmpl. Time:	
Wave Calendar: 01	

Execution Settings

Staging Area Group:

Staging Area:

Mode:

Define time settings such as cut-off time per wave template



Wave Management

Schedule Wave Creation

Scope

- Schedule wave creation in background
- Define parameters for the wave creation, e.g. warehouse number and wave template
- Define warehouse request selection parameters, e.g. the route

Business Benefit:

- Waves are created automatically in background
- Similar deliveries can be grouped into one wave

Parameters for wave creation

Schedule Wave Creation

1 Template Selection 2 Scheduling Options 3 Parameters (Optional)

Parameter for Creating Wave

Warehouse Number: 1050 x

Warehouse Request Document Category for Waves: Outbound Delivery Order (PDO) x

Wave Template: 0000002001 (0000002001) x

Wave Template Option:

Wave Completion Date:

Parameter for Selecting Warehouse Request Items

Document:

Item Number:

Document Type:

Product:

Batch:

Goods Issue Date: MM-dd-yyyy

Staging Area:

Departure Date from Yard: MM-dd-yyyy

Ship-to Party:

End Date of Warehouse Activities: MM-dd-yyyy

Route:

Activity Area:

Sales Order:

Warehouse Process Type:

Supply Area:

Staging Area Group:

Source Storage Type:

Source Storage Section:

Schedule Check Template Cancel

Schedule Wave Creation



Wave Management

Warehouse Monitor

Scope:

- New warehouse monitor node “Wave” with sub nodes
- Selection of waves
- Monitor methods to perform actions
 - “Release Wave”
 - “Simulate Waves”
- ...

Business Benefit:

- Cluster outbound delivery items into waves based on customer defined criteria
- Collective warehouse task release to optimize the picking process

New node “Wave” with sub nodes

Navigation to sub nodes

New methods

The screenshot displays the SAP Warehouse Management Monitor interface. On the left, a tree view shows the 'Wave' node expanded under 'Outbound'. The 'Wave' node has sub-nodes: 'Wave Item', 'Warehouse Order', 'Warehouse Task', and 'Wave Detail'. A context menu is open for the 'Wave' node, showing actions like 'Lock Wave Release', 'Unlock Wave Release', 'Delete Wave', 'Merge Wave', 'Display Release Log', 'Release Wave', 'Release Wave Locked', 'Release Single Wave', 'Release Single Wave Locked', 'Simulate Waves', 'Simulate Single Waves', 'Display Simulation Log', and 'Wave Event/Other Stocks Not A'. The main table shows a list of waves with columns: Wave, Doc. Cat., Template, Option, Description, Wave Type, Wave Cat., Rise Mthd, Status, and Cale. The table contains 15 rows of data.

Wave	Doc. Cat.	Template	Option	Description	Wave Type	Wave Cat.	Rise Mthd	Status	Cale
4000058	PDO	23010501	1	LeavelteminWave	ST01	C1		E	01
4000059	PDO	23010501	1	LeavelteminWave				R	
4000062	PDO	23010501		LeavelteminWave	ST01	C1		R	
4000086	PDO	23010504	1	RemoveltemfromV	ST01	C1	B	E	01
4000092	PDO	23010501	1	LeavelteminWave			B	R	
4000095	PDO	23010501	1	LeavelteminWave			B	R	
4000096	PDO	23010504	1	RemoveltemfromV	ST01	C1	B	E	01
4000104	PDO	104	1	Manual release				R	01
4000111	PDO	23010501	1	LeavelteminWave			B	R	
4000116	PDO	23010504	1	RemoveltemfromV	ST01	C1	B	E	01
4000125	PDO	23010504	1	RemoveltemfromV	ST01	C1	B	E	01
4000167	PDO	23010504	1	RemoveltemfromV	ST01	C1	B	R	01
4000168	PDO	23010501	1	LeavelteminWave			B	R	
4000180	PDO	23010504	1	RemoveltemfromV	ST01	C1	B	E	01
4000190	PDO	23010504	1	RemoveltemfromV	ST01	C1	B	E	01
4000263	PDO	23010501	1	LeavelteminWave			B	R	

Warehouse Monitor



Picking Predefined Serial Numbers

Taken over to the Outbound Delivery Order

- Serial numbers are copied
- from the Delivery Management outbound delivery
- to the Warehouse Management outbound delivery order

SAP Outbound Delivery Item

80034039 / Trading Goods 0018, Reg.Proc., Serial No. TG0018

Serial Numbers

Serial Number	Equipment
20230124020	12583886
20230124021	12583887
20230124022	12583888
20230124023	12583889

Loading/Shipments

Financial Processing

Manage Outbound Deliveries

SAP Item

80034039 / 10 Trading Goods 0018, Reg.Proc., Serial No.

Serial Numbers

Serial Numbers (4)

Serial Number
20230124020
20230124021
20230124022
20230124023

Manage Outbound Delivery Orders



Picking Predefined Serial Numbers

Process in RF

Scope:

- Predefined serial numbers are displayed in RF and need to be verified

Business Benefit:

- Ensure that the serial numbers requested (e.g. in the sales or production order) are picked

Log...

WODetl HUCrt

WO No.: 2000014234

AA: S001 PlnHUs: 1

Pick-HU

Pack. Mat LP

Menu

300021609

PMPALLET

Clear Back >

WODetl HUCrt

Detail Queries

SrcBin

S001-02-04

Prod. SN: C

TG0018

Trading Goods 0018, Reg. Proc., Serial No.

ActQty: 4 PC

DestHU

300021609

Clear Back >

Detail Queries

Save

Prod.: TG0018

SNsCrt: 4 / 4

SN

20230124020

20230124021

20230124022

20230124023

Clear Back >

Predefined serial numbers

EWM_MOBGUI: *Picking transactions*



Automatic Packing in Outbound Work Center

Configuration

Scope:

- Visibility of the button configurable per work center layout
- Button is always visible when navigating from the app *Manage Outbound Delivery Orders*

The screenshot shows the SAP 'Specify Work Center Layout: Change: Details' configuration screen. The interface includes a top navigation bar with the SAP logo, a title bar, and a search bar. Below the navigation bar, there are tabs for 'Menu', 'New Entries', 'Copy As...', 'Undo Change', 'Previous Entry', 'Next Entry', 'Other Entry...', and 'Configuration Help'. The main content area is divided into two columns of checkboxes. The left column includes 'Enter Differences', 'Change HU', 'Assign SNs', 'Assign SNs to Deliv.', 'Focus on Stock', and a section titled 'Different Functions' which includes 'Packing in Bin', 'Delete HU', 'Empty HU', 'HU Header Chgble', 'Pack Add.Pack.Mat.', 'Reason Required', and 'Pack Automatically'. The right column includes 'HU Detail 2', 'HU Contents', 'HU Attachments', 'Stor. Bin', 'Prod. in Storage Bin', 'Product Details', 'Product Not Packed', 'Texts for Product', 'Open WTs', 'Confirmed WTs', 'Serial Nos', and 'Warehouse'. The 'Pack Automatically' checkbox is highlighted with a red box, and a red arrow points to it from the text 'Flag to activate automatic packing'.

SSCUI - Specify Work Center Layout



Automatic Packing in Outbound Work Center

Feature

Scope:

- Automatic packing based on packing instructions
- Determination of the packing instruction also based on delivery criteria

Business Benefit:

- Drastically reduced manual effort when packing repeatedly
- Guidance for the end user on how to pack

The screenshot displays the SAP Work Center Packing interface. At the top, the SAP logo and the title 'Work Center Packing Work Center (Time Zone CET)' are visible. Below the title, there are navigation tabs: 'Work Center', 'Edit', 'Goto', 'Environment', 'System', and 'Help'. A 'Message Log' and 'Refresh' button are also present. A blue arrow points to a button in the toolbar labeled 'Automatic packing'. The main area contains a table with columns: 'Section/Bin/HU/Item', 'Product', 'PckQty AUn', and 'Alt'. The table lists several items, including 'GI-AREA-01', '300001611', 'Trad.Good 11,PD,Reg.Trading', 'PMPALLET', and 'TG11'. To the right of the table, there are input fields for 'HU:', 'Pack. Material:', 'HU/Storage Bin:', 'Cons.Grp:', and 'Number of HUs: 1'. The 'Number of HUs' field is highlighted with a blue border.

Section/Bin/HU/Item	Product	PckQty AUn	Alt
GI-AREA-01			
300001611	PMPALLET		
Trad.Good 11,PD,Reg.Trading	TG11	1 PC	
300001613	PMPALLET		
Trad.Good 11,PD,Reg.Trading	TG11	1 PC	
300001615	PMPALLET		

Pack Handling Units - Advanced



Outbound Loading with ASR

Overview

Scope:

- Loading by Delivery
- Loading by Door
- Loading by Freight Order

Business Benefit:

- Recording the loading step in the system
- Validation that the correct HUs are loaded

Multiple reference documents supported

Logoff List

01 Loading by Delivery

02 Loading by Door

03 Loading by Freight Order

Menu

Clear Back >

Message

Del. No.

80000007

Clear Back

List Total

HU

300000200

0 / 2

HU Scan

Clear Back >

List Total

HU

300000200

1 / 2

Counter updated

Clear Back >

EWM_MOBGUI: Loading transactions

Core Functions

Internal Processes





Direct Replenishment

Configuration

Scope:

- Configurable in SSCUI *Activate Replenishment Strategies in Storage Types*
- New Replenishment Strategy: *Direct Replenishment*
- Checkbox to activate *Picker-driven replenishment* -> In this case, the replenishment task will immediately be assigned to the picker

Activate Picker-driven replenishment

< **SAP** Activate Replenishment Strategies in Storage Types: Change: Details ▾

Menu ▾ New Entries Copy As... Delete Undo Change Previous Entry Next Entry Other Entry... Configuration Help

Warehouse No.: 1050 Warehouse

Storage Type: ZSF2 Fixed Bin Storage

Repl. Strat.: Direct Replenishment ▾

Planned Replenishment

Automatic Replenishment

Order-Related Replenishment

Direct Replenishment Strategy

Direct Replenishment

Activate Replenishment

Whse Proc. Type

Qty Type Used: Available Quantity ▾

Pckr-Drvn Repl.: ☒

Storage Type: ZSG1

St. Type Group:

☐ Ignore Bins with Stock Removal Lock

☒ WT Immed.

☐ Do Not Consider Putaway Quantities

☐ Recalculate Replenishment Qty in WT

Activate Replenishment Strategies in Storage Types



Direct Replenishment

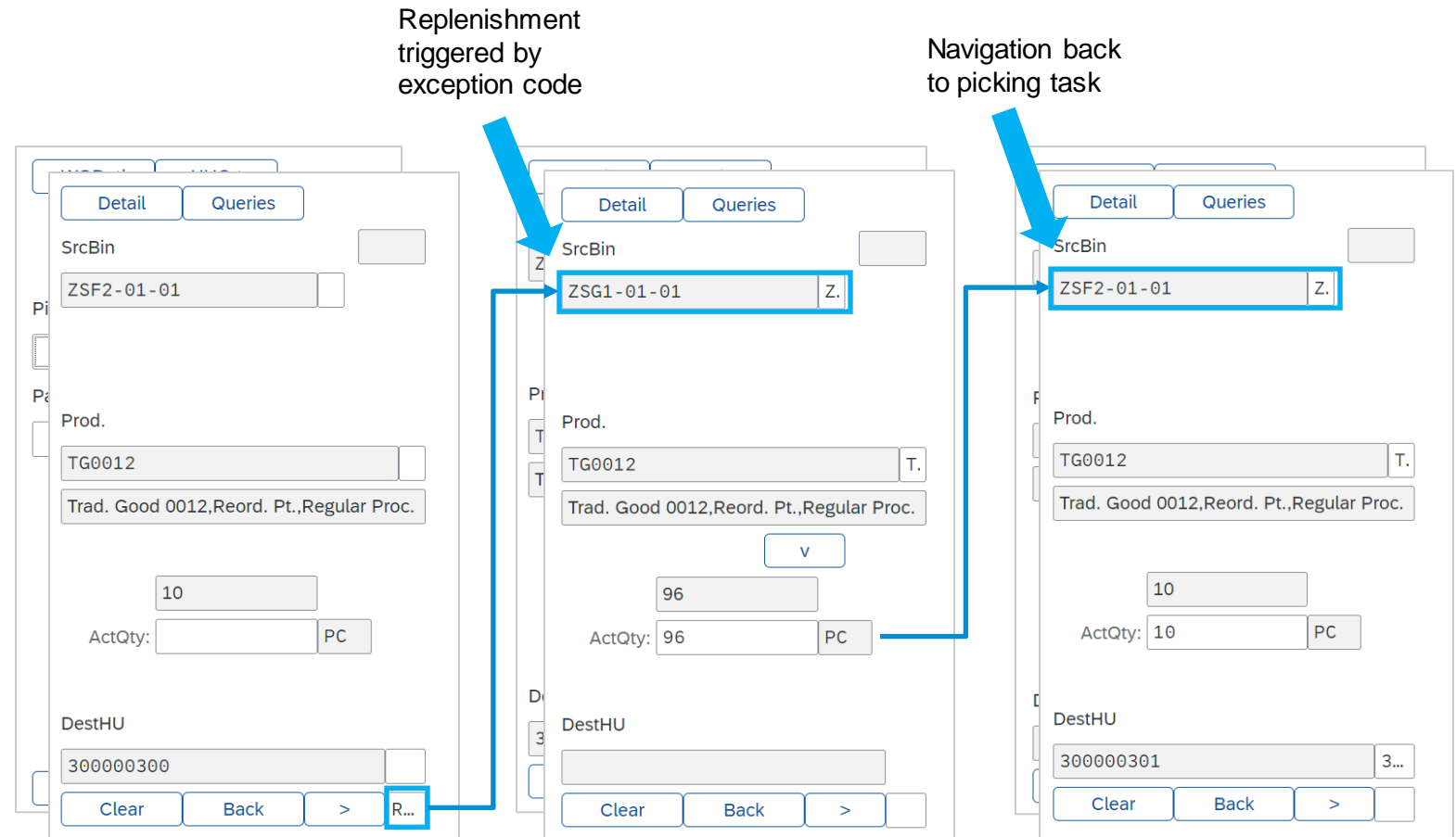
Process in RF

Scope:

- Exception code available in RF for the picker to trigger replenishment
- Replenishment task is directly displayed to the picker (picker-driven replenishment) or available for a different resource
- Navigation back to the packing task after the replenishment is completed

Business Benefit:

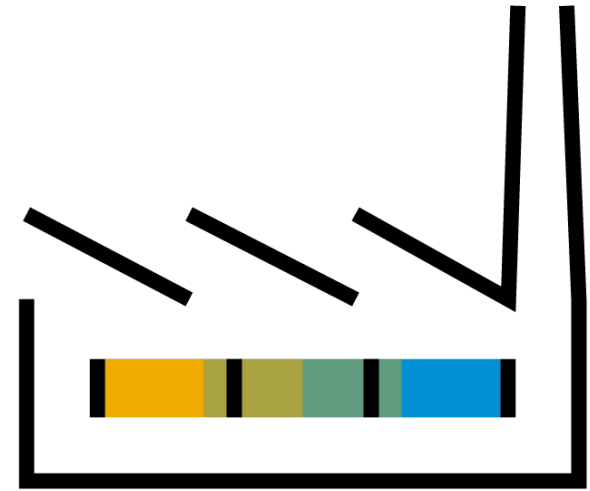
- Picker initiated replenishment allows for a simplified process
- No additional communication to a warehouse supervisor required



EWM_MOBGUI: Picking transactions

Core Functions

Production Integration





PMR-Quantity Based Staging

Overview

Scope:

- Staging quantity is calculated based on the exact PMR item quantities instead of defined minimum and staging quantities
- Configuration to activate this quantity calculation type

Business Benefit:

- The full quantity can be staged at once, if sufficient PSA capacities are available

SAP Assign Bin to PSA: Change: Details

Table View Edit Goto Selection Utilities System Help

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

Supply Area: PSA_03 / 1010 Bin Managed PSA AdvProdInt

Product: RM324

RAW324,VB,Consumption

Assign Bin to PSA

Storage Bin: PROD-SUPPLY-3

Staging Method: Not Relevant for Staging

Qty Calc. Type: No Quantity Calculation

Replmt Qty: No Quantity Calculation

Min.Prd.Qty PSA: 2 Quantity-Based Calculation

Unit: 3 Calculation Based on PMRs

Assign Bin to PSA - Warehouse

Quantity calculation based on PMR

Core Functions

Continuous Improvements





Navigation from Storage Bin to Related Warehouse Tasks

Warehouse Monitor Improvements

Scope:

- New sub-node *Warehouse Tasks* for the node *Storage Bin*
- Displaying of open warehouse tasks for the selected storage bin(s)
- Monitor methods available to perform actions on the warehouse tasks

Business Benefit:

- Quick and simple navigation to the open warehouse tasks for a storage bin

New sub-node *Warehouse Tasks*

The screenshot shows the SAP Warehouse Management Monitor interface. On the left, a navigation tree is expanded to 'Storage Bin'. A new sub-node 'Warehouse Task' is highlighted with a blue box and a blue arrow pointing to it from the text 'New sub-node Warehouse Tasks'. The main area displays two tables. The top table, 'Storage Bin', shows details for storage bin S001-03-04. The bottom table, 'Warehouse Task', shows a list of open warehouse tasks for the selected storage bin. The tasks are all 'Stock Removal' tasks for product RM524, with various serial numbers and quantities.

Storage Bin	Ty.	Section	BT	Acc. Type	S	RB	PB	IA	Empty	Weight Used	Maximum Weight	Unit	Loading Volume	Maximum Volume	VUn	Total Capacity
S001-03-04		S001								564.800	0	KG	0	0	CD3	0.000

Warehouse Task	Item	Status	Whse Process Category Desc.	Product	Product Short Description	Batch	Src Trgt Qty BUoM	Act. Qty Dest
1000005407			Stock Removal	RM524	RAW524.VB.Consumption.SingOrd.SerialNo		2	
1000014601			Stock Removal	RM524	RAW524.VB.Consumption.SingOrd.SerialNo		3	
1000014602			Stock Removal	RM524	RAW524.VB.Consumption.SingOrd.SerialNo		7	
1000014603			Stock Removal	RM524	RAW524.VB.Consumption.SingOrd.SerialNo		4	
1000014604			Stock Removal	RM524	RAW524.VB.Consumption.SingOrd.SerialNo		12	
1000014605			Stock Removal	RM524	RAW524.VB.Consumption.SingOrd.SerialNo		8	

Warehouse Monitor

Open warehouse tasks are displayed



Displaying the Manufacturing Order for Physical Stock

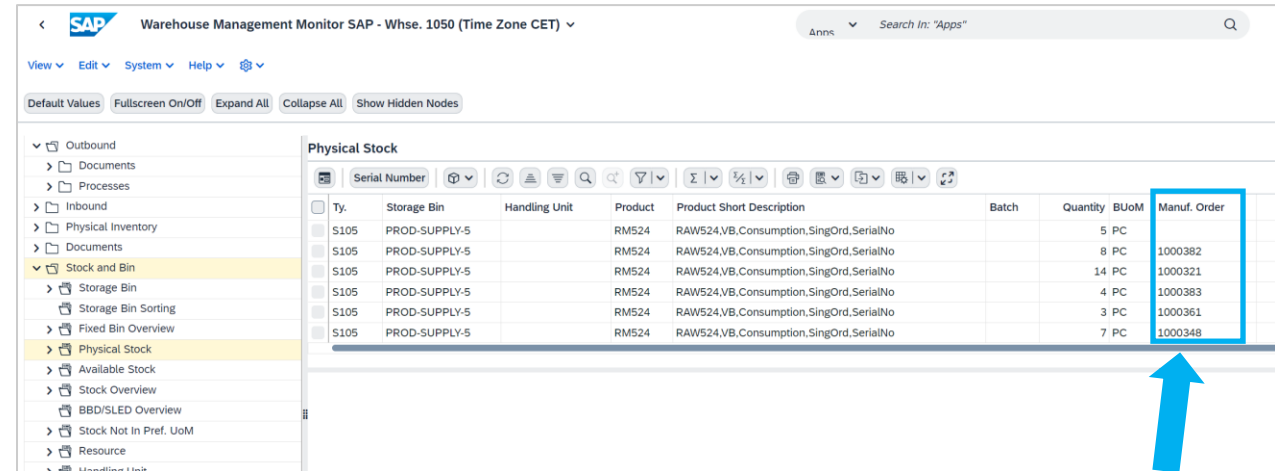
Warehouse Monitor Improvements

Scope:

- Displaying the manufacturing order number
- Applicable for Single Order Staging items for Advanced Production Integration

Business Benefit:

- Quick and simple referencing to the manufacturing order number



The screenshot shows the SAP Warehouse Management Monitor interface. The left sidebar displays a navigation tree with 'Physical Stock' selected. The main table, titled 'Physical Stock', lists inventory items with columns for Ty., Storage Bin, Handling Unit, Product, Product Short Description, Batch, Quantity, BUoM, and Manuf. Order. The 'Manuf. Order' column is highlighted with a blue box, and a blue arrow points to it from the text 'Displaying the manufacturing order number'.

Ty.	Storage Bin	Handling Unit	Product	Product Short Description	Batch	Quantity	BUoM	Manuf. Order
S105	PROD-SUPPLY-5		RM524	RAW524.VB.Consumption.SingOrd.SerialNo		5	PC	1000382
S105	PROD-SUPPLY-5		RM524	RAW524.VB.Consumption.SingOrd.SerialNo		8	PC	1000321
S105	PROD-SUPPLY-5		RM524	RAW524.VB.Consumption.SingOrd.SerialNo		14	PC	1000383
S105	PROD-SUPPLY-5		RM524	RAW524.VB.Consumption.SingOrd.SerialNo		4	PC	1000361
S105	PROD-SUPPLY-5		RM524	RAW524.VB.Consumption.SingOrd.SerialNo		3	PC	1000348
S105	PROD-SUPPLY-5		RM524	RAW524.VB.Consumption.SingOrd.SerialNo		7	PC	1000348

Warehouse Monitor

Displaying the
manufacturing
order number



Mass Change of HU Type

Warehouse Monitor Improvements

Scope:

- Monitor method to change the handling unit type
- Enabled for mass processing

Business Benefit:

- Quick and simple change of the handling unit type

The screenshot shows the SAP Warehouse Management Monitor interface. The left sidebar contains a navigation tree with 'Handling Unit' selected. The main area displays a table of handling units. A context menu is open over the table, showing various actions. The 'Change Handling Unit Type' option is highlighted with a red box. A blue arrow points from this option to a dialog box titled 'Select the HU type.'.

Handling Unit	HU Type	HU Gr	Packaging Material	Print Handling Unit
300000100	SP1		PMPALLET	Print Handling Unit
300000151	SP1		PMPALLET	Reprint Handling Unit
300000152	SP1		PMPALLET	Delete HU
300000153	SP1		PMPALLET	Create Warehouse Task
300007850	SC1		R_CARTON	Release Stock
300007963	SC1		R_CARTON	Upload Attachments
300008430	SC1		R_CARTON	Add URL as Attachment
300008431	SC1		R_CARTON	Change Handling Unit Type

Select the HU type.

Warehouse No.: 1050

* HU Type: SW1

Continue Cancel

Warehouse Monitor

HU Type to be selected



Displaying Content Information of HUs After Goods Issue

Warehouse Monitor Improvements

Scope:

- Display Handling Units and their content also after goods issue posting

Business Benefit:

- Quick and simple display of HUs that are already posted goods issue

Handling Unit

Handling Unit: to:

Handling Unit Type: to:

☐ Include HU in Planning ☒ Include Dispatched HU ☐ Include Deleted HU

☐ Include HU in Storage Bin ☐ Include HU in Resource ☐ Include HU in TU

Selection of HUs that have already been goods issued

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

View Edit System Help

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

Handling Unit

Handling Unit	Packaging Material	Pkgng Mat Ty.	HU Type	Storage Bin	Ty.	Section	Cat	Document	Ref. Do...	Reference Document Number	Top	Lowest HU	SD Document	Item	No. Attm.	Counter
300002739	PMPCARTON	SP11	SC1				PDO	80006326	ERP	80006326	X	X			0	
300013910	PMPALLET	SP21	SP1				PDO	80015273	ERP	80015273	X	X			0	
300013911	PMPALLET	SP21	SP1				PDO	80015273	ERP	80015273	X	X			0	
300013912	PMPALLET	SP21	SP1				PDO	80015273	ERP	80015273	X	X			0	
300005659	PMPALLET	SP21	SP1				PDO	80006326	ERP	80006326	X	X			0	
300015368	PMPALLET	SP21	SP1				PDO	80017090	ERP	80017090	X	X			0	
300016479	PMPALLET	SP21	SP1				PDI	180009376	ERP	180009376	X	X			0	
300017331	PMPCARTON	SP11	SC1				PDO	80021818	ERP	80021818	X	X			0	
300000256	PMPALLET	SP21	SP1				PDO	80006183	ERP	80006183	X	X			0	

Handling Unit Content

Handling Unit	Product	Product Short Description	Quantity	BUoM	Packed Qty (AUoM)	Aln	ST	Cat	Document	Batch	Owner	Disposal	Use	Type	Stock Reference Document	Sls Order Item
300002739	TG11	Trad.Good 11.PD.Reg.Trading	0.100	PC	0.100	PC	F	PDO	80006326		10411010	10411010				
300005659	TG11	Trad.Good 11.PD.Reg.Trading	2.900	PC	2.900	PC	F	PDO	80006326		10411010	10411010				
300013910	TG11	Trad.Good 11.PD.Reg.Trading	2	PC		PC	F	PDO	80015273		10411010	10411010				
300013911	TG11	Trad.Good 11.PD.Reg.Trading	1	PC		PC	F	PDO	80015273		10411010	10411010				
300013912	TG11	Trad.Good 11.PD.Reg.Trading	2	PC		PC	F	PDO	80015273		10411010	10411010				
300015368	TG11	Trad.Good 11.PD.Reg.Trading	1	PC		PC	F	PDO	80017090		10411010	10411010				
300016479	TG11	Trad.Good 11.PD.Reg.Trading	1	PC		PC	F	PDO	80021491		10411010	10411010				

Warehouse Monitor

Reference document on header level

Reference document on item level



Cancellation of Multiple Goods Movement Documents

Various improvements

Scope:

- Cancel multiple goods movement documents at the same time
- Selection of goods movement documents via select-options

Business Benefit:

- Quick and simple cancellation of multiple goods movement documents, e.g. after an erroneous stock upload

The screenshot shows the SAP 'Post Unplanned Goods Issue' transaction. The 'GI Documents' field in the 'Processing' section is highlighted with a blue box and a blue arrow pointing to it from the text 'Multiple selection possible'.

Serial Number: to:

Handling Unit Data

Handling Unit: to:

Display Mode

Display HU List: ☐

Display Stock List: ☒

Select Scrap Stock Only: ☐

Processing

* GI Process: Cancel GI Documents

GI Documents: to:

Posting Date:

Storage Location:

Movement Reason:

Additional Text:

Acct Assignment Cat.:

Background Processing

Post GM Immediately: ☐

Post Goods Issue - Unplanned



Adding a Short Text to Goods Movement

Various improvements

Scope:

- Input field to enter an addition text for goods movements in these apps
- Post Goods Issue – Unplanned
- Warehouse Monitor (several methods on the *Physical Stock* node)
- Stored in the warehouse task and the material document

Business Benefit:

- Quick and simple recording of additional text for a goods movement posting

Change Stock Type

Posting Change: Destination Stock Attributes

Stock Type: B Unrestricted-Use

Quantity For Each Selected Item

Total Quantity: 3

Available Qty BUoM: 3 PC

Avail. Qty Alt. UoM: 3 PC

Qty f. Post. Change: 3 PC

Warehouse Task Creation (Optional)

Whse Process Type:

Stor. Bin:

Add. Text: Quality issue

Check Input Create Posting Chg. Cancel

Warehouse Monitor

Warehouse Task

Warehouse Task	Item	Status	Whse Process Category Desc.	Product	Product Short Description	Additional Text	Batch
7000014800	1	C	Posting Change	TG11	Trad.Good 11.PD.Reg.Trading	Quality issue	
7000014800	2	C	Posting Change	TG11	Trad.Good 11.PD.Reg.Trading	Quality issue	

Warehouse Monitor

General Doc. info

Document Date: 07/05/2023 Material Slip: 1050007000014800

Posting Date: 07/05/2023 Doc. Header Text:

Individual Slip with Insp...

GR/IR Slip No.:

Transfer Posting Material Quantity Where Account Assignment Warehouse Management

Movement Type: 344 + TR blocked to unre.

Plant: Plant 1 DE 1010

Storage Location: Warehouse 105W

Unloading Point:

Text: Quality issue

Display Material Document List



Batch Verification for Physical Inventory Counting

Various improvements

Scope:

- Batch verification field added for Physical Inventory Counting
- Visibility of the field can be configured in SSCU *Define Warehouse-Specific Verification*

Business Benefit:

- Improved reliability of the physical inventory counts by enforcing the scan of the batch number

Batch verification field



ZeroSt Newltm

Bin: S001-11-01

AL 1

TG21

Trad.Good 21,Reorder Point,Ba...

PC

Total: PC

0000000492 Stk: 10411010

K Ty.: F SC: 10411010

GRDate: 03/29/2023

SLED:

0

Clear Back >

EWM_MOBGUI: Physical Inventory Counting

User Experience





New Features in the Manage Outbound Delivery Orders App

Feature Overview

Scope:

- Edit Mode: Change information in various fields using the *Draft* mode
- Serial Number Support
 - Displaying serial numbers on the item details screen
 - Add or delete serial number assignments for serial number requirement on document item level
- Displaying Batch Hierarchies
- Manual Warehouse Task Creation
- Picking Progress Indicator
- Filter by *Transportation Planning Type* to filter for ASR relevant deliveries only
- Microsoft Teams Integration

Business Benefit:

- Intuitive user interface
- Extensibility & adaptation thanks to Fiori Elements
- ODO overview and details for selected ODO on ONE screen



New Features in the Manage Outbound Delivery Orders App

Edit Mode & Picking Progress

Picking
progress
indicator



Outbound Delivery Order ▾

EW

80035553

Draft ▾

Post Goods Issue | ▾

X

Outbound w/o Reference

Picking Progress

Picking Executed in Percentage

0%

Overall Block Status: Not Blocked

Warehouse Number: Warehouse (1050)

Time Zone: Europe/Berlin

Consignee: Inlandskunde DE 1 (10100001)

Departure Date for Route: 04/05/2023, 18:21:51 Europe, Berlin

^

★

General Information

Items

General Data

Dates

Save

Discard Draft

Manage Outbound Delivery Orders

Draft Mode





New Features in the Manage Outbound Delivery Orders App

Transportation Planning Type & Serial Numbers

Search by
Transportation
Planning Type

Standard ▼

Editing Status: All ▼

Search Q

Warehouse Number: * Warehouse (1050) Q

Carrier: Q

Planned Picking: ▼

Goods Issue: ▼

Document Number: =80034039 x Q

Picking: ▼

Transportation Planning Type: ▼

- ☐ Obligatory Planning in TM for Adv. SR (Release in TM) (E)
- ☐ Planning in TM for Adv. SR (Release in EWM) (F)

80034039 Edit Delete ...

Outbound w/o Reference ▼

Items ▼

Items (1) Standard ▼ ...

<input type="checkbox"/> Item Nu...	Overall Block Status	
<input type="checkbox"/> 10	Not Blocked	>

10 Adjust Delivery Item Quantity Create Pick Warehouse Tasks EW Q

Trading Goods 0018,Reg.Proc., Serial No. ▼

General Information **Serial Numbers**

Serial Numbers (4) Q Q ▼

Serial Number
20230124020
20230124021
20230124022
20230124023

Manage Outbound Delivery Orders



New Features in the Manage Outbound Delivery Orders App

Batch Hierarchies

< **SAP** Outbound Delivery Order ▾

Ann ▾ Search In: "Apps" 🔍

© ⓘ ? 🔔 EW

80035281 [Edit](#) [Delete](#) [Post Goods Issue](#) ▾ [Create Pick Warehouse Tasks](#) [Set to Ready for Ship...](#) ▾ [Print Loading Instruction](#) [Investigate Block](#) [Related Apps](#) ▾ [🔗](#) ▾ [🔍](#) [✕](#)

Outbound w/o Reference

General Information **Items**

Items

Items (3) | Standard * ▾ [Adjust Delivery Item Quantity](#) [Create Pick Warehouse Tasks](#) [📄](#) [⌵](#) [⚙️](#) [🔍](#) ▾

<input type="checkbox"/> Item Nu... ↑	Product	Product Description	Quantity	Batch	Higher Level Batch I... ↑	Picking Status	Goods Issue Status	Open Warehouse Tasks
<input type="checkbox"/> 10	TG21	Trad.Good 21,Reorder Point,Batch-FIFO	10 PC		10	Not Relevant	Not Relevant	No >
Planned Picking Status: Completed Packing Status: Not Relevant Completion Status: Not Started Loading Status:								
<input type="checkbox"/> 20	TG21	Trad.Good 21,Reorder Point,Batch-FIFO	3 PC	000000007	10	Completed	Not Started	No >
Planned Picking Status: Not Relevant Packing Status: Not Started Completion Status: Not Started Loading Status:								
<input type="checkbox"/> 30	TG21	Trad.Good 21,Reorder Point,Batch-FIFO	7 PC	000000008	10	Completed	Not Started	No >
Planned Picking Status: Not Relevant Packing Status: Not Started Completion Status: Not Started Loading Status:								

Manage Outbound Delivery Orders

Batch
Hierarchy



New Features in the Manage Outbound Delivery Orders App

Manual Warehouse Task Creation

The screenshot shows the SAP Outbound Delivery Order 80010576. The 'Related Apps' menu is open, highlighting 'Create Warehouse Tasks'. The order details include:

- Picking Progress:** 0%
- Overall Block Status:** Not Blocked
- Warehouse Number:** Warehouse (1050)
- Consignee:** Inlandskunde DE 2 (10100002)
- Time Zone:** Europe/Berlin
- Departure Date for Route:** 02-24-2023, 12:00:00 AM Europe, Berlin

The 'General Information' tab is selected, showing the following data:

General Data	Dates	Status
Document Type: Outbound for Sales Order (LF)	Departure Date for Route: 02-24-2023, 12:00:00 AM Europe, Berlin	Planned Picking Status: Not Started
Incoterms: DDP	Planned Delivery Date: 02-24-2023, 12:00:00 AM Europe, Berlin	Picking Status: Not Started
Incoterms (Part 2): Walldorf	Changed: 02-22-2023, 09:28:00 AM Europe, Berlin	Packing Status: Not Started
Gross Weight: 36.000 KG		Shipping Readiness Status: Not Ready

The screenshot shows the 'Create Warehouse Task - Whse. 1...' screen. The 'Warehouse Request' table is highlighted, showing the following data:

Status	Warehouse Request	Item	Proc. Type	Total Requested Qty	Unit	Requested Quantity	BUoM	Open Quantity BUoM	BUoM	Open Qty Alt.UoM	AUoM
Not Started	80010576	10	S210	2	PC	2	PC	2	PC	2	PC

Manage Outbound Delivery Orders



New Features in the Manage Outbound Delivery Orders App

Microsoft Teams Integration

The screenshot displays the SAP Manage Outbound Delivery Orders app interface. On the left, there's a sidebar with search filters and a table of outbound delivery orders. The main area shows details for order 80035281, including general data, dates, and status. A context menu is open over the status section, highlighting the 'Microsoft Teams' option. A blue arrow points from this option to a 'Share to Microsoft Teams' dialog box on the right. The dialog box contains a message asking to check the status of the delivery, the order number, and a URL to the app.

Manage Outbound Delivery Orders



Advanced Shipping & Receiving Cockpit

Feature Overview

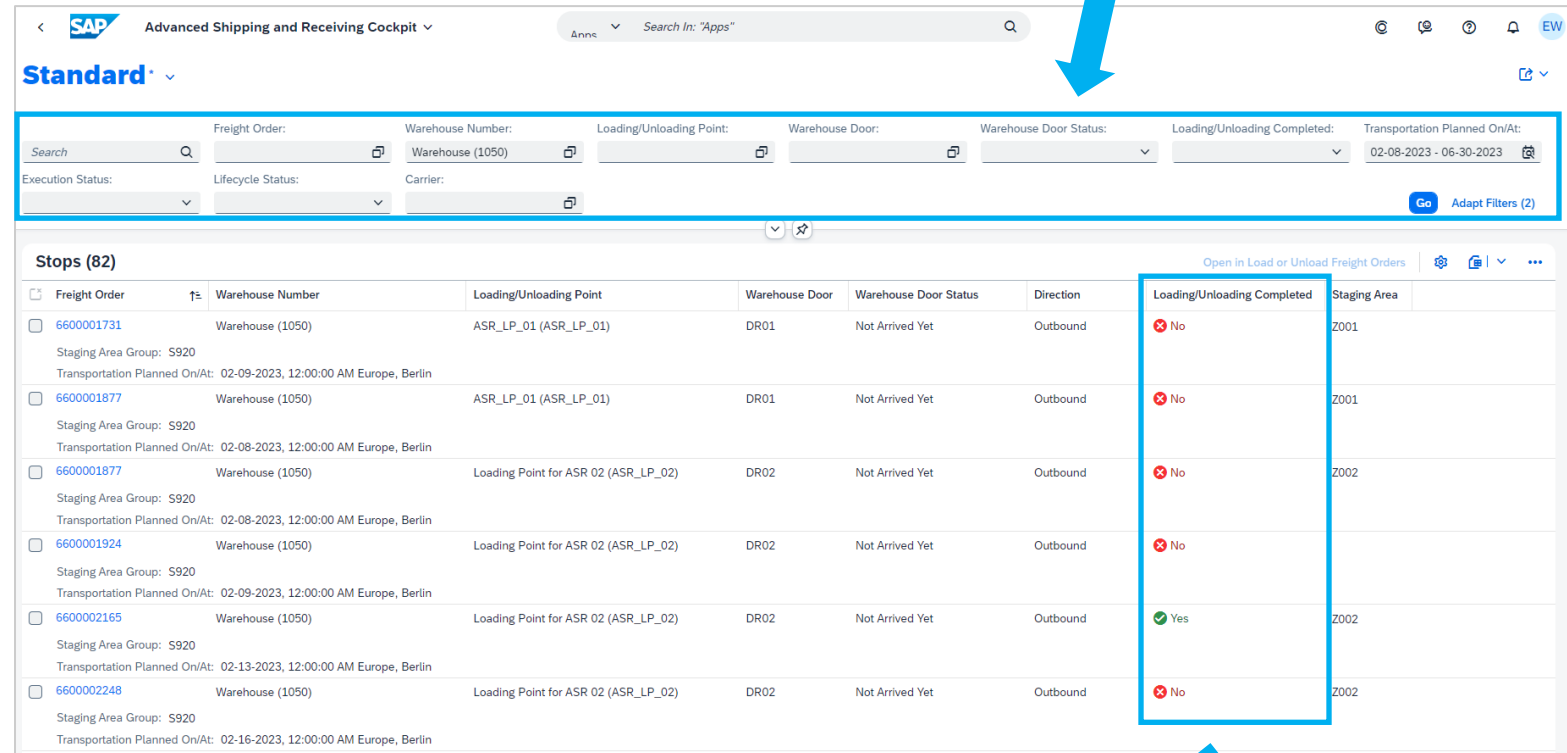
Scope:

- Overview of multiple stops of different freight orders
- Navigation to the app “Load or Unload Freight Orders” for details and actions

Business Benefit:

- Holistic view on the relevant freight orders
- Better planning for the scheduled freight orders
- Searching and filtering based on multiple criteria

Multiple search criteria



The screenshot shows the SAP Advanced Shipping and Receiving Cockpit interface. At the top, there is a search bar with the text "Search In: 'Apps'". Below the search bar, there are several filter fields: "Freight Order:", "Warehouse Number:", "Loading/Unloading Point:", "Warehouse Door:", "Warehouse Door Status:", "Loading/Unloading Completed:", and "Transportation Planned On/At:". The "Warehouse Number" field is filled with "Warehouse (1050)". Below these fields, there are buttons for "Go" and "Adapt Filters (2)".

The main table displays a list of stops. The columns are: "Stops (82)", "Freight Order", "Warehouse Number", "Loading/Unloading Point", "Warehouse Door", "Warehouse Door Status", "Direction", "Loading/Unloading Completed", and "Staging Area". The "Loading/Unloading Completed" column is highlighted with a blue box, and a blue arrow points to it from the text "Loading status" below the table.

Stops (82)	Freight Order	Warehouse Number	Loading/Unloading Point	Warehouse Door	Warehouse Door Status	Direction	Loading/Unloading Completed	Staging Area
<input type="checkbox"/>	6600001731	Warehouse (1050)	ASR_LP_01 (ASR_LP_01)	DR01	Not Arrived Yet	Outbound	✗ No	Z001
Staging Area Group: S920 Transportation Planned On/At: 02-09-2023, 12:00:00 AM Europe, Berlin								
<input type="checkbox"/>	6600001877	Warehouse (1050)	ASR_LP_01 (ASR_LP_01)	DR01	Not Arrived Yet	Outbound	✗ No	Z001
Staging Area Group: S920 Transportation Planned On/At: 02-08-2023, 12:00:00 AM Europe, Berlin								
<input type="checkbox"/>	6600001877	Warehouse (1050)	Loading Point for ASR 02 (ASR_LP_02)	DR02	Not Arrived Yet	Outbound	✗ No	Z002
Staging Area Group: S920 Transportation Planned On/At: 02-08-2023, 12:00:00 AM Europe, Berlin								
<input type="checkbox"/>	6600001924	Warehouse (1050)	Loading Point for ASR 02 (ASR_LP_02)	DR02	Not Arrived Yet	Outbound	✗ No	Z002
Staging Area Group: S920 Transportation Planned On/At: 02-09-2023, 12:00:00 AM Europe, Berlin								
<input type="checkbox"/>	6600002165	Warehouse (1050)	Loading Point for ASR 02 (ASR_LP_02)	DR02	Not Arrived Yet	Outbound	✓ Yes	Z002
Staging Area Group: S920 Transportation Planned On/At: 02-13-2023, 12:00:00 AM Europe, Berlin								
<input type="checkbox"/>	6600002248	Warehouse (1050)	Loading Point for ASR 02 (ASR_LP_02)	DR02	Not Arrived Yet	Outbound	✗ No	Z002
Staging Area Group: S920 Transportation Planned On/At: 02-16-2023, 12:00:00 AM Europe, Berlin								

Advanced Shipping & Receiving Cockpit

Loading status



Advanced Shipping & Receiving Cockpit

Navigation to the Load or Unload Freight Orders App

Advanced Shipping and Receiving Cockpit | Search In: "Apps" | EW

Standard | Adapt Filters (2)

Go

Stops (82)

Freight Order	Warehouse Number	Loading/Unloading Point	Warehouse Door	Warehouse Door Status	Direction	Loading/Unloading Completed	Staging Area
<input type="checkbox"/> 6600001731	Warehouse (1050)	ASR_LP_01 (ASR_LP_01)	DR01	Not			
Staging Area Group: S920 Transportation Planned On/At: 02-09-2023, 12:00:00 AM Europe, Berlin							
<input checked="" type="checkbox"/> 6600001877	Warehouse (1050)	ASR_LP_01 (ASR_LP_01)	DR01	Not			
Staging Area Group: S920 Transportation Planned On/At: 02-08-2023, 12:00:00 AM Europe, Berlin							
<input type="checkbox"/> 6600001877	Warehouse (1050)	Loading Point for ASR 02 (ASR_LP_02)	DR02	Not			

Open in Load or Unload Freight Orders

Advanced Shipping & Receiving Cockpit

Edit Road Freight Order 6600001877 | Search In: "Apps" | EW

Search: Freight Orders

Standard | Adapt Filters (4) | Go

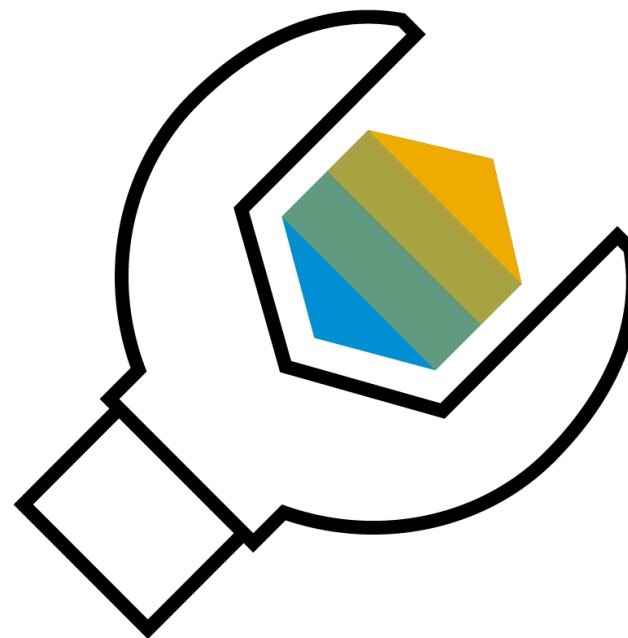
Go

Item Hierarchy	War... Num...	War... Door	Direction: Inbound/Outbound	Num... of Pac...	Num... of Unp...	Package ID	Product	Item Description	Total Qua...	Total Qua... (UoM)	Gross Wei... UoM	Gross Wei... UoM	Gross Volu... M3	Gross Volu... UoM	Rea... Proc...	War... Com...	Picki...
Active Vehicle 0007 1000000									5	PC	90	KG	0.9	M3			
WH Loading Stop ASR_LP_01 / 1050 / DR01	1050	DR01	↗		1												
Consignment Order 8100001576 (local)	1050		↗								36	KG	0.36	M3			
Warehouse Outbound Delivery Order...	1050		↗								36	KG	0.36	M3			
Product 10 Handelsware 11, PD, n...	1050	DR01	↗				TG11	Handelsware 11, PD, ...	2	PC	36	KG	0.36	M3			

Save Cancel

Load or Unload Freight Orders

Extensibility





Screen Personas: Unique Button ID

Unique identification for buttons

Scope:

- Buttons are part of the template screen and therefore reused for every RF subscreen
- Now, buttons can be uniquely identified based on the current subscreen

Business Benefit:

- Customization of the buttons based on the current screen, to make the end user experience more intuitive

The screenshot shows a mobile application interface for EWM_MOBGUI. At the top, there are two buttons: 'Logoff' and 'Clear'. Below them is a list of five buttons: '01 System-Guided', '02 Manual Selection', '03 Inbound Process', '04 Outbound Process', and '05 Internal Process'. Below the list is a section labeled 'Menu' with a dashed rectangular box. At the bottom, there are three buttons: '<< Back' (highlighted with a blue border), 'List', and '>'. A blue arrow points from the text 'Customize buttons' to the '<< Back' button.

EWM_MOBGUI

Customize
buttons



Screen Personas: Enable Large Buttons

Presentation Device Settings

Scope:

- Select a layout setting to reserve more space for the buttons

Business Benefit:

- Larger buttons are helpful especially when working with touch

The screenshot shows the SAP 'Presentation Devices Display: Selected Set' interface. At the top, there's a navigation bar with the SAP logo, a title, and search filters. Below this is a toolbar with buttons like 'Table View', 'Edit', 'Goto', 'Selection', 'Utilities', 'System', 'Help', and a settings icon. A secondary toolbar contains 'Select All', 'Select Block', and 'Deselect All' buttons. The main area is a table titled 'Presentation Devices'. The table has five columns: 'Pres. Dvce', 'Description', 'Displ.Prof', 'Layout', and 'Clear All'. The 'Layout' column has a dropdown menu open, showing three options: 'Original Layout', 'Buttons at Top and Bottom', and 'Buttons at Bottom'. A blue arrow points to the 'Buttons at Bottom' option.

Pres. Dvce	Description	Displ.Prof	Layout	Clear All
<input type="checkbox"/> PD01	RF Device Landscape w/ F-Keys	**	Original Layout	<input type="checkbox"/>
<input type="checkbox"/> SE01	RF Device Portrait	*2	Original Layout	<input type="checkbox"/>
<input type="checkbox"/> SE02	RF Device Landscape	**	Buttons at Top and Bottom	<input type="checkbox"/>
<input type="checkbox"/>			Buttons at Bottom	<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

Maintain Presentation Devices

Choose a different layout for larger buttons



Screen Personas: Enable large buttons

Presentation Device Settings

The original layout of the SAP screen shows a standard form with various input fields. At the top, there are two buttons: 'F1 Detai' and 'F2 Open'. At the bottom, there are two buttons: 'F3 Conf' and 'F4 All'. The form includes fields for 'WhsTsk' (1000000501), 'WTIt' (ALL), 'WTs' (1), 'Sts' (), 'STyp' (1), 'PTyp' (S110), 'Acty' (PTWY), 'Prod.' (), 'CUsr' (), 'MEK_SERIAL' (), 'SBin' (QUAL - I01), 'DBin' (CL - AREA), and 'CDAT' (00:00:00).

Original Layout

This layout shows the buttons 'F1 Detai' and 'F2 Open' at the top and 'F3 Conf' and 'F4 All' at the bottom. A blue box highlights the top buttons, and another blue box highlights the bottom buttons. A blue arrow points from the top buttons to the bottom buttons, indicating a flow or relationship. The form fields are the same as in the original layout.

Buttons at Top and Bottom

This layout shows the buttons 'F1 Detai' and 'F2 Open' at the top and 'F3 Conf' and 'F4 All' at the bottom. A blue box highlights the bottom buttons. A blue arrow points from the top buttons to the bottom buttons, indicating a flow or relationship. The form fields are the same as in the original layout.

Buttons at Bottom

More space
available



Screen Personas: Enable large buttons

Example with large buttons

F1 Detai F2 Open

WhsTsk: 1000000501

WTIt: ALL

WTs: 1 Sts: STyp: 1

PType: S110

Acty: PTWY

Prod. CUsr:

MEK_SERIAL


SBin: QUAL - I01

DBin: CL - AREA

CDAT: 00:00:00

F3 Conf F4 All



F1 Detai  F2 Open

WhsTsk: 1000000501

WTIt: ALL

WTs: 1 Sts: STyp: 1

PType: S110

Acty: PTWY

Prod. CUsr:

MEK_SERIAL

SBin: QUAL - I01

DBin: CL - AREA

CDAT: 00:00:00

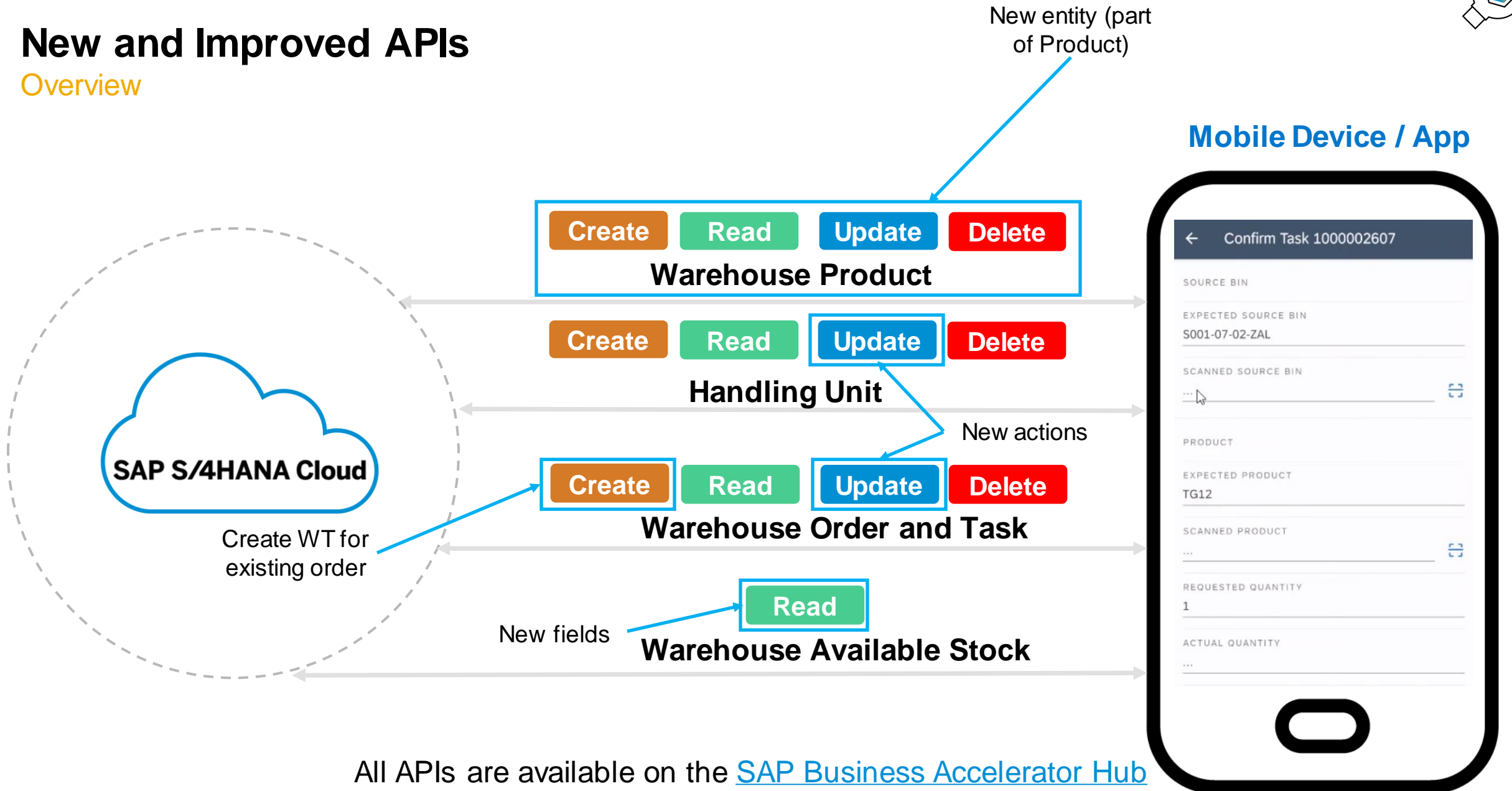
F3 Conf F4 All >





New and Improved APIs

Overview





New and Improved APIs

Deep Dive

Warehouse Product

- Part of the already existing Product API
- Create, Read, Update Warehouse Product
- Create, Read, Update, Delete Product Storage Type Data

Handling Unit API

- Read, update & delete the alternative identifier
- Action: Load / Reverse Loading
- Read by Top-HU

Warehouse Order / Warehouse Task API

- Action: Unassign Pick-HU
- Create: Create warehouse task for an existing warehouse order
- Low stock check

Available Stock API

- New fields (Country of Origin, Parent HU, etc..)



CDS Views Released for Developer Extensibility

Warehouse Tasks and Deliveries

Warehouse Task

- I_EWM_Warehousetask_2
- I_EWM_WhseTaskSerialNumber
- I_EWM_WhseTaskExceptionCode_2
- I_EWM_WhseOrderHndlgUnit_2

Deliveries

- I_EWM_InbDeliveryHeader
- I_EWM_InbDeliveryItem
- I_EWM_InbDeliveryItemSrlNmbr
- I_EWM_OutbDelivOrdHdr
- I_EWM_OutbDelivOrdItem
- I_EWM_OutbDelivOrdItemSrlNmbr

Thank you.



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SAP® Digital Supply Chain

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