

## Pick by Cart



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# Document History

Version	Date	Change
1.0	2020-03-05	First official release of this guide

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# 1 Business Scenario

You want to pick multiple orders with a pick cart in a single trip through the warehouse. This app helps to improve customer satisfaction in the following ways:

- Improves picking efficiency
- Reduces human errors
- Reduces the cost of warehouse operations

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## 2 Background Information

Pick by Cart app is typical transactional Fiori app, which integrates with S4HANA On-Premise system. This application is available since S4HANA 1709 version. In the backend logic, this app depends on picking scenario of EWM Warehouse Order Processing, especially EWM RF framework. To fully configure this app, it requires master knowledge of EWM picking and RF related configuration and customization experiences.

This document covers the basic configuration and master data setting up for Pick by Cart application. The configuration data is taking an internal system for example.

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## 3 Prerequisites

### Software

- UI exists in Software Component: UIS4HOP1 , since release 300
- Backend logic exists in Software Component: S4CORE , since release 102

### Hardware

- Refer to hardware requirement for S4HANA 1709 or later

You have used the warehouse operative role in Pick by Cart app by performing the following settings:

- Open SAP Fiori Launchpad.
- Open "My Business Role Assignment" and add SAP\_BR\_WAREHOUSE\_OPERATIVE\_EWM role to your user.
- Add "Pick by Cart" tile to your launchpad.

For more information, see the application help of Pick by Cart on SAP Help Portal.

## 4 Step-by-Step Procedure

In this section, you learn a step by step procedure to perform the following configurations:

- Set up pick by cart app
- Configure master data
- Configure goods receipt process
- Configure goods issue process
- Configure cross-process settings
- Configure mobile data entry
- Configure internal warehouse process
- 

### 4.1 Set up Pick by Cart App

#### 4.1.1 Prerequisites

- You have installed S4HANA 1709 release or later version.
- As Fiori app has two components that integrates together with ODATA service technique, you have components below in frontend gateway system and backend system.

Release	Gateway (frontend)system	Backend System
Pick by Cart in S4HANA1709	UIS4HOP1	S4CORE

- You have checked the internet connectivity. As gateway(frontend) system and backend system are possible to be installed on different hosts, network connectivity should be checked through network tool, like ping command etc.
- You have assigned user as described in chapter 4.1.2.1.

#### 4.1.2 Setup Steps

##### 4.1.2.1 Create User

In both gateway(frontend) system and backend system, you create a user with the same name and password. for example, a new user USER\_A is created.

## 4.1.2.2 Assign Business Role

In gateway (frontend) system, assign business role to USER\_A by using transaction code SU01 or PFCG. In different installations, the business role is different due to delivery. Please check below business roles.

	Business Role
Pick by Cart in S4HANA1709	SAP_BR_WAREHOUSE_OPERATIVE_EWM

## 4.1.2.3 Activate OData Service

In gateway (frontend) system, UI code should be able to access OData service. The OData service is maintained through transaction code / iwfnf / maint\_service. Here is document for reference. In the "System Alias" field, choose the correct backend trusted ABAP RFC. In the "Technical Service Name" field, choose "PICKCART\_SRV" in backend system.

## 4.1.2.4 Configure Pick Cart Layout Type

Before starting using pick by cart app, you need to define pick cart layout type. Pick cart have different layouts, such as 3 (levels) \* 3 (stacks) or 5 (levels) \* 5 (stacks) layout in Customizing for Extended Warehouse Management under Cross-Process Settings → Resource Management → Define Layout Types.

W...	Layout Ty.	Levels	Stacks	Description
0001	1	5	5	Pickcart Layout Type 1
0001	100	6	6	6 * 6 layout
0001	2	3	3	Pickcart Layout Type 2
0001	3	5	3	test layout type
0001	40	2	3	2*2 layoutfeff
0001	50	2	2	2*2 layout
0001	60	5	5	Test after refine

To use layout type, you assign layout type to resource type in Customizing for Extended Warehouse Management under Cross-Process Settings → Resource Management → Define Layout Types.



**Change View "Define Resource Types": Overview**

New Entries | BC Set: Change Field Values

W...	Rsrc Type	Description	No Interleaving	ResTypeVel	Velocity Z	U...	Position Mgmt	Layout Ty.
0001	RT01	Resource Type 01	<input type="checkbox"/>		1,00		No Position Management	1
W001	RT01	Forklift Truck	<input type="checkbox"/>	2	1	M/S	No Position Management	
W001	RT02	High Level Order Picker	<input type="checkbox"/>	1,50	1	M/S	No Position Management	
W001	RT03	Human Resource	<input type="checkbox"/>	0,50		M/S	No Position Management	
W002	RT01	Forklift Truck	<input type="checkbox"/>				No Position Management	
W002	RT02	High Level Order Picker	<input type="checkbox"/>				No Position Management	
W002	RT03	Human Resource	<input type="checkbox"/>				No Position Management	

## 4.1.2.5 Configure User Default Warehouse Number and Resource

Before using this app, you assign a user USER\_A to default warehouse number and resource in backend system. To assign default warehouse number:

- Option 1: Set user default parameters (by entering transaction code "SU01" and edit "Parameters" tab) about warehouse number. The default parameter ID is "/SCWM/LGN" and the parameter value is the warehouse number that is assigned to picker. This value will be managed at the user's default parameters in Fiori Launchpad. Below are screenshots.

SET/GET Parameter ID	Parameter Value	Short Description
/SCWM/LGN	ZW1	Warehouse Number

User Default Parameter Setting of /SCWM/LGN

- Option 2: Maintain User under "Resource Management". As Pick by Cart app depends on RF technique, which provides a central place to manage user settings, which includes User/ Resource. EWM administrator should maintain each entry for each user, which indicates the user and its default resource (pick cart) to start picking. Warehouse number is optional to maintained in /SCWM/USER. Application will take warehouse number from /SCWM/LGN if warehouse is not maintained.

To assign default resource, maintain the user under "Resource Management ->Maintain Users". Please ensure that assigned resource have been configured as one type pick cart.

## 4.1.2.6 Post Validation

### OData Service validation

Use button "SAP Gateway Client" or "Call Browser" in transaction code /iwfnd/maint\_service to validate OData service. If OData service is set up successfully, basic metadata should be fetched by calling:

http:// <host>:<port> / sap / opu / odata / SCWM / PICKCART\_SRV / \$metadata

### Launchpad validation

Run transaction code /UI2/FLP, a default browser should be opened. You need to input your credential to access Fiori Launchpad.

## 4.2 Configure Master Data

### 4.2.1 Define Warehouse Number

#### 4.2.1.1 Define Warehouse Number for ERP

1. In Customizing for Enterprise Structure, choose Definition → Logistics Execution → Define, copy, delete, check warehouse number.
2. Choose Define warehouse number.
3. Create the following entries:

Field	Value
WhN	W01
Warehouse no. description	W001-ERP counterpart

4. Save your entries.

#### 4.2.1.2 Configure SAP EWM-Specific Parameters

1. In Customizing for Integration with Other SAP Components, choose Extended Warehouse Management → Basic Settings for EWM Linkage → Configure SAP EWM-Specific Parameters.
2. Create the following entries:

Field	Value
WhN	W01
Warehouse no. description	W001-ERP counterpart
Ext. WM	E EWM (Extended Warehouse Management)
Dist. Mode	Distribution Immediately at Document Creation
Comm. WM	Q Queued and Serialized Asynchronous RFC

3. Save your entries.

### 4.2.1.3 Define Warehouse Number for EWM

1. In Customizing for Extended Warehouse Management, choose Master Data → Define Warehouse Number.
2. Create the following entries:

Field	Value
Warehouse Number	W01
Warehouse no. description	W001 Standard Warehouse (Plant PL01)

3. Save your entries.

## 4.2.2 Define Storage Types

### 4.2.2.1 Define T01P Storage Type

1. In Customizing for Extended Warehouse Management, choose →Master Data → Define Storage Types.
2. Create the following entries:
  - In Header and General

Field	Value
Warehouse No.	W001
Storage Type	T01P
Description	Pickcart – HU level Material
HU Requirement	Y – HU not allowed

- In Putaway Control

Field	Value
Conf. Putaway	True
Stor.Ctrl / Put.Compl.	True
Putaway Rules	5 – Empty Bin
Mixed Storage	1 – Mixed Storage without Limitations
Mixed Storage in HU	1 – Mixed Storage not allowed
Delete Stock Identification	True

- In Stock Removal Control

Field	Value
Confirm Removal	True

- In Goods Movement Control

Field	Value
Availability Group	002 – Goods Completely Available
Mandatory	True
No GI	True

## 4.2.2.2 Define T02P Storage Type

1. In Customizing for Extended Warehouse Management, choose Master Data → Define Storage Types.
2. Create the following entries:
  - In Header and General

Field	Value
Warehouse No.	W001
Storage Type	T02P
Description	Pickcart – HU level Material
HU Requirement	x

- In Putaway Control

Field	Value
Conf. Putaway	True
Stor.Ctrl / Put.Compl.	True
Putaway Rules	5 – Empty Bin
Split During Putaway	1 – Split during putaway
Mixed Storage in HU	1 – Mixed Storage not allowed
Delete Stock Identification	True

- In Stock Removal Control

Field	Value
Confirm Removal	True

- In Goods Movement Control

Field	Value
Availability Group	002 – Goods Completely Available
Mandatory	True
No GI	True

## 4.2.2.3 Define T03P Storage Type

1. In Customizing for Extended Warehouse Management, choose Master Data → Define Storage Types.
2. Create the following entries:
  - In Header and General

Field	Value
Warehouse No.	W001
Storage Type	T03P
Description	Pickcart - Batch neutral material
HU Requirement	X – HU Requirement
Avail. Qty: Batches	1-Available      Quantity: Batch Neutral

- In Putaway Control

Field	Value
Conf. Putaway	True
Stor.Ctrl / Put.Compl.	True
Putaway Rules	5 – Empty Bin
Split During Putaway	1 – Split during putaway
Mixed Storage	3 – 1 HU per Bin
Mixed Storage in HU	1 – Mixed Storage not allowed
Delete Stock Identification	True

- In Stock Removal Control

Field	Value
Confirm Removal	True

- In Goods Movement Control

Field	Value
Availability Group	002 – Goods Completely Available
Mandatory	True
No GI	True

## 4.2.2.4 Define T05P Storage Type

1. In Customizing for Extended Warehouse Management, choose Master Data → Define Storage Types.
2. Create the following entries:
  - In Header and General

Field	Value
Warehouse No.	W001
Storage Type	T05P
Description	Pickcart – mixed storage
Level of Avai. Qty	1 - Highest-Level HU
HU Requirement	Blank – HU allowed but not a requirement

- In Putaway Control

Field	Value
Conf. Putaway	True
Stor.Ctrl / Put.Compl.	True
Putaway Rules	5 – Empty Bin
Split During Putaway	1 – Split during putaway
Mixed Storage	1 – Several Non-Mixed Hus with the Same Product/Batch
Mixed Storage in HU	1 – Mixed Storage not allowed
Delete Stock Identification	True

- In Stock Removal Control

Field	Value
Confirm Removal	True

- In Goods Movement Control

Field	Value
Availability Group	002 – Goods Completely Available
Mandatory	True
No GI	True

## 4.2.3 Define Staging Areas

1. In Customizing for Extended Warehouse Management, choose Master Data → Staging Areas → Define Staging Areas.
2. Save your entries.

## 4.2.4 Define Activity Areas

### 4.2.4.1 Define Activity

1. In Customizing for Extended Warehouse Management, for choose → Master Data → Activity Areas → Activities → Define Activities.
2. Enter the following data:

Field	Value
Warehouse Number	W001
Activity	PICK
Description	Stock Removal
Process Category	2 - Stock Removal

3. Save your entries.

### 4.2.4.2 Define Activity Areas

1. In Customizing for Extended Warehouse Management, choose Extended Warehouse Management → Master Data → Activity Areas → Define Activity Areas.
2. Enter the following data:

Field	Value
Warehouse Number	W001
Activity Area	APIC
Description	For pick cart APP

3. Save your entries.



### 4.2.4.3 Assign Storage Bins to Activity Areas

1. In Customizing for Extended Warehouse Management, choose Master Data → Activity Areas → Assign Storage Bins to Activity Areas.
2. Enter the following data:

Field	Value	Value	Value	Value
Warehouse Number	W001	W001	W001	W001
Activity Area	APIC	APIC	APIC	APIC
Storage Type	T01P	T02P	T03P	T05P

3. Save your entries.

### 4.2.4.4 Define Sort Sequence for Activity Areas

1. In Customizing for Extended Warehouse Management, choose Master Data → Activity Areas → Define Sort Sequence for Activity Areas.
2. Enter the following data:

Field	Value	Value	Value	Value
Warehouse Number	W001	W001	W001	W001
Activity Area	APIC	APIC	APIC	APIC
Activity	PICK	PICK	PICK	PICK
Storage Type	T01P	T02P	T03P	T05P
Sort Sequence	3	3	3	3

3. Save your entries.

## 4.2.5 Define Storage Bins

### 4.2.5.1 Define Bin Access Types

1. In Customizing for Extended Warehouse Management, choose Master Data → Storage Bins → Define Storage Bin Access Types.
2. Create the following entries:

Field	Value	Value	Value
Warehouse Number	W001	W001	W001
Acc. Type	AT01	AT02	AT03
Description	CAR in, EA out	PAL in, PAL or EA out	PAL in, PAL or CAR out

3. Save your entries.

### 4.2.5.2 Define Storage Bin Structure

1. In Customizing for Extended Warehouse Management, choose Master Data → Storage Bins → Define Storage Bin Structure.
2. Create the following entries:
  - T01P Storage Type

Field	Value
Warehouse Number	W001
Storage Type	T01P
Start Value	T01P-01-01-A
End Value	T01P-02-07-D

- T02P Storage Type

Field	Value
Warehouse Number	W001
Storage Type	T02P
Start Value	T02P-01-01-A
End Value	T02P-02-07-D

- T03P Storage Type

Field	Value
Warehouse Number	W001
Storage Type	T03P
Start Value	T03P-01-01-A
End Value	T03P-02-07-D

- T05P Storage Type

Field	Value
Warehouse Number	W001
Storage Type	T05P
Start Value	T05P-01-01-A
End Value	T05P-02-07-D

3. Save your entries.

## 4.3 Configure Goods Receipt Process

### 4.3.1 Define Storage Type Search Sequence for Putaway

1. In Customizing for Extended Warehouse Management, choose Goods Receipt Process→ Strategies→ Storage Type Search→ Define Storage Type Search Sequence for Putaway.
2. Create the following entries:

Field	Value	Value	Value	Value
Warehouse Number	W001	W001	W001	W001
Storage Type Search Sequence	S01P	S02P	S03P	S05P
Description	Putaway in Storage Type T01P	Putaway in Storage Type T02P	Putaway in Storage Type T03P	Putaway in Storage Type T05P

3. Save your entries.

## 4.3.2 Assign Storage Types to Storage Type Search Sequence for Putaway

1. In Customizing for Extended Warehouse Management, choose Goods Receipt Process → Strategies → Storage Type Search → Assign Storage Types to Storage Type Search Sequence for Putaway.
2. Create the following entries:

Field	Value	Value	Value	Value
Warehouse Number	W001	W001	W001	W001
Storage Type Search Sequence	S01P	S02P	S03P	S05P
Storage Type	T01P	T02P	T03P	T05P

3. Save your entries

## 4.3.3 Define Putaway Control Indicator

1. In Customizing for Extended Warehouse Management, choose Goods Receipt Process → Strategies → Storage Type Search → Define Putaway Control Indicator.
2. Create the following entries:

Field	Value	Value	Value	Value
Warehouse Number	W001	W001	W001	W001
Putaway Control Indicator	PA1P	PA2P	PA3P	PA5P

3. Save your entries.

## 4.3.4 Specify Storage Type Search Sequence for Putaway Procedure

1. In Customizing for Extended Warehouse Management, choose Goods Receipt Process → Strategies → Storage Type Search → Specify Storage Type Search Sequence for Putaway.
2. Create the following entries:

Field	Value	Value	Value	Value
Warehouse Number	W001	W001	W001	W001
Putaway Control Indicator	PA1P	PA2P	PA3P	PA5P
Process Type	P110	P110	P110	P110
Search Sequence	S01P	S02P	S03P	S05P

<b>Putaway Rules</b>	No Putaway Rule	No Putaway Rule	No Putaway Rule	No Putaway Rule
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3. Save your entries.

### 4.3.5 Optimize Access Strategy for Storage Type Search: Putaway

1. In Customizing for Extended Warehouse Management, choose Goods Receipt Process→Strategies →Storage Type Search→ Optimize Access Strategy for Storage Type Search: Putaway.
2. Create the following entries:

Field	Value	Value	Value
<b>Warehouse Number</b>	W001	W001	W001
<b>Seq No.</b>	0	1	2
<b>Take Putaway strategy into account</b>	True	True	False
<b>Consider Warehouse Process Type</b>	True	False	True

3. Save your entries

## 4.4 Configure Goods Issue Process

### 4.4.1 Define Stock Removal Rule

1. In Customizing for Extended Warehouse Management, choose Goods Issue Process→ Strategies→ Define Stock Removal Rule.
2. Create the following entries:

Field	Value
<b>Warehouse Number</b>	W001
<b>Storage Type Search Sequence</b>	FIFO
<b>Description</b>	First In First Out

3. Select Stock Removal Rule and create the following entries:

Field	Value
<b>Sequence Number</b>	W001
<b>Sort Field</b>	WDATU

<b>Descending</b>	False
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4. Save your entries

## 4.4.2 Specify Storage Type Search Sequence

- In Customizing for Extended Warehouse Management, choose Goods Issue Process→Strategies →Specify Storage Type Search Sequence.
- Create the following entries:

Field	Value
<b>Warehouse Number</b>	W001
<b>Storage Type Search Sequence</b>	SPIC
<b>Description</b>	Search sequence for pickcart app

3. Select Assign Storage Types to Storage Type Sequence and create the following entries:

Field	Value	Value	Value	Value
<b>Warehouse Number</b>	W001	W001	W001	W001
<b>Storage Type Search Sequence</b>	SPIC	SPIC	SPIC	SPIC
<b>Storage Type</b>	T01P	T02P	T03P	T05P

4. Save your entries

## 4.4.3 Define Stock Removal Indicator

- In Customizing for Extended Warehouse Management, choose Goods Issue Process→Strategies → Define Stock Removal Indicator.
- Create the following entries:

Field	Value
<b>Warehouse Number</b>	W001
<b>Stock Removal Control Indicator</b>	SPRI
<b>Description</b>	Indicator for pickcart app

3. Save your entries.

## 4.4.4 Determine Storage Type Search Sequence for Stock Removal

- In Customizing for Extended Warehouse Management, choose Goods Issue Process→Strategies → Determine Storage Type Search Sequence for Stock Removal.

2. Create the following entries:

Field	Value
Warehouse Number	W001
Stock Removal Control Indicator	SPRI
Warehouse Process Type	PP01
Storage Type Search Sequence	SPIC
Stock Removal Rule	FIFO

3. Save your entries.

#### 4.4.5 Define Optimization of Access Strategies for Storage Type Determination in Stock Removal

1. In Customizing for Extended Warehouse Management, choose Goods Issue Process → Strategies → Optimization of Access Strategies for Storage Type Determination in Stock Removal.
2. Create the following entries:

Field	Value
Warehouse Number	W001
Consideration of Stock Removal Control Indicator	True
Take Warehouse Process Type into Account	True

3. Save your entries.

## 4.5 Configure Cross-Process Settings

### 4.5.1 Define Warehouse Order

#### 4.5.1.1 Define Number Range for Warehouse Order

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Warehouse Order → Define Number Range for Warehouse Order.
2. Create the following entries for warehouse W001:

Field	Value
From No.	2000000000
To No.	2999999999

3. Save your entries

#### 4.5.1.2 Define Sort Rules for Warehouse Tasks

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Warehouse Order → Define Sort Rules for Warehouse Tasks.
2. Choose Define Sort Rules.
3. Create the following entries:

Field	Value
Warehouse Number	W001
Sorting	CON
Description	Consolidation Group &



	Pick Path
--	-----------

4. Choose Define Sort Fields.

5. Create following entries:

Field	Value	Value
Warehouse Number	W001	W001
Sorting	CON	CON
Sequence	1	2
Sort Field	DSTGRPD	PATHSEQ

6. Save your entries

### 4.5.1.3 Define Filters for Warehouse Order Creation Rules

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Warehouse Order → Define Filters for Warehouse Order Creation Rules.

2. Create following entries:

Field	Value
Warehouse Number	W001
WOCRrule Filter	FP01
Description	WHO filter pick cart APP
Filter Type	Warehouse Task
Filter Type	I – Filter at Item Level
Volume unit	CD3
Weight unit	KG
Time unit	MIN
Whse Proc. Type	PP01
Complete HU	No Restrictions
No Putaway	True
No Int. Stk Transfer	True
No Phys. Inv.	True

3. Save your entries

#### 4.5.1.4 Define Limit Values for the size of a Warehouse Order

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Warehouse Order → Define Limit Values for the size of a Warehouse Order.
2. Create following entries:

Field	Value
Warehouse Number	W001
Limit	LP01
Description	WHO limit for pick cart APP
Limit Val. Type	Warehouse Task
Filter Type	I – Filter at Item Level
Weight unit	KG
Time unit	MIN
Max. CGr per WO	25
Max CGrp per HU	1
Max No. of HUs	25

3. Save your entries.

#### 4.5.1.5 Define Packing Profile for Warehouse Order Creation

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Warehouse Order → Define Packing Profile for Warehouse Order Creation.
2. Create following entries:

Field	Value
Warehouse Number	W001
Limit	PP01
Description	Packing Profile for pick cart APP
Pack. Mode	A – Simple Algorithm

<b>Split WT</b>	A – WT Split when too large for an HU
<b>Create Hus</b>	False
<b>Assn WTs to Hus</b>	True

3. Save your entries.

#### 4.5.1.6 Define Creation Rule for Warehouse Orders

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Warehouse Order → Define Creation Rule for Warehouse Orders.
2. Create following entries:

Field	Value
<b>Warehouse Number</b>	W001
<b>Limit</b>	RP01
<b>Description</b>	WHO creation rule for pick cart APP
<b>Creation Cat.</b>	A – Consolidation Group
<b>Item Filter</b>	FP01
<b>Inbound Sorting</b>	CON
<b>WO Sorting</b>	PIPA
<b>Packing Profile</b>	PP01
<b>Time Unit</b>	MIN

3. Save your entries

#### 4.5.1.7 Define Search Sequence of Creation Rules for Activity Areas

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Warehouse Order → Define Search Sequence of Creation Rules for Activity Areas.
2. Create following entries:

Field	Value
<b>Warehouse Number</b>	W001

<b>Activity Area</b>	APIC
<b>Activity</b>	PICK
<b>WOCR</b>	RP01

3. Save your entries

## 4.5.2 Define Exception Handling

### 4.5.2.1 Maintain Exception Profile

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Exception Handling → Define Exception Codes.
2. Select Maintain Exception Profile.
3. Create following entries:

Field	Value
<b>Warehouse Number</b>	W001
<b>Exception Code Prof.</b>	0001
<b>Description</b>	Basic Qualification

4. Save your entries.

### 4.5.2.2 Define Exception Code

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Exception Handling → Define Exception Codes.
2. In Exception Code list, select the entry with W001 and SPLT
3. Create following entries:

Field	Value
<b>Warehouse Number</b>	W001
<b>Exception Code</b>	SPLT
<b>Business Context</b>	TPI – Confirm Warehouse Task (Stock Removal)
<b>Execution Step</b>	05 – RF Product WT Action on Source Data

<b>Exception Code Profile</b>	0001
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4. Save your entries

## 4.5.3 Define Resource Management

### 4.5.3.1 Define Layout Types

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Resource Management → Define Layout Types.
2. Create following entries:

Field	Value
<b>Warehouse Number</b>	W001
<b>Layout Type</b>	01
<b>Levels</b>	5
<b>Stacks</b>	5
<b>Description</b>	5*5 layout type

3. Save your entries.

### 4.5.3.2 Define Resource Types

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Resource Management → Define Resource Types.
2. Create following entries:

Field	Value
<b>Warehouse Number</b>	W001
<b>Rsrce Type</b>	RTPC
<b>Layout Type</b>	01
<b>Description</b>	Pickcart (5*5)

3. Save your entries.

## 4.5.4 Define Handling Units

### 4.5.4.1 Define HU Types

1. In Customizing for Integration with Other SAP Components, choose Extended Warehouse Management → Attribute Values for Additional Material Master Fields → Define Handling Unit Types.
2. Create following entries:

Field	Value	Value
HUType	C1	C2
Description	Carton	Carton - Requiring 2 bin depths

3. Save your entries.

### 4.5.4.2 Define HU Type Groups

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → Handling Units → Basics → Define HU Type.
2. Create following entries:

Field	Value
Warehouse No.	W001
HUTGr	HGo1
Description	Boxes and Cartons

3. Save your entries.

### 4.5.4.3 Define HU Types for Each Warehouse Number and Assign HU Type Group

1. In Customizing Extended Warehouse Management, choose Cross-Process Settings → Handling Units → Basics → Define HU Types for Each Warehouse Number and Assign HU Type Group.
2. Create following entries:

	Value	Value
Warehouse Number	W001	W001
HU Type	C1	C2
HU Type Group	HG01	HG01

3. Save your entries.

### 4.5.4.4 Define Number Range for HU Identification

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings → External Identification → Define Number Range for HU Identification.
2. Create following entries:

Field	Value
Warehouse Number	W001
NummemKreisObjekt	/SCWM/HUID
No	04
From No.	AAAAAAAAAAAAAAAAAAAAA
To Number	ZZZZZZZZZZZZZZZZZZZZ
External Assignment	True

3. Save your entries.

## 4.6 Configure Mobile Data Entry

### 4.6.1 Define Warehouse-Specific Verification

1. In Customizing for Extended Warehouse Management, choose Mobile Data Entry → Verification Control → Define Warehouse-Specific Verification.
2. Create following entries:

Field	Value
Warehouse Number	W001
Verification Profile	ZVP2
Description	for Picking for pick cart

3. Select Warehouse-Specific Verification Objects and create following entries

Field	Value	Value	Value	Value	Value
Warehouse-Specific Verification Objects	BATCH	MATNR	VLPLA	VLENR	NLPLA

4. Save your entries.

### 4.6.2 Define Warehouse-Specific Verification Determination

1. In Customizing for Extended Warehouse Management, choose Mobile Data Entry → Verification Control → Define Warehouse-Specific Verification Determination.
2. Create following entries:

Field	Value
Warehouse Number	W001
Warehouse Process Type	PP01
Activity	PICK
Activity Area	APIC
Verification Profile	ZVP2



3. Save your entries.

### 4.6.3 Define Confirmation Methods for Picking HUs

1. In Customizing for Extended Warehouse Management, choose Mobile Data Entry → Verification Control → Define Confirmation Methods for Picking HUs.
2. Select Determination of Conf. Methods for Pick HUs:

Field	Value
Warehouse Number	W001
WO Cr. Rle	RP01
Warehouse Process Type	PP01
Activity Area	APIC
Rsrce Type	RTPK
Source Storage Type	T01P
Dest Storage Type	T01P
Conf. Method	A – Confirm Number of HUs at Last destination Bin Only

3. Save your entries.

## 4.7 Configure Internal Warehouse Process

### 4.7.1 Define Physical Inventory Area

1. In Customizing for Extended Warehouse Management, choose Internal Warehouse Processes → Physical-Inventory-Area-Specific Settings → Define Physical Inventory Area.
2. Create following entries:

Field	Value
Physical Inventory Area	W001_PIAC
PstgAfterCount	True
LS Check	True

Dsp. Object	True
Qty	999

3. Select Permitted Document Types and create following entries

Field	Value
Physical Inventory Area	W001_P1AC
Procedure	HL – Ad hoc Physical Inventory (Storage-bin-specific)

4. Save your entries.

## 4.7.2 Define Number Range for Physical Inventory Areas

1. In Customizing for Extended Warehouse Management, choose Internal Warehouse Processes → Warehouse-Number-Specific Settings → Define Number Range for Physical Inventory Areas.
2. Create following entries:

Field	Value
Warehouse Number	W001
NummemKreisObjekt	/ SCWM /PIDO
No	01
From No.	00000000006000000000
To Number	00000000006999999999

3. Save your entries.

## 4.7.3 Assign Physical Inventory Area to Activity Area

1. In Customizing for Extended Warehouse Management, choose Internal Warehouse Processes → Warehouse-Number-Specific Settings → Assign Physical Inventory Area to Activity Area.
2. Create following entries:

Field	Value
Warehouse Number	W001
Fiscal Year Variant	K1 – Calc. Year, 1 specific period
Proced. ID	0001
No Tol.	True
NRI PI Document	01


3. Save your entries.

#### 4.7.4 Define Sort Sequence for Activity Areas

1. In Customizing for Extended Warehouse Management, choose Master Data → Activity Areas → Define Sort Sequence for Activity Areas.
2. Enter the following data:

Field	Value
Warehouse Number	W001
Activity Area	APIC
Activity	INVE
Storage Type	T01P
Sort Sequence	3

3. Save your entries.



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**Material Number**

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