# **Replenish Pick Locations Flow**

# Overview

Replenishment can be used within the same SAP Business One / PMX WMS warehouse and the aim of the function is to make sure that enough stock is available on pick locations to perform the picking process for a given period. The function has got two types in Produmex WMS, it can be location or item based.

When replenishment configurations are set for a location or an item, the Replenish Tool automatically creates replenish orders when the conditions below are met.

- The stock reaches the minimum quantity set for the location or the item.
- There is available stock on the bulk locations for replenishment.

The generated replenish orders can be executed on the shop floor with the help of the Mobile Client.



## Prerequisites

Define your bulk locations (locations that are not used for picking) and pick locations in your Organizational Structure.

During the process bulk locations are used to replenish pick locations in the warehouse. The replenishment function does not work if all the locations are set as pick locations.

# Configuration

### **1. Set the Replenishment generator**

Select the necessary replenishment type (extension) on the Replenishment generator and define the related settings. You can set only one of the two types.

- *Generates replenishment orders (DEREPGEN)*: Replenishment orders are triggered based on the configurations of pick <u>locations</u>.
- *Generates item based replenishment orders (BREPGEN)* : Replenishment orders are triggered based on Item Master Data configurations.

### 2a. Location based configuration

- 1. Go to the Organizational Structure and select the necessary bin.
- 2. On the General tab enable the *Pick Location* option.
- 3. On the General tab enable the *Can Be Replenished* option.

4. Adjust the minimum quantity, the maximum quantity and replenish quantity of the item for the pick location to be replenished.

- Minimum quantity: When the quantity of an item is below the minimum quantity, the system generates a replenish order.
- Maximum quantity: The maximum quantity of an item that can be stored in a location.
- Replenish quantity: It usually refers to a box quantity, e.g. if the replenish quantity is set to 6, the item is stored in a box of 6 pieces.

For information on calculation and examples click here.

Organizational Structure - Produmex WMS Add	-On				
Search Organizational Structure WMS_Demo (COMP) - Empty = 52/5 GeneralWarehouse (01) - Empty GZ Zone for logisticWh01 (Zlogist	Code Name General Cycle Coun	B.0003 B.0003 Put away Attributes	Location Type	] ] 	
	Pick Location     Can be Destination for     Can be Lined Up     Block Move When Li Block on Different Item of     Verification Code	Priority picking Priority picking ocation Is Not Empty or Batch None (N)	Sequence 0 Block Stock from Direct Consumptio Max Logistic Units Quality Status	Being Used for the Picking Process on of Goods (Production Manager)	
<ul> <li>Burning ZN_1(ZN_1) - Empty =</li> <li>Cone for sale (Zsale) - Empty</li> <li>SecondWarehouse (02) - Empty</li> <li>ThirdWarehouse (03) - Empty</li> <li>O6 External Receipt WHS (06) -</li> </ul>	Fixed Item Code ITEM06	Image: Can Be Replenis       Min     Max       Quantity     Quantity       10     50	Replenish Qty 6		

### 2b. Item based configuration

- 1. Go to Item Master Data > Produmex > Sales tab.
- 2. Fill in the Replenishment: Quantity on Pick Locations field.
- 3. Fill in the *Estimated Sales Quantity by Month* field.

For information on calculation and examples click here.

tem Master Dat	a											
Item No.	Manual	ITEM02 No Batch no	serial no BBD wi	th UOM group						✓ Inve	entory Item s Item	
Foreign Name						=				Pure Pure	hase Item	
tem Type		Items		*		_						
tem Group	4	Items		*								
JoM Group	4	PCS>Pallet		Bar Code	1234567	8901231 PCS		GTIN-14				
Price List		Price List 01		<ul> <li>Unit Price</li> </ul>	Primary	Curre	PC	cs				
				Pricing Unit	Piece							
General	P <u>u</u> rchas	ing Data	Sales Data	I <u>n</u> ventory Data	Planning	Data Pr	oduction Dat	ta	P <u>r</u> operties	Produmex	Remar <u>k</u> s	Attachments
Invento	iry	Sales	Purchase	Production	C	itch Weight	Attri	butes	3PL			
Shelf Life Delive	ry		0		Pac	king Remarks						
Pick Type					<ul> <li>Pac</li> </ul>	king Image						
Pick Type 2					•							
Bulk Pick Quant	tity		0.000									
Enter Reason fo	r Sales Returr	1										
Print Label Duri	ng Picking											
Replenisment: Q	uantity on Pi	ck Locations	10.000		Sale	s Remarks Pop	-up					
Estimated Sales	Quantity by I	1onth	30.000		Sale	s Remarks						
Default Quality 9	Status for Sale	es Return			•							
Allow Multiple B	atches on Sal	es Doc.	✓									
Allow Stock to I	be Locked in	Advance	<b>~</b>									
Smallest Sellable	Packaging T	ype			Add	Non-Invento	ry Item to Pic	cklist				
Default Log. Car	r. Picking											
Scan Base Com	ponent											

### 3. Run the Replenish Tool

1. Open an empty text file.

2. Add the path of the ReplenishTool.exe file between quotations marks. Press the Space button and add the connection string.

"C:\Program Files\Produmex\Produmex Tools\Produmex.Sbo.Logex.Tools.ReplenishTool.exe" /cs:<connectionstring>

3. Save the text file as a .Bat file. E.g. Run\_ReplenishTool.Bat

4. Run the .Bat file to have replenish orders generated.

Tip: Windows Task Sheduler can be used to run the .Bat file frequently (e.g. each hour).

After running the .Bat file, a log file is generated. To check the log file go to SAP Business One > Produmex menu > Reports > Open Document Report > Document Type: Move orders.

# Workflow

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- Select zone
- Select replenish order line
- Identify source logistic unit or location
- Identify product
- Enter quantity
- Scan destination location/SSCC
- Logistic unit/Item are moved

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# **Replenish Pick Locations Flow steps**

### 1. Start the flow

On the Mobile Client select Logistics > Move > Replenish Pick Locations.

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Select Function (1)	Logistics: Select Function (1)	Logistics -> Move: Select Function (1)			
Purchase	Мохе	Ad Hoc Movement			
Sales	Move	Move Order			
Logistics	Inventory	Replenish Pick Locations			
Production		Consolidated Move			
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### 2. Select a zone

If the *Select zone on replenishment flow*? option is enabled on the **Replenishment generator**, select a zone. A zone is listed if there is a location in the zone that is the destination location of a replenish order.



### 3. Select a replenish order

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On the next screen every open line of replenishment orders from the warehouses assigned to the scanner is listed. If a zone was selected, only the lines of replenishment orders for locations that belong to the selected zone are listed.

The order of the displayed repenishment orders is defined by the *Order view name* and *Orders view order by* settings of the Replenishment generator.

In the example the replenishment order (1036) for a specific pick location (A0003) is split in multiple lines, because the system requires product from multiple sources (e.g. locations, SSCC's, batches) to assemble the required replenishment quantity to fulfill the order.



### 4. Identify source logistic unit or location

After selecting the replenishment order, scan the source SSCC. The bulk location and the source SSCC are displayed on the screen. Only the SSCC from the order can be scanned. If the scanned SSCC is a mono pallet with the exact same quantity as the quantity to replenish, the system automatically proceeds to the Scan destination location screen.

In case of there is no SSCC present, scan the pick location or select it from a list after pressing the 'Select location' button.



### 5. Identify product

If multiple items are stored on the logistic unit or bulk location, identify the product to move.

Scan the product or select it from a list after tapping the Select a product button. Every item that is stored on the logistic unit/bulk location is listed, but only the item to replenish can be scanned or selected.

If there is only one item on the SSCC/ location, the system automatically proceeds with that item.



#### 6. Enter quantity

Enter the quantity. By default the quantity on the replenish order line will be displayed, but it is possible to proceed with another quantity. The maximum quantity depends on the quantity of the item on the SSCC/ location.

	Enter	r the qua	ntity			
		5 pcs		-		
Maximur	n			10 pcs		
		1036				
TT00008 - Replenish item - 3						
Batch nu	umber			BN5555		
Best Bef	ore da	ate		7/5/2019		
Still to r	eceive	e:		10 pcs		
SSCC		00000	00000	00001922		
<b>(</b>	STOP	R	8			

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### 7. Scan destination location/SSCC

After having identified the products to move, scan the destination location or SSCC. To select the destination location from a list, tap the Select location button.

It is possible to move the products to a new logistic unit. Tap the New SSCC button and identify the destination location.

Sc	n destination location or SSCC						
	Go to location: A0002						
	Select location						
	New SSCC						
G	STIP 2 🚫 今						

### 8. Logistic unit/item moved

After having confirmed the destination location, the system registers the move of the logistic units or items and goes back to the Select a replenish order screen.

When all replenish order lines are processed, the replenish order is closed.

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