

Process Overview in

SAP Extended Warehouse Management

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Worked with logistics for the last 16 years

My speciality is helping customers implementing SAP Extended Warehouse Management. SAPs most advanced warehouse solution.



Presentation Format

Normally when we help a customer fit EWM to their needs we hold workshops with topics such as

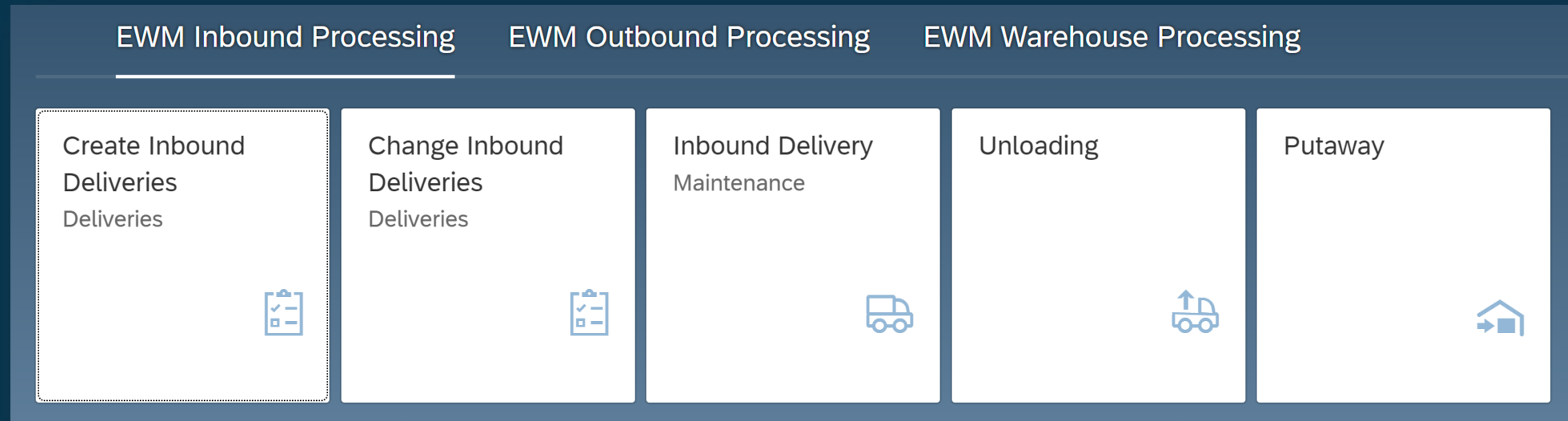
- Inbound Processes
- Internal Processes
- Outbound Processes

This is a light version workshops on these topics to get insight on what SAP EWM can offer you.

SAP **Fiori** Front-End



All warehouse processes is executed in Fiori Apps in a browser:




Example: Putaway App

The screenshot displays a software interface for a Putaway App. At the top, there is a header with the text "Putaway" and a dropdown arrow. Below this, a "Choose resource" field contains the text "NO_S_LAB1" and a dropdown arrow. The main interface is divided into three sections: "Goods Receipt" (with a truck icon), "Customer Return" (with a person icon), and "Select Queue" (with an "A-z" icon). A "Goods Receipt" dialog box is open, showing a search bar with "310000002600" and "Product" selected. The product details listed are: "Rossignol X-TOUR ESCAPE NIS 183", "Del no.: 180000446", "Material: 203248", "EAN: 454355322445", and "C100 - Ski Lager C-Reol". A "Confirm putaway" dialog box is also open, showing "Product" with a quantity of "10 STK" and "Destination" as "C100 - Ski Lager C-Reol". The "Quantity" field is empty, and the "Destination bin" field is also empty. The "Confirm putaway" dialog has "Close" and "Confirm" buttons at the bottom. The text "Quantity: 10 / 10" is visible on the right side of the main dialog.



Example: Picking app

Outnorth Project 6

 **Loc: U01-001-01-02**
EAN: 748960520984
Matnr: 186
Task: 1362
Del. no.: 80004255
Route: PostNord Mypack Home

Quantity: 1

Location	
Product	
Quantity	

 DZ235 - Petter Larsson  [Confirm](#)

Example: Autostore Picking app

< Picking Close port on completion Log

Product

Outnorth Project 8 1
ST

SKU: 188 Bin: 156275

Batch: Task: 1360 WO: 895

Delivery: 310000003218

ERP delivery: 80004181

GTIN: 4046402077895

Bin Position

Confirm Pick 1

Quantity:

GTIN:

1 1 0

Overview Open Tasks Completed T... Workload Bin Content

Product Text	Product Number	Quantity	Bin	Batch	Task
Outnorth Project 8	188	1	156275		1360

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SAP EWM **Inbound** Process Possibilities



Inbound Process Start in SAP EWM

The warehouse activities in EWM starts with the creation of:



EWM Inbound Delivery

Where does the Inbound Delivery come from:

Purchasing Order – Purchasing from External Vendor

Production Order – If you produce you own Materials

Stock Transfer Order – Internal movement between Companies Warehouses

Customer Returns

Inbound Process Determination

EWM Inbound Delivery

Every Inbound Delivery contains Materials

Material 1: Icecream	→	Process Type 1: Frozen Goods
Material 2: Banans	→	Process Type 2: Dry Goods
Material 3: Explosives	→	Process Type 3: Dangerous Goods

Determined by Material Masterdata

So how do we design a Process in EWM?

A process contains several process steps:

Step
A

Step
B

Step
C

Step
D

Step
E

Step
F

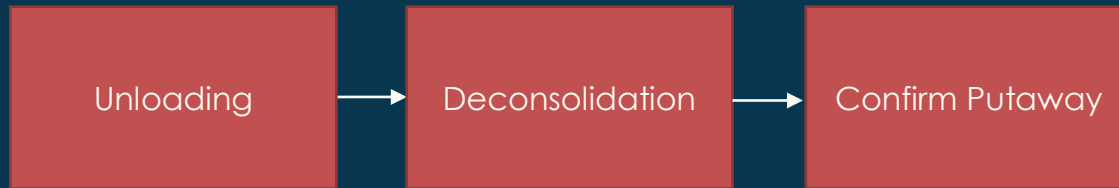
We can choose how many steps we need what each step should include!

Lets look at an example:

Step
A

Step
B

Step
C



Standard EWM Supports

Inbound-Processes:

Unloading: Unload goods from a Truck or Container

Staging: Internal parking space on the way to final bin

Deconsolidation: Split pallets and sort your products

Putaway Strategies: Advanced or simple Putaway strategies to find optimal storage bin

Standard EWM Supports

Cross-Processes:

Queues: Assign Warehouse Order to Queues that you can log on for execution

Automation: Conveyor belts, Robotics

Quality Inspection: Make regular quality checks a part of the process

Serial Number Management: Register serialnumbers for Materials

Catch Weight: If you want to register weight in combination with quantity of product

Batch Management: Keep track of expiration dates, country of origin or other characteristics

Exception Handling: Use designed workflows if quantity is missing or product is damaged

Value Added Services: Extra Services such as Labeling, Packing, Oiling and Cleaning

Cross-Docking: Goods flow directly from inbound to outbound for leaner product handling

Yard Management: Manage parking spaces outside your Warehouse

Dock Appointment Scheduling: Book a timeslot on a Warehouse Door for Unloading/Loading

Travel Distance Calculation: Calculation of a planned estimate required to execute the warehouse order to plan the number of warehouse workers required in the warehouse

Labor Management: Track and Plan efficiently for personell or a Team

With all of these process options we can design our process based on the products needs:

Step

A

Step

B

Step

C

Step

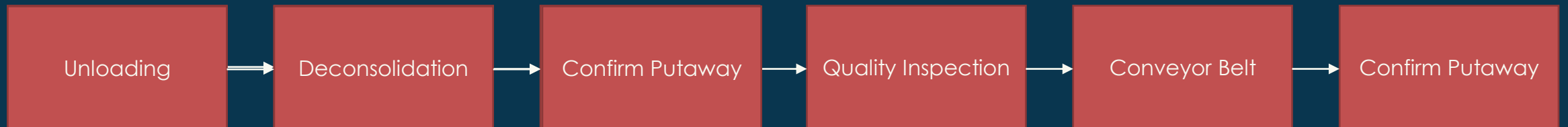
D

Step

E

Step

F



SAP EWM **Internal** Process Possibilities



Internal Process Options

Internal-Processes:

Replenishment: Planned-Replenishment, Order-Related-Replenishment

Ad-hoc Movements: Internal movements from bin-to-bin

Slotting and Rearrangement: Optimizing storage for products using demand forecast, packing specifications or material masterdata

Posting Changes: Change characteristics of the stock

Physical Inventory: Periodic-, Continuous-, Cycle and Ad-Hoc counting strategies

SAP EWM **Outbound** Process Possibilities



Outbound Process Start in SAP EWM

The warehouse activities in EWM starts with the creation of:



EWM Outbound Delivery

Where does the Outbound Delivery come from:

Sales Order – Customer Order

Stock Transfer Order – Internal movement between Companies Warehouses

Outbound Process Determination

EWM Outbound Delivery

Outbound Delivery contains Materials

Material 1: Icecream	→	Process Type 1: Frozen Goods
Material 2: Banans	→	Process Type 2: Dry Goods
Material 3: Explosives	→	Process Type 3: Dangerous Goods

Determined by Material Masterdata

Standard EWM Supports

Outbound-Processes:

Wave Management: Group and release Picking Task that should be completed at the same time

Warehouse Order Optimization: Group Warehouse Tasks with similar properties to optimize pick path

Kitting: A kit is a group of products always delivered together

Consolidation: Consolidate products that should be packed together

Stock Removal Strategies: Prioritize selection of stock based on characteristics. For example Best-Before Date, Goods Receipt Date.

Standard EWM Supports

Cross-Processes:

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Step

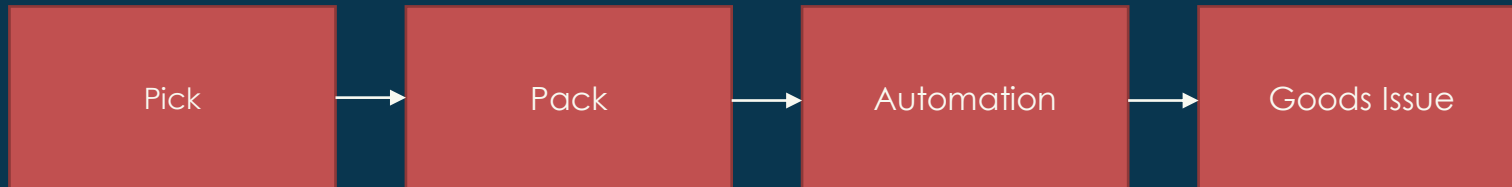
B

Step

C

Step

D



Pearl SAP EWM

Thank you for your time

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