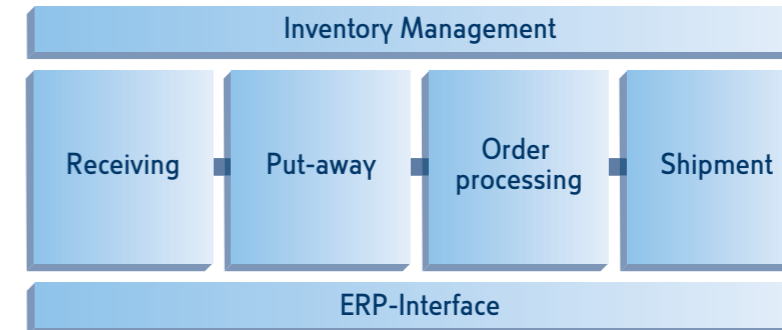




# Effect Warehouse™

## System Overview





## Effect Warehouse

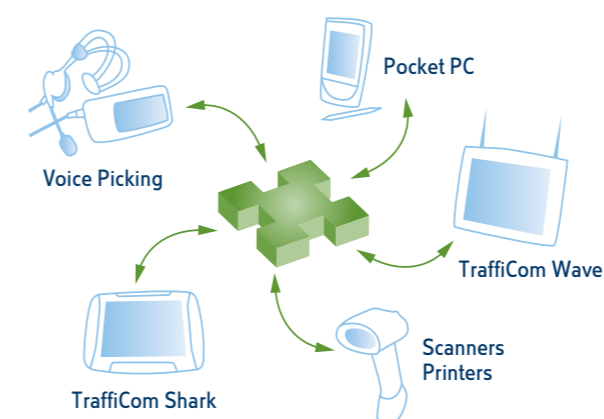
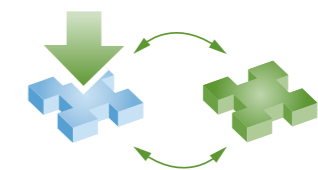
Effect Warehouse is a competent and cost-effective standard product designed for small and medium sized warehouses. Effect Warehouse can be installed in your warehouse within a few weeks. This specification is an overview of the content of Effect Warehouse.

### A proven idea

Larger warehouses and distribution centers has for many years used Warehouse Management Systems to make their logistics more efficient.

Today the well proven ideas and functionality is available also for small and medium sized companies through the Effect Warehouse. The modern technology with barcodes, Radio Data Terminals and Voice Picking technology, with total control over work and flows in the warehouse, is now at hand.

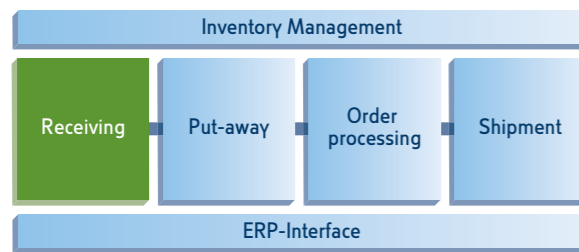
Effect Warehouse gives you an operative tool for the warehouse activities communicating the exact results to your ERP system where quality and control are the key-words.



A standard software package, simple and fast installation on a robust and reliable platform minimises the total cost for the installation.

Effect Warehouse has a modular design and includes receiving, put-away, order processing and shipments. The system also includes support modules for Inventory Management and easy ERP interfacing.

Effect is available on Windows 2003 server using the SQL-server or Oracle relational database.



# Receiving

Effect Warehouse captures goods receipts immediately as the goods arrive.

### Inbound deliveries

Receiving is done against purchase order transmitted from the ERP system. Arrived goods are immediately available for dispatch, increasing the turnover rate.

### Unpacking and labelling

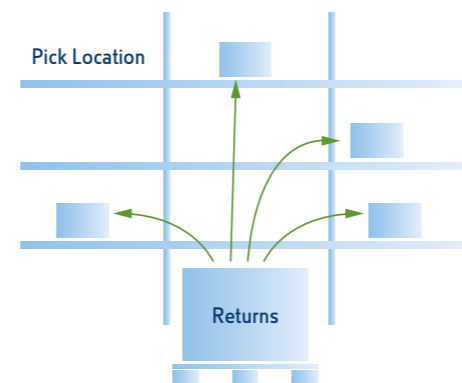
Effect Warehouse guides the operator in the registration process stating standard pallet quantities, stacking rules and printing required labels for identification. If the goods are already marked with barcode labels, these can be re-used in the registration process.



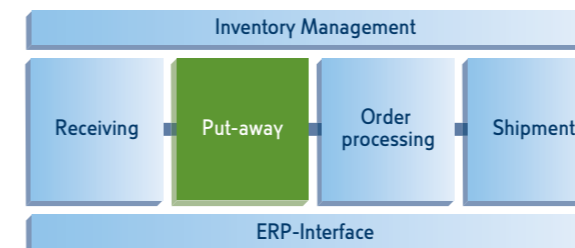
After unpacking and registration a put-away assignment is automatically created for the registered pallets. The ERP system is informed about the received quantities which allows for an accurate and quick invoice procedure.

### Returns

Returns are preferably handled through a returns order from the ERP system to ensure full reconciliation with financial credit it is possible to receive returned goods straight into the warehouse. Returns are quickly checked and put-away using a reversed "pick run".



- Advantages in receiving:**
- Quick and accurate process -> short lead time
  - Make use of barcodes
  - Cross-docking



# Put-away

Put-away is the transport to the store location from the receiving area. Effect Warehouse combines transport assignments to minimise empty driving.

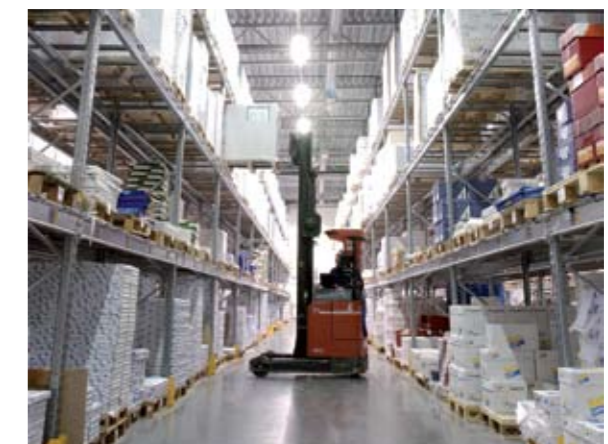
### Location selection

Effect Warehouse chooses a suitable location for each pallet, depending on article, locations size and put-away strategies.

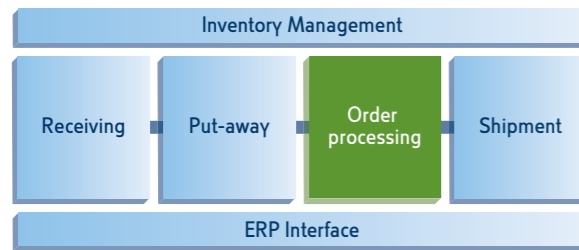
Location selection depends on:

- Whether pick location needs replenishment
- Nearby buffer to the pick location
- Location is selected in a buffer area considering the storage location attributes.

All locations selected by the system can be changed by the operator. Check digits or barcodes on the location guarantee a correct put-away.



- Advantages in put-away:**
- No misplaced goods
  - Advanced zoning
  - Real time update of inventory levels



# Order processing

## Select a goods carrier

The Effect Warehouse includes a transport route selector describing the allowed routes, dispatch days/time, and max volume/weight. An order that is transmitted from the ERP system can automatically be connected to the correct transport trip with help from the information in the order or from zip-codes.

Effect Warehouse creates individual drop points for orders or group of orders with the same delivery address into the same drop point. The warehouse planner may add/remove trips, move orders between trips or reprioritise orders or otherwise manage the carrier selection process.

## Order release and consolidation

A transport trip is automatically or manually released for picking and a dispatch area is manually or automatically selected.

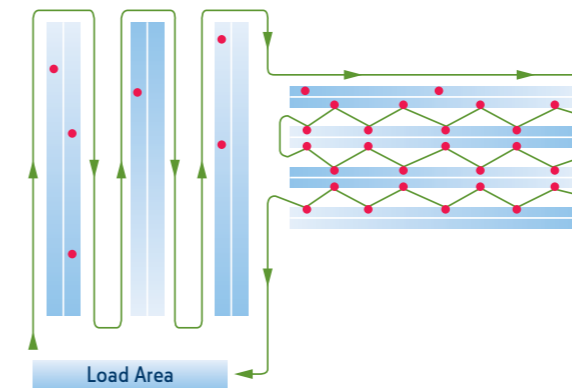
In this process the system looks for opportunities to consolidate pick assignments. Effect Warehouse senses where in the warehouse the assignment should be performed and can divide and prioritize assignments to the correct area.

The pick assignments are then allocated to the preferred handling equipment.

## Order picking

Effect Warehouse supports different levels of order picking and will automatically select and distribute pick assignments to the correct area:

- Full pallet picking
- Carton picking



Effect Warehouse has extensive support for how to present pick runs and to execute the picking process with maximum efficiency. All pick lines are acknowledged using barcodes on the goods, the location or using check-digits on the location. During carton picking the content of each individual pick pallet is automatically recorded.

When goods are verified on the dispatch area the ERP item balance can be adjusted.

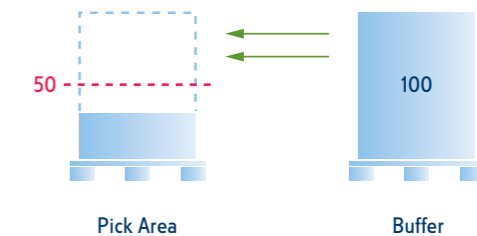
## Replenishment

Effect Warehouse supports both fixed and floating pick locations together with combinations of the two.

The following alternatives exist:

1. Reorder point: The pick location is replenished when the balance goes under a defined minimum trigger level at picking.
2. The picker can visualise the replenishment data in real time.
3. The warehouse administrator can always request replenishment.

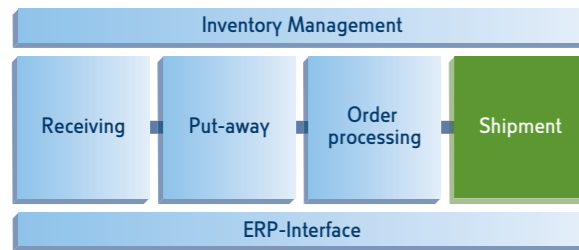
The replenishment task is performed as a full pallet transport from buffer to the pick location.



### Advantages with real time order processing:

- Quick and accurate process -> less pick errors and correct balances, better quality
- Synchronised activities -> smooth operation throughout the order expedition





# Shipment

## Packing

Effect Warehouse supports integrating packing in the picking process to remove the packing stage completely.

Packing is sometimes needed to consolidate packages or in order not to duplicate equipment. Packing includes labelling and printing documents.

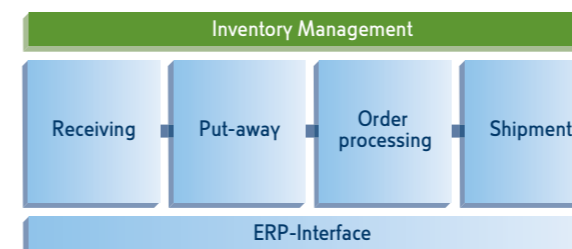
## Loading and shipping

Effect Warehouse supports the loading sequence for maximum traceability onto transports.



Transport documents can be printed from Effect Warehouse and when the transport is finally dispatched the order information is sent to the ERP.

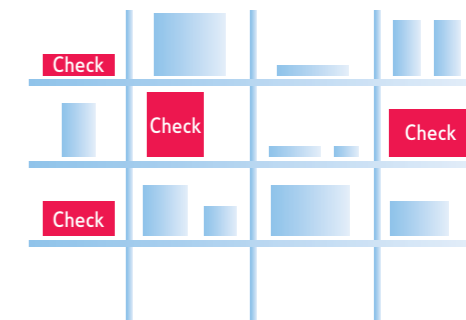
- Advantages with the shipment procedure:
- Correct content on all delivered pallets
  - Correct type of label for all transporters



# Inventory Management

## Inventory control and stock taking

Effect Warehouse supports continuous stocktaking during the normal work and the operation does not need to be closed for counting. It is possible to schedule stocktaking for remaining units that has not been touched in a given time period. Stocktaking assignments are created and distributed to forklift terminals with a priority level.



## Traceability

Effect Warehouse gives you full traceability of products, warehouse activities and resource utilization. A certain lot, package ID, orderline, part no, can be tracked in the warehouse and out to the customer.

## Blocking

Effect Warehouse can block item, lot, pallet, rack, location or individual items from being accessible in normal routines. Locations can be blocked for storage, order picking or both.

### Manage item material handling data

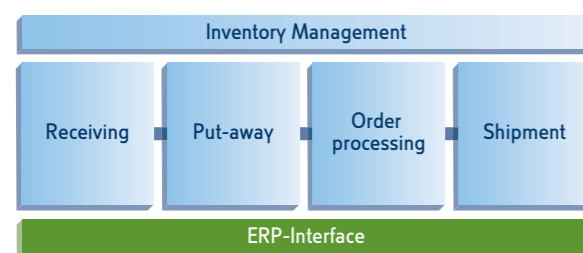
Master item data is owned by the ERP-system and is transferred to Effect. Effect Warehouse contains additional operational article information set by the warehouse. Buffer area, pick area, pick location and replenishment triggers are examples of additional information managed by the warehouse operation.

### Statistics and follow-up

Effect Warehouse includes historical data statistics on warehouse performance, productivity and provided services. Information is easily exported to MS Excel for further processing.

### User access

Application access for system users is managed in a user access system. Users have profiles that describe their rights and what information or services they have access to. Users can be managed in user groups.



## ERP-Interface

Effect Warehouse has a well defined standard communication interface to ERP-systems. This can be used to integrate against one or several ERP-systems where each interface can have individual set-ups.

The preferred data format is XML which is based on OAG 8.0 standard. Effect Warehouse includes an XML transformer with possibility to convert to and from other XML standards.



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