Wave Management

Wave Management
Overview

Wave management is the process of grouping orders/freight which helps to meet the customer requirements at a cost effective and efficient manner which in turn helps effective labor utilization and increases the efficiencies. The goal of wave management is to shorten the overall loading time for the scheduled order and to build an optimized transportation plan to meet the customer requirements. It is an integral part of the outbound process of warehouse management. It can be stated that a successful wave execution enables effective workloads, optimum resource availability, dynamic inventory allocation, consolidation requirements and pick face replenishment which in turn helps in the effective warehouse management.

EWM Process

EWM - Extended Warehouse Management - Process

<table>
<thead>
<tr>
<th>Inbound process</th>
<th>Warehouse process</th>
<th>Outbound process</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order management</td>
<td>Stocktaking</td>
<td>Sales order management</td>
</tr>
<tr>
<td>Receipts tracking</td>
<td>Replenishment</td>
<td>Wave planning</td>
</tr>
<tr>
<td>Inbound shipments tracking</td>
<td>Warehouse optimization functions</td>
<td>Back order management</td>
</tr>
<tr>
<td>Multiple receiving documents support</td>
<td>Kitting and value-added services</td>
<td>Multiple rule driven picking methods</td>
</tr>
<tr>
<td>Customizable information capture upon receiving</td>
<td></td>
<td>Advanced picking</td>
</tr>
<tr>
<td>Rule driven put away methods</td>
<td></td>
<td>Packing and consolidation</td>
</tr>
<tr>
<td>Product return management</td>
<td></td>
<td>Shipment tasks management</td>
</tr>
<tr>
<td>Inbound dock management</td>
<td></td>
<td>Load planning and execution</td>
</tr>
<tr>
<td>Inbound trailer and yard management</td>
<td></td>
<td>Outbound dock management</td>
</tr>
<tr>
<td>Cross-docking</td>
<td></td>
<td>Outbound trailer and yard management</td>
</tr>
</tbody>
</table>

Warehouse Visibility Warehouse Efficiency Warehouse Flexibility

The wave management process is an integral part of Extended Warehouse Management's outbound process. Wave Management Process

In Warehouse, particularly for Outbound activities, tasks are broken into smaller A wave groups warehouse request items for control of warehouse processes including for example, picking activities or posting changes. These groupings are then processed together. Warehouse request and split items can be grouped into waves based on activity area, route, or product. Waves can be generated using templates automatically or manually. The wave template defines the attributes of the wave and serves as the infrastructure for automatic wave assignment. Templates enable the same wave attributes to be reused for different warehouse request items that comply with the same conditions. Wave templates can also be used in manual wave creation. In the case of automatic wave Creation, templates must be used to assign or split items to existing waves. The parameters on which the waves can be created are:-

1. Customer groups.
2. Areas of the warehouse.
3. Different types of orders.
4. Different types of materials.
5. Total wave size depending on the weight, volume and unit of measure of materials.

Key Benefits

The major benefits of wave management are:-

a) It helps in making on timely delivery of all the customer orders.
b) Improves Productivity of Resources.
c) Control of Warehouse Activities.
d) Auto release of Wave is possible.
e) Multiple Wave templates can be created. System can determine the Best option.
f) ‘Exceptions’ can be used in Wave.

Annexure

References: