

Produmex WMS

B1UP Dashboards



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Get a real-time insight in your logistic operations through the Produmex WMS B1UP Dashboards

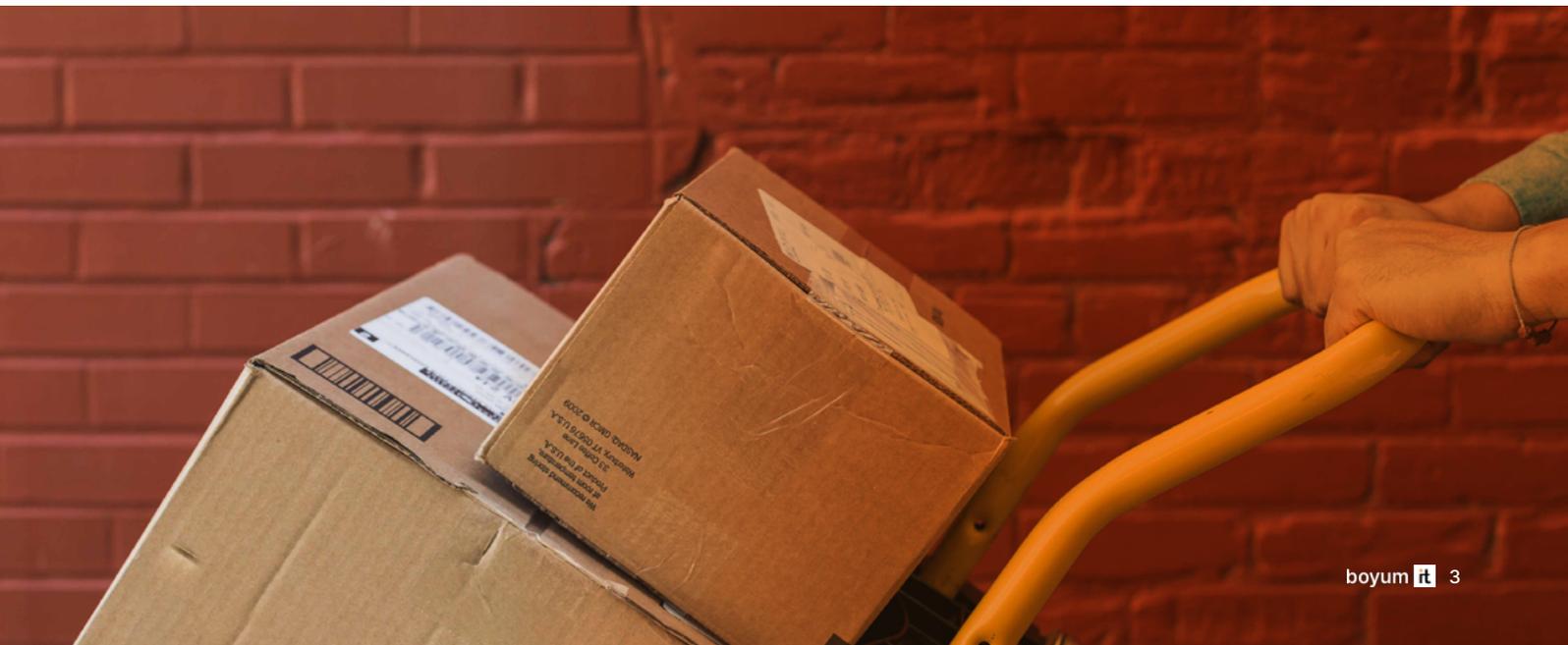
Understanding how your logistic operations are running at a glance is a “must have” for you as a manager, warehouse supervisor or purchasing and sales staff member. That is what the B1UP dashboards (B1 Usability Package) for Produmex WMS can offer you. They allow you to have a view on just that information that you need, in the format that you wish. They also allow you intervene quickly if required.

To use them all staff that requires to access this information just needs a B1UP license. This Boyum IT Solution is up and running in minutes. The dashboards are delivered along with B1UP free of charge.

The B1 Usability Package is an SAP Business One customization tool that allows to fine-tune SAP Business One functions to your specific business requirements

B1UP allows to build interactive dashboards and charts using SAP Business One and Produmex WMS data and allows to extend them quickly and easily. B1UP includes a cockpit that provides interactive tools to review up-to-date data and make on-the-go decisions. Data can be displayed in eye-catching, colorful charts and pop-up dashboards to visualize your SAP and WMS data.

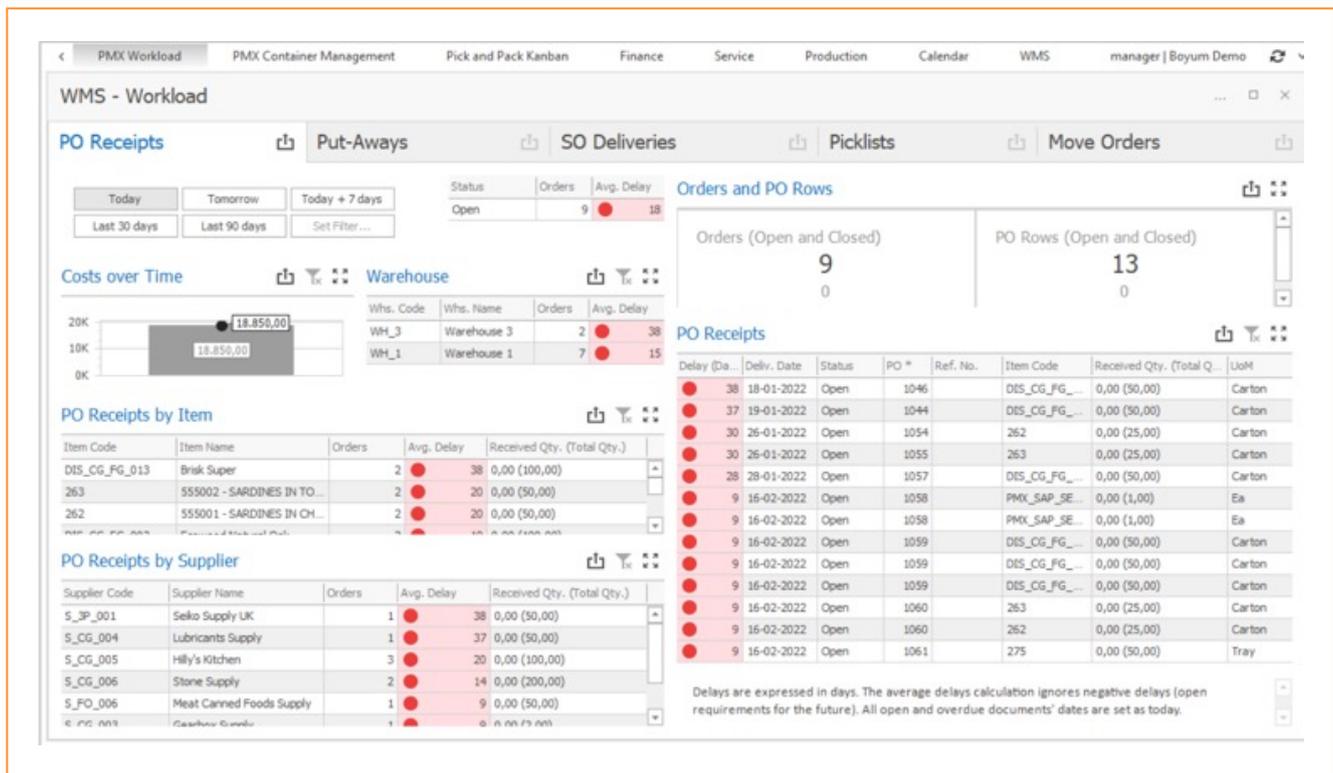
This document describes a number of examples of dashboards that will be useful to monitor the efficiency of your logistic operations. They can be easily adapted and extended by you and they are delivered as standard dashboards with B1UP both for a Microsoft SQL Server and a HANA environment. **These dashboards are available for B1UP and Produmex WMS users with WMS's version 2021.12 or higher.**



Generic Produmex WMS Workload Overview

This combined dashboard provides in-depth information about a number of critical tasks that influence the logistic operations in a warehouse. The dashboard will allow warehouse managers and supervisors, as well as other management staff to have a clear view on the workload on the warehouse for the various operations.

This dashboard will provide an overview of all inbound, outbound and internal logistics operations.



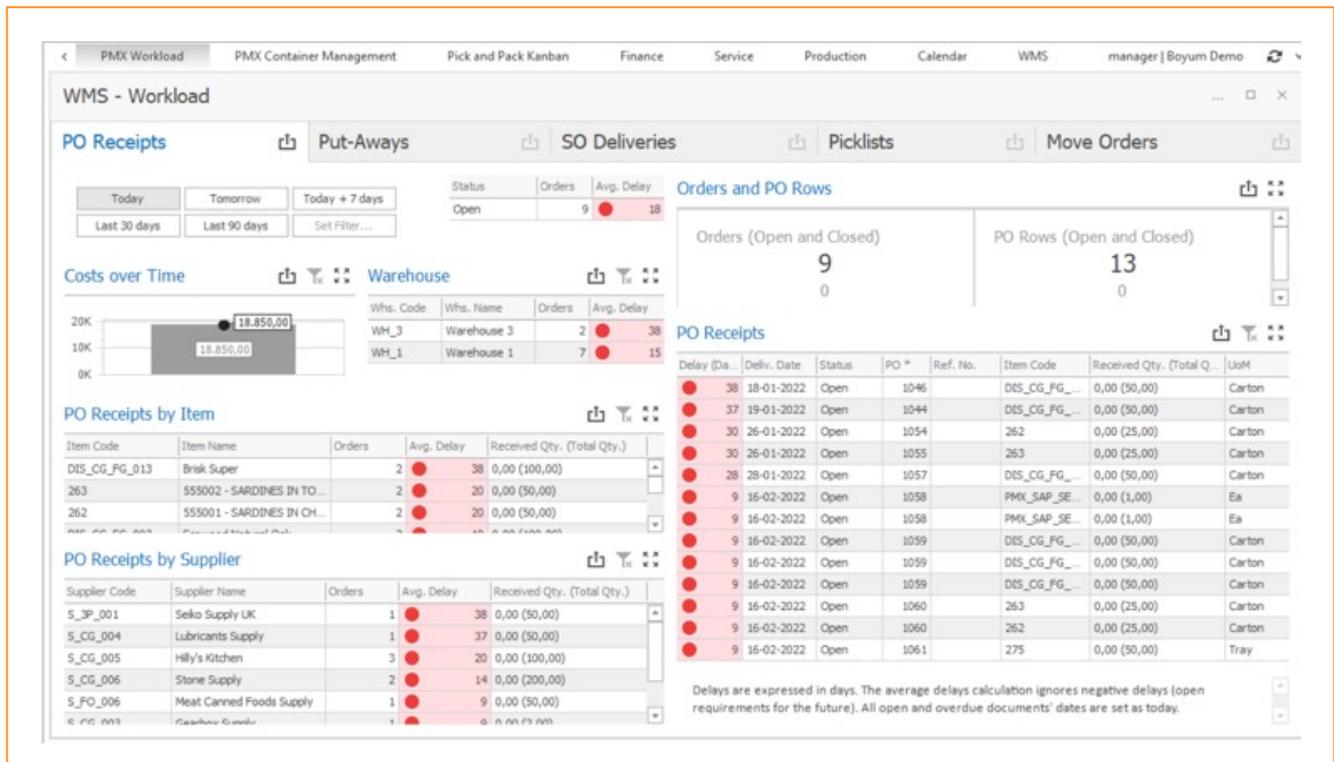
Inbound Logistics Workload Overview

PO Receipts Dashboard

As a warehouse manager or supervisor, it is important for you to know which inbound logistics workload is expected for the warehouse, on a daily basis, but also looking into the near future and looking back. How many purchase orders, containers, inventory transfers, ... are due to be delivered on a given day will determine whether you can cope with the available staff, whether you should move people from other warehouse areas to the inbound area or whether you should apply for additional staff, especially in peak periods like the holiday season.

On the PO Receipts side, you can monitor the number of PO receipts that you will have to manage today, tomorrow or over the next week. This will allow you to balance the workload. You can have a view on the situation by warehouse, by item or by supplier. There is also the possibility to have an historic view on what workload had to be managed over the last month or 3 months - or any other period that might be required for you to have historic insight in how your logistics operation work.

It is also possible to drill down to individual purchase orders and filter on open or closed orders and get an overview of receiving costs over time.



Put-Aways Dashboard

Closely associated with the workload of goods receipts is the workload of put-aways. What is received on the receiving docks or in the receiving or production area needs to be put away in the warehouse as soon as possible. You cannot afford that the receiving docks or receiving area gets overloaded. So a clear view on the quantity of logistic units on the receiving docks or in the receiving area is of paramount importance for a warehouse manager or supervisor to ensure a smooth flow of goods from the receiving docks or area into the warehouse.

Apart from the inbound logistics put-aways there can also be put-aways associated to production or value added logistics operations. These can also be monitored at the warehouse supervisory level to assess the upcoming workload.

Various filters can be set to fine-tune the information, such as:

- Source and target warehouse
- Source and target locations
- Put-aways by item
- Put-aways from production or a GRPO

It is also possible to click through to each individual put-away order in Produmex WMS.

The screenshot displays the 'WMS - Workload' dashboard with several key sections:

- Navigation:** PMX Workload, PMX Container Management, Pick and Pack Kanban, Finance, Service, Production, Calendar, WMS, manager | Boyum Demo.
- Summary Cards:**
 - Source Warehouse:** Shows pending and average wait times for Warehouse 1 (18 pending, 81 avg. wait).
 - Target Warehouse:** Shows pending units for Warehouse 1 (18 pending).
 - Production Put-Away:** 11 units.
 - GRPO Put-Away:** 7 units.
- Source Location / Target Location:** Shows pending units and average wait times for various locations like Output Productio... (11 pending, 110 avg. wait) and Receiving Dock 1 (7 pending, 30 avg. wait).
- Pending Put-Aways Table:**

Type	Waitn...	Received	GRP...	Prod. *	Move Cr...	Item Code	SSCC	Open Qt...	UoM	Supplier
Product...	269	01-06-2021...		194	20835	M-5117082-P	1234...	10,00	Manual	
Product...	98	19-11-2021...		202	21919	PRD-0001	1234...	10,00	Ea	
Product...	98	19-11-2021...		203	21919	PRD-0001	1234...	100,00	Ea	
Product...	98	19-11-2021...		203	21920	PRD-0004	1234...	1.000,00	Manual	
Product...	98	19-11-2021...		204	21921	PRD-0001	1234...	1.200,00	Ea	
Product...	98	19-11-2021...		204	21922	PRD-0004	1234...	12.000,...	Manual	
Product...	95	22-11-2021...		205	21924	PRD-0001	1234...	1.200,00	Ea	
Product...	95	22-11-2021...		205	21925	PRD-0004	1234...	12.000,...	Manual	
Product...	94	23-11-2021...		206	21928	PRD-0001	1234...	1.200,00	Ea	
Product...	94	23-11-2021...		206	21929	PRD-0004	1234...	12.000,...	Manual	
Product...	93	24-11-2021...		207	21933	PRD-0001	1234...	1.200,00	Ea	
Product...	93	24-11-2021...		207	21934	PRD-0004	1234...	12.000,...	Manual	
GRPO	30	26-01-2022...	1393		21963	D-GOS	1234...	50,00	Bag	Dairy F...
GRPO	30	26-01-2022...	1394		21964	262	1234...	25,00	Carton	Hilly's ...
GRPO	30	26-01-2022...	1394		21965	263	1234...	25,00	Carton	Hilly's ...
GRPO	30	26-01-2022...	1395		21966	DIS_CG_FG...	1234...	50,00	Carton	Stone ...
GRPO	30	26-01-2022...	1396		21967	DIS CG FG...	1234...	50,00	Carton	Stone ...
- Put-Aways by Item Table:**

Item Code	Item Name	Pending	Avg. Wait	Open Qty.	Committed Stock
M-5117082-P	VARIATOR MULTIVAR 200...	1	269	10,00	0
PRD-0001	Krackles Bag of Crisps	5	96	4.910,00	0
PRD-0004	Potato Peels	5	96	49.000,00	0
DIS_CG_FG_005	Santander Black	1	30	50,00	1.140
DIS_CG_FG_004	Natural Maple	1	30	50,00	1.200
DIS_CG_FG_003	Ecowood Natural Oak	1	30	50,00	3.760
D-GOS	GOS Powder	1	30	50,00	0
275	ARG003- ARGENTINA COR...	1	30	50,00	0
263	555002 - SARDINES IN TO...	1	30	25,00	60
262	555001 - SARDINES IN CH...	1	30	25,00	120

Outbound Logistics Workload Overview

Sales Order Deliveries Dashboard

On the outbound logistics side, the warehouse management staff also needs to know what the load on the warehouse will be. The "SO Deliveries" dashboard allows to have a clear overview of the sales fulfilment workload in the various warehouses.

Again, a number of filters can be set, including:

- The time frame (today, tomorrow, a week from now) or in the past (30 days, 90 days, ...)
- The sales orders and their status
 - o Open = no picklist created, Pick & Pack = picking and/or packing has been done, Closed – sales order has been delivered or closed

- The warehouse from which the sales orders have to be delivered
- The sales orders by item or customer
- The number of sales orders and the number of sales order rows
- The sales volume over time

It is always possible to click through to a specific sales order, a specific item in specific sales orders or the sales orders for a specific customer.

The screenshot displays the 'WMS - Workload' dashboard with several key sections:

- Navigation:** PMX Workload, PMX Container Management, Pick and Pack Kanban, Finance, Service, Production, Calendar, WMS, manager | Boyum Demo
- Summary Cards:**
 - Put-Aways:** Production Put-Away: 11, GRPO Put-Away: 7
 - Pending Put-Aways:** A detailed table of pending items.
- Tables:**
 - Source Warehouse:**

Whs. Code	Whs. Name	Pending	Avg. Wait
WH_1	Warehouse 1	18	81
 - Target Warehouse:**

Whs. Code	Whs. Name	Pending
WH_1	Warehouse 1	18
 - Source Location:**

Loc. Code	Loc. Name	Pending	Avg. Wait
PROD_1	Output Productio...	11	110
RD_1	Receiving Dock 1	7	30
 - Target Location:**

Loc. Code	Loc. Name	Pending
Unset	Unset	1
P.0114	P.0114	5
P.0111	P.0111	5
 - Put-Aways by Item:**

Item Code	Item Name	Pending	Avg. Wait	Open Qty.	Committed Stock
M-5117082-P	VARIATOR MULTIVAR 200...	1	269	10,00	0
PRD-0001	Krackles Bag of Crips	5	96	4.910,00	0
PRD-0004	Potato Peels	5	96	49.000,00	0
DES_CG_FG_005	Santander Black	1	30	50,00	1.140
DES_CG_FG_004	Natural Maple	1	30	50,00	1.200
DES_CG_FG_003	Ecowood Natural Oak	1	30	50,00	3.760
D-GOS	GOS Powder	1	30	50,00	0
275	ARG003- ARGENTINA COR...	1	30	50,00	0
263	555002 - SARDINES IN TO...	1	30	25,00	60
262	555001 - SARDINES IN CH...	1	30	25,00	120
 - Pending Put-Aways Table:**

Type	Waitin...	Received	GRP...	Prod. *	Move Or...	Item Code	SSCC	Open Qt.	UoM	Supplier
Product...	269	01-06-2021...		194	20835	M-5117082-P	1234...	10,00	Manual	
Product...	98	19-11-2021...		202	21919	PRD-0001	1234...	100,00	Ea	
Product...	98	19-11-2021...		203	21919	PRD-0001	1234...	100,00	Ea	
Product...	98	19-11-2021...		203	21920	PRD-0004	1234...	1.000,00	Manual	
Product...	98	19-11-2021...		204	21921	PRD-0001	1234...	1.200,00	Ea	
Product...	98	19-11-2021...		204	21922	PRD-0004	1234...	12.000,...	Manual	
Product...	95	22-11-2021...		205	21924	PRD-0001	1234...	1.200,00	Ea	
Product...	95	22-11-2021...		205	21925	PRD-0004	1234...	12.000,...	Manual	
Product...	94	23-11-2021...		206	21928	PRD-0001	1234...	1.200,00	Ea	
Product...	94	23-11-2021...		206	21929	PRD-0004	1234...	12.000,...	Manual	
Product...	93	24-11-2021...		207	21933	PRD-0001	1234...	1.200,00	Ea	
Product...	93	24-11-2021...		207	21934	PRD-0004	1234...	12.000,...	Manual	
GRPO	30	26-01-2022...	1393		21963	D-GOS	1234...	50,00	Bag	Dairy F...
GRPO	30	26-01-2022...	1394		21964	262	1234...	25,00	Carton	Hilly's ...
GRPO	30	26-01-2022...	1394		21965	263	1234...	25,00	Carton	Hilly's ...
GRPO	30	26-01-2022...	1395		21966	DIS_CG_FG...	1234...	50,00	Carton	Stone ...
GRPO	30	26-01-2022...	1396		21967	DIS CG FG...	1234...	50,00	Carton	Stone ...

Picklists Dashboard

A warehouse manager or supervisor needs to be aware at all time of the outbound logistics workload: his or her warehouse operations will face on a particular days.

This includes:

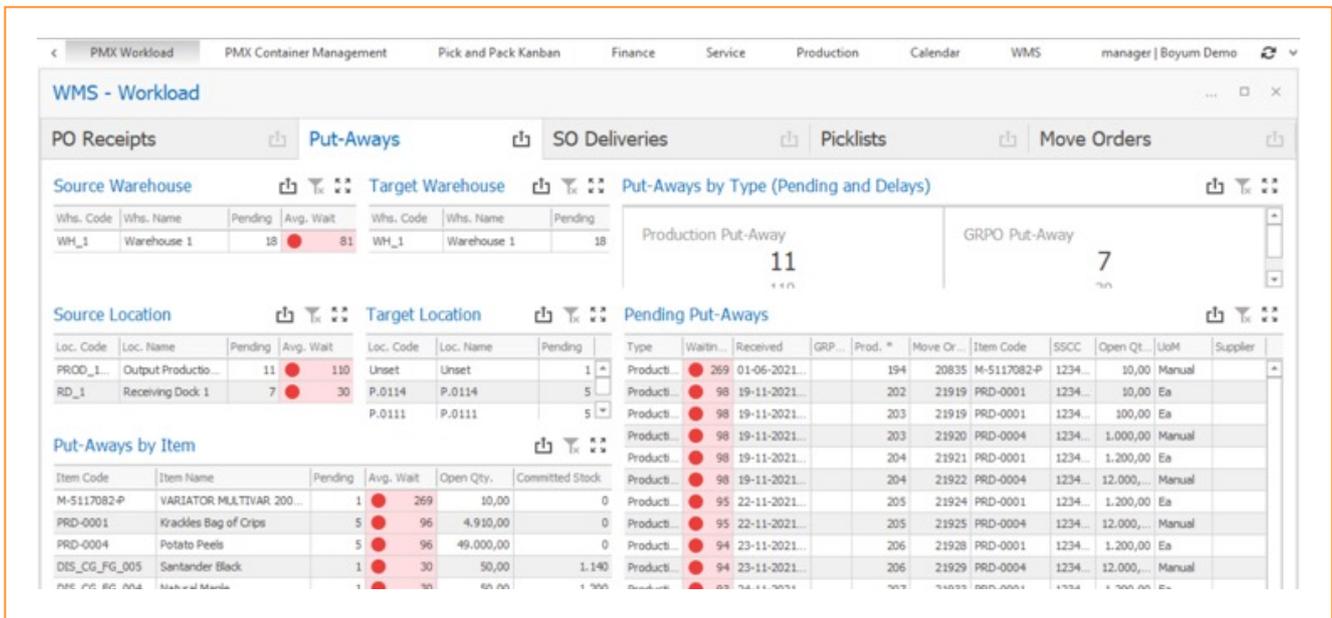
- How many picklists are open and what is their status?
- Is there a backlog from the previous days?

It is possible to filter on a number of aspects, including:

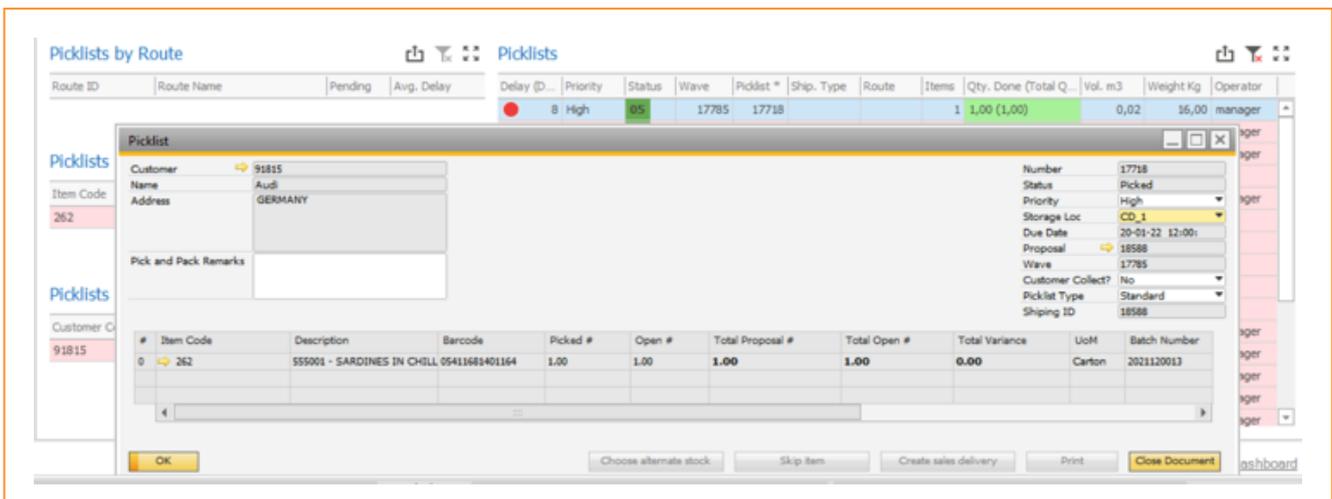
- The time frame - today, tomorrow, a week from now)
- The picklist status - not ready to pick, ready to pick, picking completed, packed)

- The target location - via which shipping location have the picklists to be shipped)
- The priority of the picklists – which can be changed by accessing the picklist in Produmex WMS through the dashboard
- The picklists by route, by item or by customer
- The status of the picklists - progress bar

It is always possible to click through to a specific picklist, the picklists for a specific route, a specific item in a specific picklist or the picklists for a specific customer.



Through this dashboard it is also possible to access the associated picklist in Produmex WMS and change, e.g. its priority, its shipping dock, its due date, etc.



Internal Logistics Workload Overview

Apart from the inbound and outbound logistics operations, the internal logistics operations assure that the operation of the warehouse will be able to continue supporting the inbound and outbound logistic operations smoothly.

Move Orders Dashboard

Move orders ensure that at all times sufficient stock is available at a pick location to fulfil the picklists of a particular day and the days to come. The move orders process can be set up in different ways:

This can be:

- Manual move orders that are entered and assigned by a warehouse supervisor or manager
- Warehouse transfers
- Replenishment operations that are automatically initiated by Produmex WMS based on parameters set in the system.

Again it is possible to drill down to each and every move order in various ways:

- By source and target warehouse and location
- By item
- By pending move orders
- By the type of move order (replenishment, manual move, warehouse transfer)

The screenshot displays the 'WMS - Workload' dashboard with several key sections:

- Navigation:** PMX Workload, PMX Container Management, Pick and Pack Kanban, Finance, Service, Production, Calendar, WMS, manager | Boyum Demo
- Summary Cards:**
 - Source Warehouse:** WH_1 Warehouse 1, Pending: 7, Avg. Wait: 52
 - Target Warehouse:** WH_3 Warehouse 3 (Pending: 2), WH_1 Warehouse 1 (Pending: 5)
 - Move Orders by Type (Pending and Delays):**
 - Replenishment: 3 (71)
 - Whse. Transfer: 2 (37)
 - Manual Move: 2 (37)
 - Source Location:** RB.0001 RB.0001 (Pending: 1, Avg. Wait: 71), PROD_1... Production Rest... (Pending: 1, Avg. Wait: 71), P.0005 P.0005 (Pending: 1, Avg. Wait: 37)
 - Target Location:** RD_3 Receiving Dock 3 (Pending: 2), R.0006 R.0006 (Pending: 1), P.0113 P.0113 (Pending: 1)
 - Pending Move Orders:** Table with columns: Type, Waiting (.), Pending Since, Move Order #, Item Code, SSCC, Open Qty., UoM. Includes rows for Manual Move, Replenishment, and Whse. Trans.
 - Move Orders by Item:** Table with columns: Item Code, Item Name, Pending, Avg. Wait, Open Qty., Committed Stock. Includes items like Crisps Wrapping Foil, Strawberry Yoghurt, Ecowood Natural Oak, and Santander Black.

Container Management

In the area of container management the Produmex WMS B1UP dashboard can provide a lot of information, including:

- Overview of all purchase, sales and route containers within a specific period
- Status of the containers
 - Scheduled, shipped, arrived, ...
- The contents of the containers
 - Products
 - Suppliers and customers
- The average container load
- The total value of the containers by country

The screenshot displays the 'WMS - Container Management' dashboard. It features a navigation bar at the top with tabs for 'PMX Workload', 'PMX Container Management', 'Pick and Pack Kanban', 'Finance', 'Service', 'Production', 'Calendar', and 'WMS'. The main header includes the title 'WMS - Container Management' and a user profile 'manager | Boyum Demo'. Below the header, there are time filters: 'Next 90 Days', 'Next 30 Days', 'Next 7 Days', 'This Month', 'Last 3 Months', 'Last 6 Months', 'Last 12 Months', and 'Set Filter...'. The dashboard is organized into several sections:

- Containers Overview:** A summary table with columns for 'Main St.', 'Avg. ...', 'Contai...', and 'Total V...'. It shows counts for 'Open', 'In Transit', and 'Delivered' containers.
- Shipping Statuses:** A table showing 'Ship. Status', 'Avg. D...', 'Contai...', and 'Total Va...'. It includes categories like 'Scheduled', 'Shipped', and 'Arrived'.
- Incidents:** A table with columns for 'Incident', 'Avg. De...', 'Contain...', and 'Total Value'. It lists incidents like 'Pending lab...' and 'Damaged g...'.

Incident	Avg. De...	Contain...	Total Value
Pending lab...	33	2	7.352,00
Damaged g...	33	1	6.000,00
- Purchased From:** A table with columns for 'Count...', 'Avg. D...', 'Contai...', and 'Total V...'. It shows data for countries like GB, BE, and JP.
- Sold To:** A table with columns for 'Country', 'Avg. De...', 'Contain...', and 'Total Value'. It shows data for GB.
- Container Details:** A detailed table with columns for 'ID #', 'Delay', 'Deliv. Date', 'Container Code', 'Container Name', 'Ship. Type', 'Base Doc.', 'B/L', 'Orig. Port', 'Est. Depart.', 'Est. Arr. Port', 'Est. Arrival', 'Dest. Port', 'Act. Arr. Port', 'Act. Delivery', 'Weight %', and 'Volume %'. It lists specific containers with their details.
- Average Container Load (Weight vs Max. Weight):** A chart showing the relationship between weight and volume.
- Total Value per Country:** A chart showing the total value of containers by country, accompanied by a world map. Below the map is a table:

Total Weight (Kg)	Total Volume (m3)	Total Value
8.050,00	2,34	19.352,00



Planning Dashboard (Kanban)

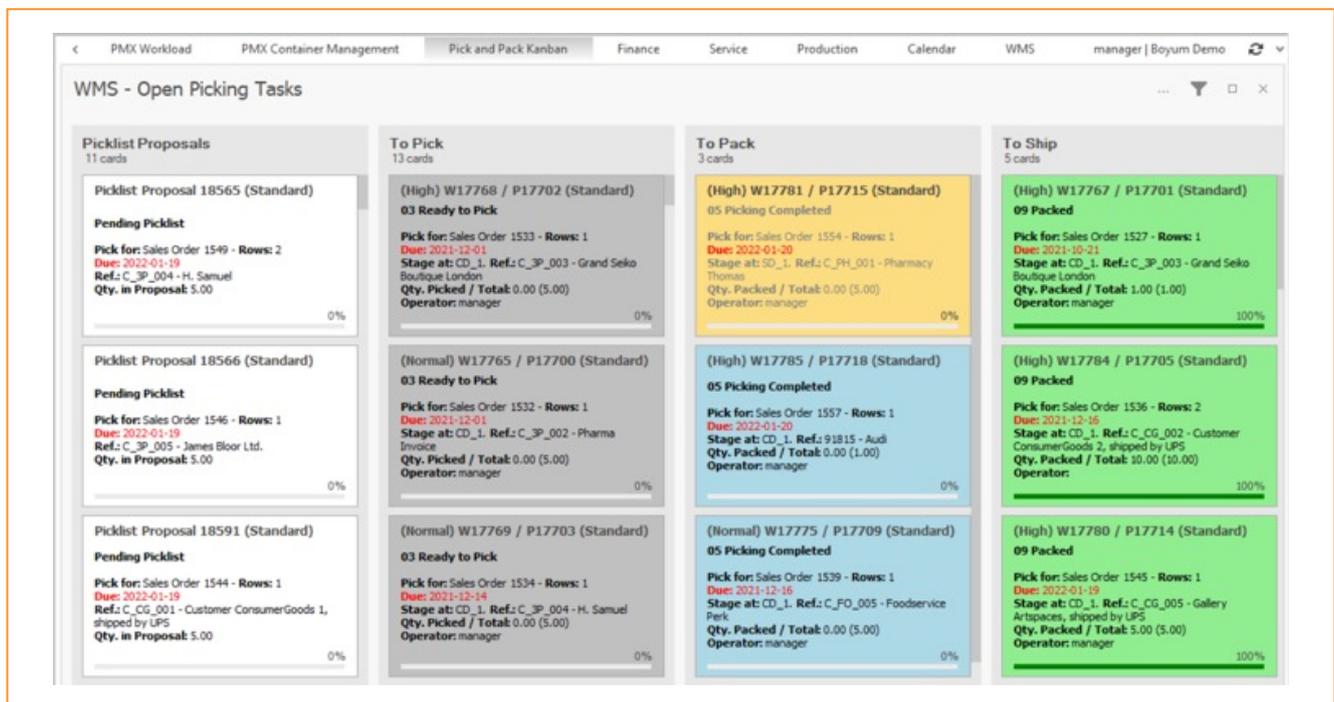
Though the dashboards described above enables warehouse management staff to have a real-time view on various aspects of their logistics operations. The Kanban dashboard combines this in one single view

The warehouse manager or supervisor has the ability to schedule the various operations and only release tasks to the warehouse at the appropriate moment. For that however, he/she needs a reliable dashboard that backs up his decisions in this area.

In one single view he/she will see which picklist proposals exist (i.e. not released to the warehouse yet), which picklists are ready to be picked, which picklists have been

picked and are ready to be packed and which picklists are ready to be shipped. At each stage the warehouse manager or supervisor, will also see the number of picklist lines (or rows). It is possible to click through to the associated Produmex documents (picklist proposals and picklist) and change their status or release a picklist proposal to a picklist.

Many customers also display part of this information on screens in their warehouse, so that warehouse operators know what has been picked and packed already and what still needs to be picked and packed. The motivational aspect of this should not be underestimated.



Dashboard color codes and messages

In all of the dashboards color codes and messages are used to indicate the stage of the documents in the specific dashboard. Please refer to the following paragraphs for an explanation of those.

Workload Dashboard

- **PO Receipts:**

- Average delay greater than 1 day. The average delay cells are also colored in red whenever the delays are greater than 1 day
- Average delay between 0 days and 1 day
- Average delay of 0 days

Closed All rows related to closed documents have a gray background and gray-colored texts.

- The “Received Qty. (Total Qty.)” column has a light green progress bar to visually indicate how much was already received
- The “Received Qty. (Total Qty.)” becomes bold whenever the received quantities surpass the planned quantities

- **Put-Aways:**

- Average waiting greater than 7 days. The average waiting cells are also colored in red whenever the waiting times are greater than 7 days
- Average waiting between 2 days and 7 days
- Average waiting lower than 2 days

- **SO Deliveries:**

- Average delay greater than 1 day. The average delay cells are also colored in red whenever the delays are greater than 1 day
- Average delay between 0 days and 1 day
- Average delay of 0 days

Pick & Pack Sales orders already in pick & pack processes have their status set to “Pick & Pack”, a yellow background, and an attention icon

Closed All rows related to closed documents have a gray background and gray-colored texts

- The “Delivered Qty. (Total Qty.)” column has a light green progress bar to visually indicate how much was already delivered
- The “Delivered Qty. (Total Qty.)” becomes bold whenever the delivered quantities surpass the planned quantities.
- The “SO Deliveries” tab interacts with the “Picklists” tab. If you want to know the picking or packing details for a specific sales order in “Pick & Pack” status, just click on the desired row and check the details under the “Picklists” tab.

- **Picklists:**

- Average delay greater than 1 day. The average delay cells are also colored in red whenever the delays are greater than 1 day
- Average delay between 0 days and 1 day
- Average delay of 0 days
- The “Status” column has a dark green progress bar to visually indicate the progress of the picking, packing, and shipping process. The values range from 1 to 10
- The “Qty. Done (Total Qty.)” column has a light green progress bar to visually indicate how much was already picked, packed, or delivered

- **Move Orders:**

- Average waiting time greater than 7 days. The average waiting cells are also colored in red whenever the waiting times are greater than 7 days
- Average waiting time between 2 days and 7 days
- Average waiting time lower than 2 days

Container Management Dashboard

• Containers Overview

- Average delay greater than 3 days. The average delay cells are also colored in red whenever the delays are greater than 3 days
- Average delay between 0 days and 3 days
- Average delay of 0 day
- 🚩 Containers with Incidents are flagged red, making it easier to visually identify problems.
- ✔ Container weight/volume occupation from 70% to 100%. The weight % and volume % cells are also colored in green whenever the occupation ranges between 70% and 100%
- ⚠ Container weight/volume occupation from 50% to 70%. The weight % and volume % cells are also colored in yellow whenever the occupation ranges between 50% and 70%
- ✘ Container weight/volume occupation below 50% or greater than 100%. The weight % and volume % cells are also colored in red whenever the occupation ranges are lower than 50% or greater than 100%

Closed All rows related to closed containers have a gray background and gray-colored texts.

- The “Total Value” column (“Purchased From” grid) has a gradient blue background color to highlight countries with highest purchase amounts
- The “Total Value” column (“Sold To” grid) has a gradient green background color to highlight countries with highest sales amounts

• Outbound Sales & Route Containers

- Average delay greater than 3 days. The average delay cells are also colored in red whenever the delays are greater than 3 days
- Average delay between 0 days and 3 days
- Average delay of 0 days
- The “Total Value” column has a gradient green background color to highlight the highest sales amounts

• Inbound Purchase Containers

- Average delay greater than 3 days. The average delay cells are also colored in red whenever the delays are greater than 3 days
- Average delay between 0 days and 3 days
- Average delay of 0 days
- The “Total Value” column has a gradient blue background color to highlight the highest purchase amounts

Open Picking Tasks Kanban

- Status “01 Not Ready to Pick”
- Status “02 Part. Ready to Pick”
- Status “03 Ready to Pick”
- Status “04 Partially Picked”
- Status “05 Picking Completed”

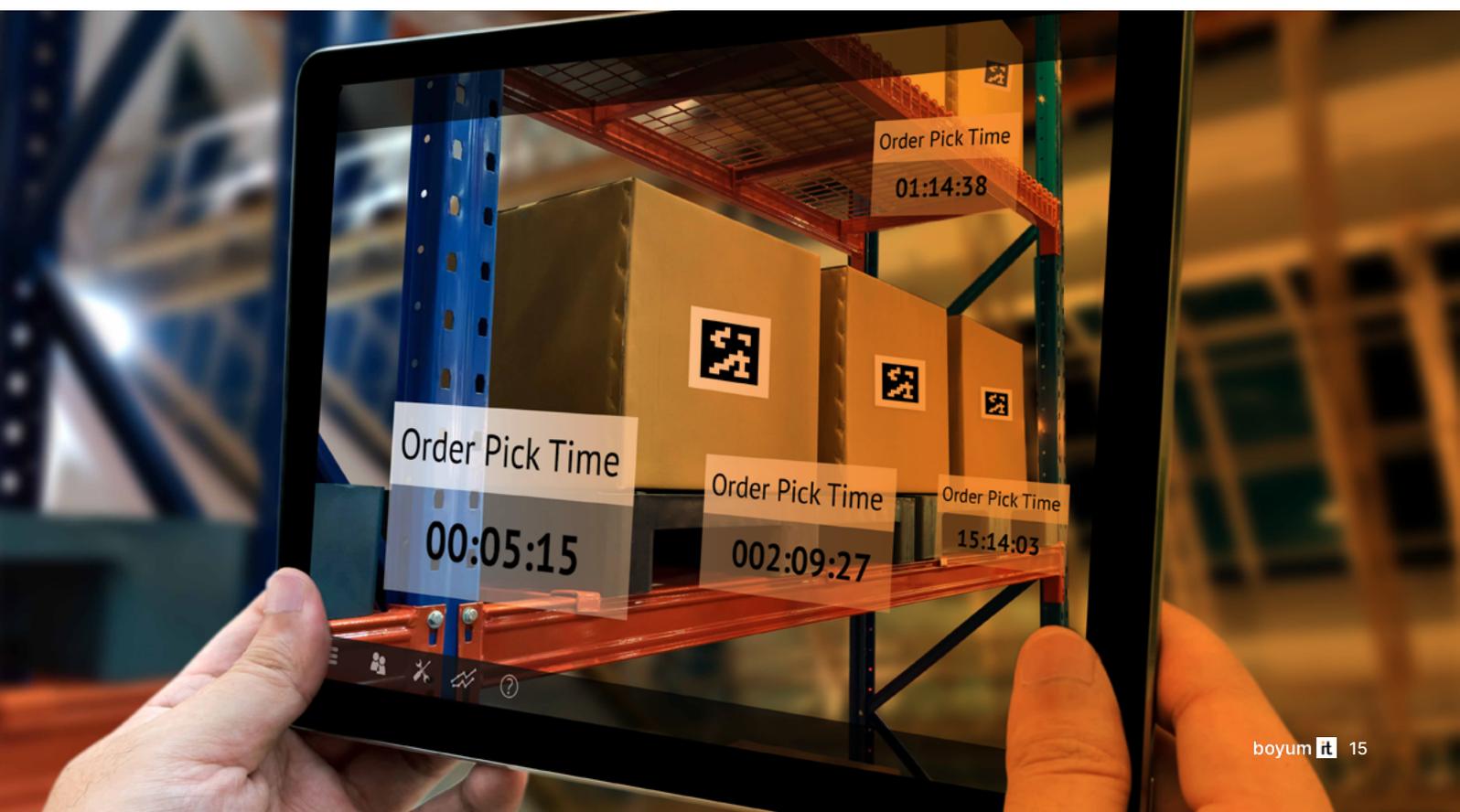
- Status “06 Picklist Part. Deliv.”
- Status “07 Picking Closed”
- Status “08 Partially Packed”
- Status “09 Packed”
- Status “10 Partially Shipped”

Additional Produmex WMS B1UP Dashboards

The above dashboards are just a set of conceivable B1UP WMS dashboards. It depends on your requirements what information you want to capture and how you want to display it.

Further dashboards may include information such as:

- Product quality and expiry monitoring
 - Aging report dashboard
 - Quarantined / rejected products dashboards
- Filling degree
 - At warehouse level
 - At packaging line level
 - At production line level
- Number of shipments per day
- Number of shipments by region/delivery route
- Efficiency, e.g. average picking time /quantity by operator
- Accuracy
 - Number of sales returns by day / item group
 - Number of cycle count differences by item / zone / operator
- Number of turnarounds by product (fast and slow movers)
- Deliveries overview: total value of delivered (outbound) goods vs last year
- Historic WMS transaction overview
- Quality issues per item / item group
- Average time / pick lines by Business Partner
- Average time / pick lines by item
- Etc.



About Boyum IT Solutions

Boyum IT specializes in empowering SMEs to bring their products to life, creating sustainable and purposeful customer relationships. We care about realizing your vision for delivering meaningful experiences to your customers and are here to assist you in unlocking the full potential of your products, creating significant value for people.

For over two decades, we've been committed to this mission, assisting over 12,000 customers in more than 130 countries. With unparalleled support from our trusted network of over 600 partners, we combine global reach and local expertise to offer you the solution that is best for you.





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