Functional Documentation - Ship Pad (Aero)

1.0 Overview

Aero - Sales and Distribution Reporting (google.com)

Business Context and Application Overview

The Ship pad (AERO) was originally developed exclusively for Composite Material GBUs in the aero specific businesses (business line). It serves as an operational report at the plant level, allowing a daily check of items to be shipped from the plant. The report provides insights into priorities, order statuses, and a sequential overview of orders, enabling a thorough assessment for potential risks. This report is specifically designed based on the order book, offering a perspective on orders to-be-issued.

Application User Profile

Describe the key User profiles that exist for the application.

General role/Viewer role:

Approver role:

Target Users:

Operational team at plant level

Order Management, Production Planning, Quality Management, Logistics Execution

VERSION	DATE	MODIFIED BY	DESCRIPTION
0.01	12.12.2023	Azadeh Nasiri	Initial draft

Application Type

Data Product Type	☐ Dashboard ☑ Report ☐ Advanced analytics ☐ AI ☐ Others <specify which one>
Technologies	☑ BW ☐ Tableau ☐ Qliksense ☐ Talend ☐ Dataiku ☐ Others <specify which one>
Data Sources *Note: list of all applications and various environment*	☑ SAP PF1 (Production environment) ☑ SAP WP1 ☐ SAP PI1 ☐ BW (versions) ☐ iCare CRM ☐ CORE CRM ☐ Others <specify the name of the source>

2.0 Business Process

The report support the process of shipping the products from the plants.

3.0 Application Feature Overview

Ship pad (aero) report in the global sales folder of BW is providing the visibility on pending orders and all their corresponding information from different domains (Order Management, Production Planning, Quality Management, Logistics Execution).

The scope of the report: Open Sales Orders and Purchase Orders (Stock transfer) information.

Excluded from the report: Rejected order lines, order lines with remaining quantity to be delivered below tolerance, and all schedule lines without "Actual GI date" from Delivery (shipped).

Report	Technical name

Open Orders report - External	BW_WBK_CPSDAE03_0002
Open Orders report - Internal	BW_WBK_CPSDAE03_0003
Order Book: To be Invoiced + Aero Program & Market	BW_WBK_CPSDA041_SD011
Ship Pad report	BW_WBK_CPSDAE03_0001

4.0 Functional Specification

4.1 General Data/Calculations

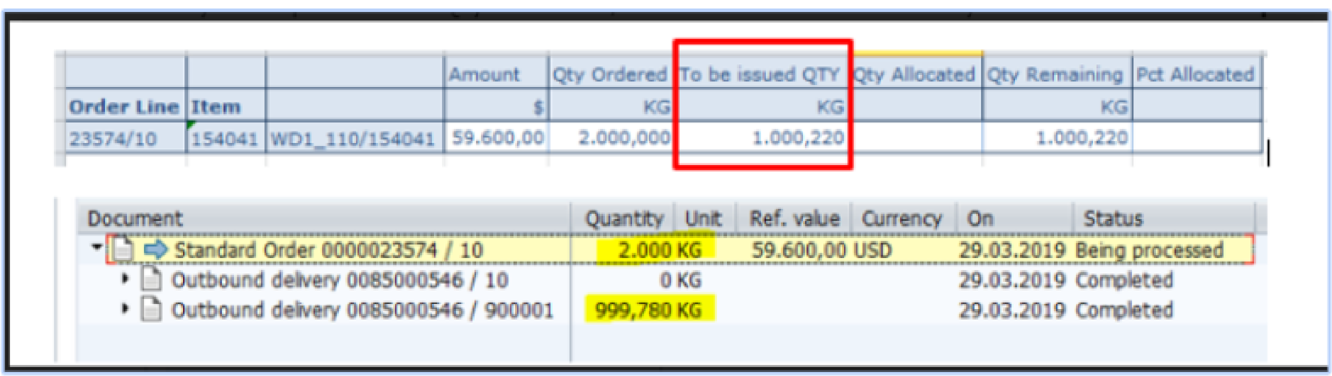
The report is on top of SAP data with calculations on top. Data in BW will be refreshed daily containing information from D-1 (CET time)

Key Figures:

Key figure	Comments
USD_Amount	Line item value
Qty Ordered	Order quantity
Qty Allocated	Delivery quantity based on batch allocation
Qty Remaining	Qty Ordered - Qty Confirmed
Pct Allocated	(Qty Ordered - Qty Allocated) / Qty Ordered

Note: In addition to displaying original document Currency and Unit of Measure, you can select a target Currency and Unit of Measure in before execution (conversion)

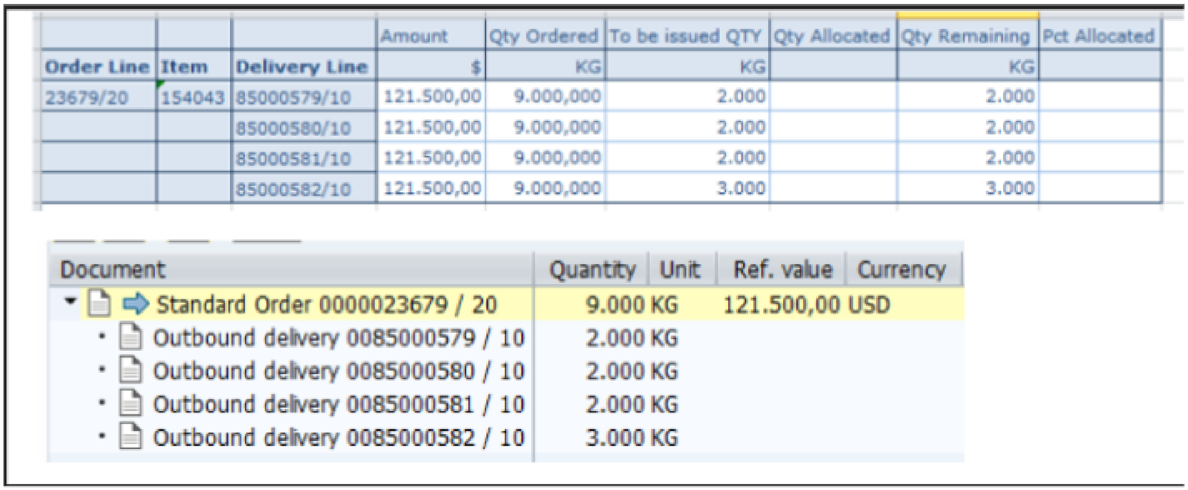
- **Partial Deliveries** “Qty Ordered” <> “To Be Issued QTY”



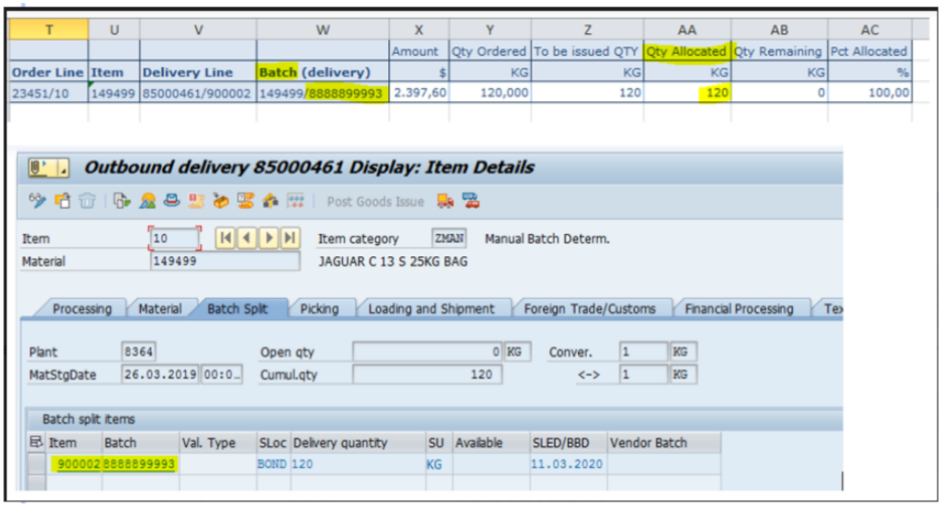
			Amount	Qty Ordered	To be issued QTY	Qty Allocated	Qty Remaining	Pct Allocated
Order Line	Item		$	KG	KG		KG	
23574/10	154041	WD1_110/154041	59.600,00	2.000,000	1.000,220		1.000,220	

Document	Quantity	Unit	Ref. value	Currency	On	Status
Standard Order 0000023574 / 10	2.000	KG	59.600,00	USD	29.03.2019	Being processed
Outbound delivery 0085000546 / 10	0	KG			29.03.2019	Completed
Outbound delivery 0085000546 / 900001	999,780	KG			29.03.2019	Completed

- **Multiple deliveries**



- **Qty Allocated:** based on the existence of a batch in the delivery (batch also available)



Available Fields:

Column	Comments
Number Lots	Number of batches per production order
Batch (delivery)	Allows to see if there is a batch allocation in the delivery
Delivery Status	Linked to Outbound Delivery: Not started: no delivery created Planned: delivery created without Actual GI date Partially Issued: not fully delivered, but at least one delivery with Act GI date Issued: Fully delivered Not relevant: for items not relevant (ex: credit/debit memo)
Spec ID/Short Name/Long name	From Sales Order item level (Additional Data B)
DPAS	From Sales Order item level (Additional Data B)
WorkCenter	Code and text
Process Status/Change Status	Aero specific - Sales Order item level (Additional Data B)
WO	Process Order number from Production

Ship Method	Transportation mode (derived from Shipping condition)
Forwarding Agent	If shipment, Fwd agent from Shipment If not, SP partner from Sales Order item (Partners tab)
Comments	Order line "Texts" tab, "Item note" (usually within 25 char)
DelPerfNote	2 fields: 1) Non-OTIF reason (drop-down from Additional Data B) 2) Non-OTIF comment (free text from Additional Data B)
Cust Req Date	Last Requested Delivery date from order line (Field "First Date")
Dock Date	Delivery date at line item schedule line (only from confirmed schedule line)
CustPO	Customer PO (Order line attribute)
CustPartNo	Customer Material number from order line
SoldToBP	Sold-to party (key)
ShipToBP	Ship-to party (key)
Passed Spec?	Comparing passed specs at batch level with required specs at order line leve

Passed Spec statuses:

Not assigned: order line has no Spec ID

Order Line	Spec ID	Batch (delivery)	Passed Specs	Passed Specs ?	
2669848/10	#	155687/AH0013001	00001821	#	Not assigned

No batch allocated: no batch allocated in delivery

Order Line	Spec ID	Batch (delivery	Passed Specs	Passed Specs	
2669863/10	00016827	#/#	#	X	No batch allocated

Not all specs passed: one/multiple specs from order line not passed

Order Line	Spec ID	Batch (delivery	Passed Specs	Passed Specs	
2669643/10	00012178	155740/AH0002001	#	N	Not all specs passed

All specs passed: all required specs were passed

Order Line	Spec ID	Batch (delivery	Passed Specs	Passed Specs	
2670063/10	00003726|00007183|00015358	160096/HG0043SA	00003726|00007183| 00015358	Y	All specs passed

- **WO fields:** multiple WO -> order qty and amount repeated

Order Line	WO	Plan Start	Work Center	First Plot	Last Plot	Number Lots	Amount £	Qty Ordered KG
23492/10	8005991	28.03.2019	8350/AWX001	WX0008	WX0008	1	2.500,00	50
	8006193	03.05.2019	8350/AWX002	WX0068	WX0068	1	2.500,00	50
	8006246	10.05.2019	8350/AWX001	WX0082	WX0093	2	2.500,00	50

- **Specs:** Short name concatenated by default, also available by Spec ID

Spec Short Name	Spec ID
2ZZZ00002 | BMS 8-274 | ACS-MRS-5027	00020706|00021645|00021656
2ZZZ00002	00020706
2ZZZ00002 | BMS 8-274 | ACS-MRS-5027	00020706|00021645|00021656
2ZZZ00002 | BMS 8-274 | ACS-MRS-5027 | IPS05-12-007-03	00020706|00021645|00021656|00021842

4.2 Process Detail

4.2.1. Report/Process Definition

Open order reports

It includes three reports: Open Orders report - External, Open Orders report - Internal, and Ship Pad report. The last one contains exact similar information by combing the first two but different layout.

Scope of the report: Open Sales Orders information (PO excluded);

Excluded from the report: Rejected order lines, order lines with remaining quantity to be delivered below tolerance, and all schedule lines without "Actual GI date" from Delivery (shipped).

Order Book: To be Invoiced + Aero Program & Market

This report is an enhanced version of the standard “Order Book - To be Invoiced” query. Where the concepts of Aero Program (ex: Boeing 777, 767, etc) and Aero Market (ex: Military, Civilian) are added. This “assignment” is quite dynamic and it is also split by %. Meaning that a sale of a specific material can be 60% for one Aero Program and 40% for another. The report does those calculations in the order book according to these assignments.

Key data for Program/Market selection is Period calendar month / Distribution Channel / Material / Ship-to / Main spec (Aero specification ID)

5.0 Non-functional Descriptions

5.1 Usability

5.2 Regulatory Compliance

5.3 Security

5.4 Performance

5.5 Reliability

5.6 Scalability

5.7 Compatibility

5.8 Availability