PTS-40166-R-FS-WM/IM: Inventory Accuracy Report

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Functional Specification - Reports

Product Team: Integrated Prod.Ops & Sustainment

Feature Title: PTS-40166-R-FS-WM/IM: Inventory Accuracy Report

L1 Value Stream: Plan to Stock

Status:	Responsible Person:
3.Functional Spec Complete/Awaiting Peer Review	Reddy, Srinivas K (US N-DELOITTE SERVICES LP)

L3 Process

Production Operations - Manage Inventory Count

Original Author and Approvers

Role	EWM Consultant
Author	Reddy, Srinivas K (US N-DELOITTE SERVICES LP)
Business Stakeholders (For business area unique controlled deviations only)	
IT Software Architect (ITSA) or Delegate	
Functional Owner (BSA or ERPBA)	

Change Log

Version	Date	Name	Authorization for Create /Change	Alteration Reason

Create Technical specification - Reports

Technical Specifications (will be listed here once first one is created using the button above)

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1.0 Business Context	
1.1 Business Need	A Report showing the % accuracy of the overall warehouse and individual storage locations in a plant for Cycle Counted items. Need storage type level reports for internal analysis. IM and EWM reports needed. Monthly/quarterly/yearly reports (time period flexibility). Material Management and Accounting System (MMAS) requirement to show inventory accuracy at plant/Warehouse level for audit purposes. DFAR is "Establish and maintain adequate levels of record accuracy, and include reconciliation of recorded inventory quantities to physical inventory by part number on a periodic basis. A 95 percent accuracy level is desirable." Audit - utilize the current inventory report and then Sampling done via spreadsheets offline ...95% accuracy required or further more sampling is needed. Each BA will require specific tolerance limits that will be monitored per BA.
1.2 Why is standard functionality not appropriate or sufficient?	The fields available in Standard reports do not meet the business requirements.
1.3 Alternate Approaches Considered	Manually merging multiple reports. Not practically feasible.
1.4 Out of Scope	Open/pending cycle counts is out of scope. Status of a Physical Inventory document identifies open items. This status can be found in this table /SCWM/S_ASP_OI_PI_ITEM_PROCES.
1.5 Assumptions	Only Cycle Count documents will be considered for this report. The ad-hoc inventory or annual count documents will not be considered.
1.6 Dependencies	Enterprise structure needs to have been configured. Cycle count configuration(s) needs to be in place for IM and EWM, with the expectation these will be complete before report development for ITC2.
1.7 Links	NA
1.8 Other key requirements	NA

2.0 Solution Design

Proposed Solution: If all data is available within SAP, we should develop this as a SAC report that is connected to a CDS view.

Assigned ITC2.

Report accuracy of Cycle Counted inventory items per site/warehouse.

2.1 Application High Level Overview	This report can be run as often as needed for the relevant time periods.

2.2 Application Detail Overview

This report will provide the accuracy of the Cycle Counted materials per plant/warehouse.

Sample report:

Detail Cycle Count

Plant 9510 | From 1/1/24 To 5/29/24

Plant	Storage Loc	Wrhs	Storage Type	Customer PO	Project	Project Description	GFE Ind	Cost Plus Ind	WBS	Material Number	Material Description	Batch	Make Buy	CC ABC Ind	CC Fix
9510	SOW1	OW1	C01		3Y0074	ABU Common Build			3Y0074SAP741	13283816	PRINTED WIRING BOARD, ANTENN		BUY	B	
9510	SOW1	OW1	C01		3Y0074	ABU Common Build			3Y0074SAP741	235A204-1	PRINTED WIRING BOARD,SPIRAL L		BUY	B	
9510	SOW1	OW1	C01		3Y0074	ABU Common Build			3Y0074SAP741	301A525-2	IC, FPGA, BGA TO CG 0000397960		MAKE	A	
9510	SOW1	OW1	C01		3Y0074	ABU Common Build			3Y0074SAP741	301A525-2	IC, FPGA, BGA TO CG 0000397961		MAKE	A	
9510	SOW1	OW1	C01		3Y0074	ABU Common Build			3Y0074SAP741	301A525-2	IC, FPGA, BGA TO CG 0012389779		MAKE	A	
9510	SOW1	OW1	C01		3Y0074	ABU Common Build			3Y0074SAP741	301A525-2	IC, FPGA, BGA TO CG 0012570044		MAKE	A	
9510	SOW1	OW1	C01		3Y0074	ABU Common Build			3Y0074SAP741	307A351-1	PRINTED WIRING BOARD,MULTILA		MAKE	B	
9510	SOW1	OW1	C01		3Y0074	ABU Common Build			3Y0074SAP741	310A091-1	PRINTED WIRING BOARD, GPMC5		MAKE	C	

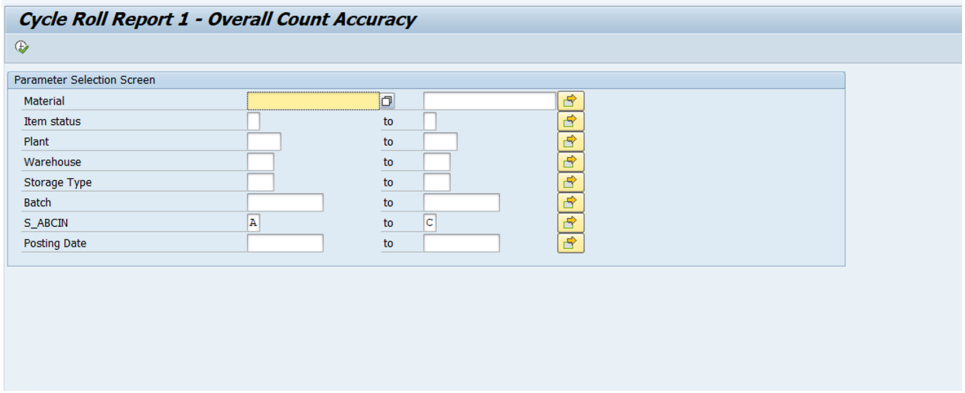
Data Last Refreshed 5/30/24

CC Ind Fixed	ABC Tolerance	Unit of Issue	Book Qty	Count Qty	Base UoM	Reason Cd	Adjusted Qty	Planned Price 2	Ext Adj Cost	Count Tolerance	Cost Tolerance	% Off	Counted By	Count Date	Recount Ind	Material Doc Number	Material Doc Year
	003		49	49	EA		0	168.6	0	1.47	247.67	0.00%	OPSAPP_CY	2/22/24			
	003		67	67	EA		0	355	0	2.01	713.55	0.00%	OPSAPP_CY	2/22/24			
	001		2	2	EA		0	6,899.08	0	0.02	137.98	0.00%	OPSAPP_CY	2/22/24			
	001		22	22	EA		0	6,899.08	0	0.22	1,510.89	0.00%	OPSAPP_CY	2/22/24			
	001		11	11	EA		0	6,899.08	0	0.11	751.99	0.00%	OPSAPP_CY	2/22/24			
	001		4	4	EA		0	6,899.08	0	0.04	275.96	0.00%	OPSAPP_CY	2/22/24			

2.3 Selection Criteria

Sample layout of the selection screen. The user will be prompted with this screen first requesting search input to limit the report output.

Plant and **Posting Date** will be required fields for the user to populate in order to run the report.



2.4 Validation

Validate all input values in the selection screen, if search fails to find data the user will receive a message "No data found.".

2.5 Authorizations (Security/Role/Data Security)

Limit the report to specific users and Plant/Warehouse depending on the security roles, to be defined later.

2.6 Data Selection and Error Handling Requirements

Details are in the Data Source and Report Output sections below.

2.7 Data Source

All data for this report will be available in SAP S/4. SAP transactions will auto-populate the necessary data, no conversion needed for this requirement.

Source System	Description of Data	Data Owner	Types (db,csv, api)	Entities Used	Any extraction strategy(Delta, full load, etc.)
SAP S/4	• Inventory Management (IM) • Enterprise Warehouse Management (EWM)	Need to ID			

2.8 Report Output/Layout

Report requires the following fields.

Column	Field	Source - IM	Source - EWM	Comments
1	Plant	IKPF-WERKS	/SCWM /S_ASP_OI_PI_ITEM_PROCES LGNUM	EWM:- Fetch the plant from the whse number
2	Storage Location	IKPF-LGORT	/SCWM/S_ASP_OI_PI_ITEM_PROCES LGORT	
3	Storage type	-	/SCWM/S_ASP_OI_PI_ITEM_PROCES LGTYP	
4	Material Number	ISEG-MATNR	/SCWM/S_ASP_OI_PI_ITEM_PROCES MATNR	
5	Batch	ISEG-CHARG	/SCWM/S_ASP_OI_PI_ITEM_PROCES CHARG	
6	Bin Number	-	/SCWM/S_ASP_OI_PI_ITEM_PROCES LGPLA	
7	CC Indicator	ISEG-ABCIN	/SCWM/S_ASP_OI_PI_ITEM_PROCES	
8	ABC Tolerance	TBD	TBD	Custom Table will be created.
9	Project	PRPS-OBJNR	PRPS-OBJNR	Fetch Project info from PRPS table using the WBS value.
10	Project Description	PROJ-POST1	PROJ-POST1	Fetch Project info from PRPS table using the WBS value.
11	WBS	ISEG-PS_PSP_PNR	/SCWM/S_ASP_OI_PI_ITEM_PROCES	
12	GFE Indicator	TBD	TBD	
13	Book qty	ISEG-BUCHM	/SCWM/S_ASP_OI_PI_ITEM_PROCES	
14	Counted qty	ISEG-MENGE	/LIME/PI_DOC_TB Quantity	
15	UOM	ISEG-MEINS	/LIME/PI_DOC_TB Unit	
16	Qty Difference	Calculate	/LIME/PI_DOC_TB Quantity	IM:- Subtract Counted qty from Book qty. EWM:- Use the GUID
17	% Qty Difference	Calculate	/LIME/PI_DOC_IT Item	Calculate % qty difference.
18	Cost of difference	ISEG-DMBTR	/LIME/PI_DOC_IT Item	
19	% Cost difference	Calculate	Calculate	
20	Planned Price	MBEW-ZPLPR	MBEW-ZPLPR	
21	Cost	MBEW-VERPR	MBEW-VERPR	
22	Recount Indicator	ISEG-XNZAE	/LIME/PI_DOC_IT Item	
23	Count date	ISEG-ZLDAT	/LIME/PI_DOC_IT Item	
24	Counter	ISEG-USNAZ	/LIME/PI_DOC_IT Item COUNT_USER	
25	PI document number	ISEG-IBLNR	/LIME/PI_DOC_IT DOC_NUMBER	
26	PI document line number	ISEG-ZEILI	/LIME/PI_DOC_IT Item	
27	Warehouse Task number	-	/LIME/PI_DOC_IT Item	
28	Qty adjustment Posting date	IKPF-BUDAT	/LIME/PI_DOC_IT Item	

At the bottom of the report: Display these subtotal values, no visualization needed.

Calculate and display number of Total Line Items counted.

Calculate and display number of Total Line Items with no Quantity Differences.

Calculate and display number of line items with Quantity Differences.

Calculate and display % of line item accuracy from the above calculated results.

- (Line items without differences divided by Total lines counted) *100 = % Line Item Accuracy

Here is a sample of the summary:

Summary Cycle Count

Plant 9510 | From 1/1/24 To 5/29/24

CC ABC Ind	Total Count	Correct Count	Count Within Tolerance	Correct Cnt + Within Tolerance	Count with Variance	Accuracy - Adjustments Outside of Tolerance	All Adjustments	Total Counts	Accuracy with All Adjustments
A	717	712	4	716	1	99.86%	5	717	99.30%
B	748	739	8	747	1	99.87%	9	748	98.80%
C	6606	6284	202	6486	120	98.18%	322	6606	95.13%
Sum:	**8071**	**7735**	**214**	**7949**	**122**	**98.49%**	**336**	**8071**	**4.16%**

2.9 Hierarchies

N/A

2.10 Expected Data volume

All data in SAP S/4, thousands of line items, and number of tables unknown. Report output will depend on user inputs.

2.9 Batch Frequency and Timing

Run on demand or as needed. We estimate this report to be run ~10 times a month.

2.10 Drilldown and Follow-on Activities

N/A

2.11 Data Latency Requirements

Real time.

2.12 History

Depends on the values populated in the Posting date field(s) of the selection screen. Can go up to the oldest time period as captured by transactions in the 1LMX system.

This report will not require any data to be stored for history.

2.13 Key User Groups using the report	<table><tr><th>User Group</th><th>No. of users</th><th>Frequency</th><th>Description</th></tr><tr><td>Cycle Counters</td><td>TBD</td><td>Adhoc</td><td></td></tr><tr><td>Warehouse Supervisor</td><td>TBD</td><td>Adhoc</td><td></td></tr></table>
2.14 Security	Limit access to relevant users that will be defined later in the project. **Data Classification/Tagging Requirements :** NA **Data Level Security :** Limit display of Cost to few users. **Report/Object Security :** TBD: Defined later. **Scheduling/Distribution :** Real time.

3.0 How to Test (Write both positive and negative steps)

3.1 Data Setup

Data Object	Value/Code	Description	Comments
Warehouse configuration			
Cycle Counting configuration			

3.2 Procedural Steps: Please list each procedural step, the expected result and whether the steps PASS or FAIL

Steps	Step Description	Actual Results	Expected Results
1	Create a Cycle Counting document(s) in IM and EWM		
2	Activate the CC document		
3	Perform the counts		
4	Save the differences		
5	Post the differences		
6	Run this report		

Appendix 1 Selection Screen Requirements/CDS View Parameters if applicable

Table /Structure Name	Field Name	Format	Default Value	Table Value / Checkbox / Radio Button / Radio Button Group	Select Option or Parameter	Single, Range, or Multiple Ranges	Mandatory or Optional	Field Labels