JD Edwards – Item Balance/Item Ledger Integrity

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w.r.t

JD Edwards OneWorldXe/Enterprise One/ WorldSoft

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1. Introduction

- Inventory is the basis of Supply Chain Management. Companies move inventory within and among their facilities.
- As we are aware that ERP being an integrated system, for an item, maintaining integrity between Running Balance and the summary of transactions due to processes such as Inventory Transactions, Procurement, Sales and Distribution, Manufacturing etc where inventory plays a major role, is necessary.
- Data consistency is a necessity to ensure balancing of inventory transactions with financial records of any organization

1.1 Objectives

- To Identify integrity problems in Inventory management within JDE.
- To Solve identified integrity problems in Inventory management within JDE.
- To find out the possible causes of integrity problems
- To know about the risk involved with not running the integrity report
- Be able to run the integrity report

1.2 Target Audience

 This white paper intends to guide a JD Edwards Functional Consultant quickly and simply resolve the issues related to Item Balance/Item ledger integrity. Further, some guide lines are also mentioned to identify the causes of the integrity problems. The paper would be found useful by a JD Edwards Technical consultant also to gain insights into the general logic and mapping of this Integrity report.

2. Additional information

When should you run Integrity reports?

Integrity reports are an integral part of the JD Edwards

system. You should run them:

- During implementation to test the legacy data moved into the JDE system
- Up gradation from one version to another version of JDE
- Migration from one ERP Package to another.
- Before Purging and Archiving.
- Periodically, Necessary.
- Daily, if necessary

Why should you run integrity reports?

Running the integrity reports helps you to

- Ensure that the system function correctly and tables/files remain in balance.
- Correct any integrity problem in a timely and efficient manner.
- Locate data inconsistencies.

What do the standard integrity reports provide?

• Most of the standard integrity reports provide information that is **current at the time** that you **run** them. That is, they **have no 'as of capability'**. Exceptions to this are some of the Accounts payable to general ledger and Accounts receivable to general ledger.

3. Integrity Report (R41544) Illustration

• Item Balance/Item Ledger Integrity (R41544) report displays **discrepancies for both quantity** and **amount** between the Item Location **F41021** and Item Ledger **F4111** tables, in combination with the Item As Of **F41112** table.

The report displays summary lines that represent specific totals by:

- Branch /Plant
- Second Item number
- Location
- Lot number

Unless you set the processing option to print all records, a blank

report or without Variance indicates that no discrepancies exist.

3.1 Column's Data:

- Item ledger quantity and amount are from combination of F4111 and F41112 tables.
- Item Balance quantity (On Hand) is from F41021 table.
- Quantities are in Primary Unit of Measure.
- Item Balance amount is by multiplying quantity with unit cost from F4105 table at the time you run the report.
- Variance is Item balance minus Item ledger.
- Percentage variance is derived by (Item Balance-Item Ledger)/Item Balancex100
- Branch/ Plant, Second Item number, Location and Lot Number are from F41021 table

3.2 Report (R41544)Output-Example

R41644			Worldwide Compan ∮	2/26/2008	9:56:22					
		1	Item Balance\Ledger Inte	egrit				Page -	1	
Branch/Plant	M30 Eastern Manufactu	ring Center								
ltern		Lot		Quantit			Amount			
Number	Location	Lot Number	Item Balance	Item Ledger	Variance	Item Balance	Item Ledger	Variance	Variance	
210			531	530	1	281,483.10	280,963.00	630.10	.19	
210	1.A.1		60		50	26,605.00		26,605.00		

4. Issues, Causes and Resolutions

Issues	Causes	Resolutions				
1. Item balance is greater than item ledger	 As of processing is not done. GL date for transactions in Item ledger is missing. Tables update failure during transaction. SQL might be executed. 	 As of processing is to be done. GL date for transactions in item ledger should be available. Executing SQL for tables update failure. Avoiding executing SQL 				
2. Item balance is less than Item ledger	 SQL might be executed at the tables to meet the requirements. Tables update failure during transaction. 	 Avoiding executing SQL at the tables to meet the requirements. Executing SQL for tables update failure 				
3. Item balance is greater or less than Item ledger even though As Of Processing is done.	 Transactions in item ledger might be in future GL date. Tables update failure during transaction 	 Report can't be run 'As of Date' Executing SQL for tables update failure. 				

Issues	Causes	Resolutions
4. Item balance is equal to Item ledger i.e. blank report but As Of Processing is not done.	 All Transactions in item ledger might be in Current period GL dates 	 It is not an issue. There are no transactions in previous periods. As Of Processing may be done.
5. Item balance is showing data but item ledger is blank	 As of processing is not done. No transactions for current period when you run the report. 	 As of processing is to be done. Transactions for current period should be available. Report can't be run 'As of Date'
6. Quantity invariance but Amount variance occurs	 As of processing is not done properly Incomplete process Tables update failure during transaction. 	 As of processing is to be done Process like work order is to be completed

5. How to Resolve? - An Issue Demo

5.1 Running the Report R41544

Processing Option:

Out of three processing options the first one to print all items on the report may be given 'Y'. Remaining may be blank or as you require. Specific Cost method can also be given. Here for demo, print all items and others blank. Cost method will be from table F4105 as per set ups.

Data Selection:

Business Unit (F41021)="M30"

Item Number-Short(F41021)=60011

Processing option and data selection can be as per the requirement

In output of the report (R41544) with discrepancies(Page-10):

Issue Identified : Item Balance quantity and amount are greater than Item Ledger.

Causes found out: 1. As Of Processing was not done.

2. There is no transaction on current year/period.

Resolution:

1. Run the As of File Integrity (R41760) report– Supported with screen shot.

- 2. Inventory transaction (P4114) being done on current year/period.--Supported with screen shots.
- 3. Run the Item Ledger As of Generation (R41542) batch version --Supported with screen shots.
- 4. Run the Item Balance /Item Ledger Integrity report (R41544)-- Supported with screen shots.

5.2 Report(R41544) with Discrepancies

R41544		w	forldwide Company					2/26/2008	10:52:04	
		lte	em Balance/Ledger Intr	egrity			Page -	1		
Branch/Plant	M30 Eastorn Manufact	uring Center								
ltern		Lot		Quantity				Percent		
Number	Location	Lot Number	Item Balance	Item Ledger	Variance	Item Balance	Item Ledger	Variance	Variance	
210			561	535	26	297,386.10	283,603.50	13,782.60	4.86	

5.3 ASOF File Integrity(R41760)-Example

R#1760	R#1760 Worldwide Company Item Ledger/tem ABOF Table Integrity									9:51:07 1 of 1
Century	20	Fiscal Year	5							
litern Number 210		Branch / Plant	MBD	Location		Lat / SN		GrL Category	IN30	
		ASOF Fi	la		Item	· · · · · · Variance · · · ·				
	Period	Quantity UN	1	Amount	Quantity	UM	Amount	Quantity	Amount	
Record Does Not Exist	6				1	EA	530.10	1	530.10	
Century	20	Fiscal Year	8							
litern Number 210		Branch / Plant	MBO	Location		Let / SN		Gil. Category	IN30	
		ASOF Fi	la		Item	Ledger	····· Variance ·····			
	Period	Quantity UN	1	Amount	Quantity	UM	Amount	Quantity	Amount	
Record Does Not Exist	2				530	EA	280,953.00	530	280,953.00	
Century	20	Fiscal Year	5							
litern Number 210		Branch / Plant	MBD	Location	1 A 1	Lot / SN		G/L Category	IN30	
		ASOF Fi	la		Item	Ledger		Variance		
	Period	Quantity UN	1	Amount	Quantity	UM	Amount	Quantity	Amount	
Record Does Not Exist	6				50	EA	26,505.00	50	26,505.00	

ASOF File Integrity Report (R41760)- Example

- The report displays those items for which As Of Processing is not done.
- The report will be blank if As Of Processing is done for the item. Here report displays records of Item number-short 60011 before doing As Of Processing.
- It is not necessary to run this report but it is better to run to ensure that the records in item ledger have been generated to Item As of File F41112.
- The data displayed are not related to the complete transactions which are used for demo on upcoming pages. Just an Example.

For this Report:

Processing Option: NIL

Data Selection:

- 1. Business Unit='M30'
- 2. Item Number-Short=60011

Data selection can be as per the requirement.

Item Ledger Transactions(Pages- 13):

- Inventory transactions are done in Current period so that during AS Of Generation, Balance from previous year can be carry forwarded to the current year.
- Transaction for future date (Highlighted) is also done. But you may notice that transaction is not counted for Integrity which also shows this report will run 'as on date'

View: Item Ledger Current Year Transactions

🕩 P4111 - [Wo												
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Detail	Item Number		[210				M	ountain Bike, R	led		
	Branch/Plant]	÷.	M30	1						
7	1			0				Transaction D	-	5		
Transa	Location			*				Transaction D	ale	*	*	
	Lot/Serial		[*		_		Document Typ	e	*		
	Quantity On Har	od		1 1955 -		len a						
		ιų	1	626		EA		Value		327,398.00		
	Secondary On H	Hand	Ī			EA						
								T. T		6		
										10		
	Document Number	Doc Туре	Doc Co	Transaction Date	Branch/ Plant	Quantity	Trans UoM	Unit Cost	Extended Cost	Location	G/L Date	Secondary Transacton Qty
	106	H	00200	2/26/2008	M30	20-	EA	530.1000	10,602.00-	1.A .1	2/26/2008	
	105	IA	00200	2/26/2008	M30	25	EA	530.1000	13,252.50		1/10/2008	
	3872	IB	00200	2/26/2008	M30		EA	7.1000-	3,983.10-	ana	2/26/2008	
	3872	IB	00200	2/26/2008	M30		EA	7.1000-	213.00-	1A1	2/26/2008	
	107	IA	00200	2/26/2008	M30	10	EA	523.0000	5,230.00	5.00	3/4/2008	
	104	IA	00200	2/25/2008	M30	530	EA	530.1000	280,953.00	(1994) (1994)	2/25/2008	
	106	IA	00200	1/10/2008	M30	5	EA	530.1000	2,650.50	less.	2/26/2008	
	3600	IB	00200	6/1/2005	M30			.0000		1.A.1	6/1/2005	
	3600	IA	00200	6/1/2005	M30	50	EA	530.1000	26,505.00	1.A.1	6/1/2005	
	3669	IA	00200	6/1/2005	M30	1	EA	530.1000	530.10	esset.	6/1/2005	
	41021	IB		3/28/1997	М30		EA	.0000		ana	3/28/1997	~
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								-	Row:12			
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5.4 Item Ledger As of Record Generation (R41542)

The Batch Version will update Item As Of File table F41112 where there are buckets for fiscal periods. The report will summarize the transactions of each period in Item ledger table F4111 And update those buckets in Item As Of File table F41112

Processing Option:

- Option 1: Enter '1' to Regenerate the entire As Of File (F41112). If left blank, records in Item ledger (F4111) which are not yet processed will be taken.
- Option 2: Enter '1' to print a completion report. If left blank it will print only if there are errors.

Here option 1 as ' blank' and option 2 as '1'

Data Selection:

- 1. As of Posted Code(F4111) <> 'S,X,Y'
- 2. Business Unit (F4111) = 'M30'
- 3. 2nd Item Number(F4111) = '210'

Processing option and data selection can be as per the requirement

View: As Of Generation for the Year 2008

	r <mark>(Running Balance) - [Item L</mark> references Row Window Help	leuger - Kunning balance	Summary			
Tools	Select Find Close Seg	🔓 🛷 😽 Links <u>N</u> ew Dis A <u>b</u> o	🕶 Details 🚺 OLE	💽 Internet		₹ Even™
Row Details	Item Number	210			Mountain Bike, Red	
	Branch/Plant	[M30		G/L Class	*
	Location	*		_	Year	2008
	Lot/SN	*			Unit of Measure	EA
	Ending Period	Period	Cumulative Quantity	Period Amount	Cumulative	
	Balance Forward	Quantity 51	Quantity 51	27,035.10	Amount 27,035.10	
	1/31/08	25	76	13,252.50	40,287.60	
	2/29/08	515	591	268,805.40	309,093.00	
	3/31/08	10	601	5,230.00	314,323.00	
	4/30/08		601		314,323.00	
	5/31/08		601		314,323.00	
	6/30/08		601		314,323.00	
	7/31/08		601		314,323.00	
	8/31/08		601		314,323.00	
			601		314,323.00	
	9/30/08	22				
	9/30/08 10/31/08		601	1	314,323.00	
			601 601		314,323.00 314,323.00	
	10/31/08					
	10/31/08 11/30/08		601		314,323.00	
	10/31/08 11/30/08		601	Ro	314,323.00 314,323.00	

5.5 ASOF File Integrity after As Of Generation-Example

R#1760

Worldwide Company

Item Ledger/Item ASOF Table Integrity 2/26/2008 14:13:36 Page - 1 of 1

5.6 Report (R41544) without Discrepancies-Showing All Items

R41644		,	Worldwide Compan	2/26/2008	11:30:59					
		1	item Balance\Ledger Inte	:grit#				Page -	1	
Branch\Plant	M30 Eastern Manufactu	ring Center								
ltern		Lot				Amount			Percent	
Number	Location	Lot Number	Item Balance	ltern Ledger	Variance	Item Balance	Item Ledger	Variance	Variance	
210			561	561		297,386.10	297,386.10			
210	1.A.1		30	30		16,903.00	16,903.00			

5.6 Report (R41544) without Discrepancies-Blank report

R41644

Worldwide Company

Item Balance/Ledger Integrit

2/26/2008 11:11:15

Page- 1

6. References

- JD Edwards E-Guide
- Case studies from JDE Projects