

Inventory Check : Comparing MSEG vs BW

There is a program that was built by Yukiti that compares the content of MSEG with ODS_IC01 (movements) and ODS_IC02 (revaluations).

Extractor - DTS_IM_VARIANCE based on function module

DataSource	DTS_IM_VARIANCE
Applic. Component	MM
Data Reconciliation	☐
Obj. status	Saved
Texts	
Short description	Extract data Stock
Medium description	Extract data Stock to compare
Long description	Extract data Stock to compare in BW
Extraction from DB View	
View/Table	
ExtractStruct.	
Extraction from SAP Query	
InfoSet	
Extraction by Function Module	
Function Module	Z_WBW_DTS_IM_001
Extract.Struct.	ZWBWS017

Function Module - Z_WBW_DTS_IM_001

```
* Get Data '2LIS_03_UM'
  PERFORM BREAK_UM.
|
* Get Data '2LIS_03_BF'
  PERFORM BREAK_BF.
```

Main tables used on function module

BKPF - Accounting Document Header
BSEG - Accounting Document Segment (Cluster Table)
CKMI1 - Index for Accounting Documents for Material
EKPO - Purchasing Document Item
MBEW - Material Valuation
MKPF - Header: Material Document
MLIT - Material Ledger Document: Items
MSSA - Total Customer Orders on Hand
MSSQ - Project Stock Total
QBEW - Project Stock Valuation
WB2_V_MKPF_MSEG2 - Data Selection from Material Documents (without WBGT) (view) with tables MKPF and MSEG

Main function module tasks

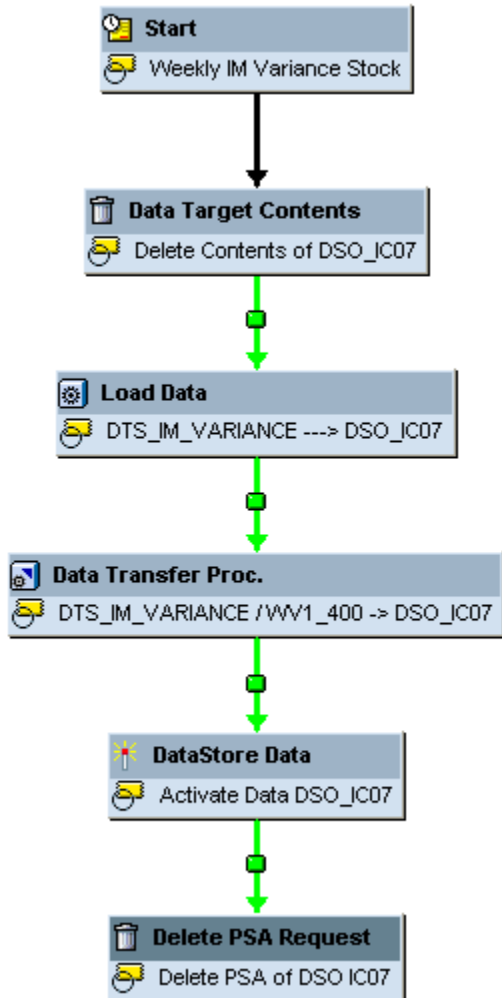
- 1) Check data from Movements and Revaluation;
- 2) Check IF data is in RCS but is not in BW, storing 'DSO_IC07' (/BIC/ADSO_IC0700)
- 3) If movement was done in the day, check in 'DSO_IC07' the date (/BIC/C_CPUPT):
 1. If there is no data in 'DSO_IC07' the date (/BIC/C_CPUPT), there is no difference at this moment.
 2. If date (/BIC/C_CPUPT) is the same today, it should be loaded in the next load.
 3. If date (/BIC/C_CPUPT) is less than today, check IF loads were done, ie: weekends, holidays, etc. In the other side, the data is issued, because some reason the load failed. In this case, it should be done a detailed analysis about missed documents, in order to do a setup table in RCS and do a full repair in BW with these documents.

4) Main parameter: Budat

1. IF it is not inserted in the infopackage, the Function Module has a routine to fill this field, If sy-datum <= 15, run the last and current period, IF not, Just the current one.
2. IF it is inserted in infopackage, do not run the FM routine.
3. Other parameters: 'MBLNR', 'MJAHR', 'BUKRS', 'WERKS', 'MATNR', 'INFOSOURCE', depend on 'BUDAT'.
4. Parameter 'INFOSOURCE', IF it is filled with '2LIS_03_BF', run only Movements routine, but if it is filled with '2LIS_03_UM', so run the Revaluation routine.

1. The execution time for a monthly period is around 1 hour, but for revaluation the routine takes more time.

Process Chain Weekly IM Variance Stock



Step 1 - Deletion of DSO_IC07 content

Selectable Data Targets for Administration				
Name	D.	Technical Name	Table Type	
Variance in Stock Between BW & RCS		DSO_IC07	DataStore Object	

Contents	Requests	Reconstruction
----------	----------	----------------

Requests from DataStore Object:Variance in Stock Between BW & RCS(DSO_							
Req...	R.	ID of...	R...	L...	DTP/InfoPackage	Request ...	Update D...
873206		873207			DTS_IM_VARIANCE / WP...	17.03.2011	17.03.2011

Step 2 - Infopackage - filter

	InfoPackage	DTS_IM_VARIANCE ---> DSO_IC07(FULL)(ZPAK_4K6AJHKPZ1RZ0XBBG...				
	DataSource	Extract data Stock to compare in BW(DTS_IM_VARIANCE)				
	Data Type	Transaction Dat				
	Source System	WP1 Client 400(WP1_400)				
Last Changed By		YITO	Date	17.03.2011	Time	12:06:36

Data Selection	Extraction	Processing	Data Targets	Update	Schedule
----------------	------------	------------	--------------	--------	----------

Load transaction data from the source system

Enter Selections (Optional):

InfoObject	Technical...	Description	From Val...	To Value	T..	D.	Type (Var...	Da
	MBLNR	Number of Materi...						CHA
	MJAHR	Material Docume...						NUM
	BUKRS	Company Code						CHA
	WERKS	Plant						CHA
	MATNR	Material Number						CHA
	BUDAT	Posting Date in t...	25.03.2011	28.03.2011				DAT
	INFOSOURCE	DataSource						CHA

Loading PSA

Requests Newer Than 22.03.2011 Refresh

Requests							
R.	W.	M...	SID of the...	InfoPackage	Request	Loading ...	Loadin...
			880648	DTS_IM_VARIANCE ---> DSO_IC07(F...	REQU_4LBNCUC0R06TZX3BVKS3TRN0	29.03.2011	08:49:47

Monitor

- successful (1)
 - PSA
 - 29.03.2011
 - WP1_400 (WP1 Client 400)
 - 08:49:47 (135917 From 135917 Records)

Step 3 - DTP to load data from PSA to target DSO_IC07

Data Transfer Process: DTS_IM_VARIANCE / WP1_400 -> DSO_IC07

ID: DTP_7TFS2Z18U10NE2D9XCC700BIS

Version: ■ A Active X Saved

Extraction Update Execute

Data Source: DTASRC DataSource
DTS_IM_VARIANCE WP1_400
Extract data Stock to compare in BW

Extraction Mode: F Full Filter Semantic Group

The package size corresponds to package size in source.
It is determined dynamically at runtime.

☐ Do Not Extract from PSA but Access Data Source (for Small Amounts of Data)

Step 4 – Analysis results - from 151919 records, only 19 have to be reloaded because the differences

Name	D.	Technical Name	Table Type
Variance in Stock Between BW & RCS		DSO_IC07	DataStore Object

Contents Requests Reconstruction

Requests from DataStore Object: Variance in Stock Between BW & RCS (DSO_

Req...	R.	ID of...	R...	L...	DTP/InfoPackage	Request ...	Update D...	Transf...	Added ...	Type of Data Update
880654		880655			DTS_IM_VARIANCE / WVP...	29.03.2011	29.03.2011	151919	19	Full update

Records with differences that should be reloaded

Data Browser: Table /BIC/ADSO_IC0700 Select Entries 19

BW...	Company c...	Plant	Number of material d	Item in material d	Material	Posting date	Amt. in local curr.	R	Local c...	Debit/Credit R	InfoProvider
2011	7523	7525	4914067861	1	000000000001751670	28.03.2011	39,86	0	BRL	H	ODS_IC01
2011			4914067861	2	000000000001751670	28.03.2011	15,31	0	BRL	H	ODS_IC01
2011			4914067861	3	000000000001751670	28.03.2011	47,70	0	BRL	H	ODS_IC01
2011		7526	5009661269	1	00000000000096979	28.03.2011	259,58	0	BRL	S	ODS_IC01
2011			5009661272	1	00000000000096979	28.03.2011	306,14	0	BRL	S	ODS_IC01
2011			5009661274	1	00000000000096979	28.03.2011	273,33	0	BRL	S	ODS_IC01
2011			5009661275	1	00000000000096979	28.03.2011	248,06	0	BRL	S	ODS_IC01
2011			5009661277	1	00000000000096979	28.03.2011	266,94	0	BRL	S	ODS_IC01
2011			5009661278	1	00000000000096979	28.03.2011	253,00	0	BRL	S	ODS_IC01
2011			5009661279	1	00000000000096979	28.03.2011	249,52	0	BRL	S	ODS_IC01
2011			5009661280	1	00000000000096979	28.03.2011	260,84	0	BRL	S	ODS_IC01
2011	7531	0228	5009660856	1		28.03.2011	3.621,60	0	PLN	S	ODS_IC01
2011			5009660859	1		28.03.2011	3.420,40	0	PLN	S	ODS_IC01
2011	ZFR3	7681	4914067689	1	000000000000011458	28.03.2011	67.223,26	0	EUR	H	ODS_IC01
2011		7852	5009661453	1		28.03.2011	530,00	0	EUR	S	ODS_IC01
2011			5009661555	1		28.03.2011	1.050,00	0	EUR	S	ODS_IC01
2011			5009661557	1		28.03.2011	1.050,00	0	EUR	S	ODS_IC01
2011			5009661558	1		28.03.2011	1.050,00	0	EUR	S	ODS_IC01
2011			5009661612	1		25.03.2011	750,00	0	EUR	S	ODS_IC01

Step 5 – Check the delta queue (RSA7) in order to see if document is the queue

Monitor for qRFC



DataSource 2LIS_03_UM
 Target system WBP_400
 Update mode Delta
 Data Packet 1
 Data records 417 displayed 417

Cancellat.	Action	DocumentNo	ValCl	Doc. Date	Stk values	Stock cat.	Posted on
		4700018132	Z120	22.03.2011			29.03.2011
		4700018133	Z120	24.03.2011			29.03.2011
		4700018134	Z120	25.03.2011			29.03.2011
		4700018135	Z160	28.03.2011			29.03.2011
		4700018136	Z110	28.03.2011			29.03.2011
		4700018137	Z120	28.03.2011			29.03.2011
		4700018138	Z120	28.03.2011			29.03.2011
		4700018139	Z120	28.03.2011			29.03.2011
		4700018140	Z160	25.03.2011			29.03.2011
		4700018141	Z160	28.03.2011			29.03.2011
		4700018142	Z120	18.03.2011			29.03.2011
		4700018142	Z120	18.03.2011			29.03.2011
		4800000114	Z120	29.03.2011			29.03.2011
		5100000048		25.03.2011	V	V	29.03.2011
		5100000049		23.03.2011	V	V	29.03.2011
		5100000192	Z100	28.02.2011			29.03.2011
		5100000192	Z100	28.02.2011			29.03.2011
		5100000193	Z920	08.03.2011	V	V	29.03.2011
		5100001061	Z235	30.07.2010	V	V	29.03.2011
		5100002066		18.03.2011	V	V	29.03.2011
		5100002067		18.03.2011	V	V	29.03.2011
		5100002067		18.03.2011	V	V	29.03.2011
		5100005613		21.03.2011	V	V	29.03.2011
		5100005616		21.03.2011	V	V	29.03.2011
		5100005618		21.03.2011	V	V	29.03.2011

Step 6 – Run setup table (SBIW) for Inventory movements or revaluation with documents identified in last step.

- Logistics
 - Managing Extract Structures
 - Logistics Extraction Structures Customizing Cockpit
 - BW Log
 - Initialization
 - Delete the Contents of the Setup Tables
 - Filling in the Setup Table
 - Cross-Application Selection Parameters
 - Application-Specific Setup of Statistical Data
 - Inventory Management - Perform Setup
 - Perform setup - Purchasing
 - Perform setup - Production
 - Perform setup - Quality Management
 - Perform setup - Plant Maintenance
 - Service Management - Perform Setup
 - SD-Sales Orders - Perform Setup
 - LE-Deliveries - Perform Setup
 - SD-Billing Documents - Perform Setup
 - LES-Shipment Costs - Perform Setup
 - LES-Transport - Perform Setup
 - Perform setup - Retail
 - Agency business - Set up

Choose Activity

Setup: Material Movements

Setup: Invoice Verification, Revaluation

For material movements

New Setup for Info Structures from Material Movements

Specifications for the target structures

☒ Extraction structures BW

Document data restriction

Archiving run

☐ Selection by posting date

Posting Date 25.03.2011 to 28.03.2011

☐ Selection by material doc.

Material document to

Control of recompilation run

Name of run LOAD

☐ Rerun?

Termination Date 29.03.2011

Termination Time 16:24:15

Execute in background (program option or F9 key)

Program	Edit	Goto	System
Execute	F8		
Execute and Print	Ctrl+P		
Execute in Background	F9		

Set output device

Background Print Parameters

Output Device: 

Number of copies:

Set to immediate

Start Time

>>

Save

Follow de process using transaction SM37

Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
☐ RMCBNEUA		NARAUJO	Finished	29.03.2011	16:27:55	597	0

For revaluation - follow the same steps that you did for material movements

Statistical Setup of Info Strucs from Invoice Verification/Revaluation



Specifications for the target structures

☒ Extraction structures BW

Document data restriction

Archiving run:

Company Code:

☐ Selection per doc. number

Accounting document: to

Fiscal year: to 

☒ Selection by posting date

Posting Date: to

Change the infopackage 2lis_03_bf to ODS_IC01 (full repair) parameter in order to add the material documents or period

InfoPackage	2LIS_03_BF to ODS_IC01 (full repair)(ZPAK_4LBEO8ECHQD0NY82QYTW...		
InfoSource	Material movements (as of 2.0B)(IFS 2LIS 03 BF)		
DataSource	Goods Movement From Inventory Management(2LIS 03 BF)		
Data Type	Transaction Dat		
Source System	WP1 Client 400(WP1 400)		
Last Changed By		Date	Time 00:00:00

Data Selection Processing Data Targets Update Schedule

Load transaction data from the source system

Enter Selections (Optional):

InfoObject	Technical...	Description	From Val...	To Value	T..	D.	Type (Var...	Da...
0STOCKCAT	BSTTYP	Stock categories ...				☐		CHAR
0PSTNG_DA...	BUDAT	Posting Date in t...	25.03.2011	28.03.2011	☐	☐		DATS
0PROCESSK...	BWVORG	SAP BW transacti...				☐		NUMC
0MATERIAL	MATNR	Material Number				☐		CHAR
C_MBLNR	MBLNR	Number of Materi...				☐		CHAR
0PLANT	WERKS	Plant				☐		CHAR
C_KZZUG	KZZUG	Receipt indicator				☐		CHAR
	SPRAS	Language Key				☐		LANG

Select Data Targets

Select Data Targets To Be Updated

U.	D.	Data Target Name	M.	M.	C.	D.	A.	D.	Technical na
☐	☐	Batch number	☒	☐	☐	☐	☐	☐	0BATCH
☐	☐	Batch	☒	☐	☐	☐	☐	☐	C_BATCH
☐	☐	Number of reservation	☒	☐	☐	☐	☐	☐	C_RSNUM
☒	☐	Material movements	☒	☐	☐	☐	☐	☐	ODS_IC01

Data Selection Processing Data T

☒ Start Data Load Immediately

☐ Start Later in Background

Job Name Prefix/Suffix BI_BTCH

Gantt Diagram (Plan.Table)

☐ Request Batch Proceess Runs Until All Data

Start Job(s)

Monitor - Administrator Workb Back (F3)

← → 📄 📊 All 🔍 📁 Details ↺ ↻ ↵ 🎯

- Monitor
 - successful (1)
 - IFS_2LIS_03_BF (Material movements (as of 2.0B))
 - 29.03.2011
 - WP1_400 (WP1 Client 400)
 - 11:49:16 (150073 From 150073 Records)

Start again the load in DSO_IC07
PSA

Monitor	Header	Status	Details
successful (2)	Request		REQU_4LB58PBLCZCLY4KVPU9N9GTV0
PSA	Start Time	29.03.2011	12:45:58
29.03.2011	Runtime	9m 31s = 72.10 % of the predicted le ...	
WP1_400 (WP1 Client 400)	Position		Materials Management
08:49:47 (135917 From 135917 Records)	DataSource		DTS_IM_VARIANCE (Extract data Sto ...
12:45:55 (136263 From 136263 Records)	Source Sys.		WP1_400 (WP1 Client 400)
	InfoPackage		DTS_IM_VARIANCE ---> DSO_IC07(F ...
	Adapter		Access to SAP Data through Service ...
	Data Format		Fixed Length
	Selections		BUDAT = 20110325 - 20110328
	User		NARAUJO
	Processing		PSA
	Update Mode		Full update
	Records Check		136263 Records Received

DTP

Request Processing

- Request 880694
 - Generate Request
 - Set Status to 'Executable'
 - Process Request
 - Prepare for Extraction
 - Data Package 1 (16002 Data Records)
 - Data Package 2 (50000 Data Records)
 - Data Package 3 (50000 Data Records)
 - Data Package 4 (35917 Data Records)
 - Data Package 5 (50000 Data Records)
 - Data Package 6 (50000 Data Records)
 - Data Package 7 (36263 Data Records)
 - End of Processing
 - Set Technical Status to Green
 - Set Overall Status to Green

The first errors were fixed, but some new ones were loaded from last day (28.03) for companies 7424 and 6746. That's better to run this process 2 days after movement, because the delta sometimes delay more time.

DOC_YEAR	RECO...	COMP_CO...	PLANT	/BIC/C_MBL...	/BIC/C_ZEI...	/BIC/C_MATNR	PSTNG_DATE
2011	2	6746	7605	4914070179	1	000000000000096293	28.03.2011
2011	3				2	000000000000095940	28.03.2011
2011	4				3	000000000000093370	28.03.2011
2011	5				4	000000000000095898	28.03.2011
2011	1	7424	0241	4914070168	1	000000000000107227	28.03.2011
2011	7		0242	4914070803		000000000000086615	28.03.2011
2011	8			4914070805		000000000000086615	28.03.2011
2011	9			4914070856		000000000000086615	28.03.2011
2011	10			4914070857		000000000000086615	28.03.2011
2011	11			4914070861		000000000000086615	28.03.2011
2011	12			4914070864		000000000000086588	28.03.2011
2011	13			4914070897		000000000000086588	28.03.2011
2011	16			4914070902		000000000000086602	28.03.2011
2011	18			4914070905		000000000000109828	28.03.2011
2011	36		0249	5009663685			28.03.2011
2011	6		0250	4914070797		000000000000061152	28.03.2011
2011	14		0253	4914070900		000000000000086615	28.03.2011
2011	15			4914070901		000000000000086615	28.03.2011
2011	17			4914070904		000000000000086615	28.03.2011
2011	19			4914070906		000000000000086615	28.03.2011
2011	20			4914070908		000000000000086615	28.03.2011
2011	21			4914070909		000000000000086615	28.03.2011
2011	22			4914070977		000000000000114576	28.03.2011
2011	24			4914071022		000000000000086615	28.03.2011
2011	25			4914071076		000000000000086588	28.03.2011

Query created in WBP to check data in DSO_IC07

Run the query below in order to check if there are records in DSO_IC07:

Description	Reporting Variance Stock B&W & R
Technical Name	BW_QRY_DSO_IC07_0001
InfoProvider	DSO_IC07

Regarding the selection parameters: The parameter current Date (CPUDT) must be less than processing Day date:

E.g.: Supposing today is 03/03/2011, you should fill this parameter like: "< 03032011"

Check IF the documents from DSO_IC07 are found in the ods_ic01 e ods_ic02.

If those documents are not found in ODS_IC01 and ODS_IC01, then:

Follow the instructions from the subject "Main function module tasks" found in the Page 2 item 3

Variable Entry

Available Variants: [Show Variable Personalization](#)

General Variables

Variable ⇅	Current Selection	Description
Company Code		📄
Material (Select option, Optional)		📄
Plant (Selection option, Optional)		📄
Posting date (Interval, Optional)		📄
Current Date	<03032011	📄