

# 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	<input type="checkbox"/>
Obj. status	Saved
<b>Texts</b>	
Short description	Extract data Stock
Medium description	Extract data Stock to compare
Long description	Extract data Stock to compare in BW
<b>Extraction from DB View</b>	
View/Table	
ExtractStruct.	
<b>Extraction from SAP Query</b>	
InfoSet	
<b>Extraction by Function Module</b>	
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)
- CKM11 - 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

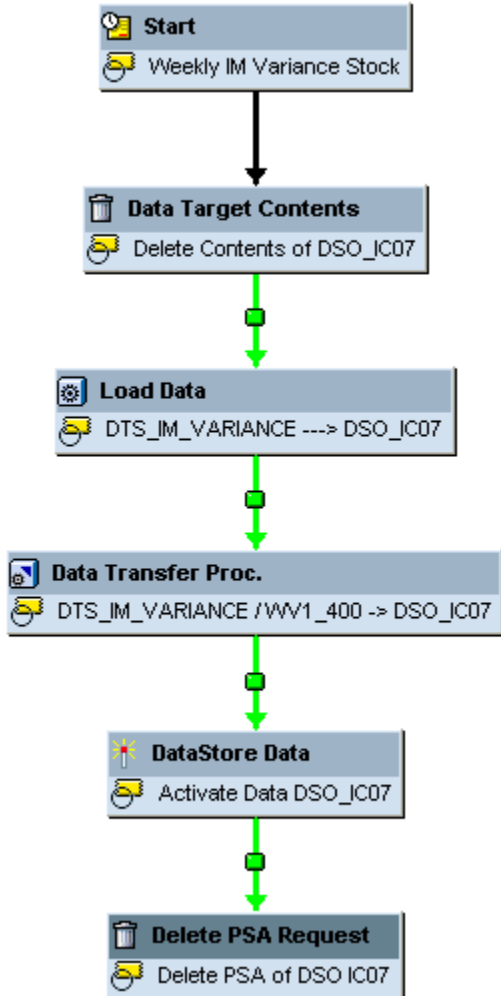
- 1) Check data from Movements and Revaluation;
- 2) Check IF data is in RCS but is not in BW, storing 'DSO\_IC07' (/BIC/ADSO\_IC0700)
- 3) IF movement was done in the day, check in 'DSO\_IC07' the date (/BIC/C\_CPUDT):
  1. IF there is no data in 'DSO\_IC07' the date (/BIC/C\_CPUDT), there is no difference at this moment.
  2. IF date (/BIC/C\_CPUDT) is the same today, it should be loaded in the next load.
  3. IF date (/BIC/C\_CPUDT) 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: YIT0      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...				<input type="checkbox"/>		CHA
		MJAHR	Material Docume...				<input type="checkbox"/>		NUM
		BUKRS	Company Code				<input type="checkbox"/>		CHA
		WERKS	Plant				<input type="checkbox"/>		CHA
		MATNR	Material Number				<input type="checkbox"/>		CHA
		BUDAT	Posting Date in t...	25.03.2011	28.03.2011		<input type="checkbox"/>		DAT
		INFOSOURCE	DataSource				<input type="checkbox"/>		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_4LBNCUC0R06TZ3BVKS5F3TRN0	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 / WP...	29.03.2011	29.03.2011	151919	19	Full update

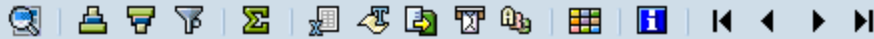
**Records with differences that should be reloaded**

**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	00000000000011458	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  to

Selection by material doc.

Material document  to

Control of recompilation run

Name of run

Rerun?

Termination Date

Termination Time

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 locl

Number of copies 1

**Set to immediate**

Start Time

Immediate Date/Time After job After event At operation mode >>

**Save**

**Follow de process using transaction SM37**

Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
<input type="checkbox"/> 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 7523

Selection per doc. number

Accounting document to

Fiscal year 2011 to

Selection by posting date

Posting Date 25.03.2011 to 28.03.2011

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 ...				<input type="checkbox"/>		CHAR
	0PSTNG_DA...	BUDAT	Posting Date in t...	25.03.2011	28.03.2011	<input type="checkbox"/>	<input type="checkbox"/>		DATS
	0PROCESSK...	BWVORG	SAP BW transacti...				<input type="checkbox"/>		NUMC
	0MATERIAL	MATNR	Material Number				<input type="checkbox"/>		CHAR
	C_MBLNR	MBLNR	Number of Materi...				<input type="checkbox"/>		CHAR
	0PLANT	WERKS	Plant				<input type="checkbox"/>		CHAR
	C_KZZUG	KZZUG	Receipt indicator				<input type="checkbox"/>		CHAR
		SPRAS	Language Key				<input type="checkbox"/>		LANG

Select Data Targets

Select Data Targets To Be Updated

U.	D.	Data Target Name	M.	M.	C.	D.	A.	D.	Technical na
<input type="checkbox"/>	<input type="checkbox"/>	Batch number	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0BATCH
<input type="checkbox"/>	<input type="checkbox"/>	Batch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C_BATCH
<input type="checkbox"/>	<input type="checkbox"/>	Number of reservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C_RSNUM
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Material movements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 Process 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
<ul style="list-style-type: none"> <li>Monitor               <ul style="list-style-type: none"> <li>successful ( 2 )                   <ul style="list-style-type: none"> <li>PSA                       <ul style="list-style-type: none"> <li>29.03.2011                           <ul style="list-style-type: none"> <li>WP1_400 ( WP1 Client 400 )                               <ul style="list-style-type: none"> <li>08:49:47 ( 135917 From 135917 Records )</li> <li>12:45:55 ( 136263 From 136263 Records )</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul>	Request: <u>REQU_4LB5BPBLCZCLY4KVPU9N9GTV0</u> Start Time: <u>29.03.2011 12:45:58</u> Runtime: <u>9m 31s = 72.10 % of the predicted le...</u> Location: <u>Materials Management</u>		DataSource: <u>DTS_IM_VARIANCE ( Extract data Sto...</u> Source Sys.: <u>WP1_400 ( WP1 Client 400 )</u> InfoPackage: <u>DTS_IM_VARIANCE ---&gt; DSO_IC07(F...</u> Adapter: <u>Access to SAP Data through Service ...</u> Data Format: <u>Fixed Length</u> Selections: <u>BUDAT = 20110325 - 20110328</u> User: <u>NARAUJO</u> Processing: <u>PSA</u> Update Mode: <u>Full update</u> Records Check: <u>136263 Records Received</u>

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	00000000000107227	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		00000000000109828	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		00000000000114576	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:

<b>Description</b>	Reporting Variance Stock Bw & R
<b>Technical Name</b>	BW_QRY_DSO_IC07_0001
<b>InfoProvider</b>	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:  Save Save As... Delete [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	

OK Check