

VALIDATING THE RESULT OF SLO CHANGES

TO OPEN ACCOUNT PAYABLES,
OPEN ACCOUNT RECEIVABLES
and TRIAL BALANCE



Validating the result of SLO changes

There is no prescribed way to validate a system which has undergone change due to SLO. This is partly due to the immensity of SLO project types. But everyone would agree that whatever validation approach a company chooses should have the following characteristics:

- **SPEED** – SLO affects the production system and most probably will involve large volumes of production data. The number of records greatly affects how fast your chosen approach will validate all affected records.
- **ACCURACY** – Correctness of the output.
- **AUTOMATION** – The process should be streamlined as much as possible from manual processes. This is related to accuracy in that manual interventions make room for possible human errors.

ETL (Extract, Transform and Load) tools have become valuable in migration, integration and conversion projects because of their ease of use and capability for handling large volumes of data. The tool described in this paper is SAP® BusinessObjects™ Data Services.

Ascentia Consulting has produced a solution for validating SLO results, in particular, the effect of SLO changes to Open Account Payables, Open Account Receivables and Trial Balance.¹

The following describes the process of validating the results of SLO changes to Open Account Payables, Open Account Receivables and Trial Balance.²

- 1) Extract the data produced by the SAP standard report FBL5N from both pre-SLO and post-SLO systems.

Customer Line Item Display

Data Sources

Customer selection

Customer account: [] to []

Company code: 1000 to []

Selection using search help

Search help ID: []

Search string: []

Search help

Line item selection

Status

Open items

Open at key date: 02.01.2013

Cleared items

Clearing date: [] to []

Open at key date: []

All items

Posting date: [] to []

Type

Normal items

Special G/L transactions

Noted items

Parked items

Vendor items

Figure 1 shows the initial screen when using FBL5N. In the example, only normal items, special G/L transactions, noted items and parked items will be queried for the report. Moreover, only records with company code 1000 will be included in the output as well.

¹ This solution was created by Ascentia consultants after identifying improvements to processes used in previous projects. Clients with other SLO validation requirements may engage Ascentia to conduct similar process reviews in order to provide customized solutions that fit their project needs.

² The SAP standard report used in Open Account Receivables is FBL1N while the report for Trial balance is S_ALR_87012277.

Customer Line Item Display

Customer 1032
Name Institut fuer Umweltforschung
Street Bernauer Strasse 12
City Muenchen 81669
TelephoneNumber +49 (89) 1210-0

Company Code 1000 IDES AG
Customer user
Act.clk tel.no.
Clrk's internet
Acct at cust.
Pay Terms ZB01 14 days 3%, 30/2%, 45 net
Account memo

Stat	Type	Doc. Date	Net due dt	Clearing	Amt in loc.cur.	LCurr	DocumentNo
<input type="checkbox"/>	RV	05.01.2010	19.02.2010		30.371,00	EUR	1400000000
<input type="checkbox"/>	RV	05.01.2010	19.02.2010		23.263,80	EUR	1400000001
<input type="checkbox"/>	RV	05.01.2010	19.02.2010		40.984,80	EUR	1400000002
<input type="checkbox"/>	RV	08.02.2010	25.03.2010		36.445,20	EUR	1400000009
<input type="checkbox"/>	RV	08.02.2010	25.03.2010		29.910,60	EUR	1400000010
<input type="checkbox"/>	RV	08.02.2010	25.03.2010		37.569,40	EUR	1400000011
<input type="checkbox"/>	RV	01.03.2010	15.04.2010		45.556,50	EUR	1400000018
<input type="checkbox"/>	RV	01.03.2010	15.04.2010		29.910,60	EUR	1400000019
<input type="checkbox"/>	RV	01.03.2010	15.04.2010		30.738,60	EUR	1400000020
<input type="checkbox"/>	RV	06.04.2010	21.05.2010		36.445,20	EUR	1400000027
<input type="checkbox"/>	RV	06.04.2010	21.05.2010		36.557,40	EUR	1400000028
<input type="checkbox"/>	RV	06.04.2010	21.05.2010		23.907,80	EUR	1400000029
<input type="checkbox"/>	RV	03.05.2010	17.06.2010		36.445,20	EUR	1400000036
<input type="checkbox"/>	RV	03.05.2010	17.06.2010		43.204,20	EUR	1400000037
<input type="checkbox"/>	RV	03.05.2010	17.06.2010		20.492,40	EUR	1400000038
<input type="checkbox"/>	RV	02.06.2010	17.07.2010		27.333,90	EUR	1400000045
<input type="checkbox"/>	RV	02.06.2010	17.07.2010		53.174,40	EUR	1400000046
<input type="checkbox"/>	RV	02.06.2010	17.07.2010		17.077,00	EUR	1400000047

Figure 2 shows a sample report produced by FBL5N.

The extraction does not require log in to SAP to produce the report (as in Figure 2) and export it to Excel or other formats. By using Data Services, we can directly connect to SAP and download the data.

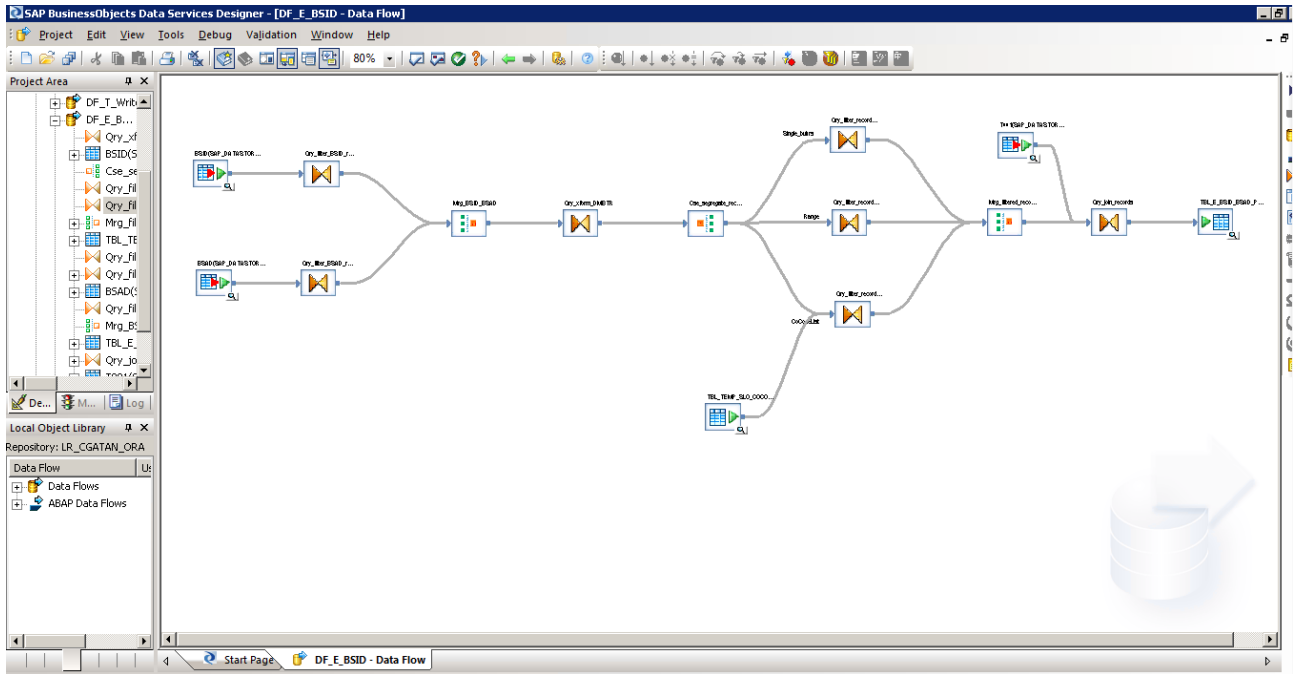


Figure 3 shows a sample extraction job in data services.

TBL_E_BSID_BSAD_PRE_SLO(ORACLE_Datastore.BOBJASC)

BUKRS	KUNNR	BLART	BLDAT	AUGDT	BELNR	DMBTR	WAERS
1000	0000001050	RV	2010.05.31	<Null>	1400000043	47458.15	EUR
1000	0000001050	RV	2010.05.31	<Null>	1400000044	16257.30	EUR
1000	0000001050	RV	2010.06.30	<Null>	1400000048	28913.19	EUR
1000	0000001050	RV	2010.06.30	<Null>	1400000049	55367.84	EUR
1000	0000001050	RV	2010.06.30	<Null>	1400000050	24385.96	EUR
1000	0000001050	RV	2010.06.30	<Null>	1400000051	28913.19	EUR
1000	0000001050	RV	2010.06.30	<Null>	1400000052	59322.69	EUR
1000	0000001050	RV	2010.06.30	<Null>	1400000053	16257.30	EUR
1000	0000001174	DG	2005.01.05	<Null>	1600000005	-20000.00	EUR
1000	0000001174	DG	2006.01.05	<Null>	1600000005	-20000.00	EUR
1000	0000001174	DG	2007.01.05	<Null>	1600000005	-20000.00	EUR
1000	0000001174	DG	2008.01.05	<Null>	1600000005	-20000.00	EUR
1000	0000001174	DG	2009.01.05	<Null>	1600000005	-20000.00	EUR
1000	0000001174	DG	2005.01.05	<Null>	1600000008	-724.77	EUR
1000	0000001174	DG	2006.01.05	<Null>	1600000008	-724.77	EUR
1000	0000001174	DG	2007.01.05	<Null>	1600000008	-724.77	EUR
1000	0000001174	DG	2008.01.05	<Null>	1600000008	-724.77	EUR
1000	0000001174	DG	2009.01.05	<Null>	1600000008	-724.77	EUR
1000	0000001174	DG	2005.02.05	<Null>	1600000015	-20000.00	EUR
1000	0000001174	DG	2007.02.05	<Null>	1600000015	-20000.00	EUR
1000	0000001360	RV	2005.11.16	<Null>	0100003249	52090.03	EUR
1000	0000001360	RV	2005.11.16	<Null>	0100003250	6975.08	EUR
1000	0000001390	RV	2002.10.17	<Null>	0100004393	40600.00	EUR
1000	0000001600	DZ	2000.09.14	<Null>	1400000492	-199520.00	EUR
1000	0000001600	RV	2001.11.23	<Null>	0100000002	199520.00	EUR
1000	0000001901	RV	2003.02.17	<Null>	0100006217	34810.46	EUR

Record: 1 of 3543

Figure 4 shows some of the extracted data format from SAP.

2. Perform the comparison of records.

The comparisons we did in this tool are:

- **Summary totals comparison** – records are grouped together and if any of the groups in the pre-SLO system do not fit their respective groups in the post-SLO system, it would be flagged for review if the change in the group is valid.
- **Line item comparison** – every individual record in the pre-SLO system will be compared to every record in the post-SLO system. This will help in pinpointing which records were lost and which were added during SLO.

Data Services can perform these processes very efficiently, even with a large number of records.

3. Create a report of the validation results.

Since Data Services is an ETL tool, you can use it to produce a report that fits your needs.

- Excel report – if a simple Excel report fits your need, Data Services can output the result to an Excel file.

	A	B	C	D	E	F	G	H
1	SUMMARY							
2		PRE	POST	RECON				
3	RECON	126	127	0				
4	Amount in local cur.	5640704.51	13737176	Recon NOT OK				
5								
6	CoCd	Customer	Sum Amount in loc. curr.	LCu	CoCd	Customer	Sum Amount in loc. curr.	LCu
7	1000	1174	1012558.47	EUR	1000	1032	2871199.6	EUR
8	1000	1360	86721.86	EUR	1000	1050	6370580.76	EUR
9	1000	1390	40600	EUR	1000	1360	86721.86	EUR
10	1000	1600	0	EUR	1000	1390	40600	EUR
11	1000	1901	34810.46	EUR	1000	1600	0	EUR
12	1000	1933	12000	EUR	1000	1901	34810.46	EUR
13	1000	3450	131.9	EUR	1000	1933	12000	EUR
14	1000	3453	-3961.74	EUR	1000	3450	131.9	EUR
15	1000	3454	23106.35	EUR	1000	3453	-3961.74	EUR
16	1000	3455	-42695.43	EUR	1000	3454	23106.35	EUR
17	1000	3456	-2838.19	EUR	1000	3455	-42695.43	EUR
18	1000	3459	-2853	EUR	1000	3456	-2838.19	EUR
19	1000	3460	107.49	EUR	1000	3459	-2853	EUR
20	1000	3461	-1349.76	EUR	1000	3460	107.49	EUR
21	1000	3463	5332.52	EUR	1000	3461	-1349.76	EUR
22	1000	3464	-1140.23	EUR	1000	3463	5332.52	EUR
23	1000	3465	-915.24	EUR	1000	3464	-1140.23	EUR
24	1000	3466	-787.34	EUR	1000	3465	-915.24	EUR
25	1000	3467	-1651.53	EUR	1000	3466	-787.34	EUR
26	1000	3468	-1089.07	EUR	1000	3467	-1651.53	EUR
27	1000	3469	-695.36	EUR	1000	3468	-1089.07	EUR

Figure 5 shows a sample excel report for summary totals comparison. The summary totals include total record count comparison and summation of a certain field.

	A	B	C
1	BUKRS	KUNNR	MESSAGE
2	1000	1032	Pre-: BUKRS: 1000 and KUNR: 0000001032 is not found before SLO but is found after SLO.
3	1000	1050	Pre-: BUKRS: 1000 and KUNR: 0000001050 is not found before SLO but is found after SLO.
4	1000	T-S66A07	Pre- and Post-: Records have different DBMTR value.
5	1000	1174	Post-: BUKRS: 1000 and KUNNR: 0000001174 is missing after doing SLO.

Figure 6 shows a more detailed report done in Excel.

- Reporting tool

FBL1N Reconciliation Report							
** Company Code : 1000							
Recon Status : Failed							
Summary Report							
Company Code	Vendor	Doc Type	PRE Amont	Post Amount	PRE Total	POST Total	STATUS
1000			2450	2300	10	9	Recon Failed
+ 1000	1000		900	900	3	3	OK
+ 1000	1300		600	500	2	2	Amount Mismatch
+ 1000	1300		500	500	2	2	Amount Mismatch
+ 1000	1500		450	400	3	2	Records Missing

Detail Report

Company Code	Vendor	Doc Type	PRE Amont	Post Amount	PRE Total	POST Total	STATUS
1000			2450	2300	10	9	Recon Failed
+ 1000	1000		900	900	3	3	OK
	1000	A1001	500	500			
	1000	A1002	200	200			
	1000	C1003	200	200			
+ 1000	1300		600	500	2	2	Amount Mismatch
	1000	B1001	300	300			
	1000	B1002	300	200			
+ 1000	1300		500	500	2	2	Amount Mismatch
	1000	D1001	300	200			
	1000	D1002	200	300			
+ 1000	1500		450	400	3	2	Records Missing
	1000	C1001	300	300			
	1000	C1002		100			
	1000	C1003	100				
	1000	C1004	50				

Figure 7 shows a sample output report done using a reporting tool.

Using Data Services addresses the requirements that we enumerated earlier:

- **Speed** – Data Services can handle large volumes of data. It is also scalable so a sudden change in the data will not be a problem.
- **Accuracy** – Data Services has been used by many projects of many sizes and complexities. Its reliability in speed and accuracy make it one of the tools of choice for many companies.
- **Automation** – Like any other ETL tool, Data Services has the capability to be linked to other services like SAP, databases, etc. so processes can be minimized and simplified.

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