

ZBW_GBR - BI4 Optmization

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General presentation

Objective of the application

Transaction created to [upload](#) and consult the GBR objects used by Finance, Global Sales and other reports.

Project BI4 Optimization (9584).

BW SD Loading of GBR master data



User manual

 User guide

 Template

 Queries

Choose the type of data

Definition

☐ Corporate Cust. Groups

☐ Corporate End-Use Application

☐ Corporate End-Use Segment

☐ Corporate End-Use Market

☐ Corporate End-Use for GBU

☐ GBU Segment

Assignment

☐ Corporate Cust. Groups (link)

☐ GBU Key Account

☐ GBU End-Use (link)

☐ GBU Customer Groups/ Sub-groups

☐ GBU Material Groups/ Sub-groups

☐ GBU Segment (link)

☒ GBU Zone (link)

Choose GBU

GBU



Choose the file to load

Upload Filename

 Preview

 Load file

 History

 Exit

Usage information

The transaction is used by around 40 users in the worldwide split between corporate members and GBU users from Novecare, Aroma, Silica, Technology Solutions, Soda Ash, Peroxide, Special Chem, Coatis and Polyamides

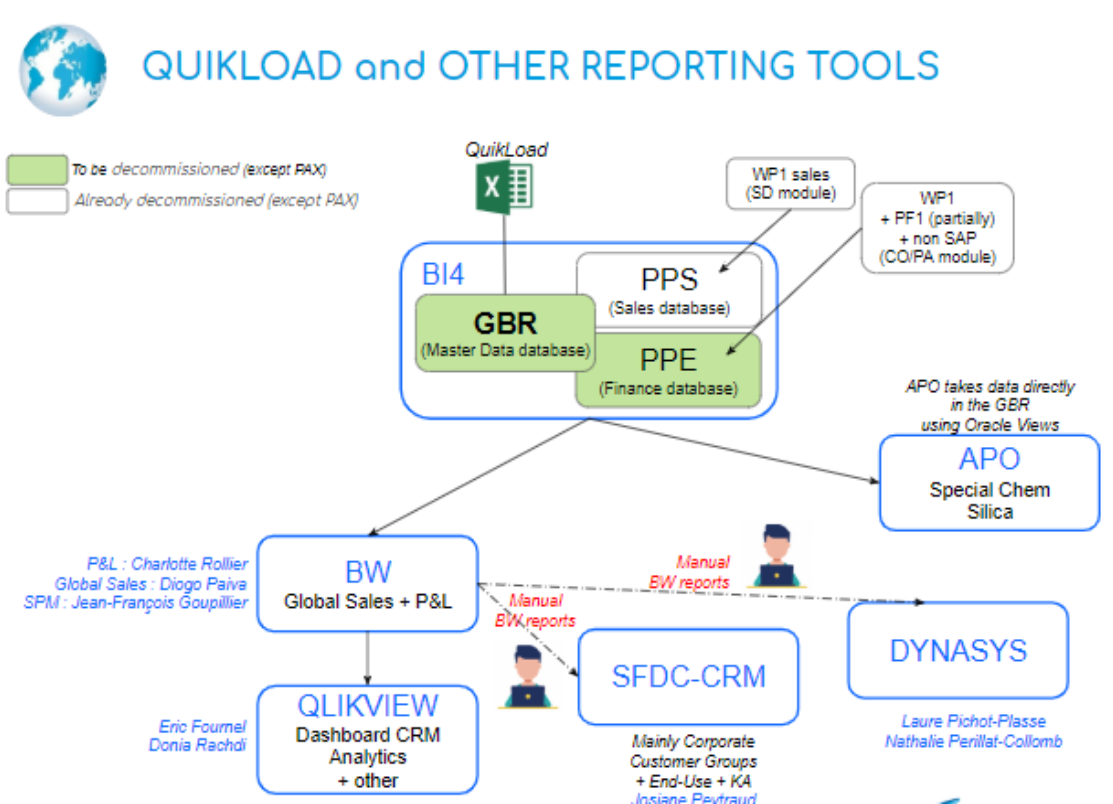
History

The **Global Business Repository (GBR)** has been built some years ago with the objective to add reporting dimensions that were not managed as master data in SAP WP1 (like Customer Group, Market, Application, End-Use). Some of the reporting dimensions are now used as well in PF1.

- Technically speaking that was an Oracle database managed by specific tables dedicated to the purpose from image above.
- It was thought in the context of BI4 (*) reporting and with the time these dimensions have been integrated in BW and QlikView dashboards

The **QUIKLOAD** was the tool responsible for getting the files tool used to load data in the GBR.

- Different Functions are available and each one of them is specific for a type of data to be managed: customer groups, material groups, key-accounts, end-use ... etc
- Authorizations are managed bi BI4 team according to 2 levels:
 - by Function
 - by GBU



Using these premises, the program ZBW_SD_GBR reproduces the same concepts to load the corporate definitions and GBU assignments.

Roles & Access

Roles and access

The authorization are divided between access to the transaction code, type of function (corporate and/or GBU) and also by GBU permitted.

Role Code	Role Description	Explanation
ZBI_RCS_GBR_A01	GBR– Global Business Repository - Corporate User	GBR– Global Business Repository - Corporate User
ZBI_RCS_GBR_A02	GBR– Global Business Repository - GBU User	GBR– Global Business Repository - GBU User
ZR_*_CA_P05		Check authorization for the GBU

Authorization objects

List of autorisation objects mandatory for the application.

Authorization object	Explanation
ZCORPORATE	Corporate information
ZGBUUSER	GBU User
Z*P05	GBU

Dataflow overview

Project documentation drive folder:

https://drive.google.com/drive/folders/1j9kbzDh2WE9HiU4LF6c_wHq3tCg9rrUY

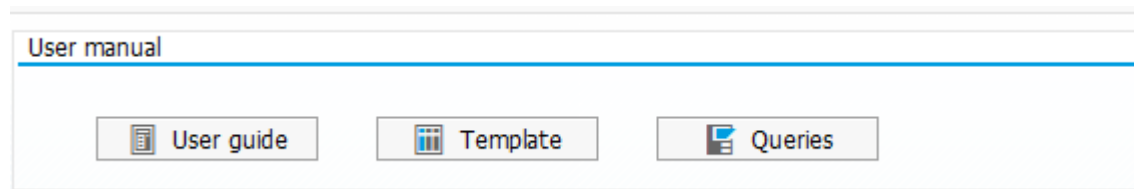
Functional and Technical rules on Workbench + Reporting

Rules & Explanations

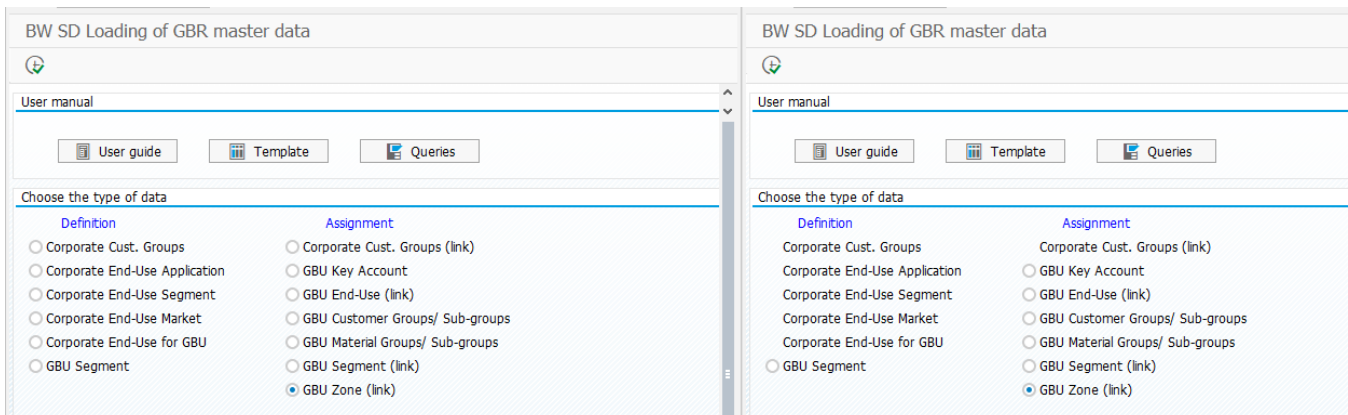
The transaction ZBW_GBR has in the background the program ZBW_SD_GBR.

There is possible by the first block of the information to check the user manual, where:

- User guide - the guide about the authorization request, load schema and the expected values for each function.
- Template - the template xls file for each function
- Queries - the core queries used by administration of the GBR objects on BW.



As mentioned by the authorization section, the type of function is split between the corporate users (left screen below), that allows to upload files for all function types and GBU, which it is only allowed to upload objects with the prefix 'GBU'.



Target objects in BW:

- Reference
 - Corp. Cust. Group - C_GRCUST
 - Corp. End-Use Application - C_GBR1
 - Corp. End-Use Segment - C_GBR3
 - Corp. End-Use Market - C_GBR2

- Corp. End-Use for GBU - C_GBR4
- GBU Segment - C_ENTSEG
- Assignment
 - Corporate Cust. Groups (link) - DPCOPA06
 - GBU Key Account - DPCOPA05
 - GBU End-Use (link) - C_GBR24 (CS) / C_GBR14 (other GBU)
 - GBU Customer Groups/ Sub-Groups - C_GBR10
 - GBU Material Groups/ Sub-Groups - C_GBR18
 - GBU Segment (link) - DBSDSO92 (CS) / DBSDSO93 (other GBU)
 - GBU Zone (link) - C_GBUZONE

According to the GBU function selection, a new parameter with the check box option is open to check into the file the GBU filled and the user accesses.

Choose GBU

GBU

The last box is regarding the directory from the .xls / .xlsx file and the buttons:

Choose the file to load

Upload Filename

Preview

Load file

History

Exit

Choose the file to load

Upload Filename

6211\Desktop\GBR\WBQ\Corporate cust group - ass.xlsx

Preview

Load file

History

Exit

- Preview - To check the inconsistencies (in red) in the file, such as the corresponding messages

BW SD Loading of GBR master data							
Status	Source system	Customer	Corporate Group	Deletion flag	Change date	Changed by	Message
●○○	WQ1_400	0004701290	GRCL206908		09.06.2020	TH30085_T	Corporate group not available.
●○○	WQ1_400	0004701291	GRCL206908		09.06.2020	TH30085_T	Corporate group not available.
●○○	WQ1_400	0004701280	GRL206908		09.06.2020	TH30085_T	Corporate group not available.
○○■	WQ1_400	0004701120			09.06.2020	TH30085_T	
○○■	WQ1_400	0002031257	9999999999	X	09.06.2020	TH30085_T	
○○■	WQ1_400	0002032368	9999999999	X	09.06.2020	TH30085_T	
○○■	WQ1_400	0002042715	9999999999	X	09.06.2020	TH30085_T	
○○■	WQ1_400	0002048023	GRCL208605		09.06.2020	TH30085_T	
○○■	WQ1_400	0002048024	GRCL208605		09.06.2020	TH30085_T	
○○■	WQ1_400	0002048092	GRCL208605		09.06.2020	TH30085_T	
●○○	WQ1_400	0002048177	GRCL208940	A	09.06.2020	TH30085_T	Not allowed value.
○○■	WQ1_400	0002049334	GRCL208940		09.06.2020	TH30085_T	
○○■	WQ1_400	0002053440	GRCL208955		09.06.2020	TH30085_T	
○○■	WQ1_400	0002060452	GRCL208695		09.06.2020	TH30085_T	
○○■	WQ1_400	0002061477	GRCL208695		09.06.2020	TH30085_T	
○○■	WQ1_400	0002061510	GRCL208695		09.06.2020	TH30085_T	
○○■	WQ1_400	0002061682	GRCL208895		09.06.2020	TH30085_T	
○○■	WQ1_400	0002061683	GRCL208895		09.06.2020	TH30085_T	
○○■	WQ1_400	0002062483	GRCL208955		09.06.2020	TH30085_T	
○○■	WQ1_400	0002062877	GRCL208940		09.06.2020	TH30085_T	
○○■	WQ1_400	0002067991	GRCL208895		09.06.2020	TH30085_T	
○○■	WQ1_400	0002067992	GRCL208895		09.06.2020	TH30085_T	
○○■	WQ1_400	0002068787	GRCL208618		09.06.2020	TH30085_T	
●○○	PF1_020	0002068788	GRCL208618		09.06.2020	TH30085_T	Corporate group not available.
●○○	PF1_020	0002068788	0000801039		09.06.2020	TH30085_T	Source system not available.

- Load - Once the check is ok, to get the file send it to AL11 directory /exploit/BW/GBR and trigger by event the corresponding process chain.

Directory: /exploit/BW/GBR							
Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchange	File Name
			4096	exploit	15.01.2020	16:27:10	.
			4096	uid=209	20.01.2020	09:12:28	..
X			972	wbdadm	15.01.2020	16:38:00	aacopa01.csv
X			168	wbdadm	03.12.2019	17:38:54	c_entseg.csv
X			40	wbdadm	11.12.2019	12:31:13	c_gbr1.csv
X			77	wbdadm	22.01.2020	12:34:50	c_gbr14.csv
X			1013	wbdadm	10.10.2019	11:49:45	c_gbr18.csv
X			834	wbdadm	07.10.2019	14:53:46	c_gbr2.csv
X			74	wbdadm	09.12.2019	16:23:06	c_gbr21.csv
X			1535	wbdadm	07.10.2019	14:52:59	c_gbr3.csv
X			2792	wbdadm	07.10.2019	15:59:35	c_gbr4.csv
X			33	wbdadm	17.10.2019	09:29:43	c_grcust.csv
X			1823	wbdadm	07.10.2019	16:42:59	dpcopa05.csv
X			830	wbdadm	04.10.2019	10:25:30	dpcopa06.csv
X			1200	wbdadm	08.10.2019	18:15:56	gbr18.csv

Background Events: Overview and Administration

Event HistoryCriteriaReorganizationBckProcEvents



Created	Background Processing Event	Description	Changed by	Date	Time
Customer	Z_EVT_PC_GBR_01	Customer corp. group (definition)	PT99376211	08.10.2019	17:40:08
Customer	Z_EVT_PC_GBR_02	GBU End-use (definition)	PT99376211	08.10.2019	17:40:48
Customer	Z_EVT_PC_GBR_03	GBU End-use (Link) (assignment)	PT99376211	08.10.2019	17:41:13
Customer	Z_EVT_PC_GBR_04	Application (definition)	PT99376211	08.10.2019	17:41:47
Customer	Z_EVT_PC_GBR_05	Market (definition)	PT99376211	08.10.2019	17:42:21
Customer	Z_EVT_PC_GBR_06	Segment (definition)	PT99376211	08.10.2019	17:42:33
Customer	Z_EVT_PC_GBR_07	Key Accounts (assignment)	PT99376211	08.10.2019	17:42:54
Customer	Z_EVT_PC_GBR_08	Material group/ sub-groups (assignment)	PT99376211	08.10.2019	17:43:22
Customer	Z_EVT_PC_GBR_09	Customer group/ sub-groups (assignment)	PT99376211	08.10.2019	17:43:39
Customer	Z_EVT_PC_GBR_10	Customer corp. group (assignment)	PT99376211	08.10.2019	17:44:05
Customer	Z_EVT_PC_GBR_11	GBU Zones (definition)	PT99376211	08.10.2019	17:44:24
Customer	Z_EVT_PC_GBR_12	Ent. Segment (definition)	PT99376211	02.12.2019	12:08:42
Customer	Z_EVT_PC_GBR_13	Ent. Segment (assignment)	PT99376211	02.12.2019	12:14:06

- History - To check the previously loads from each function ordered by the last change.

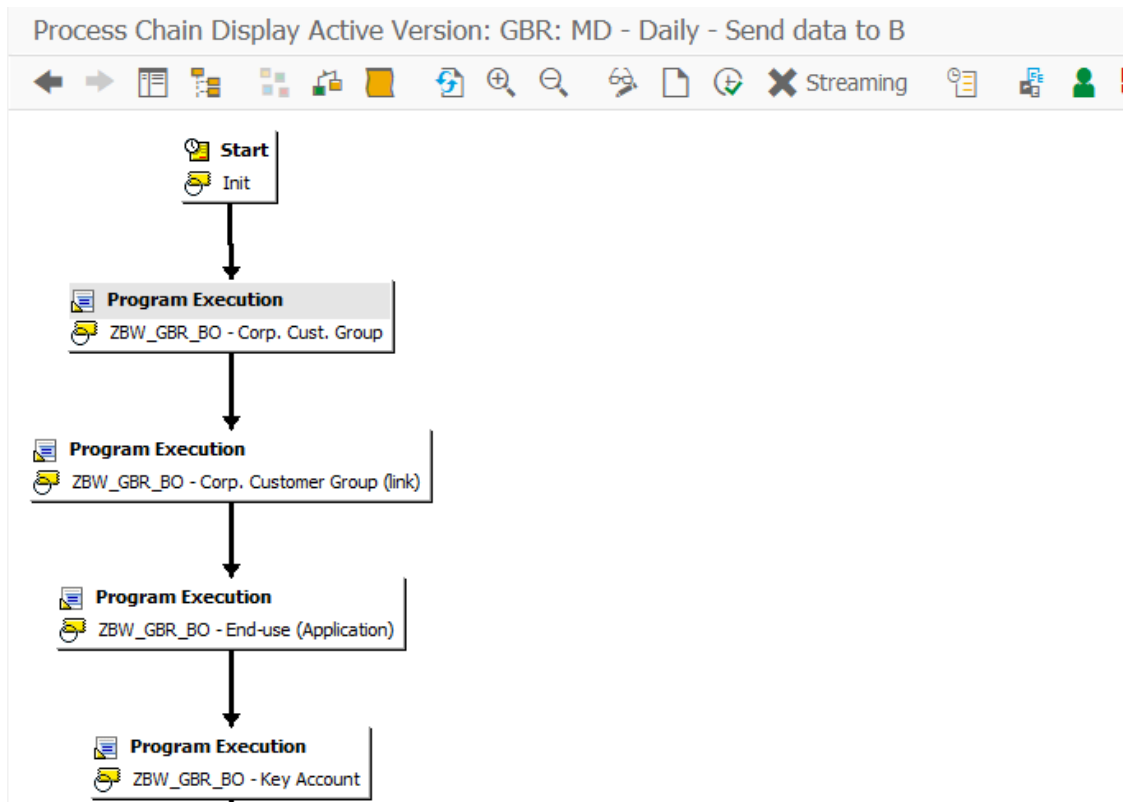
BW SD Loading of GBR master data									
Srcce Sys.	Com Prod /	BFC Activi	BFC GBU	Customer	GBR Corp. End-Use	Deletion	Changed On	Changed by	
QF1_020	Z50-40556	CSPS	CS	0002901321	ENDUSEGCS00071		02.06.2020	TH30085_T	
WQ1_400	90000577	CSCH	CS	0000050298	ENDUSEGCS00071		02.06.2020	TH30085_T	
WQ1_400	90000577	CSCH	CS	0002012143	ENDUSEGCS00140		02.06.2020	TH30085_T	
WQ1_400	90000579	CSCH	CS	0000050298	ENDUSEGCS00147		02.06.2020	TH30085_T	
WQ1_400	90000579	CSCH	CS	0000061565	ENDUSEGCS00148		02.06.2020	TH30085_T	
WQ1_400	90004494	CSCH	CS	0002079240	ENDUSEGCS00140		02.06.2020	TH30085_T	
WQ1_400	90000579	CSCH	CS	0000063673		X	04.02.2020	TH30085_T	
WQ1_400	90001539	CSCH	CS	0002018432	ENDUSEGCS00714				
WQ1_400	90001539	CSCH	CS	0002020007	ENDUSEGCS00963				
WQ1_400	90001855	CSPS	CS	0000072081	ENDUSEGCS00942				
WQ1_400	90001979	CSPS	CS	0002047956	ENDUSEGCS00942				
WQ1_400	90002010	CSCH	CS	0002032949	ENDUSEGCS00204				
WQ1_400	90002010	CSCH	CS	0002047605	ENDUSEGCS00963				
WQ1_400	90002038	CSCH	CS	0002025127	ENDUSEGCS00262				
WQ1_400	90002163	CSPS	CS	0000074904	ENDUSEGCS00942				
WQ1_400	90002167	CSPS	CS	0002037441	ENDUSEGCS00942				
WQ1_400	90004498	CSPS	CS	0000061546	ENDUSEGCS00942				
WQ1_400	90007078	CSPS	CS	0000063334	ENDUSEGCS00942				
WQ1_400	90008895	CSPS	CS	0000083205	ENDUSEGCS00942				
WQ1_400	90008895	CSPS	CS	0000090847	ENDUSEGCS00942				
WQ1_400	90018939	CSPS	CS	0000084754	ENDUSEGCS00942				

As it is possible to check in one of the records from previous screenshot, once the user fill the deletion flag during the upload, the attribute is erased from master data and this action is also reflected for others master data where the erased line is classified as attribute.

Other rules can be find in the functional document below.

Dependencies with other applications

For the PAX GBUs, we have the program GBR > BO, that gets valid data from GBU PX, PY and PV and send it to BO directory /exploit/BW/CIS by the program ZBW_GBR_BO with the parameters setted in the daily process chain PC_GBR_16.



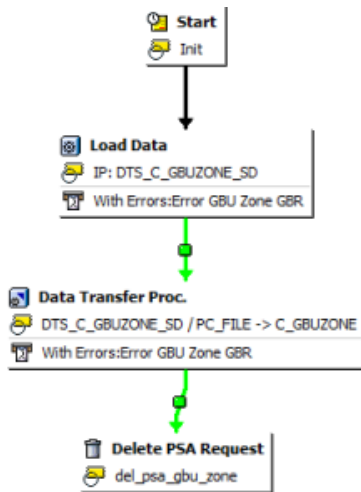
Data loadings

Info providers and objects loaded

The list of process chains could be found in the application component DICO_PC_BW_GBR, where except the Send data to BO, the other chains are triggered on demand by the users on the ZBW_GBR tcode.

Process Chains	Tech. Name
143 - PROJECT - GBR	DICO_PC_BW_GBR
CHM: CO-PA - ADH - Chemplex Sales	PC_GBR_14
CHM: MD - ADH - Chemplex Customer	PC_GBR_15
GBR: MD - ADH - Application	PC_GBR_04
GBR: MD - ADH - Customer corp. group	PC_GBR_01
GBR: MD - ADH - Customer corp. group (ass)	PC_GBR_10
GBR: MD - ADH - Customer group/sub-group	PC_GBR_09
GBR: MD - ADH - End-use (link)	PC_GBR_03
GBR: MD - ADH - Ent. Segment (link)	PC_GBR_13
GBR: MD - ADH - Ent. segment	PC_GBR_12
GBR: MD - ADH - GBU End-use	PC_GBR_02
GBR: MD - ADH - GBU Zone	PC_GBR_11
GBR: MD - ADH - Key Account	PC_GBR_07
GBR: MD - ADH - Market	PC_GBR_05
GBR: MD - ADH - Material group/sub-group	PC_GBR_08
GBR: MD - ADH - Segment	PC_GBR_06
GBR: MD - Daily - Send data to BO	PC_GBR_16

All steps inside the chain have a treatment for error message that send a e-mail to contact the support team doing reference of the chain with error.



Loading frequency

The load is triggered by the user via transaction ZBW_GBR

Average performance

Key Figure	Estimation
~ Average Process Chain Runtime	~1 minute
~ Average nb of rows loaded per load	~100

Record Keeping

Reporting

Queries End User Documentation

Main queries

Main functionalities

Broadcast

Maintenance

Known bugs

Recurring procedure

Planned Evolution

Decommissioning of the chains/ objects using the PEP and DW2 as source is planned to be done before the project Go live.